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dcdn

API Reference

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Document conventions

Style	Description	Example
Danger	A danger notice indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	**Danger:** Resetting will result in the loss of user configuration data.
Warning	A warning notice indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	**Warning:** Restarting will cause business interruption. About 10 minutes are required to restart an instance.
Notice	A caution notice indicates warning information, supplementary instructions, and other content that the user must understand.	**Notice:** If the weight is set to 0, the server no longer receives new requests.
Note	A note indicates supplemental instructions, best practices, tips, and other content.	**Note:** You can use Ctrl + A to select all files.
>	Closing angle brackets are used to indicate a multi-level menu cascade.	Click **Settings**> **Network**> **Set network type**.
Bold	Bold formatting is used for buttons , menus, page names, and other UI elements.	Click **OK**.
`Courier font`	Courier font is used for commands	Run the `cd /d C:/window` command to enter the Windows system folder.
Italic	Italic formatting is used for parameters and variables.	`bae log list --instanceid` *Instance_ID*
[] or [a|b]	This format is used for an optional value, where only one item can be selected.	`ipconfig [-all|-t]`
{} or {a|b}	This format is used for a required value, where only one item can be selected.	`switch {active|stand}`

Table of Contents

1.List of operations by function 12
2.Make API requests 20
3.Common parameters 21
4.Obtain an AccessKey pair 23
5.Activate services 24
5.1. OpenDcdnService 24
5.2. DescribeUserDcdnStatus 25
5.3. DescribeDcdnService 26
6.Domain name management 29
6.1. AddDcdnDomain 29
6.2. BatchAddDcdnDomain 33
6.3. UpdateDcdnDomain 37
6.4. StartDcdnDomain 40
6.5. BatchStartDcdnDomain 41
6.6. StopDcdnDomain 42
6.7. BatchStopDcdnDomain 43
6.8. DeleteDcdnDomain 44
6.9. DescribeDcdnDomainCname 45
6.10. DescribeDcdnUserDomains 47
6.11. DescribeDcdnDomainDetail 52
6.12. ModifyDCdnDomainSchdmByProperty 55
6.13. DescribeDcdnUserDomainsByFunc 56
6.14. BatchSetDcdnDomainConfigs 61
6.15. DescribeDcdnDomainConfigs 76
6.16. DeleteDcdnSpecificConfig 78
6.17. BatchDeleteDcdnDomainConfigs 79

6.18. DescribeDcdnDeletedDomains 81
6.19. BatchSetDcdnDomainConfigs 83
6.20. Usage notes on ConfigId 111
7.Domain name verification 117
7.1. VerifyDcdnDomainOwner 117
7.2. DescribeDcdnVerifyContent 118
8.Refresh and prefetch 120
8.1. RefreshDcdnObjectCaches 120
8.2. PreloadDcdnObjectCaches 122
8.3. DescribeDcdnRefreshQuota 124
8.4. DescribeDcdnRefreshTasks 125
8.5. DescribeDcdnUserQuota 129
8.6. DescribeRefreshTaskById 131
9.Certificate service 135
9.1. Management of SSL certificates 135
9.2. SetDcdnDomainCertificate 135
9.3. DescribeDcdnCertificateList 139
9.4. DescribeDcdnCertificateDetail 141
9.5. DescribeDcdnDomainByCertificate 142
9.6. DescribeDcdnDomainCertificateInfo 145
9.7. DescribeDcdnHttpsDomainList 147
9.8. BatchSetDcdnDomainCertificate 149
9.9. SetDcdnDomainSMCertificate 152
9.10. DescribeDcdnSMCertificateDetail 154
9.11. DescribeDcdnSMCertificateList 155
9.12. DescribeDcdnUserCertificateExpireCount 157
10.Resource usage 159
10.1. DescribeDcdnDomainHttpCodeData 159

10.2. DescribeDcdnDomainRegionData 162
10.3. DescribeDcdnRegionAndIsp 167
10.4. DescribeDcdnDomainHitRateData 225
10.5. DescribeDcdnDomainIspData 228
10.6. DescribeDcdnDomainQpsData 233
10.7. DescribeDcdnDomainBpsData 237
10.8. DescribeDcdnDomainTrafficData 240
10.9. DescribeDcdnDomainOriginBpsData 244
10.10. DescribeDcdnDomainOriginTrafficData 247
10.11. DescribeDcdnDomainWebsocketHttpCodeData 251
10.12. DescribeDcdnDomainWebsocketBpsData 254
10.13. DescribeDcdnDomainWebsocketTrafficData 258
10.14. DescribeDcdnDomainBpsDataByLayer 261
10.15. DescribeDcdnDomainHttpCodeDataByLayer 264
10.16. DescribeDcdnDomainQpsDataByLayer 268
11.Real-time monitoring 273
11.1. DescribeDcdnDomainRealTimeSrcTrafficData 273
11.2. DescribeDcdnDomainRealTimeQpsData 276
11.3. DescribeDcdnDomainRealTimeSrcBpsData 278
11.4. DescribeDcdnDomainRealTimeHttpCodeData 281
11.5. DescribeDcdnDomainRealTimeByteHitRateData 285
11.6. DescribeDcdnDomainRealTimeBpsData 286
11.7. DescribeDcdnDomainRealTimeReqHitRateData 289
11.8. DescribeDcdnDomainRealTimeSrcHttpCodeData 292
11.9. DescribeDcdnDomainRealTimeTrafficData 295
11.10. DescribeDcdnDomainRealTimeDetailData 298
12.Resource usage 302
12.1. DescribeDcdnUserBillHistory 302

12.2. DescribeDcdnUserResourcePackage 306
12.3. DescribeDomainUsageData 310
12.4. DescribeDcdnBgpBpsData 316
12.5. DescribeDcdnBgpTrafficData 319
13.Log management 322
13.1. DescribeDcdnDomainLog 322
13.2. DescribeUserLogserviceStatus 326
13.3. CheckDcdnProjectExist 327
13.4. CreateDcdnSLSRealTimeLogDelivery 328
13.5. CreateSlrAndSlsProject 331
13.6. DeleteDcdnRealTimeLogProject 332
13.7. DescribeDcdnRealTimeDeliveryField 333
13.8. DescribeDcdnSLSRealtimeLogDelivery 335
13.9. DescribeDcdnUserRealTimeDeliveryField 337
13.10. ListDcdnRealTimeDeliveryProject 339
13.11. UpdateDcdnSLSRealtimeLogDelivery 342
13.12. UpdateDcdnUserRealTimeDeliveryField 345
14.Operations reports 347
14.1. CreateDcdnSubTask 347
14.2. CreateDcdnDeliverTask 348
14.3. DescribeDcdnSubList 351
14.4. DescribeDcdnReport 354
14.5. DescribeDcdnReportList 359
14.6. DescribeDcdnDeliverList 363
14.7. UpdateDcdnSubTask 367
14.8. UpdateDcdnDeliverTask 369
14.9. DeleteDcdnSubTask 372
14.10. DeleteDcdnDeliverTask 373

15.EdgeRoutine (ER) 375
15.1. CreateRoutine 375
15.2. DeleteRoutine 376
15.3. DeleteRoutineCodeRevision 377
15.4. DeleteRoutineConfEnvs 378
15.5. DescribeRoutine 379
15.6. DescribeRoutineCanaryEnvs 383
15.7. DescribeRoutineCodeRevision 385
15.8. DescribeRoutineSpec 387
15.9. DescribeRoutineUserInfo 388
15.10. DescribeUserErStatus 389
15.11. EditRoutineConf 391
15.12. SetRoutineSubdomain 393
15.13. UploadRoutineCode 394
15.14. UploadStagingRoutineCode 396
15.15. PublishRoutineCodeRevision 398
15.16. CommitStagingRoutineCode 400
16.IP Application Accelerator 402
16.1. DescribeDcdnIpaDomainConfigs 402
16.2. StopDcdnIpaDomain 404
16.3. DescribeUserDcdnIpaStatus 405
16.4. DescribeDcdnIpaService 406
16.5. UpdateDcdnIpaDomain 408
16.6. DeleteDcdnIpaDomain 411
16.7. StartDcdnIpaDomain 412
16.8. AddDcdnIpaDomain 413
16.9. BatchSetDcdnIpaDomainConfigs 417
16.10. DescribeDcdnIpaUserDomains 419

16.11. DescribeDcdnIpaDomainDetail 423
16.12. DeleteDcdnIpaSpecificConfig 426
16.13. DescribeDcdnDomainProperty 427
16.14. DescribeDcdnDomainIpaBpsData 429
16.15. DescribeDcdnDomainIpaTrafficData 432
16.16. DescribeDcdnDomainIpaConnData 435
17.EdgeScript 439
17.1. SetDcdnDomainStagingConfig 439
17.2. DescribeDcdnDomainStagingConfig 441
17.3. DeleteDcdnSpecificStagingConfig 443
17.4. PublishDcdnStagingConfigToProduction 444
17.5. RollbackDcdnStagingConfig 445
17.6. DescribeDcdnStagingIp 446
17.7. DescribeDcdnEsExceptionData 447
17.8. DescribeDcdnEsExecuteData 450
18.Edge security 454
18.1. DescribeDcdnUserSecDrop 454
18.2. DescribeDcdnWafDomain 455
18.3. DescribeDcdnSecFuncInfo 457
18.4. DescribeDcdnUserSecDropByMinute 459
18.5. DescribeDcdnBlockedRegions 462
18.6. DescribeDcdnUserConfigs 464
18.7. WAF protection (new edition) 466
18.7.1. DescribeDcdnWafSpecInfo 466
18.7.2. DescribeDcdnWafScenes 468
18.7.3. DescribeDcdnWafDomains 470
18.7.4. DescribeDcdnWafPolicyDomains 472
18.7.5. CreateDcdnWafPolicy 474

18.7.6. DescribeDcdnWafPolicies 476
18.7.7. DescribeDcdnWafPolicy 481
18.7.8. ModifyDcdnWafPolicy 483
18.7.9. DeleteDcdnWafPolicy 485
18.7.10. DescribeDcdnWafDomainDetail 486
18.7.11. DescribeDcdnWafRules 488
18.7.12. BatchDeleteDcdnWafRules 493
18.7.13. ModifyDcdnWafPolicyDomains 494
18.7.14. ModifyDcdnWafRule 495
18.7.15. DescribeDcdnWafRule 497
18.7.16. DescribeDcdnWafPolicyValidDomains 499
18.7.17. BatchSetDcdnWafDomainConfigs 502
18.7.18. DescribeDcdnWafFilterInfo 503
18.7.19. BatchCreateDcdnWafRules 506
18.7.20. DescribeDcdnWafService 516
18.7.21. DescribeUserDcdnWafStatus 517
18.7.22. DescribeDcdnWafGeoInfo 519
18.7.23. DescribeDcdnWafUsageData 521
19.Tag management 525
19.1. TagDcdnResources 525
19.2. DescribeDcdnTagResources 526
19.3. DescribeDcdnUserTags 528
19.4. UntagDcdnResources 529
20.Tool management 531
20.1. DescribeDcdnIpInfo 531
21.Terraform 533
21.1. Terraform overview 533
21.2. Terraform terms 534

21.3. Install and configure Terraform ---------- 535

1.List of operations by function

The following tables describe API operations available for use in Dynamic Route for CDN (DCDN).

Service activation

Operation	Description
OpenDcdnService	Activates DCDN.
DescribeUserDcdnStatus	Queries whether the DCDN service is activated and whether you have overdue payments for your DCDN service.
DescribeDcdnService	Queries information about the DCDN service. The information includes the time when the service was activated, the current service status, the current billing method, and the billing method of the next cycle.

Domain name management

Operation	Description
AddDcdnDomain	Adds an accelerated domain name. You can specify only one domain name in each request.
BatchAddDcdnDomain	Adds multiple domain names to DCDN at a time.
UpdateDcdnDomain	Modifies an accelerated domain name.
StartDcdnDomain	Enables an accelerated domain name. After an accelerated domain name is enabled, the value of the DomainStatus parameter for the domain name changes to Online.
BatchStartDcdnDomain	Enables one or more accelerated domain names. After the accelerated domain names are enabled, the value of the DomainStatus parameter for the domain names changes to Online.
StopDcdnDomain	Disables an accelerated domain name. After an accelerated domain name is disabled, the value of the DomainStatus parameter for the domain name changes to Offline.
BatchStopDcdnDomain	Disables one or more accelerated domain names. After an accelerated domain name is disabled, the value of the DomainStatus parameter for the domain name changes to Offline.
DeleteDcdnDomain	Deletes an accelerated domain name.
DescribeDcdnDomainCname	Queries whether CNAME records are configured for one or more accelerated domain names.
DescribeDcdnUserDomains	Queries the accelerated domain names that belong to your Alibaba Cloud account. You can filter domains by name or by state. Fuzzy match is supported when you filter domains by name.
DescribeDcdnDomainDetail	Queries the basic information about an accelerated domain name.
ModifyDCdnDomainSchdmByProperty	Changes the acceleration region of an accelerated domain name.
DescribeDcdnUserDomainsByFunc	Queries all accelerated domain names that belong to your Alibaba Cloud account based on the FuncId parameter.
BatchSetDcdnDomainConfigs	Configures one or more accelerated domain names.
DescribeDcdnDomainConfigs	Queries the configurations of an accelerated domain name. You can query the configurations of one or more features in each request.
DeleteDcdnSpecificConfig	Deletes configurations of an accelerated domain name.

Operation	Description
BatchDeleteDcdnDomainConfigs	Deletes configurations of one or more accelerated domain names.
DescribeDcdnDeletedDomains	Queries the domain names that are deleted from your Alibaba Cloud account.

Domain name ownership verification

Operation	Description
VerifyDcdnDomainOwner	Verifies the ownership of a domain name.
DescribeDcdnVerifyContent	Queries the ownership verification content for a domain name.

Refresh and prefetch

Operation	Description
RefreshDcdnObjectCaches	Refreshes specified objects on DCDN nodes. The objects can be included in the content of files or URLs. You can refresh multiple URLs in each request.
PreloadDcdnObjectCaches	Prefetches content from origin servers to L2 DCDN nodes. This reduces workloads on origin servers because users can hit cache upon their first visits.
DescribeDcdnRefreshQuota	Queries the maximum number and the remaining number of URLs and directories that can be refreshed or the maximum number and the remaining number of URLs that can be prefetched per day.
DescribeDcdnRefreshTasks	Queries details about refresh or prefetch tasks.
DescribeDcdnUserQuota	Queries resource quotas and resource usage.
DescribeDcdnRefreshTaskById	Queries the status of refresh or prefetch tasks by task ID.

Certificates service

Operation	Description
SetDcdnDomainCertificate	Enables or disables the SSL certificate for a domain name and modifies certificate details.
DescribeDcdnCertificateList	Queries the certificates of one or more accelerated domain names.
DescribeDcdnCertificateDetail	Queries details about a certificate.
DescribeDcdnDomainByCertificate	Queries accelerated domain names based on certificate information.
DescribeDcdnDomainCertificateInfo	Queries certificate information about an accelerated domain name.
DescribeDcdnHttpsDomainList	Queries information about all certificates that belong to your Alibaba Cloud account.
BatchSetDcdnDomainCertificate	Configures the SSL certificate and modifies the certificate information for multiple accelerated domain names at a time.
SetDcdnDomainSMCertificate	Enables or disables the ShangMi (SM) certificate for a domain name.
DescribeDcdnSMCertificateDetail	Queries the details about an SM certificate.
DescribeDcdnSMCertificateList	Queries the SM certificates of an accelerated domain name.

Resource usage

Operation	Description
DescribeDcdnDomainHttpCodeData	Queries the total number and proportions of returned HTTP status codes at a minimum interval of five minutes. You can query the data that is collected over the last 90 days.
DescribeDcdnDomainRegionData	Queries the geographical distribution of users for an accelerated domain name. The data is collected at an interval of one day. You can query the data that is collected over the last 90 days.
DescribeDcdnRegionAndIsp	Queries the list of Internet service providers (ISPs) and regions.
DescribeDcdnDomainHitRateData	Queries the cache hit ratios of an accelerated domain name. You can query the data that is collected over the last 90 days.
DescribeDcdnDomainIspData	Queries data statistics about accelerated domain names by ISP. You can query the data that is collected over the last 90 days.
DescribeDcdnDomainQpsData	Queries the queries per second (QPS) for one or more accelerated domain names. You can query the data that is collected over the last 90 days.
DescribeDcdnDomainBpsData	Queries bandwidth for one or more accelerated domain names. You can query the data that is collected over the last 90 days.
DescribeDcdnDomainTrafficData	Queries traffic for one or more accelerated domain names. You can query the data that is collected over the last 90 days.
DescribeDcdnDomainOriginBpsData	Queries back-to-origin bandwidth for one or more accelerated domain names. You can query the data that is collected over the last 90 days.
DescribeDcdnDomainOriginTrafficData	Queries back-to-origin traffic for one or more accelerated domain names. You can query data that is collected over the last 90 days.
DescribeDcdnDomainWebsocketHttpCodeData	Queries the total number and proportions of returned HTTP status codes for one or more accelerated domain names for which WebSocket is enabled. The data is collected at a minimum interval of five minutes.
DescribeDcdnDomainWebsocketBpsData	Queries bandwidth of one or more accelerated domain names for which WebSocket is enabled. You can query the data that is collected over the last 90 days.
DescribeDcdnDomainWebsocketTrafficData	Queries traffic of one or more accelerated domain names for which WebSocket is enabled. You can query the data that is collected over the last 90 days.

Real-time monitoring

Operation	Description
DescribeDcdnDomainRealTimeSrcTrafficData	Queries back-to-origin traffic for one or more accelerated domain names. The resolution of the data is one minute. You can query the data that is collected over the last 90 days.
DescribeDcdnDomainRealTimeQpsData	Queries the QPS for one or more accelerated domain names. The resolution of the data is one minute.
DescribeDcdnDomainRealTimeSrcBpsData	Queries back-to-origin bandwidth for one or more accelerated domain names. The resolution of the data is one minute. You can query the data that is collected over the last seven days.
DescribeDcdnDomainRealTimeHttpCodeData	Queries the total number of HTTP status codes and the proportion of each HTTP status code for one or more accelerated domain names.
DescribeDcdnDomainRealTimeByteHitRateData	Queries byte hit ratios for one or more accelerated domain names. The resolution of the data is one minute.
DescribeDcdnDomainRealTimeBpsData	Queries bandwidth data for one or more accelerated domain names. The resolution of the data is one minute.

Operation	Description
DescribeDcdnDomainRealTimeReqHitRateData	Queries request hit ratios for one or more accelerated domain names. The resolution of the data is one minute.
DescribeDcdnDomainRealTimeSrcHttpCodeData	Queries the proportions of HTTP status codes based on back-to-origin statistics. The resolution of the data is one minute.
DescribeDcdnDomainRealTimeTrafficData	Queries traffic for one or more domain names. The resolution of the data is one minute.
DescribeDcdnDomainRealTimeDetailData	Queries traffic usage through each ISP and the number of visits in each region. The resolution of the data is one minute.

Traffic or bandwidth usage

Operation	Description
DescribeDcdnUserBillHistory	Queries the billing records of an Alibaba Cloud account. The maximum time range that you can specify is one month.
DescribeDcdnUserResourcePackage	Queries the information about the resource plans in your Alibaba Cloud account.
DescribeDcdnDomainUsageData	Queries resource usage in a specified billable region for an accelerated domain name.
DescribeDcdnBgpBpsData	Queries bandwidth for one or more Border Gateway Protocol (BGP) accelerated domain names. The resolution of the data is five minutes.
DescribeDcdnBgpTrafficData	Queries traffic for one or more BGP accelerated domain names. The resolution of the data is five minutes.

Log management

Operation	Description
DescribeDcdnDomainLog	Queries the address from which you can download the raw access logs of a domain name.
DescribeUserLogserviceStatus	Queries whether Log Service is activated and whether you have overdue payments for your Log Service.
CheckDcdnProjectExist	Checks whether a real-time log delivery project exists.
CreateDcdnSLSRealTimeLogDelivery	Creates a real-time log delivery project.
CreateSlrAndSlsProject	Creates a service-linked role (SLR) and a Log Service project.
DeleteDcdnRealTimeLogProject	Deletes real-time logs of a project.
DescribeDcdnRealTimeDeliveryField	Queries the fields in real-time log entries.
DescribeDcdnSLSRealtimeLogDelivery	Queries a real-time log delivery project.
DescribeDcdnUserRealTimeDeliveryField	Queries the fields that you have selected.
ListDcdnRealTimeDeliveryProject	Queries information about a real-time log delivery project.
UpdateDcdnSLSRealtimeLogDelivery	Updates a real-time log delivery project.
UpdateDcdnUserRealTimeDeliveryField	Updates the fields in real-time log entries.

Operations reports

Operation	Description
CreateDcdnSubTask	Creates a custom operations report.
CreateDcdnDeliverTask	Creates a tracking task. After you create a tracking task, the system periodically sends operations reports to you by email.
DescribeDcdnSubList	Queries a tracking task.
DescribeDcdnReport	Queries the content of an operations report.
DescribeDcdnReportList	Queries custom operations reports.
DescribeDcdnDeliverList	Queries all tracking tasks of operations reports.
UpdateDcdnSubTask	Updates one or more operations reports.
UpdateDcdnDeliverTask	Updates a tracking task by task ID.
DeleteDcdnSubTask	Deletes all custom operations reports.
DeleteDcdnDeliverTask	Deletes tracking tasks by task ID.

EdgeRoutine

Operation	Description
CreateRoutine	Creates a routine.
DeleteRoutine	Deletes a routine.
DeleteRoutineCodeRevision	Deletes a specified code version from a routine.
DeleteRoutineConfEnvs	Deletes canary release environments from a routine.
DescribeRoutine	Queries the metadata of a specified routine. The metadata includes the routine configuration, configuration version, and code version.
DescribeRoutineCanaryEnvs	Queries the canary release environments that are supported by a routine.
DescribeRoutineCodeRevision	Queries the JavaScript code of a specified version that belongs to a specified routine.
DescribeRoutineSpec	Queries the supported specifications for routines. The private preview supports the following CPU time slice specifications: 5 ms, 50 ms, and 100 ms.
DescribeRoutineUserInfo	Queries the subdomains and routines that belong to your Alibaba Cloud account.
DescribeUserErStatus	Queries whether EdgeRoutine is enabled or whether you have overdue payments for your EdgeRoutine.
EditRoutineConf	Modifies the configurations of a routine.
SetRoutineSubdomain	Configures a subdomain.
UploadRoutineCode	Uploads code to EdgeRoutine.
UploadStagingRoutineCode	Uploads code to a routine for testing.
PublishRoutineCodeRevision	Publishes a specified version of routine code to a specified environment.
CommitStagingRoutineCode	Generates an official code version from unstable JavaScript code that is in the staging environment. The version can be used in the canary release or production environment.

IP Application Accelerator

Operation	Description
DescribeDcdnIpaDomainConfigs	Queries configurations of accelerated domain names.
StopDcdnIpaDomain	Disables a specified accelerated domain. After the accelerated domain is disabled, the value of the DomainStatus parameter changes to Offline.
DescribeUserDcdnIpaStatus	Queries whether IP Application Accelerator (IPA) is activated and whether you have overdue payments for your IPA.
DescribeDcdnIpaService	Queries the status of IPA.
UpdateDcdnIpaDomain	Modifies an accelerated domain name.
DeleteDcdnIpaDomain	Deletes a specified accelerated domain from IPA.
StartDcdnIpaDomain	Enables an accelerated domain name. After an accelerated domain name is enabled, the value of the DomainStatus parameter changes to Online.
AddDcdnIpaDomain	Adds a domain name to IPA. You can specify only one domain name in each request.
BatchSetDcdnIpaDomainConfigs	Configures multiple domain names to be accelerated by IPA.
DescribeDcdnIpaUserDomains	Queries information about all domain names that are accelerated by IPA in your Alibaba Cloud account.
DescribeDcdnIpaDomainDetail	Queries the basic information about a domain name that is accelerated by IPA.
DeleteDcdnIpaSpecificConfig	Deletes specific configurations of an accelerated domain name from IPA.
DescribeDcdnDomainProperty	Queries the protocol type of IPA.
DescribeDcdnDomainIpaBpsData	Queries bandwidth of one or more accelerated domain names for which Layer 4 acceleration is enabled. You can query the data that is collected over the last 90 days.
DescribeDcdnDomainIpaTrafficData	Queries traffic of one or more accelerated domain names for which Layer 4 acceleration is enabled. You can query the data that is collected over the last 90 days.

EdgeScript

Operation	Description
SetDcdnDomainStagingConfig	Specifies or modifies the domain name configuration in the canary release environment.
DescribeDcdnDomainStagingConfig	Queries the configurations of the canary release environment.
DeleteDcdnSpecificStagingConfig	Deletes the configurations of an accelerated domain name from the canary release environment.
PublishDcdnStagingConfigToProduction	Deploys the configurations of an accelerated domain name from the staging environment to the production environment.
RollbackDcdnStagingConfig	Rolls back the configurations of an accelerated domain name from the staging environment to the production environment.
DescribeDcdnStagingIp	Queries valid virtual IP addresses (VIPs) in the staging environment.
DescribeDcdnEsExceptionData	Queries the execution errors of scripts in EdgeScript (ES).
DescribeDcdnEsExecuteData	Queries the execution status of scripts in ES.

Edge security

Operation	Description
DescribeDcdnUserSecDrop	Queries the number of packets blocked by a specified security feature.
DescribeDcdnWafDomain	Queries information about accelerated domain names for which Web Application Firewall (WAF) is enabled.
DescribeDcdnSecFuncInfo	Creates an edge security drop-down list in the DCDN console.
DescribeDcdnUserSecDropByMinute	Queries the number of packets that are blocked by security features at the application layer in a specific time range.
DescribeDcdnBlockedRegions	Queries the countries and regions that can be added to the blacklist.
DescribeDcdnUserConfigs	Queries the configurations of security features.

WAF protection (new edition)

Operation	Description
DescribeDcdnWafSpecInfo	Queries the version of Web Application Firewall (WAF) used in Dynamic Route for CDN.
DescribeDcdnWafScenes	Queries the information about the type of the protection policy that you use.
DescribeDcdnWafDomains	Queries the accelerated domain names that are protected by Web Application Firewall (WAF). Fuzzy search is supported.
DescribeDcdnWafPolicyDomains	Queries the accelerated domain names that are protected by a specified Web Application Firewall (WAF) protection policy.
CreateDcdnWafPolicy	Creates a Web Application Firewall (WAF) protection policy.
DescribeDcdnWafPolicies	Queries the details of the Web Application Firewall (WAF) protection policies that you configured.
DescribeDcdnWafPolicy	Queries the details of a protection policy.
ModifyDcdnWafPolicy	Changes the name or the status of a protection policy.
DeleteDcdnWafPolicy	Deletes a protection policy.
DescribeDcdnWafDomainDetail	Queries the information about the protection policy of a domain name.
DescribeDcdnWafRules	Queries the details of the protection rules that you configured.
BatchDeleteDcdnWafRules	Deletes multiple Web Application Firewall (WAF) protection rules at a time.
ModifyDcdnWafPolicyDomains	Changes the accelerated domain names that are bound to a protection policy.
ModifyDcdnWafRule	Changes the name, status, or configurations of a protection rule.
DescribeDcdnWafRule	Queries the details of a specified protection rule.
DescribeDcdnWafPolicyValidDomains	Queries the domain names that can be bound to a custom protection policy.
BatchSetDcdnWafDomainConfigs	Sets the protection status of multiple domain names at a time.
DescribeDcdnWafFilterInfo	Queries the information about match conditions in a custom protection rule, such as the match fields, logical characters, and match content.
BatchCreateDcdnWafRules	Creates Web Application Firewall (WAF) protection rules.
DescribeDcdnWafService	Queries the information about Dynamic Route for CDN (DCDN) Web Application Firewall (WAF), including the time when WAF is enabled, edition of WAF, current status of WAF, billing method for requests, and billing method for rules.

Tag management

Operation	Description
TagDcdnResources	Adds tags to a resource.
DescribeDcdnTagResources	Queries the tags that are added to specified resources.
DescribeDcdnUserTags	Queries user tags.
UntagDcdnResources	Removes tags from a resource.

Tool management

Operation	Description
DescribeDcdnIpInfo	Queries whether an IP address belongs to a DCDN node.

2.Make API requests

To send an Alibaba Cloud Dynamic Route for CDN (DCDN) API request, you must send an HTTP GET request to the Alibaba Cloud DCDN endpoint. You must add the request parameters that correspond to the API operation being called. After you call the API, the system returns a response. The request and response are encoded in UTF-8.

Request syntax

DCDN API operations use the RPC protocol. You can call DCDN API operations by sending HTTP GET requests. DCDN supports both HTTP and HTTPS requests. For data security, we recommend that you send HTTPS requests. All requests and responses are UTF-8 encoded. The request syntax is as follows:

```
https://Endpoint/?Action=xx&Version=xx&Parameters
```

- Endpoint: the endpoint of the DCDN API is dcdn.aliyuncs.com.
- Action: the name of the operation being performed. For example, to add an accelerated domain, you must set the Action parameter to AddDcdnDomain.
- Version: the version of the DCDN API. Set the value to 2018-01-15.
- Parameters: the request parameters for the operation. Separate multiple parameters with ampersands (`&`). Request parameters include both common parameters and operation-specific parameters. Common parameters are used for all DCDN API calls regardless of the operation. For more information, see Common parameters.

The following example demonstrates how to call the AddDcdnDomain operation in DCDN.

> **Note** The following code has been edited to improve the readability.

```
http://dcdn.aliyuncs.com?Action=AddDcdnDomain &DomainName=example.com
&Format=XML
&Sources=[{"content":"1.1.1.1","type":"ipaddr","priority":"20","port":80}]
&AccessKeyId=xxx
&SignatureMethod=HMAC-SHA1
&SignatureNonce=3ee8c1b8-83d3-44af-a94f-4e0ad82fd6cf
&Version=2018-01-15
&SignatureVersion=1.0
...
```

3.Common parameters

Common parameters include common request parameters and common response parameters. You can call a Dynamic Route for CDN (DCDN) API operation by sending an HTTP GET request to the endpoint of the DCDN API. When you call an operation, you must specify the request parameters as required by the operation. After the request is processed, the system returns a result.

Note

Parameter	Type	Required	Description
Format	String	No	The format in which to return the response. Valid values: JSON and XML. Default value: XML.
Version	String	Yes	The version number of the API. The date format is YYYY-MM-DD. The current version is 2018-01-15.
AccessKeyId	String	Yes	The AccessKey ID provided to you by Alibaba Cloud.
Signature	String	Yes	The signature string of the current request. For more information about how signatures are calculated, see Signature method.
SignatureMethod	String	Yes	The encryption method of the signature string. Set the value to HMAC-SHA1.
Timestamp	String	Yes	The timestamp of the request. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. For example, you can set this parameter to 2018-05-10T12:00:00Z. This value represents 20:00:00 on Thursday, May 10, 2018 in UTC+08:00.
SignatureVersion	String	Yes	The version of the signature algorithm. Set the value to 1.0.
SignatureNonce	String	Yes	A unique, random number used to prevent replay attacks. You must use different numbers for different requests.

```
https://dcdn.aliyuncs.com/?Format=xml
&Version=2018-01-15
&Signature=Pc5WB8gokV23uiWeu%2FZV%2BiNM1dgI%3D
&SignatureMethod=HMAC-SHA1
&SignatureNonce=15215528852396&SignatureVersion=1.0
&AccessKeyId=key-test
&Timestamp=2018-05-10T12:00:00Z
```

Common response parameters

You can troubleshoot the error based on the error code. For more information, see Error codes. If the error persists, you can submit a ticket and provide the host ID and request ID to get technical support from Alibaba Cloud.

```
<? xml version="1.0" encoding="UTF-8"? >
<Error><RequestId>8906582E-6722-409A-A6C4-0E7863B733A5</RequestId>
<HostId>dcdn.aliyuncs.com</HostId>
<Code>OperationDenied</Code>
<Message>The specified action is not supported. </Message></Error>
```

```
{
"RequestId": "8906582E-6722-409A-A6C4-0E7863B733A5",
"HostId": "dcdn.aliyuncs.com",
"Code": "OperationDenied",
"Message": "The specified action is not supported."
}
```

4.Obtain an AccessKey pair

This topic describes how to create an AccessKey pair for an Alibaba Cloud account or Resource Access Management (RAM) user. When you call the Dynamic Route for CDN (DCDN) API, you must use the AccessKey pair to complete identity verification.

5.Activate services

5.1. OpenDcdnService

Activates Dynamic Route for CDN (DCDN).

> **Note**
> - DCDN can be activated only one time under each Alibaba Cloud account. The Alibaba Cloud account must pass real-name verification.
> - The maximum number of times that each user can call this operation per second is 5.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different software development kits (SDKs).

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	OpenDcdnService	The operation that you want to perform. Set the value to **OpenDcdnService**.
BillType	String	Yes	PayByTraffic	The metering method of DCDN. A value of **PayByTraffic** indicates that the metering method is pay-by-data-transfer.
WebsocketBillType	String	Yes	websockettraffic	The metering method of WebSocket. A value of **websockettraffic** indicates that the metering method of WebSocket is pay-by-data-transfer.

Response parameters

Parameter	Type	Example	Description
RequestId	String	97C68796-EB7F-4D41-9D5B-12B909D76503	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/? Action=OpenDcdnService
&BillType=PayByTraffic
&WebsocketBillType=websockettraffic
&<common request parameters>
```

Sample responses

`XML` format

```
<OpenDcdnServiceResponse>
  <RequestId>97C68796-EB7F-4D41-9D5B-12B909D76503</RequestId>
</OpenDcdnServiceResponse>
```

`JSON` format

```
{
"RequestId":"97C68796-EB7F-4D41-9D5B-12B909D76503"
}
```

Error codes

For a list of error codes, visit the API Error Center.

5.2. DescribeUserDcdnStatus

Checks whether the Dynamic Route for CDN (DCDN) service is activated and whether your DCDN service has overdue payments.

> **Note** The maximum number of times that each user can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeUserDcdnStatus	The operation that you want to perform. Set the value to **DescribeUserDcdnStatus**.

Response parameters

Parameter	Type	Example	Description
Enabled	Boolean	true	Indicates whether the DCDN service is activated.
InDebt	Boolean	false	Indicates whether the DCDN service has overdue payments.
InDebtOverdue	Boolean	false	Indicates whether an overdue bill has been paid within the specified period.
OnService	Boolean	true	Indicates whether the service is available.
RequestId	String	4F51E9C3-728F-4E35-952D-0ED87A06A8A1	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com?Action=DescribeUserDcdnStatus
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeUserDcdnStatusResponse>
      <Enabled>true</Enabled>
      <InDebtOverdue>false</InDebtOverdue>
      <InDebt>false</InDebt>
      <OnService>true</OnService>
      <RequestId>4F51E9C3-728F-4E35-952D-0ED87A06A8A1</RequestId>
</DescribeUserDcdnStatusResponse>
```

`JSON` format

```
{
    "Enabled": true,
    "InDebtOverdue": false,
    "InDebt": false,
    "OnService": true,
    "RequestId": "4F51E9C3-728F-4E35-952D-0ED87A06A8A1"
}
```

Error codes

For a list of error codes, visit the API Error Center.

5.3. DescribeDcdnService

Queries the status information about the Dynamic Route for CDN (DCDN) service. The status information includes the current billing method, the activation time of the service, the next effective billing method, and the current service state.

> **Note** The maximum number of times that each user can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnService	The operation that you want to perform. Set the value to **DescribeDcdnService**.

Response parameters

Parameter	Type	Example	Description
ChangingAffectTime	String	2018-03-31T16:00:00Z	The start time when the next billing method takes effect. The time is displayed in UTC.

Parameter	Type	Example	Description
ChangingChargeType	String	PayByBandwidth	The next billing method that takes effect. Valid values: • **PayByTraffic**: traffic • **PayByBandwidth**: bandwidth • **PayByBandwidth95**: 95th percentile bandwidth • **PayByBandwidth_monthavg**: monthly average bandwidth • **PayByBandwidth_month4th**: the fourth peak bandwidth in each month • **PayByBandwidth_monthday95avg**: monthly average 95th percentile bandwidth • **PayByBandwidth_nighthalf95**: 95th percentile bandwidth of half idle bandwidth in the nighttime
InstanceId	String	FP-mkqgwxxxx	The ID of the instance.
InternetChargeType	String	PayByTraffic	The current billing method. Valid values: • **PayByTraffic**: traffic • **PayByBandwidth**: bandwidth • **PayByBandwidth95**: 95th percentile bandwidth • **PayByBandwidth_monthavg**: monthly average bandwidth • **PayByBandwidth_month4th**: the fourth peak bandwidth in each month • **PayByBandwidth_monthday95avg**: monthly average 95th percentile bandwidth • **PayByBandwidth_nighthalf95**: 95th percentile bandwidth of half idle bandwidth in the nighttime
OpeningTime	String	2018-03-19T11:16:11Z	The time when the DCDN service was activated. The time follows the ISO 8601 standard.
OperationLocks	Array		The lock status of the DCDN service.
LockReason			
LockReason	String	financial	The reason why the service was locked. For example, a value of financial indicates that an overdue payment exists.
RequestId	String	EF2AEBC2-EDBD-41CF-BF64-7E095D42D6EF	The ID of the request.
WebsocketChangingTime	String	2018-03-19T11:16:11Z	The time when the changes of the WebSocket configuration take effect. The value is the same as that of the ChangingAffectTime parameter. This parameter can be displayed in the console only if the specified time is later than the current time.

Parameter	Type	Example	Description
WebsocketChangingType	String	websocketbps	The next effective billing method of WebSocket. Valid values: **websockettraffic** and **websocketbps**. A value of websockettraffic indicates that you are billed based on the traffic volume. A value of websocketbps indicates that you are billed based on the bandwidth.
WebsocketType	String	websocketbps	The current billing method of WebSocket. Valid values: **websockettraffic** and **websocketbps**. A value of websockettraffic indicates that you are billed based on the traffic volume. A value of websocketbps indicates that you are billed based on the bandwidth.

Examples

Sample requests

```
http://dcdn.aliyuncs.com?Action=DescribeDcdnService
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnServiceResponse>
      <ChangingChargeType>PayByBandwidth</ChangingChargeType>
      <OpeningTime>2018-03-19T11:16:11Z</OpeningTime>
      <InstanceId>FP-mkqgwxxxx</InstanceId>
      <RequestId>EF2AEBC2-EDBD-41CF-BF64-7E095D42D6EF</RequestId>
      <ChangingAffectTime>2018-03-31T16:00:00Z</ChangingAffectTime>
      <OperationLocks>
            <LockReason>
                  <LockReason>financial</LockReason>
            </LockReason>
      </OperationLocks>
      <InternetChargeType>PayByTraffic</InternetChargeType>
</DescribeDcdnServiceResponse>
```

`JSON` format

```
{
    "ChangingChargeType": "PayByBandwidth",
    "OpeningTime": "2018-03-19T11:16:11Z",
    "InstanceId": "FP-mkqgwxxxx",
    "RequestId": "EF2AEBC2-EDBD-41CF-BF64-7E095D42D6EF",
    "ChangingAffectTime": "2018-03-31T16:00:00Z",
    "OperationLocks": {
        "LockReason": [
            {
                "LockReason": "financial"
            }
        ]
    },
    "InternetChargeType": "PayByTraffic"
}
```

Error codes

For a list of error codes, visit the API Error Center.

6.Domain name management

6.1. AddDcdnDomain

Adds an accelerated domain name. You can specify only one domain name in each request.

> **Note**
> - The Dynamic Route for CDN (DCDN) service is activated.
> - Internet content provider (ICP) filing is complete for the accelerated domain name.
> - If the content of the origin server is not stored on Alibaba Cloud, the content must be reviewed. After you submit the request, the review is complete by the end of the following business day.
> - The maximum number of times that each user can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	AddDcdnDomain	The operation that you want to perform. Set the value to **AddDcdnDomain**.
DomainName	String	Yes	example.com	The domain name that you want to add. You can specify only one domain name in each request. Wildcard domain names are supported. Wildcard domain names must start with a period (.). Example: .example.com.
Sources	String	Yes	[{"content":"10.10.10.10","type":"ipaddr","priority":"20","port":80}]	The information about the addresses of origin servers.
ResourceGroupId	String	No	rg-acfmyuji4b6r4**	The ID of the resource group. If you do not specify a value for this parameter, the system automatically assigns the ID of the default resource group.
CheckUrl	String	No	example.com	The URL that is used to check the accessibility of the origin server.
Scope	String	No	domestic	The accelerated region. Valid values: • **domestic**: mainland China • **overseas**: global (excluding mainland China) • **global**: global Default value: **domestic**.
TopLevelDomain	String	No	yourTopLevelDomain	The top-level domain name.

The following table describes the fields in the Sources parameter.

Field	Type	Required	Description
type	String	Yes	The type of the origin server. A value of ipaddr specifies the IP address of the origin server. A value of domain specifies the domain name of the origin server. A value of oss specifies the endpoint of an Object Storage Service (OSS) bucket.
content	String	Yes	The address of the origin server. You can specify an IP address or a domain name.
port	Integer	No	The port number. You can set the port parameter to 443, 80, or a custom port. Default value: 80. If you specify port 443, DCDN communicates with the origin server over HTTPS.
priority	String	No	The priority of the origin server if multiple origin servers are specified. Valid values: 20 and 30. Default value: 20. A value of 20 specifies that the origin is a primary origin. A value of 30 specifies that the origin is a secondary origin.
weight	String	No	The weight of the origin server if multiple origin servers are specified. You must specify a value that is less than 100. Default value: 10.

Response parameters

Parameter	Type	Example	Description
RequestId	String	15C66C7B-671A-4297-9187-2C4477247A74	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=AddDcdnDomain
&DomainName=example.com
&Sources=[{"content":"10.10.10.10","type":"ipaddr","priority":"20","port":80}]
&<Common request parameters>
```

Sample success responses

`XML` format

```
<AddDcdnDomainResponse>
      <RequestId>15C66C7B-671A-4297-9187-2C4477247A74</RequestId>
</AddDcdnDomainResponse>
```

`JSON` format

```
{
  "RequestId": "15C66C7B-671A-4297-9187-2C4477247A74"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	InvalidDomainName.Malformed	The specified DomainName is invalid.	The error message returned because the format of the domain name is invalid.
400	InvalidSource.Content.Malformed	The specified Source Content is invalid.	The error message returned because the value specified for the Sources parameter is invalid. Specify a valid value and try again.
400	MissingSource.Content	The Source Content must be specified.	The error message returned because no value is specified for the content field in the Sources parameter. Specify a value for the field and try again.
400	MissingSource.Type	The Source Type must be specified.	The error message returned because no value is specified for the type field in the Sources parameter. Specify a value for the field and try again.
400	InvalidSource.Type.Malformed	The specified Source Type is invalid.	The error message returned because the value specified for the type field in the Sources parameter is invalid. Specify a value in the correct format.
400	InvalidSource.Priority.Malformed	The specified Source Priority is invalid.	The error message returned because the value specified for the priority field in the Sources parameter is invalid. Specify a value in the correct format.
400	InvalidScope.Malformed	The specified Scope is invalid.	The error message returned because the value specified for the Scope parameter is invalid. Specify a valid value and try again.
400	SourceIp.Exceed	The maximum number of back-to-origin IP addresses is exceeded.	The error message returned because the maximum number of origin IP addresses has been reached.
400	InvalidCertificate	The specified certificate format is invalid.	The error message returned because the format of the specified certificate is invalid. Specify a valid certificate and try again.
400	InvalidCertificate.TooLong	The maximum length of the certificate is exceeded.	The error message returned because the maximum length of the specified certificate content has been reached.
400	CheckSourceHealthFailed	Error checking the security. Provide the valid origin site information.	The error message returned because security check failed due to invalid origin information. Specify valid origin information and try again.

HttpCode	Error code	Error message	Description
400	ExtensiveAndAllBothExist	A wildcard domain name and a domain name with an all. prefix cannot be both specified.	The error message returned because wildcard domain names and domain names that start with the string all. cannot exist at the same time.
400	CdnTypeNotSupportExtensiveDomain	Wildcard domain names are not supported.	The error message returned because wildcard domain names are not supported.
400	ExtensiveAndSpecificDomainConflict	The wildcard domain name overlaps a domain name at the same level.	The error message returned because the specified domain name is an exact match of an existing wildcard domain name at the same level. Specify another domain name.
400	InvalidResourceGroupId.Malformed	The specified ResourceGroupId is invalid.	The error message returned because the value specified for the ResourceGroupId parameter is invalid. Specify a valid value and try again.
400	DomainReserved	The root domain of your domain is reserved by another account. Submit a ticket to contact customer support.	The error message returned because the root domain of the specified domain name is used by another Alibaba Cloud account. If you want to add the domain name, submit a ticket.
400	InvalidDomainNameLevel	The alicdn.com domain supports a maximum of three levels of domain.	The error message returned because the specified domain name is not supported. DCDN supports only top-level, second-level, and third-level domain names.
400	EntityNotExists.ResourceGroup	The resource group does not exist.	The error message returned because the specified resource group does not exist.
400	InvalidStatus.ResourceGroup	The current status of the resource group does not support this operation.	The error message returned because the operation is not allowed when the resource group is in the current state.
400	NotInternationalIdentity	Real-name registration is required for services offered in Mainland China.	The error message returned because real-name verification that is required to purchase or use Internet content services in mainland China is not complete.
400	TopLevelDomain.NotFound	The specified TopLevelDomain does not exist.	The error message returned because the specified top-level domain name does not exist.
400	RecordCheckNotAvailable	The ICP filing interface is unavailable. Please try again later.	The error message returned because the operation for ICP filing is unavailable. Try again later.
400	IcpBlack	The domain is on the ICP blacklist.	The error message returned because the domain name is included in the ICP filing blacklist of the Ministry of Industry and Information Technology (MIIT).
400	IspBlack	The domain is on the ISP blacklist.	The error message returned because the domain name is included in the blacklist of Alibaba Cloud.
400	InvalidCheckUrl.Malformed	The specified CheckUrl is invalid.	The error message returned because the value specified for the CheckUrl parameter is invalid.

HttpCode	Error code	Error message	Description
400	DomainOwnerVerifyFail	Owner verification of the root domain failed.	The error message returned because the ownership of the domain name is not verified. The first time you add a domain name to DCDN, you must add a DNS record or upload a verification file to verify the ownership of the domain name.
400	TopLevelDomain.Mismatch	The specified TopLevelDomain does not match webSiteType.	The error message returned because the specified top-level domain name does not match the type of the domain name.

For a list of error codes, visit the API Error Center.

6.2. BatchAddDcdnDomain

Adds multiple domain names to Dynamic Route for CDN (DCDN).

Prerequisites:

- The DCDN service is activated.
- Internet content provider (ICP) filing is complete for the accelerated domain names.

> **Note**
> - If the content of the origin server is not stored on Alibaba Cloud, the content must be reviewed. After you submit the request, the review is complete by the end of the following business day.
> - The maximum number of times that each user can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	BatchAddDcdnDomain	The operation that you want to perform. Set the value to **BatchAddDcdnDomain**.
DomainName	String	Yes	example.com	You can add up to 20 domain names to DCDN for each of your Alibaba Cloud account. Separate multiple domain names with commas (,).
Sources	String	Yes	[{"content":"10.10.10.10","type":"ipaddr","priority":"20","port":80,"weight":"15"}]	The information about the addresses of origin servers.
ResourceGroupId	String	No	testID	The ID of the resource group. If you do not specify a value for this parameter, the system automatically assigns the ID of the default resource group.
CheckUrl	String	No	www.example.com/test.html	The URL that is used to check the accessibility of the origin server.

Parameter	Type	Required	Example	Description
Scope	String	No	domestic	The accelerated region. Default value: domestic. Valid values: • domestic: mainland China • overseas: global (excluding mainland China) • global: global
TopLevelDomain	String	No	example.com	The top-level domain name.

The following table describes the fields in the Sources parameter.

Field	Type	Required	Description
type	String	Yes	The type of the origin server. Valid values: **ipaddr**: the IP address **domain**: the domain name **oss**: the endpoint of an Object Storage Service (OSS) bucket **fc_domain**: the domain name of Function Compute
content	String	Yes	The address of the origin server. You can specify an IP address or a domain name.
port	Integer	No	The port. Valid values: **80**: the default port **443**: the HTTPS port A custom port
priority	String	No	The priority of the origin server if multiple origin servers are specified. Default value: 20. Valid values: **20**: the primary origin server **30**: the secondary origin server
weight	String	No	The weight of the origin server if multiple origin servers are specified. You must specify a value that is less than 100. Default value: 10.

Response parameters

Parameter	Type	Example	Description

Parameter	Type	Example	Description
RequestId	String	15C66C7B-671A-4297-9187-2C4477247A74	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=BatchAddDcdnDomain
&DomainName=example.com,example.org
&Sources=[{"content":"10.10.10.10","type":"ipaddr","priority":"20","port":80}]
&<Common request parameters>
```

Sample success responses

`XML` format

```
<BatchAddDcdnDomainResponse>
  <RequestId>15C66C7B-671A-4297-9187-2C4477247A74</RequestId>
</BatchAddDcdnDomainResponse>
```

`JSON` format

```
{
  "RequestId": "15C66C7B-671A-4297-9187-2C4477247A74"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	InvalidDomainName.Malformed	The specified DomainName is invalid.	The error message returned because the format of the domain name is invalid.
400	InvalidSources.Malformed	The specified Sources is invalid.	The error message returned because the format of the value specified for the Sources parameter is invalid. You can set Sources to up to 20 IP addresses or one domain name. Separate multiple IP addresses with commas (,). You cannot specify both IP addresses and domain names in the same request.
400	InvalidScope.Malformed	The specified Scope is invalid.	The error message returned because the value specified for the Scope parameter is invalid. Specify a valid value and try again.
400	InvalidSource.Priority.Malformed	The specified Source Priority is invalid.	The error message returned because the value specified for the priority field in the Sources parameter is invalid. Specify a value in the correct format.
400	SourceIp.Exceed	The maximum number of back-to-origin IP addresses is exceeded.	The error message returned because the maximum number of origin IP addresses has been reached.
400	InvalidCertificate	The specified certificate format is invalid.	The error message returned because the format of the specified certificate is invalid. Specify a valid certificate and try again.

HttpCode	Error code	Error message	Description
400	InvalidCertificate.TooLong	The maximum length of the certificate is exceeded.	The error message returned because the maximum length of the specified certificate content has been reached.
400	CheckSourceHealthFailed	Error checking the security. Provide the valid origin site information.	The error message returned because security check failed due to invalid origin information. Specify valid origin information and try again.
400	ExtensiveAndAllBothExist	A wildcard domain name and a domain name with an all. prefix cannot be both specified.	The error message returned because wildcard domain names and domain names that start with the string all. cannot exist at the same time.
400	CdnTypeNotSupportExtensiveDomain	Wildcard domain names are not supported.	The error message returned because wildcard domain names are not supported.
400	ExtensiveAndSpecificDomainConflict	The wildcard domain name overlaps a domain name at the same level.	The error message returned because the specified domain name is an exact match of an existing wildcard domain name at the same level. Specify another domain name.
400	InvalidResourceGroupId.Malformed	The specified ResourceGroupId is invalid.	The error message returned because the value specified for the ResourceGroupId parameter is invalid. Specify a valid value and try again.
400	DomainReserved	The root domain of your domain is reserved by another account. Submit a ticket to contact customer support.	The error message returned because the root domain of the specified domain name is used by another Alibaba Cloud account. If you want to add the domain name, submit a ticket.
400	InvalidDomainNameLevel	The alicdn.com domain supports a maximum of three levels of domain.	The error message returned because the specified domain name is not supported. DCDN supports only top-level, second-level, and third-level domain names.
400	TopLevelDomain.NotFound	The specified TopLevelDomain does not exist.	The error message returned because the specified top-level domain name does not exist.
400	EntityNotExists.ResourceGroup	The resource group does not exist.	The error message returned because the specified resource group does not exist.
400	EntityNotExist.ResourceGroup	The resource group does not exist.	The error message returned because the specified resource group does not exist.
400	InvalidStatus.ResourceGroup	The current status of the resource group does not support this operation.	The error message returned because the operation is not allowed when the resource group is in the current state.
400	NotInternationRealIdentity	Real-name registration is required for services offered in Mainland China.	The error message returned because real-name verification that is required to purchase or use Internet content services in mainland China is not complete.
400	RecordCheckNotAvailable	The ICP filing interface is unavailable. Please try again later.	The error message returned because the operation for ICP filing is unavailable. Try again later.

HttpCode	Error code	Error message	Description
400	IcpBlack	The domain is on the ICP blacklist.	The error message returned because the domain name is included in the ICP filing blacklist of the Ministry of Industry and Information Technology (MIIT).
400	IspBlack	The domain is on the ISP blacklist.	The error message returned because the domain name is included in the blacklist of Alibaba Cloud.
400	DomainOwnerVerifyFail	Owner verification of the root domain failed.	The error message returned because the ownership of the domain name is not verified. The first time you add a domain name to DCDN, you must add a DNS record or upload a verification file to verify the ownership of the domain name.
400	TopLevelDomain.Mismatch	The specified TopLevelDomain does not match webSiteType.	The error message returned because the specified top-level domain name does not match the type of the domain name.

For a list of error codes, visit the API Error Center.

6.3. UpdateDcdnDomain

Modifies a specified accelerated domain name.

> **Note** The maximum number of times that each user can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	No	UpdateDcdnDomain	The operation that you want to perform. Set the value to **UpdateDcdnDomain**.
DomainName	String	Yes	example.com	The accelerated domain name to be modified. You can specify only one domain name in each call.
Sources	String	No	[{"content":"10.10.10.10","type":"ipaddr","priority":"20","port":80}]	The information about the origin address.
ResourceGroupId	String	No	rg-xxxxx	The ID of the resource group.
TopLevelDomain	String	No	yourTopLevelDomain	The top-level domain name.

Fields in Sources

Parameter	Type	Required	Description
type	String	Yes	The type of origin server. Valid values: **ipaddr**: the IP address of the origin server. **domain**: the domain name of the origin server. **oss**: the URL of an Object Storage Service (OSS) bucket.
content	String	Yes	The origin address. You can specify an IP address or a domain name.
port	Integer	No	The port number. You can set the port parameter to **443** or **80**. You can also customize the port number. The default value is **80**. **443** is used for HTTPS back-to-origin requests.
priority	String	No	The priority of the origin server. Valid values: **20** and **30**. Default value: **20**. A value of **20** indicates a primary origin server. A value of **30** indicates a secondary origin server.
weight	String	No	The weight of the origin server. You must specify a value that is less than **100**. Default value: **10**.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0AEDAF20-4DDF-4165-8750-47FF9C1929C9	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/? Action=UpdateDcdnDomain
&DomainName=example.com
&Sources=[{"content":"10.10.10.10","type":"ipaddr","priority":"20","port":80}]
&<Common request parameters>
```

Sample success responses

`XML` format

```
<UpdateDcdnDomainResponse>
      <RequestId>0AEDAF20-4DDF-4165-8750-47FF9C1929C9</RequestId>
</UpdateDcdnDomainResponse>
```

`JSON` format

```
{
  "RequestId": "0AEDAF20-4DDF-4165-8750-47FF9C1929C9"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	MissingDomainName	The domainName parameter is required.	The error message returned because the DomainName parameter is not specified.
400	InvalidDomainName.Malformed	The specified DomainName is invalid.	The error message returned because the domain name format is invalid.
400	InvalidSource.Content.Malformed	The specified Source Content is invalid.	The error message returned because the specified value of the Sources parameter is invalid. Specify a valid value.
400	InvalidTypeContent.Mismatch	The specified source type does not match the specified source content.	The error message returned because the specified type and content fields in the Sources parameter do not correspond to each other. Specify the required type and content.
400	MissingSource.Content	The Source Content must be specified.	The error message returned because the content field in the Sources parameter is not specified. Specify the field and try again later.
400	MissingSource.Type	The Source Type must be specified.	The error message returned because the type field in the Sources parameter is not specified. Specify the field and try again later.
400	InvalidSource.Type.Malformed	The specified Source Type is invalid.	The error message returned because the specified value of the type field in the Sources parameter is invalid. Specify a value in the required format.
400	InvalidSource.Priority.Malformed	The specified Source Priority is invalid.	The error message returned because the specified value of the priority field in the Sources parameter is invalid. Specify a value in the required format.
400	InvalidResourceGroupId.Malformed	The specified ResourceGroupId is invalid.	The error message returned because the specified value of the ResourceGroupId parameter is invalid. Specify a valid value.
400	EntityNotExists.ResourceGroup	The resource group does not exist.	The error message returned because the specified resource group does not exist.
400	InvalidStatus.ResourceGroup	The current status of the resource group does not support this operation.	The error message returned because the operation is not supported while the resource group is in the current state.
403	DomainInProtectedMode	The domain is in protection mode. To request permission, contact Customer Service.	The error message returned because the specified domain name is being protected. To call this operation, contact Alibaba Cloud customer services.
400	TopLevelDomain.NotFound	The specified TopLevelDomain does not exist.	The error message returned because the specified top-level domain name does not exist.

For a list of error codes, visit the API Error Center.

6.4. StartDcdnDomain

Enables a specified disabled accelerated domain. After the accelerated domain is enabled, the value of the DomainStatus parameter changes to Online for the domain.

> **Note**
> - If an accelerated domain is in an invalid state or your account has an overdue payment, the accelerated domain cannot be enabled.
> - The maximum number of times that each user can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	StartDcdnDomain	The operation that you want to perform. Set the value to **StartDcdnDomain**.
DomainName	String	Yes	example.com	The name of the accelerated domain to be enabled. You can specify only one domain name.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0AEDAF20-4DDF-4165-8750-47FF9C1929C9	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com?Action=StartDcdnDomain
&DomainName=example.com
&<Common request parameters>
```

Sample success responses

`XML` format

```
<StartDcdnDomainResponse>
      <RequestId>0AEDAF20-4DDF-4165-8750-47FF9C1929C9</RequestId>
</StartDcdnDomainResponse>
```

`JSON` format

```
{
  "RequestId": "0AEDAF20-4DDF-4165-8750-47FF9C1929C9"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	RecordCheckNotAvailable	The ICP filing interface is unavailable. Please try again later.	The error message returned because the interface for Internet content provider (ICP) filing is unavailable. Try again later.
400	IcpBlack	The domain is on the ICP blacklist.	The error message returned because the domain name is included in the ICP filing blacklist that is provided by the Ministry of Industry and Information Technology of the People's Republic of China.
400	IspBlack	The domain is on the ISP blacklist.	The error message returned because the domain name is included in the blacklist that is provided by Alibaba Cloud.

For a list of error codes, visit the API Error Center.

6.5. BatchStartDcdnDomain

Enables one or more accelerated domain names in the disabled state. After the specified accelerated domain names are enabled, the value of the DomainStatus parameter for these domain names changes to Online.

> **Note**
> - If an accelerated domain is in an invalid state or your account has an overdue payment, the accelerated domain cannot be enabled.
> - The maximum number of domain names configured at a time is 50.
> - The maximum number of times that each user can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	BatchStartDcdnDomain	The operation that you want to perform. Set the value to **BatchStartDcdnDomain**.
DomainNames	String	Yes	example.com	The accelerated domain names. If you need to specify multiple accelerated domain names, separate domain names with commas (,).

Response parameters

Parameter	Type	Example	Description
RequestId	String	0AEDAF20-4DDF-4165-8750-47FF9C1929C9	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=BatchStartDcdnDomain
&DomainNames=example.com
&<Common request parameters>
```

Sample success responses

`XML` format

```
<BatchStartDcdnDomainResponse>
      <RequestId>0AEDAF20-4DDF-4165-8750-47FF9C1929C9</RequestId>
</BatchStartDcdnDomainResponse>
```

`JSON` format

```
{
  "RequestId": "0AEDAF20-4DDF-4165-8750-47FF9C1929C9"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	RecordCheckNotAvailable	The ICP filing interface is unavailable. Please try again later.	The error message returned because the operation for Internet Content Provider (ICP) filing is unavailable. Try again.
400	IcpBlack	The domain is on the ICP blacklist.	The error message returned because the domain name is included in the ICP filing blacklist that is provided by the Ministry of Industry and Information Technology (MIIT).
400	IspBlack	The domain is on the ISP blacklist.	The error message returned because the domain name is included in the blacklist that is provided by Alibaba Cloud.

For a list of error codes, visit the API Error Center.

6.6. StopDcdnDomain

Disables a specified accelerated domain. After the accelerated domain is disabled, the value of the DomainStatus parameter changes to Offline for the domain.

> **Note**
> - After the accelerated domain is disabled, Dynamic Route for CDN retains its information and reroutes all the requests that are destined for the accelerated domain to the origin.
> - The maximum number of times that each user can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	StopDcdnDomain	The operation that you want to perform. Set the value to **StopDcdnDomain**.
DomainName	String	Yes	example.com	The name of the accelerated domain to be disabled. You can specify only one domain name.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0AEDAF20-4DDF-4165-8750-47FF9C1929C9	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com?Action=StopDcdnDomain
&DomainName=example.com
&<Common request parameters>
```

Sample success responses

`XML` format

```
<StopDcdnDomainResponse>
      <RequestId>0AEDAF20-4DDF-4165-8750-47FF9C1929C9</RequestId>
</StopDcdnDomainResponse>
```

`JSON` format

```
{
  "RequestId": "0AEDAF20-4DDF-4165-8750-47FF9C1929C9"
}
```

Error codes

For a list of error codes, visit the API Error Center.

6.7. BatchStopDcdnDomain

Disables one or more accelerated domain names in the enabled state. After the specified accelerated domain names are disabled, the value of the DomainStatus parameter for these domain names changes to Offline.

> **Note**
> - After an accelerated domain is disabled, Dynamic Route for CDN (DCDN) retains its information. The system automatically reroutes all the requests that are destined for the accelerated domain to the origin.
> - The maximum number of times that each user can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	BatchStopDcdnDomain	The operation that you want to perform. Set the value to **BatchStopDcdnDomain**.
DomainNames	String	Yes	example.com	The accelerated domain names. If you need to specify multiple accelerated domain names, separate domain names with commas (,).

Response parameters

Parameter	Type	Example	Description
RequestId	String	0AEDAF20-4DDF-4165-8750-47FF9C1929C9	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com?Action=BatchStopDcdnDomain
&DomainNames=example.com
&<Common request parameters>
```

Sample success responses

`XML` format

```
<BatchStopDcdnDomainResponse>
      <RequestId>0AEDAF20-4DDF-4165-8750-47FF9C1929C9</RequestId>
</BatchStopDcdnDomainResponse>
```

`JSON` format

```
{
  "RequestId": "0AEDAF20-4DDF-4165-8750-47FF9C1929C9"
}
```

Error codes

For a list of error codes, visit the API Error Center.

6.8. DeleteDcdnDomain

Deletes a specified accelerated domain name.

Note

- Before you delete your domain name, you must request the Domain Name System (DNS) provider to restore the A record of the domain name. Otherwise, the domain name may become inaccessible after you delete it.
- If you call the **DeleteDcdnDomain** operation, all the information about the accelerated domain name is deleted. If you want to disable an accelerated domain name, call the StopDcdnDomain operation.
- The maximum number of times that each user can call this operation per second is 10.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer automatically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteDcdnDomain	The operation that you want to perform. Set the value to **DeleteDcdnDomain**.
DomainName	String	Yes	example.com	The accelerated domain name to be deleted. You can specify only one domain name.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0AEDAF20-4DDF-4165-8750-47FF9C1929C9	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/? Action=DeleteDcdnDomain
&DomainName=example.com
&<Common request parameters>
```

Sample responses

`XML` format

```
<DeleteDcdnDomainResponse>
      <RequestId>0AEDAF20-4DDF-4165-8750-47FF9C1929C9</RequestId>
</DeleteDcdnDomainResponse>
```

`JSON` format

```
{
  "RequestId": "0AEDAF20-4DDF-4165-8750-47FF9C1929C9"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	InvalidDomainName.Malformed	The specified DomainName is invalid.	The error message returned because the specified value of the DomainName parameter is invalid.

For a list of error codes, visit the API Error Center.

6.9. DescribeDcdnDomainCname

Checks whether canonical name (CNAME) records are configured for one or more accelerated domains.

> **Note** The maximum number of times that each user can call this operation per second is 80.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainCname	The operation that you want to perform. Set the value to **DescribeDcdnDomainCname**.
DomainName	String	Yes	example.com,example.org	The names of the accelerated domains. If you need to specify multiple accelerated domain names, separate them with commas (,).

Response parameters

Parameter	Type	Example	Description
CnameDatas	Array		The CNAME information.
Data			
Cname	String	*.com	The CNAME.
Domain	String	.example.com	The name of the accelerated domain returned.
Status	Integer	0	The configuration status of the CNAME record. If the operations returns 0 for the parameter, the configuration was successful. Otherwise, the configuration failed.
RequestId	String	15C66C7B-671A-4297-9187-2C4477247A74	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com?Action=DescribeDcdnDomainCname
&DomainName=example.com,example.org
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnDomainCnameResponse>
  <RequestId>D27C81EF-90CA-4897-94AC-B73ADBFE4781</RequestId>
  <CnameDatas>
        <Data>
              <Cname>*.com</Cname>
              <Status>0</Status>
              <Domain>.example.com</Domain>
        </Data>
  </CnameDatas>
</DescribeDcdnDomainCnameResponse>
```

`JSON` format

```
{
    "RequestId": "D27C81EF-90CA-4897-94AC-B73ADBFE4781",
    "CnameDatas": {
        "Data": [
            {
                "Cname": "*.com",
                "Status": 0,
                "Domain": ".example.com"
            }
        ]
    }
}
```

Error codes

For a list of error codes, visit the API Error Center.

6.10. DescribeDcdnUserDomains

Queries accelerated domain names that belong to your Alibaba Cloud account. You can query domain names by specifying domain names or status. Fuzzy match is supported.

> **Note** The maximum number of times that each user can call this operation per second is 80.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnUserDomains	The operation that you want to perform. Set the value to **DescribeDcdnUserDomains**.
PageSize	Integer	No	20	The number of entries to return on each page. Default value: **20**. Valid values: **1** to **500**.
PageNumber	Integer	No	1	The number of the page to return. Valid values: **1** to **100000**.
DomainName	String	No	example.com	The accelerated domain names. If you do not set this parameter, configurations of all domain names that match the conditions are returned.
DomainStatus	String	No	online	The status of the domain name. • **online**: The domain name is enabled. • **offline**: The domain name is disabled. • **configuring**: The domain name is being configured. • **configure_failed**: The domain name failed to be configured. • **checking**: The domain name is under review. • **check_failed**: The domain name failed the review.
DomainSearchType	String	No	fuzzy_match	The search mode. Valid values: • **fuzzy_match**: fuzzy match • **pre_match**: prefix match • **suf_match**: suffix match • **full_match** (default): exact match **Note** If you specify the domain names to query but do not set the DomainSearchType parameter, the exact match mode is used.
CheckDomainShow	Boolean	No	false	Specifies whether to display domain names that are under review, failed the review, and failed to be configured. Valid values: true and false.

Parameter	Type	Required	Example	Description
ResourceGroupId	String	No	rg-acfmv6jutt**	The ID of the resource group.
ChangeStartTime	String	No	2018-05-10T12:00:00Z	The start time of the update. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0.
ChangeEndTime	String	No	2018-05-10T14:00:00Z	The end time of the update. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0. **Note** The end time must be later than the start time.
Tag.N.Key	String	No	1	The key of the tag. Valid values of N: **1** to **20**. You can call the TagDcdnResources operation to add tags to domain names.
Tag.N.Value	String	No	1	The value of the tag. Valid values of N: **1** to **20**.
Coverage	String	No	domestic	The accelerated region. • **domestic**: mainland China • **overseas**: global (excluding mainland China) • **global**: global

Response parameters

Parameter	Type	Example	Description
Domains	Array of PageData		The detailed information about each accelerated domain name. The returned information is displayed in the format that is specified by the PageData parameter.
PageData			
Cname	String	test.aliyun.com.w.alikunlun.com	The CNAME of the accelerated domain name.
Description	String	audit failed	The reason why the accelerated domain name failed the review.
DomainName	String	www.example.com	The information about the accelerated domain name.

Parameter	Type	Example	Description
DomainStatus	String	online	The status of the accelerated domain name. • **online**: The domain name is enabled. • **offline**: The domain name is disabled. • **configuring**: The domain name is being configured. • **configure_failed**: The domain name failed to be configured. • **checking**: The domain name is under review. • **check_failed**: The domain name failed the review.
GmtCreated	String	2015-10-28T11:05:50Z	The time when the accelerated domain name was added.
GmtModified	String	2015-10-28T09:31:59Z	The time when the accelerated domain name was modified.
ResourceGroupId	String	rg-acfmv6jutt**	The ID of the resource group.
SSLProtocol	String	on	Indicates whether HTTPS is enabled. • **on**: enabled • **off**: disabled
Sandbox	String	normal	Indicates whether the accelerated domain name was in a sandbox.
Sources	Array of Source		The information about the origin server.
Source			
Content	String	example.com	The address of the origin server.
Port	Integer	80	The port of the origin server.
Priority	String	20	The priority of the origin server.
Type	String	oss	The type of the origin server.
Weight	String	20	The weight of the origin server.
PageNumber	Long	1	The page number of the returned page.
PageSize	Long	12	The number of entries returned per page.
RequestId	String	AA75AADB-5E25-4970-B480-EAA1F5658483	The ID of the request.
TotalCount	Long	12	The total number of entries returned.

Examples

Sample requests

```
https://dcdn.aliyuncs.com/?Action=DescribeDcdnUserDomains
&PageNumber=1
&PageSize=5
&DomainSearchType=fuzzy_match
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnUserDomainsResponse>
  <PageNumber>1</PageNumber>
  <TotalCount>16</TotalCount>
  <PageSize>5</PageSize>
  <RequestId>AA75AADB-5E25-4970-B480-EAA1F5658483</RequestId>
  <Domains>
        <PageData>
              <DomainStatus>configure_failed</DomainStatus>
              <DomainName>www.example.com</DomainName>
              <GmtModified>2015-10-28T11:05:52Z</GmtModified>
              <GmtCreated>2015-10-28T09:32:51Z</GmtCreated>
              <Description>audit failed</Description>
              <ResourceGroupId>rg-acfmv6jutt**</ResourceGroupId>
        </PageData>
        <PageData>
              <DomainStatus>configure_failed</DomainStatus>
              <DomainName>www.example.org</DomainName>
              <GmtModified>2015-10-28T11:05:50Z</GmtModified>
              <GmtCreated>2015-10-28T09:31:59Z</GmtCreated>
              <ResourceGroupId>rg-acfmv6jute**</ResourceGroupId>
        </PageData>
        <PageData>
              <Cname>test.aliyun.com.w.alikunlun.com</Cname>
              <DomainStatus>online</DomainStatus>
              <DomainName>www.example.net</DomainName>
              <GmtModified>2015-10-27T06:26:34Z</GmtModified>
              <GmtCreated>2015-10-23T09:30:00Z</GmtCreated>
              <ResourceGroupId>rg-acfmv6jutr**</ResourceGroupId>
        </PageData>
        <PageData>
              <Cname>test.aliyun.com.w.alikunlun.com</Cname>
              <DomainStatus>online</DomainStatus>
              <DomainName>www.example.edu</DomainName>
              <GmtModified>2015-10-23T09:23:29Z</GmtModified>
              <GmtCreated>2015-10-23T09:23:20Z</GmtCreated>
              <ResourceGroupId>rg-acfmv6jutf**</ResourceGroupId>
        </PageData>
        <PageData>
              <Cname>test.aliyundoc.com.w.alikunlun.com</Cname>
              <DomainStatus>online</DomainStatus>
              <DomainName>www.aliyundoc.com</DomainName>
              <GmtModified>2015-10-23T09:02:11Z</GmtModified>
              <GmtCreated>2015-10-23T09:01:57Z</GmtCreated>
              <ResourceGroupId>rg-acfmv6jutu**</ResourceGroupId>
        </PageData>
  </Domains>
</DescribeDcdnUserDomainsResponse>
```

`JSON` format

```
{
  "PageNumber": 1,
  "TotalCount": 16,
  "PageSize": 5,
  "RequestId": "AA75AADB-5E25-4970-B480-EAA1F5658483",
  "Domains": {
    "PageData": [
      {
        "DomainStatus": "configure_failed",
        "DomainName": "www.example.com",
        "GmtModified": "2015-10-28T11:05:52Z",
        "GmtCreated": "2015-10-28T09:32:51Z",
        "Description": "audit failed",
        "ResourceGroupId":"rg-acfmv6jutt**"
      },
      {
        "DomainStatus": "configure_failed",
        "DomainName": "www.example.org",
        "GmtModified": "2015-10-28T11:05:50Z",
        "GmtCreated": "2015-10-28T09:31:59Z",
        "ResourceGroupId":"rg-acfmv6jute**"
      },
      {
        "Cname": "test.aliyun.com.w.alikunlun.com",
        "DomainStatus": "online",
        "DomainName": "www.example.net",
        "GmtModified": "2015-10-27T06:26:34Z",
        "GmtCreated": "2015-10-23T09:30:00Z",
        "ResourceGroupId":"rg-acfmv6jutr**"
      },
      {
        "Cname": "test.aliyun.com.w.alikunlun.com",
        "DomainStatus": "online",
        "DomainName": "www.example.edu",
        "GmtModified": "2015-10-23T09:23:29Z",
        "GmtCreated": "2015-10-23T09:23:20Z",
        "ResourceGroupId":"rg-acfmv6jutf**"
      },
      {
        "Cname": "test.aliyun.com.w.alikunlun.com",
        "DomainStatus": "online",
        "DomainName": "www.aliyundoc.com",
        "GmtModified": "2015-10-23T09:02:11Z",
        "GmtCreated": "2015-10-23T09:01:57Z",
        "ResourceGroupId":"rg-acfmv6jutu**"
      }
    ]
  }
}
```


Error codes

HttpCode	Error code	Error message	Description
400	InvalidPageNumber.Value NotSupported	The specified value of PageNumber is not supported.	The error message returned because the specified value of the PageNumber parameter is invalid. Specify a valid value.
400	InvalidPageSize.ValueNot Supported	The specified value of PageSize is invalid.	The error message returned because the specified value of the PageSize parameter is invalid. Specify a valid value.

HttpCode	Error code	Error message	Description
400	InvalidDomainStatus.ValueNotSupported	The specified value of DomainStatus is invalid.	The error message returned because the specified value of the DomainStatus parameter is invalid. Specify a valid value.
400	InvalidDomainName.Malformed	The specified DomainName is invalid.	The error message returned because the format of the domain name is invalid.
400	InvalidDomainSearchType.ValueNotSupported	The specified value of DomainSearchType is invalid.	The error message returned because the specified value of the DomainSearchType parameter is invalid. Specify a valid value.
400	InvalidChangeStartTime.Malformed	The specified ChangeStartTime is invalid.	The error message returned because the specified value of the ChangeStartTime parameter is invalid.
400	InvalidChangeEndTime.Malformed	The specified ChangeEndTime is invalid.	The error message returned because the specified value of the ChangeEndTime parameter is invalid.

For a list of error codes, visit the API Error Center.

6.11. DescribeDcdnDomainDetail

Queries the basic information about a specified accelerated domain name.

> **Note** The maximum number of times that each user can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainDetail	The operation that you want to perform. Set the value to **DescribeDcdnDomainDetail**.
DomainName	String	Yes	example.com	The accelerated domain name. You can specify only one domain name.

Response parameters

Parameter	Type	Example	Description
DomainDetail	Struct		The detailed information about the accelerated domain name.
CertName	String	The certificate name	Indicates the name of the certificate if the HTTPS protocol is enabled.

Parameter	Type	Example	Description
Cname	String	example.aliyundoc.com	The CNAME that is assigned to the accelerated domain name. You must add the CNAME record to the system of your Domain Name System (DNS) provider to map the accelerated domain name to the CNAME.
Description	String	Beijing ICP Filing No. 1703xxxx	The information about the Internet content provider (ICP) filing of the domain name.
DomainName	String	example.com	The accelerated domain name.
DomainStatus	String	online	The status of the accelerated domain name. Valid values: • **online**: The domain name is enabled. • **offline**: The domain name is disabled. • **configuring**: The domain name is being configured. • **configure_failed**: The domain name has failed to be configured. • **checking**: The domain name is under review. • **check_failed**: The domain name has failed the review.
GmtCreated	String	2017-11-27T06:51:26Z	The time when the accelerated domain name was created.
GmtModified	String	2017-11-27T06:51:25Z	The time when the accelerated domain name was last modified.
ResourceGroupId	String	rg-acfmyuji4b6r4**	The ID of the resource group.
SSLProtocol	String	on	Indicates whether the Security Socket Layer (SSL) certificate is enabled. Valid values: • **on**: **enabled**. • **off**: **disabled**.
SSLPub	String	xxx	Indicates the public key of the certificate if the HTTPS protocol is enabled.
Scope	String	overseas	The region where your acceleration service is deployed. • **domestic**: mainland China. This is the default value. • **overseas**: outside mainland China. • **global**: all the countries in the world.
Sources	Array of Source		The information about the origin server.
Source			
Content	String	example.org	The origin address.
Enabled	String	online	The status of the origin server.

Parameter	Type	Example	Description
Port	Integer	80	The port over which back-to-origin requests are transmitted. Ports 443 and 80 are supported.
Priority	String	50	The priority of the origin server.
Type	String	oss	The type of origin server. Valid values: • **ipaddr**: the IP address of the origin server. • **domain**: the domain name of the origin server. • **oss**: the URL of an Object Storage Service (OSS) bucket.
Weight	String	20	The weight of the origin server if multiple origin servers have been specified.
RequestId	String	09ABE829-6CD3-4FE0-AFEE-556113E29727	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/? Action=DescribeDcdnDomainDetail
&DomainName=example.com
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnDomainDetailResponse>
  <RequestId>60EC4034-44D9-4BD6-A889-A32F2243AF76</RequestId>
  <DomainDetail>
        <Cname>example.aliyundoc.com</Cname>
        <Description>Beijing ICP Filing No. 17038515-1</Description>
        <ResourceGroupId>rg-acfmyf3fncyll**</ResourceGroupId>
        <DomainStatus>online</DomainStatus>
        <DomainName>example.com</DomainName>
        <Sources>
              <Source>
                    <Enabled>online</Enabled>
                    <Port>80</Port>
                    <Weight>10</Weight>
                    <Type>oss</Type>
                    <Content>example.org</Content>
                    <Priority>20</Priority>
              </Source>
        </Sources>
        <GmtModified>2019-12-30T11:28Z</GmtModified>
        <GmtCreated>2018-06-21T13:46:23Z</GmtCreated>
        <Scope>domestic</Scope>
  </DomainDetail>
</DescribeDcdnDomainDetailResponse>
```

`JSON` format

```
{
    "RequestId": "60EC4034-44D9-4BD6-A889-A32F2243AF76",
    "DomainDetail": {
        "Cname": "example.aliyundoc.com",
        "Description": "Beijing ICP Filing No. 17038515-1",
        "ResourceGroupId": "rg-acfmyf3fncyll**",
        "DomainStatus": "online",
        "DomainName": "example.com",
        "Sources": {
            "Source": [
                {
                    "Enabled": "online",
                    "Port": 80,
                    "Weight": "10",
                    "Type": "oss",
                    "Content": "example.org",
                    "Priority": "20"
                }
            ]
        },
        "GmtModified": "2019-12-30T11:28Z",
        "GmtCreated": "2018-06-21T13:46:23Z",
        "Scope": "domestic"
    }
}
```

Error codes

For a list of error codes, visit the API Error Center.

6.12. ModifyDCdnDomainSchdmByProperty

Changes the acceleration region of a specified accelerated domain.

> **Note** The maximum number of times that each user can call this operation per second is 100.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyDCdnDomainSchdmByProperty	The operation that you want to perform. Set the value to **ModifyDCdnDomainSchdmByProperty**.
DomainName	String	Yes	example.com	The name of the accelerated domain for which you want to change the acceleration region. You can specify only one domain name.
Property	String	Yes	{"coverage":"overseas"}	The region where the acceleration service is deployed. Valid values: • **domestic**: mainland China • **overseas**: outside mainland China • **global**: all the countries around the world

Response parameters

Parameter	Type	Example	Description
RequestId	String	15C66C7B-671A-4297-9187-2C4477247A74	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com?Action=ModifyDCdnDomainSchdmByProperty
&DomainName=example.com
&property={"coverage":"overseas"}
&<Common request parameters>
```

Sample success responses

`XML` format

```
<ModifyDCdnDomainSchdmByPropertyResponse>
      <RequestId>15C66C7B-671A-4297-9187-2C4477247A74</RequestId>
</ModifyDCdnDomainSchdmByPropertyResponse>
```

`JSON` format

```
{
  "RequestId": "15C66C7B-671A-4297-9187-2C4477247A74"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	Schedule.NotFound	This domain does not have any available CDN resources in the accelerated area.	The error message returned because the specified acceleration region does not have available node resources for the domain.
400	DomainTraffic.ExceedThreshold	You are not allowed to perform this operation because the traffic peak of the last day exceeds the threshold.	The error message returned because the peak traffic of the previous day of the specified domain has reached the upper limit. In this case, this operation cannot be called.
400	Domain.BeianInvalid	You are not allowed to perform this operation because the ICP license of your domain is invalid in Chinese Mainland.	The error message returned because the Internet content provider filing of the specified domain in mainland China is invalid.
400	Schedule.ChangeFail	Failed to change the accelerated area for the domain.	The error message returned because the system has failed to change the acceleration region for the specified domain.

For a list of error codes, visit the API Error Center.

6.13. DescribeDcdnUserDomainsByFunc

Queries all accelerated domain names with specified features configured that belong to your Alibaba Cloud account based on the FuncId parameter.

> **Note** You can call this operation up to 100 times per second per account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnUserDomainsByFunc	The operation that you want to perform. Set the value to **DescribeDcdnUserDomainsByFunc**.
FuncId	Integer	Yes	7	The ID of the feature. For more information about how to query feature IDs, see Feature settings for a domain name. For example, the ID of the origin host feature (set_req_host_header) is 18.
FuncFilter	String	No	config	Specifies whether the feature that is specified by the FuncId parameter is enabled. • **config**: enabled • **unconfig**: not enabled
DomainName	String	No	example.com	The accelerated domain name.
PageNumber	Integer	No	1	The number of the page to return. Default value: **1**. Valid values: **1 to 100000**.
PageSize	Integer	No	20	The number of domain names to return on each page. Default value: **20**. Valid values: **1 to 500**.
ResourceGroupId	String	No	rg-acfmyuji4b6r4**	The ID of the resource group.

Response parameters

Parameter	Type	Example	Description
Domains	Array of PageData		The array that consists of multiple PageData parameters. The details about each accelerated domain name are included in a separate PageData parameter.
PageData			
Cname	String	example.com.w.alikunlun.net	The CNAME assigned to the accelerated domain name.
Description	String	audit failed	The reason why the accelerated domain name failed the review.
DomainName	String	example.com	The accelerated domain name.

Parameter	Type	Example	Description
DomainStatus	String	configure_failed	The status of the accelerated domain name. Valid values: • **online**: enabled • **offline**: disabled • **configuring**: configuring • **configure_failed**: configuration failed • **checking**: reviewing • **check_failed**: review failed
GmtCreated	String	2015-10-28T09:32:51Z	The time when the accelerated domain name was added to Alibaba Cloud Dynamic Route for CDN (DCDN).
GmtModified	String	2015-10-28T11:05:50Z	The time when the accelerated domain name was last modified.
ResourceGroupId	String	rg-acfmyuji4b6r4**	The ID of the resource group.
Sandbox	String	normal	Indicates whether the accelerated domain name was in a sandbox.
Sources	Array of Source		The information about the origin server.
Source			
Content	String	image.developer.aliyundoc.com	The address of the origin server.
Port	Integer	80	The port of the origin server.
Priority	String	20	The priority of the origin server.
Type	String	oss	The type of the origin server.
Weight	String	20	The weight of the origin server if multiple origin servers have been specified.
SslProtocol	String	on	The status of HTTPS. Valid values: • **on**: enabled • **off**: disabled
PageNumber	Long	1	The page number of the returned page.
PageSize	Long	5	The number of domain names returned per page.
RequestId	String	AA75AADB-5E25-4970-B480-EAA1F5658483	The ID of the request.
TotalCount	Long	16	The total number of domain names returned.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnUserDomainsByFunc
&FuncId=7
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnUserDomainsByFuncResponse>
  <PageNumber>1</PageNumber>
  <TotalCount>16</TotalCount>
  <PageSize>5</PageSize>
  <RequestId>AA75AADB-5E25-4970-B480-EAA1F5658483</RequestId>
  <Domains>
        <PageData>
              <DomainStatus>configure_failed</DomainStatus>
              <DomainName>example.com</DomainName>
              <GmtModified>2015-10-28T11:05:52Z</GmtModified>
              <GmtCreated>2015-10-28T09:32:51Z</GmtCreated>
              <Description>audit failed</Description>
              <ResourceGroupId>rg-xxxxx</ResourceGroupId>
        </PageData>
        <PageData>
              <DomainStatus>configure_failed</DomainStatus>
              <DomainName>example.org</DomainName>
              <GmtModified>2015-10-28T11:05:50Z</GmtModified>
              <GmtCreated>2015-10-28T09:31:59Z</GmtCreated>
              <ResourceGroupId>rg-xxxxx</ResourceGroupId>
        </PageData>
        <PageData>
              <Cname>example.net.w.alikunlun.net</Cname>
              <DomainStatus>online</DomainStatus>
              <DomainName>example.net</DomainName>
              <GmtModified>2015-10-27T06:26:34Z</GmtModified>
              <GmtCreated>2015-10-23T09:30:00Z</GmtCreated>
              <ResourceGroupId>rg-xxxxx</ResourceGroupId>
        </PageData>
        <PageData>
              <Cname>example.edu.w.kunlunAr.com</Cname>
              <DomainStatus>online</DomainStatus>
              <DomainName>example.edu</DomainName>
              <GmtModified>2015-10-23T09:23:29Z</GmtModified>
              <GmtCreated>2015-10-23T09:23:20Z</GmtCreated>
              <ResourceGroupId>rg-xxxxx</ResourceGroupId>
        </PageData>
        <PageData>
              <Cname>aliyundoc.com.w.alikunlun.com</Cname>
              <DomainStatus>online</DomainStatus>
              <DomainName>aliyundoc.com</DomainName>
              <GmtModified>2015-10-23T09:02:11Z</GmtModified>
              <GmtCreated>2015-10-23T09:01:57Z</GmtCreated>
              <ResourceGroupId>rg-xxxxx</ResourceGroupId>
        </PageData>
  </Domains>
</DescribeDcdnUserDomainsByFuncResponse>
```

`JSON` format

```
{
  "PageNumber": 1,
  "TotalCount": 16,
  "PageSize": 5,
  "RequestId": "AA75AADB-5E25-4970-B480-EAA1F5658483",
  "Domains": {
    "PageData": [
      {
        "DomainStatus": "configure_failed",
        "DomainName": "example.com",
        "GmtModified": "2015-10-28T11:05:52Z",
        "GmtCreated": "2015-10-28T09:32:51Z",
        "Description": "audit failed",
        "ResourceGroupId":"rg-xxxxx"
      },
      {
        "DomainStatus": "configure_failed",
        "DomainName": "example.org",
        "GmtModified": "2015-10-28T11:05:50Z",
        "GmtCreated": "2015-10-28T09:31:59Z",
        "ResourceGroupId":"rg-xxxxx"
      },
      {
        "Cname": "example.net.w.alikunlun.net",
        "DomainStatus": "online",
        "DomainName": "example.net",
        "GmtModified": "2015-10-27T06:26:34Z",
        "GmtCreated": "2015-10-23T09:30:00Z",
        "ResourceGroupId":"rg-xxxxx"
      },
      {
        "Cname": "example.edu.w.kunlunAr.com",
        "DomainStatus": "online",
        "DomainName": "example.edu",
        "GmtModified": "2015-10-23T09:23:29Z",
        "GmtCreated": "2015-10-23T09:23:20Z",
        "ResourceGroupId":"rg-xxxxx"
      },
      {
        "Cname": "aliyundoc.com.w.alikunlun.com",
        "DomainStatus": "online",
        "DomainName": "aliyundoc.com",
        "GmtModified": "2015-10-23T09:02:11Z",
        "GmtCreated": "2015-10-23T09:01:57Z",
        "ResourceGroupId":"rg-xxxxx"
      }
    ]
  }
}
```


Error codes

HTTP status code	Error code	Error message	Description
400	InvalidPageNumber.ValueNotSupported	The specified value of PageNumber is not supported.	The error message returned because the value specified for the PageNumber parameter is invalid. Specify a valid value.
400	InvalidPageSize.ValueNotSupported	The specified value of PageSize is invalid.	The error message returned because the value specified for the PageSize parameter is invalid. Specify a valid value.

HTTP status code	Error code	Error message	Description
400	InvalidDomainStatus.ValueNotSupported	The specified value of DomainStatus is invalid.	The error message returned because the value specified for the DomainStatus parameter is invalid. Specify a valid value.
400	InvalidDomainName.Malformed	The specified DomainName is invalid.	The error message returned because the domain name is in invalid format.
400	InvalidDomainSearchType.ValueNotSupported	The specified value of DomainSearchType is invalid.	The error message returned because the value specified for the DomainSearchType parameter is invalid. Specify a valid value.
400	InvalidChangeStartTime.Malformed	The specified ChangeStartTime is invalid.	The error message returned because the value specified for the ChangeStartTime parameter is invalid.
400	InvalidChangeEndTime.Malformed	The specified ChangeEndTime is invalid.	The error message returned because the value specified for the ChangeEndTime parameter is invalid.

For a list of error codes, visit the API Error Center.

6.14. BatchSetDcdnDomainConfigs

Configures features for one or more domain names.

> **Note**
> - You can configure features for at most 50 domain names in each API call.
> - The maximum number of times that each user can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	BatchSetDcdnDomainConfigs	The operation that you want to perform. Set the value to **BatchSetDcdnDomainConfigs**.
DomainNames	String	Yes	example.com,example.org	The accelerated domain names. Separate domain names with commas (,).
Functions	String	Yes	[{"functionArgs":[{"argName":"domain_name","argValue":"example.com"}],"functionName":"set_req_host_header"}]	The list of features. Format: `[{"functionArgs":[{"argName":"parameter name","argValue":"parameter value"}],"functionName":"feature name"}]`

The following table describes the supported features.

FunctionID	Feature name	Parameter description	References
1	referer_white_list_set: configures the referer whitelist for hotlink protection.	refer_domain_allow_list: specifies the referers to be added to the whitelist. Separate multiple referers with commas (,). allow_empty: specifies whether requests with an empty referer header are allowed to access Dynamic Route for CDN (DCDN) resources. Valid values: on and off.	Configure a referer whitelist or blacklist to enable hotlink protection
5	referer_black_list_set: configures a referer blacklist.	refer_domain_deny_list: specifies the referers to be added to the blacklist. Separate multiple referers with commas (,). allow_empty: specifies whether requests with an empty referer header are allowed to access DCDN resources. Valid values: on and off.	Configure a referer whitelist or blacklist to enable hotlink protection
6	filetype_based_ttl_set: sets an expiration rule for specific file types.	ttl: specifies the time period after which the cached data expires. Unit: seconds. file_type: specifies the file types. Separate multiple file types with commas. For example, enter TXT,JPG. weight: specifies the weight.	Configure cache duration rules
7	path_based_ttl_set: sets an expiration rule for a specific directory.	ttl: specifies the time period after which the cached data expires. Unit: seconds. path: specifies a path. It must start with a forward slash (/). weight: specifies the weight.	Configure cache duration rules
10	oss_auth: configures authentication for requests destined for an Object Storage Service (OSS) bucket.	oss_bucket_id: specifies the endpoint of the OSS bucket.	If the origin server is an OSS bucket, authentication is automatically configured.
13	ip_black_list_set: configures an IP address blacklist.	ip_list: specifies the IP addresses to be added to the whitelist. Separate multiple IP addresses with commas (,).	Configure an IP address blacklist or whitelist

FunctionID	Feature name	Parameter description	References
69	ip_allow_list_set: configures an IP address whitelist.	ip_list: specifies the IP addresses to be added to the whitelist. Separate multiple IP addresses with commas (,).	Configure an IP address blacklist or whitelist
15	error_page: redirects an error page to a specified page.	error_code: specifies the error code. rewrite_page: specifies the page to which error pages are redirected when the specified error occurs.	Customize an error page
18	set_req_host_header: configures the custom header for requests that are redirected to the origin server.	domain_name: specifies the custom domain name that is used as the origin host.	Configure an origin host
19	set_hashkey_args: ignores URL parameters.	hashkey_args: specifies the parameters to be reserved. Separate multiple parameters with commas (,). You can specify up to 10 parameters. disable: A value of on indicates all parameters are ignored. A value of off indicates all parameters are reserved. The hashkey_args setting has a higher priority. Even if you have set this setting to on, the parameters specified in hashkey_args are reserved. keep_oss_args: specifies whether to reserve all the origin parameters in back-to-origin requests. A value of on indicates that all the origin parameters in back-to-origin requests are reserved. A value of off indicates that only the parameters specified in hashkey_args are reserved.	Configure the parameter filtering feature

FunctionID	Feature name	Parameter description	References
25	aliauth: configures Alibaba Cloud authentication.	auth_type: specifies the authentication type. A value of no_auth indicates to disable authentication. A value of type_a indicates to use authentication type A. A value of type_b indicates to use authentication type B. A value of type_c indicates to use authentication type C. auth_key1: specifies the primary authentication key. auth_key2: specifies the secondary authentication key. ali_auth_delta: customizes the buffer time for authentication.	Configure URL authentication

FunctionID	Feature name	Parameter description	References
27	set_resp_header: sets a response header. To verify the setting, you can check the response in a browser.	key: specifies the response header. This parameter is required. value: specifies the value of the response header. This parameter is required. Enter null if you need to delete the header. header_operation_type: specifies the action to be performed on the request header. Valid values: add, delete, modify, and rewrite. The Add action adds a request header. The Delete action deletes a request header. The Modify action modifies a request header. The Rewrite action rewrites a request header. duplicate: specifies whether to allow duplicate response headers. Valid values: on and off. header_source: searches for the source of the response header. header_destination: replaces the response header. match_all: specifies whether to match all queries. Valid values: on and off.	Customize an HTTP header
44	https_force: redirects visitors from HTTP URLs to HTTPS URLs.	enable: specifies whether to enable the feature. Valid values: on and off.	Configure the force redirect feature
45	http_force: redirects the original requests as HTTP requests.	enable: specifies whether to enable the feature. Valid values: on and off.	Configure the force redirect feature
78	https_option: configures basic parameters of HTTPS.	http2: specifies whether to enable HTTP/2. Valid values: on and off. ocsp_stapling: specifies whether to enable OCSP Stapling. Valid values: on and off.	Configure an SSL certificate, Enable HTTP/2, Configure OCSP stapling

FunctionID	Feature name	Parameter description	References
47	forward_scheme: configures the static origin protocol policy.	enable: specifies whether to enable the feature. Valid values: on and off. scheme_origin: specifies the protocol policy that is used to communicate with the origin server. Valid values: http, https, and follow.	Configure the static origin protocol policy
46	dynamic: configures the DCDN service.	enable: specifies whether to enable the feature. This parameter is required. Valid values: on and off. static_route_type: specifies the file name extension for static content. static_route_url: specifies the URI of the static content. static_route_path: specifies the path of the static content. dynamic_route_origin: specifies the protocol policy that is used to communicate with the origin server. Valid values: http, https, follow, and follow-port. dynamic_route_round_robin: specifies whether to enable load balancing. Valid values: on and off. dynamic_route_adapt_cache: specifies whether to enable adaptive caching. Valid values: on and off.	Dynamic and static acceleration rules
39	set_req_header: customizes an HTTP header for requests that are redirected to the origin server.	key: specifies the name of the header. value: specifies the value of the header.	Customize an origin HTTP header
85	l2_oss_key: retrieves content from private OSS buckets.	private_oss_auth: specifies whether to retrieve your content from private OSS buckets. Valid values: on and off.	Enable authorization to access private buckets
31	range: configures object chunking.	enable: specifies whether to enable the feature. Valid values: on and off.	Configure range origin fetch

FunctionID	Feature name	Parameter description	References
30	video_seek: configures video seeking.	enable: specifies whether to enable the feature. This parameter is required. Valid values: on and off. flv_seek_by_time: specifies whether to enable Flash Video (FLV) seeking by time. Valid values: on and off. mp4_seek_start: customizes MP4 video start parameters. mp4_seek_end: customizes MP4 video end parameters. flv_seek_start: customizes FLV video start parameters. flv_seek_end: customizes FLV video end parameters.	Configure video seeking
144	websocket: configures the WebSocket protocol.	enabled: specifies whether to enable the feature. This parameter is required. Valid values: on and off. origin_scheme: specifies the protocol policy that is used to communicate with the origin. Valid values: http, https, and follow. heartbeat: specifies the heartbeat interval. Unit: seconds. Valid values: 1 to 300. Default value: 60.	Configure WebSocket
75	ali_remove_args: deletes URL parameters.	ali_remove_args: specifies the parameters to be deleted. The remaining parameters are used as the URL parameters in the hashkey_args. Separate multiple parameters with spaces. The ali_remove_args parameter is required. keep_oss_args: specifies whether to reserve back-to-origin parameters. A value of on indicates that all parameters are reserved during the back-to-origin process. A value of off indicates that only the parameters in the hashkey_args are reserved.	Configure the parameter filtering feature

FunctionID	Feature name	Parameter description	References
110	https_tls_version: configures the TLS protocol.	tls10: specifies whether to enable TLS 1.0. Valid values: on and off. Default value: on. tls11: specifies whether to enable TLS 1.1. Valid values: on and off. Default value: on. tls12: specifies whether to enable TLS 1.2. Valid values: on and off. Default value: on. tls13: specifies whether to enable TLS 1.3. Valid values: on and off. Default value: off.	Configure TLS
112	HSTS: configures HSTS.	enabled: specifies whether to enable the feature. This parameter is required. Valid values: on and off. Default value: off. https_hsts_max_age: specifies the validity period of the HSTS policy. This parameter is required. Unit: milliseconds. We recommend that you set the value to 5184000000. This value equals 60 days. https_hsts_include_subdomains: specifies whether the HSTS header contains the includeSubDomains parameter. Valid values: on and off. Use caution if you want to enable this feature. Make sure that HTTPS is enabled for all the subdomains of the domain name to be accelerated. Otherwise, the subdomains become inaccessible after they are redirected to HTTPS.	Configure TLS
63	filetype_force_ttl_code: configures a time-to-live (TTL) rule for HTTP status codes based on file types.	file_type: specifies the file type. You can specify one or more file types. Separate multiple file types with commas (,). For example, enter TXT,JPG. code_string: specifies the status codes. This parameter is required. Separate multiple status codes with commas (,). Example: 302=0,301=0,4xx=2.	Create a cache expiration rule for HTTP status codes

FunctionID	Feature name	Parameter description	References
65	path_force_ttl_code: configures a TTL rule for HTTP status codes based on directories.	path: specifies the directory. This parameter is required. It must start with a forward slash (/). Example: /image. code_string: specifies the status codes. This parameter is required. Separate multiple status codes with commas (,). Example: 302=0,301=0,4xx=2.	Create a cache expiration rule for HTTP status codes
35	gzip: configures gzip compression.	enable: specifies whether to enable the feature. This parameter is required. Valid values: on and off.	Configure smart compression
16	tesla: configures page optimization.	enable: specifies whether to enable the feature. This parameter is required. Valid values: on and off. trim_js: specifies whether to optimize JavaScript content on HTML pages. Valid values: on and off. trim_css: specifies whether to optimize CSS content on HTML pages. Valid values: on and off.	Configure HTML optimization
114	https_origin_sni: configures an origin Server Name Indication (SNI).	enabled: specifies whether to enable the feature. Valid values: on and off. https_origin_sni: configures an origin SNI. This parameter is required.	Configure an origin SNI
163	protogw: configures IP address acceleration	realip: specifies the transparent proxy mode for the origin server to obtain the real IP addresses of the clients. This parameter is required. Valid values: off, toa, and pp. port: specifies the service port. This parameter is required. patten: specifies the mode string.	IP Application Accelerator

FunctionID	Feature name	Parameter description	References
43	host_redirect: configures the rewrite feature.	regex: specifies the URL to be rewritten, for example, ^/$. replacement: specifies the new URL, for example, /go/act/sale/tbzlsy.php. flag: Valid values are redirect and break.	Create a URI rewrite rule
124	forward_timeout: configures the timeout period for requests that are redirected to the origin server.	forward_timeout: specifies the time period in seconds. We recommend that you set a value that is not greater than 100.	Configure a timeout period for origin fetch requests
194	ipv6: configures IPv6.	switch: specifies whether to enable the feature. This parameter is required. Valid values: on and off. region: specifies the region where you want to enable IPv6. You can enter an asterisk (*) to specify all regions.	Configure IPv6

FunctionID	Feature name	Parameter description	References
180	edge_function: configures EdgeScript.	rule: specifies DSL-based scripts. This parameter is required. pri: specifies the priority of the DSL script. This parameter is required. enable: specifies whether to enable the script. This parameter is required. Valid values: on and off. name: specifies the name of the script. pos: specifies whether to execute the script at the start or end of the request processing pipeline. For the accelerated domain names of DCDN, only the value of head is supported. The value of foot is not supported. brk: after the script is matched, the subsequent scripts at the specified position are skipped. option: configures an extension used to perform response header debugging. grammar: an extension used to specify the scripting language. Valid values: es2 and js. You can also leave this parameter empty. jsmode: an extension used to manage the domain name whitelist in JavaScript. Valid value: redirect and bypass.	EdgeScript
97	brotli: configures Brotli compression.	enable: specifies whether to enable the feature. This parameter is required. Valid values: on and off. brotli_level: specifies the compression level. Valid values: 1 to 11.	Configure Brotli compression
58	ali_ua: configures a user-agent-based whitelist or blacklist.	ua: specifies user agents. type: specifies the type of the user agent list. Valid values: black and white.	Configure a User-Agent blacklist or whitelist

Response parameters

Parameter	Type	Example	Description
RequestId	String	04F0F334-1335-436C-A1D7-6C044FE73368	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=BatchSetDcdnDomainConfigs
&DomainName=example.com,example.org
&Functions=[{"functionArgs":[{"argName":"domain_name","argValue":"example.com"}],"functionName":"set_req_host_header"}]
&<Common request parameters>
```

Sample success responses

`XML` format

```
<BatchSetDcdnDomainConfigsResponse>
  <RequestId>04F0F334-1335-436C-A1D7-6C044FE73368</RequestId>
</BatchSetDcdnDomainConfigsResponse>
```

`JSON` format

```
{
    "RequestId": "04F0F334-1335-436C-A1D7-6C044FE73368"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	InvalidFunctions.Malformed	The specified Functions is invalid.	The error message returned because the value specified for the Functions parameter is invalid. Specify a valid value.
400	InvalidArgValue.Malformed	The specified ArgValue is invalid.	The error message returned because the value specified for the ArgValue parameter is invalid. Specify a valid value.
400	Invalid%s.ValueNotSupported	[%s] is not supported.	The error message returned because the specified configuration is not supported.
400	Invalid%s.Malformed	The specified ArgValue [%s] is invalid.	The error message returned because the value specified for the ArgValue parameter is invalid. Specify a valid value.
400	MissingParameter	You must specify ArgValue.	The error message returned because one or more required parameters are not specified.

For a list of error codes, visit the API Error Center.

The following table describes how to set and query a configid.

API operation	Description

API operation	Description
BatchSetDcdnDomainConfigs	Adds a configuration record. After you call this API operation, a **configid** is generated.
DescribeDcdnDomainConfigs	Queries a configuration record. After you call this API operation, the **configid** of the queried configuration record is returned.
BatchSetDcdnDomainConfigs	Modifies a configuration record. You must specify a **configid** when you call this API operation.
DeleteDcdnSpecificConfig	Deletes a configuration record. You must specify a **configid** when you call this API operation.

Usage notes for configid:

- **How a configid is generated**: Call the BatchSetDcdnDomainConfigs operation to configure a feature for a domain name. If the call is successful, a configid is generated and returned.
  - Sample request:

    ```
    action: BatchSetDcdnDomainConfigs
    params: {"Functions":[{"functionArgs":[{"argName":"value","argValue":"test"},{"argName":"key","argValue":"User-Agent"}],"functionName":"set_req_header"}],"domainNames":"example.com"}
    product: dcdn
    ```

  - Sample success response:

    ```
    {
        "code": "200",
        "data": {
    "DomainConfigList": {
                "DomainConfigModel": [
                    {
                        "FunctionName": "set_req_header",
                        "DomainName": "example.aliyundoc.com",
                        "ConfigId": 19571990834****
                    }
                ]
            },
            "RequestId": "4FF61A1D-E697-5E6C-9E5D-7D1E1529****"
        },
        "httpStatusCode": "200",
        "requestId": "4FF61A1D-E697-5E6C-9E5D-7D1E1529****",
        "successResponse": true
    }
    ```

  - **Add multiple rules**

    Some features support more than one rule. The following example shows how to add multiple rules at a time:

    Example: Configure the **set_resp_header** feature for the domain name example.aliyundoc.com and add the following two rules:

    - Rule 1: key=123,value=123

- Rule 2: key=test,value=test

```
            action: BatchSetDcdnDomainConfigs
            params: {
                "domainNames": "example.aliyundoc.com",
                "functions": [
                    {
                        "functionArgs": [
                            {
                                "ArgValue": "123",
                                "ArgName": "key"
                            },
                            {
                                "ArgValue": "123",
                                "ArgName": "value"
                            }
                        ],
                        "functionName": "set_resp_header"
                    },
                    {
                        "functionArgs": [
                            {
                                "ArgValue": "test",
                                "ArgName": "key"
                            },
                            {
                                "ArgValue": "test",
                                "ArgName": "value"
                            }
                        ],
                        "functionName": "set_resp_header"
                    }
                ]
            }
            product: dcdn
```

- **Add multiple configuration records**

  Some features, such as filetype_based_ttl_set, support multiple configuration records. If you want to update one of the configuration records, specify the configId of the configuration record.

```
        [
        {
            "functionArgs": [
                    {
                        "argName": "file_type",
                        "argValue": "jpg"
                    },
                    {
                        "argName": "ttl",
                        "argValue": "18"
                    }
                ],
                "functionName": "filetype_based_ttl_set",
                "configId": 5068995
            }
        ]
```

- **How to query the configid of a configuration record**: Call the DescribeDcdnDomainConfigs operation. If the call is successful, the configid of the queried configuration record is returned.

- Sample request:

```
action: DescribeDcdnDomainConfigs
    params: {"domainName":"example.aliyundoc.com","functionNames":"set_req_header"}
    product: dcdn
```

- Sample response:

```
{
        "code": "200",
        "data": {
            "RequestId": "51B7DF03-A7AE-56ED-BF1E-D16F6A6B****",
            "DomainConfigs": {
                "DomainConfig": [
                    {
                        "Status": "configuring",
                        "FunctionName": "set_req_header",
                        "FunctionArgs": {
                            "FunctionArg": [
                                {
                                    "ArgValue": "test",
                                    "ArgName": "value"
                                },
                                {
                                    "ArgValue": "User-Agent",
                                    "ArgName": "key"
                                }
                            ]
                        },
                        "ConfigId": 19572306654****
                    }
                ]
            }
        },
        "httpStatusCode": "200",
        "requestId": "51B7DF03-A7AE-56ED-BF1E-D16F6A6B****",
        "successResponse": true
    }
```

- **How to use a configid:**
  - If you want to update a configuration record, call the DescribeDcdnDomainConfigs operation and specify the configid of the configuration record.

```
action: BatchSetDcdnDomainConfigs
params: {
    "Functions": [
        {
            "functionArgs": [
                {
                    "argName": "value",
                    "argValue": "123456"
                },
                {
                    "argName": "key",
                    "argValue": "User-Agent"
                }
            ],
            "functionName": "set_req_header",
            "configId": 19571990834****
        }
    ],
    "domainNames": "example.com"
}
product: dcdn
```

- If you want to delete a configuration record, call the DescribeDcdnDomainConfigs operation and specify the configid of the configuration record.

```
action: DeleteSpecificConfig
params: {
    "configId": 19571990834****,
    "functionName": "set_req_header",
    "domainName": "example.aliyundoc.com"
}
product: dcdn
```

6.15. DescribeDcdnDomainConfigs

Queries the configurations of an accelerated domain name.

> **Note**
> - You can query the configurations of one or more features in a request.
> - You can call this operation up to 30 times per second per account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainConfigs	The operation that you want to perform. Set the value to **DescribeDcdnDomainConfigs**.
DomainName	String	Yes	example.com	The accelerated domain name. You can specify only one domain name in each request.
FunctionNames	String	Yes	filetype_based_ttl_set,set_req_host_header	The names of the features. Separate multiple feature names with commas (,). For more information, see Feature settings for a domain name.
ConfigId	String	No	5003576	The ID of the configuration. For more information about ConfigId, see Usage notes on ConfigId.

Response parameters

Parameter	Type	Example	Description
DomainConfigs	Array of DomainConfig		The configurations of the domain name.
DomainConfig			
ConfigId	String	5068995	The ID of the configuration.
FunctionArgs	Array of FunctionArg		The configurations of the features.
FunctionArg			

Parameter	Type	Example	Description
ArgName	String	example	The name of the configuration.
ArgValue	String	13	The value of the configuration.
FunctionName	String	set_req_host_header	The name of the feature.
Status	String	success	The status of the configuration. Valid values: • **success**: successful • **testing**: testing • **failed**: failed • **configuring**: configuring
RequestId	String	F8AA0364-0FDB-4AD5-AC74-D69FAB8924ED	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainConfigs
&DomainName=example.com
&FunctionNames=filetype_based_ttl_set,set_req_host_header
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnDomainConfigsResponse>
  <RequestId>F8AA0364-0FDB-4AD5-AC74-D69FAB8924ED</RequestId>
  <DomainConfigs>
        <DomainConfig>
              <FunctionArgs>
                    <FunctionArg>
                          <ArgName>example</ArgName>
                          <ArgValue>example.aliyundoc.com</ArgValue>
                    </FunctionArg>
              </FunctionArgs>
              <ConfigId>5003576</ConfigId>
              <FunctionName>set_req_host_header</FunctionName>
        </DomainConfig>
        <DomainConfig>
              <FunctionArgs>
                    <FunctionArg>
                          <ArgName>demo</ArgName>
                          <ArgValue>txt</ArgValue>
                    </FunctionArg>
                    <FunctionArg>
                          <ArgName>aliyundoc</ArgName>
                          <ArgValue>13</ArgValue>
                    </FunctionArg>
              </FunctionArgs>
              <ConfigId>5068995</ConfigId>
              <FunctionName>filetype_based_ttl_set</FunctionName>
        </DomainConfig>
  </DomainConfigs>
</DescribeDcdnDomainConfigsResponse>
```

`JSON` format

```
{
  "RequestId": "F8AA0364-0FDB-4AD5-AC74-D69FAB8924ED",
  "DomainConfigs": {
    "DomainConfig": [
      {
        "FunctionArgs": {
          "FunctionArg": [
            {
              "ArgName": "example",
              "ArgValue": "example.aliyundoc.com"
            }
          ]
        },
        "ConfigId": 5003576,
        "FunctionName": "set_req_host_header"
      },
      {
        "FunctionArgs": {
          "FunctionArg": [
            {
              "ArgName": "demo",
              "ArgValue": "txt"
            },
            {
              "ArgName": "aliyundoc",
              "ArgValue": "13"
            }
          ]
        },
        "ConfigId": 5068995,
        "FunctionName": "filetype_based_ttl_set"
      }
    ]
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Invalid%s.ValueNotSupported	FunctionName [%s] is not supported.	The error message returned because the value specified for the FunctionName parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

6.16. DeleteDcdnSpecificConfig

Deletes configurations of an accelerated domain name.

> **Note** You can call this operation up to 30 times per second per account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteDcdnSpecificConfig	The operation that you want to perform. Set the value to **DeleteDcdnSpecificConfig**.
ConfigId	String	Yes	2117	The ID of the configuration. Separate multiple configuration IDs with commas (,). For more information about ConfigId, see Usage notes on ConfigId.
DomainName	String	Yes	example.com	The accelerated domain name. You can specify only one domain name.

Response parameters

Parameter	Type	Example	Description
RequestId	String	04F0F334-1335-436C-A1D7-6C044FE73368	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DeleteDcdnSpecificConfig
&ConfigId=2117
&DomainName=example.com
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DeleteDcdnSpecificConfigResponse>
   <RequestId>04F0F334-1335-436C-A1D7-6C044FE73368</RequestId>
</DeleteDcdnSpecificConfigResponse>
```

`JSON` format

```
{
    "RequestId": "04F0F334-1335-436C-A1D7-6C044FE73368"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Invalid%s.ValueNotSupported	FunctionName [%s] is not supported.	The error message returned because the value specified for the FunctionName parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

6.17. BatchDeleteDcdnDomainConfigs

Deletes configurations of multiple accelerated domain names at a time.

> **Note**
> - You can specify up to 50 domain names in each request.
> - You can call this operation up to 30 times per second per account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	BatchDeleteDcdnDomainConfigs	The operation that you want to perform. Set the value to **BatchDeleteDcdnDomainConfigs**.
DomainNames	String	Yes	example.com	The accelerated domain names whose configurations you want to delete. Separate multiple accelerated domain names with commas (,).
FunctionNames	String	Yes	referer_white_list_set, https_force	The names of the features that you want to delete. Separate multiple feature names with commas (,). For more information about feature names, see Feature settings for a domain name.

Response parameters

Parameter	Type	Example	Description
RequestId	String	04F0F334-1335-436C-A1D7-6C044FE73368	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=BatchDeleteDcdnDomainConfigs
&DomainNames=example.com
&FunctionNames=referer_white_list_set,https_force
&<Common request parameters>
```

Sample success responses

`XML` format

```
<BatchDeleteDcdnDomainConfigsResponse>
      <RequestId>04F0F334-1335-436C-A1D7-6C044FE73368</RequestId>
</BatchDeleteDcdnDomainConfigsResponse>
```

`JSON` format

```
{
    "RequestId": "04F0F334-1335-436C-A1D7-6C044FE73368"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Invalid%s.ValueNotSupported	FunctionName [%s] is not supported.	The error message returned because the value specified for the FunctionName parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

6.18. DescribeDcdnDeletedDomains

Queries the domain names that are deleted from your account.

> **Note** You can call this operation up to 10 times per second per account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDeletedDomains	The operation that you want to perform. Set the value to **DescribeDcdnDeletedDomains**.
PageNumber	Integer	No	1	The number of the page to return. Valid values: **1** to **100000**. Default value: **1**.
PageSize	Integer	No	5	The number of domain names to return per page. Valid values: an integer between **1** and **500**. Default value: **20**.

Response parameters

Parameter	Type	Example	Description
Domains	Array of PageData		The list of accelerated domain names and the time each domain name was last modified.
PageData			
DomainName	String	example.com	The accelerated domain name.
GmtModified	String	2015-10-28T11:05:52Z	The time when the accelerated domain name was last modified. The time follows the ISO 8601 standard in the yyyy-MM-ddThh:mm:ssZ format. The time is displayed in UTC+0.
PageNumber	Long	1	The page number of the returned page, which is the same as the **PageNumber** parameter in request parameters.

Parameter	Type	Example	Description
PageSize	Long	5	The number of domain names returned per page, which is the same as the **PageSize** parameter in request parameters.
RequestId	String	AA75AADB-5E25-4970-B480-EAA1F5658483	The ID of the request.
TotalCount	Long	16	The total number of domain names returned.

Examples

Sample requests

```
https://dcdn.aliyuncs.com?&Action=DescribeDcdnDeletedDomains&PageNumber=1&PageSize=5
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnDeletedDomainsResponse>
  <PageNumber>1</PageNumber>
  <TotalCount>16</TotalCount>
  <PageSize>5</PageSize>
  <RequestId>AA75AADB-5E25-4970-B480-EAA1F5658483</RequestId>
  <Domains>
        <PageData>
              <DomainName>example.com</DomainName>
              <GmtModified>2015-10-28T11:05:52Z</GmtModified>
        </PageData>
        <PageData>
              <DomainName>example.org</DomainName>
              <GmtModified>2015-10-28T11:05:50Z</GmtModified>
        </PageData>
        <PageData>
              <DomainName>example.net</DomainName>
              <GmtModified>2015-10-27T06:26:34Z</GmtModified>
        </PageData>
        <PageData>
              <DomainName>example.edu</DomainName>
              <GmtModified>2015-10-23T09:23:29Z</GmtModified>
        </PageData>
        <PageData>
              <DomainName>aliyundoc.com</DomainName>
              <GmtModified>2015-10-23T09:02:11Z</GmtModified>
        </PageData>
  </Domains>
</DescribeDcdnDeletedDomainsResponse>
```

`JSON` format

```
{
    "PageNumber": 1,
    "TotalCount": 16,
    "PageSize": 5,
    "RequestId": "AA75AADB-5E25-4970-B480-EAA1F5658483",
    "Domains": {
        "PageData": [
            {
                "DomainName": "example.com",
                "GmtModified": "2015-10-28T11:05:52Z"
            },
            {
                "DomainName": "example.org",
                "GmtModified": "2015-10-28T11:05:50Z"
            },
            {
                "DomainName": "example.net",
                "GmtModified": "2015-10-27T06:26:34Z"
            },
            {
                "DomainName": "example.edu",
                "GmtModified": "2015-10-23T09:23:29Z"
            },
            {
                "DomainName": "aliyundoc.com",
                "GmtModified": "2015-10-23T09:02:11Z"
            }
        ]
    }
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidPageNumber.ValueNotSupported	The specified value of PageNumber is not supported.	The error message returned because the value specified for the PageNumber parameter is invalid. Specify a valid value.
400	InvalidPageSize.ValueNotSupported	The specified value of PageSize is invalid.	The error message returned because the value specified for the PageSize parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

6.19. BatchSetDcdnDomainConfigs

Configures features for multiple domain names at a time.

Note

- The features described in this topic can be referenced when you call the following API operations: BatchSetDcdnDomainConfigs, DescribeDcdnDomainConfigs, BatchDeleteDcdnDomainConfigs, and DescribeDcdnUserDomainsByFunc.
- You can call BatchSetDcdnDomainConfigs to configure features for multiple domain names. If the operation succeeds, unique configuration IDs (ConfigId) are generated. You can use the configuration IDs to update or delete the configurations of the features. For more information, see Usage notes on ConfigId.

Basic Information

dynamic

- Feature description: configures static and dynamic acceleration rules. For more information, see Overview.
- Feature ID (FunctionID/FuncId): 46.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
enable	String	Yes	Specifies whether to enable static and dynamic acceleration. Valid values: ○ on: enables static and dynamic acceleration. ○ off: disables static and dynamic acceleration.	on
static_route_type	String	No	The extensions of static files.	.txt
static_route_url	String	No	The URIs of static resources.	/domain/detail/log.txt
static_route_path	String	No	The path of the static file. Note You can use the asterisk (*) and question mark (?) wildcard characters for a fuzzy search of the path of the static file. The asterisk (*) specifies zero, one, or more characters. The question mark (?) specifies one character.	/abc/test/*
dynamic_route_origin	String	No	Specifies the origin protocol policy to retrieve dynamic content. Valid values: ○ http: Dynamic Route for CDN (DCDN) redirects requests to the origin server over HTTP. ○ https: DCDN redirects requests to the origin server over HTTPS. ○ follow: When the client uses HTTP or HTTPS to request resources, DCDN redirects the request to the origin server over the protocol that is used by the client. ○ follow-port: When the client uses HTTP or HTTPS to request resources, DCDN redirects the request to the origin server over the protocol that is used by the origin server port. Note The default value is follow.	https
dynamic_route_round_robin	String	No	Specifies whether to enable load balancing. Default value: off. Valid values: ○ on: enables load balancing. ○ off: disables load balancing.	off
dynamic_route_adapt_cache	String	No	Specifies whether to enable adaptive caching. Default value: off. Valid values: ○ on: enables adaptive caching. ○ off: disables adaptive caching.	off

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "enable",
            "argValue": "on"
        }, {
            "argName": "static_route_type",
            "argValue": ".txt"
        }, {
            "argName": "static_route_url",
            "argValue": "/domain/detail/log.txt"
        },{
            "argName": "static_route_path",
            "argValue": "/abc/test/*"
        }, {
            "argName": "dynamic_route_origin",
            "argValue": "https"
        }, {
            "argName": "dynamic_route_round_robin",
            "argValue": "off"
        }, {
            "argName": "dynamic_route_adapt_cache",
            "argValue": "off"
        }],
        "functionName": "dynamic"
    }],
    "DomainNames": "example.com"
}
```

ipv6

- Feature description: configures IPv6. For more information, see Configure IPv6.
- Feature ID (FunctionID/FuncId): 194.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
switch	String	Yes	Specifies whether to enable IPv6. Valid values: ○ on: enables IPv6. ○ off: disables IPv6.	on
region	String	Yes	Specifies the region where you want to enable IPv6. **Note** ○ You can enter an asterisk (*) to specify all regions. If you want to enable IPv6 in a specified region, submit a ticket. ○ If you do not set the region parameter, IPv6 is enabled in all regions.	*

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "switch",
            "argValue": "on"
        }, {
            "argName": "region",
            "argValue": "*"
        }],
        "functionName": "ipv6"
    }],
    "DomainNames": "example.com"
}
```

Origin fetch settings

oss_auth

- Feature description: configures authentication for access to an Object Storage Service (OSS) bucket. For more information, see Configure private bucket origin.
- Feature ID (FunctionID/FuncId): 10.
- The following table describes the parameter.

Parameter	Type	Required	Description	Example
oss_bucket_id	String	Yes	The address of the bucket.	***.oss-cn-hangzhou.aliyuncs.com

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "oss_bucket_id",
            "argValue": "***.oss-cn-hangzhou.aliyuncs.com"
        }],
        "functionName": "oss_auth"
    }],
    "DomainNames": "example.com"
}
```

set_req_host_header

- Feature description: configures an origin host. For more information, see Configure an origin host.
- Feature ID (FunctionID/FuncId): 18.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
domain_name	String	Yes	The origin host.	`example.com`

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "domain_name",
            "argValue": "example.com"
        }],
        "functionName": "set_req_host_header"
    }],
    "DomainNames": "example.com"
}
```

forward_scheme

- Feature description: configures the origin protocol policy. For more information, see Configure the static origin protocol policy.
- Feature ID (FunctionID/FuncId): 47.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
enable	String	Yes	Specifies whether to enable the origin protocol policy. Valid values: ○ on: enables the origin protocol policy. ○ off: disables the origin protocol policy.	on
scheme_origin	String	No	The protocol for back-to-origin routing. Valid values: ○ http: DCDN redirects requests to the origin server over HTTP. ○ https: DCDN redirects requests to the origin server over HTTPS. ○ follow: When the client uses HTTP or HTTPS to request resources, DCDN redirects the request to the origin server over the protocol that is used by the client. Note The default value is follow.	follow

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "scheme_origin",
            "argValue": "follow"
        }, {
            "argName": "enable",
            "argValue": "on"
        }],
        "functionName": "forward_scheme"
    }],
    "DomainNames": "example.com"
}
```

set_req_header

- Feature description: configures a custom origin HTTP header. For more information, see Customize an origin HTTP header.

> **Note** set_req_header is version 1. We recommend that you use version 2 origin_request_header. Version 2 supports more headers.

- Feature ID (FunctionID/FuncId): 39.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
key	String	Yes	The name of the header.	Accept-Encoding
value	String	Yes	The value of the header. If you want to delete a header, set the header value to null.	gzip

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "value",
            "argValue": "gzip"
        }, {
            "argName": "key",
            "argValue": "Accept-Encoding"
        }],
        "functionName": "set_req_header"
    }],
    "DomainNames": "example.com"
}
```

l2_oss_key

- Feature description: configures access control on private OSS buckets. For more information, see Configure private bucket origin.
- Feature ID (FunctionID/FuncId): 85.
- The following table describes the parameter.

Parameter	Type	Required	Description	Example
private_oss_auth	String	Yes	Specifies whether to enable access to private OSS buckets. Valid values: ○ on: enables access to private OSS buckets. ○ off: disables access to private OSS buckets.	on

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "private_oss_auth",
            "argValue": "on"
        }],
        "functionName": "l2_oss_key"
    }],
    "DomainNames": "example.com"
}
```

https_origin_sni

- Feature description: configures origin Server Name Indication (SNI). For more information, see Configure an origin SNI.
- Feature ID (FunctionID/FuncId): 114.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
enabled	String	Yes	Specifies whether to enable origin SNI. Valid values: ○ on: enables origin SNI. ○ off: disables origin SNI.	on
https_origin_sni	String	Yes	The SNI information carried in back-to-origin requests. The SNI information specifies the address of the origin server.	`origin.example.com`

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "https_origin_sni",
            "argValue": "origin.example.com"
        }, {
            "argName": "enabled",
            "argValue": "on"
        }],
        "functionName": "https_origin_sni"
    }],
    "DomainNames": "example.com"
}
```

forward_timeout

- Feature description: configures a timeout period for origin fetch requests. For more information, see Configure a timeout period for origin fetch requests.
- Feature ID (FunctionID/FuncId): 124.
- The following table describes the parameter.

Parameter	Type	Required	Description	Example
forward_timeout	Integer	Yes	The request timeout period. Unit: seconds. **Note** We recommend that you set the request timeout period to less than 100 seconds.	30

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "forward_timeout",
            "argValue": "30"
        }],
        "functionName": "forward_timeout"
    }],
    "DomainNames": "example.com"
}
```

Cache settings

filetype_based_ttl_set

- Feature description: configures a time-to-live (TTL) for files. For more information, see Add a cache rule for resources.
- Feature ID (FunctionID/FuncId): 6.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
ttl	Integer	Yes	The TTL. Unit: seconds.	500000
file_type	String	Yes	The file name extensions, which are case-sensitive. Separate file name extensions with commas (,). Example: jpg,txt.	jpg
weight	Integer	No	The weight. Valid values: 1 to 99. **Note** The default value is 1. A larger value indicates a higher priority.	1

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "file_type",
            "argValue": "jpg"
        }, {
            "argName": "weight",
            "argValue": "1"
        }, {
            "argName": "ttl",
            "argValue": "500000"
        }],
        "functionName": "filetype_based_ttl_set"
    }],
    "DomainNames": "example.com"
}
```

path_based_ttl_set

- Feature description: configures a TTL for directories. For more information, see Add a cache rule for resources.
- Feature ID (FunctionID/FuncId): 7.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
ttl	Integer	Yes	The TTL. Unit: seconds.	500000
path	String	Yes	The directory. It must start with a forward slash (/).	/example/demo
weight	Integer	No	The weight. Valid values: 1 to 99. **Note** The default value is 1. A larger value indicates a higher priority.	1

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "path",
            "argValue": "/example/demo"
        }, {
            "argName": "weight",
            "argValue": "1"
        }, {
            "argName": "ttl",
            "argValue": "500000"
        }],
        "functionName": "path_based_ttl_set"
    }],
    "DomainNames": "example.com"
}
```

error_page

- Feature description: configures a custom error page. For more information, see Customize an error page.
- Feature ID (FunctionID/FuncId): 15.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
error_code	Integer	Yes	The HTTP status code.	404
rewrite_page	String	Yes	The page to which requests are redirected.	`http://example.aliyundoc.com/error404.html`

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "error_code",
            "argValue": "404"
        }, {
            "argName": "rewrite_page",
            "argValue": "http://example.aliyundoc.com/error404.html"
        }],
        "functionName": "error_page"
    }],
    "DomainNames": "example.com"
}
```

set_resp_header

- Feature description: configures a custom HTTP response header. For more information, see Customize an HTTP header.
- Feature ID (FunctionID/FuncId): 27.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
key	String	Yes	The response header.	Cache-Control
value	String	Yes	The header values. Separate multiple header values with commas (,). **Note** If you want to delete a response header, set the header value to null.	no-cache
header_operation_type	String	No	The operation that you want to perform. Valid values: ○ add: adds a response header. ○ delete: deletes a response header. ○ modify: modifies a response header. ○ rewrite: rewrites a response header.	add
duplicate	String	No	Specifies whether duplicate response headers are allowed. If header_operation_type is set to add, you must set this parameter. ○ on: Duplicate response headers are allowed. ○ off: Duplicate response headers are not allowed.	off
header_source	String	No	The header value that you want to replace. If header_operation_type is set to rewrite, you must set this parameter. Regular expressions are supported.	value1

Parameter	Type	Required	Description	Example
header_destination	String	No	The header value that is used to replace the original header value. If header_operation_type is set to rewrite, you must set this parameter.	value123
match_all	String	No	The replace mode. If header_operation_type is set to rewrite, you must specify a match mode. ○ on: replaces all matching values. All header values that match the search condition are replaced. ○ off: replaces only the first matching value. Only the first value that matches the search condition is replaced.	/
access_origin_control	String	No	Specifies whether to enable cross-origin resource sharing (CORS). Valid values: ○ on: enables CORS. ○ off: disables CORS.	/

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "header_operation_type",
            "argValue": "add"
        }, {
            "argName": "key",
            "argValue": "Cache-Control"
        }, {
            "argName": "value",
            "argValue": "no-cache"
        }, {
            "argName": "duplicate",
            "argValue": "off"
        }],
        "functionName": "set_resp_header"
    }],
    "DomainNames": "example.com"
}
```

filetype_force_ttl_code

- Feature description: configures a TTL for HTTP status codes of files. For more information, see Create a cache expiration rule for HTTP status codes.
- Feature ID (FunctionID/FuncId): 63.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
file_type	String	Yes	The file name extensions, which are case-sensitive. Separate multiple file name extensions with commas (,). Example: jpg,txt.	jpg
code_string	String	Yes	The HTTP status codes and their TTL values. The TTL is measured in seconds. The maximum TTL is three years. Separate multiple key-value pairs with commas (,). Example: 302=0,301=0,4xx=2.	403=10

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "file_type",
            "argValue": "jpg"
        }, {
            "argName": "code_string",
            "argValue": "403=10"
        }],
        "functionName": "filetype_force_ttl_code"
    }],
    "DomainNames": "example.com"
}
```

path_force_ttl_code

- Feature description: configures a TTL value for HTTP status codes of directories. For more information, see Create a cache expiration rule for HTTP status codes.
- Feature ID (FunctionID/FuncId): 65.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
path	String	Yes	The directory. It must start with a forward slash (/). Example: /image.	/example/demo
code_string	String	Yes	The HTTP status codes and their TTL values. The TTL is measured in seconds. The maximum TTL is three years. Separate multiple key-value pairs with commas (,). Example: 302=0,301=0,4xx=2.	403=10,404=15

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "path",
            "argValue": "/example/demo"
        }, {
            "argName": "code_string",
            "argValue": "403=10,404=15"
        }],
        "functionName": "path_force_ttl_code"
    }],
    "DomainNames": "example.com"
}
```

host_redirect

- Feature description: configures a URI rewrite rule. For more information, see Create a URI rewrite rule.
- Feature ID (FunctionID/FuncId): 43.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
regex	String	Yes	The URI that you want to rewrite. It must start with a forward slash (/) and cannot contain http:// or a domain name. You can use Perl Compatible Regular Expressions (PCRE) to specify the URI, for example, ^/hello$.	^/hello$

Parameter	Type	Required	Description	Example
replacement	String	Yes	The final URI. It must start with a forward slash (/) and cannot contain http:// or a domain name.	/hello/test
flag	String	Yes	The operation that you want DCDN nodes to perform after a URI is rewritten. Valid values: ○ redirect: If the URI in a request matches the current rule, DCDN returns the HTTP 302 status code and the request is redirected to the final URI. After the current rule is executed, the request is matched against other rules. ○ break: If the URI in a request matches the current rule, the request is redirected to the final URI. After the current rule is executed, other rules are skipped.	redirect

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "flag",
            "argValue": "redirect"
        }, {
            "argName": "regex",
            "argValue": "^/hello$"
        }, {
            "argName": "replacement",
            "argValue": "/hello/test"
        }],
        "functionName": "host_redirect"
    }],
    "DomainNames": "example.com"
}
```

HTTPS settings

https_force

- Feature description: configures URL redirection to HTTPS. For more information, see Configure force redirect.
- Feature ID (FunctionID/FuncId): 44.
- The following table describes the parameter.

Parameter	Type	Required	Description	Example
enable	String	Yes	Specifies whether to enable URL redirection to HTTPS. Valid values: ○ on: enables URL redirection to HTTPS. ○ off: disables URL redirection to HTTPS.	on

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "enable",
            "argValue": "on"
        }],
        "functionName": "https_force"
    }],
    "DomainNames": "example.com"
}
```

http_force

- Feature description: configures URL redirection to HTTP. For more information, see Configure force redirect.
- Feature ID (FunctionID/FuncId): 45.
- The following table describes the parameter.

Parameter	Type	Required	Description	Example
enable	String	Yes	Specifies whether to enable URL redirection to HTTP. Valid values: ○ on: enables URL redirection to HTTP. ○ off: disables URL redirection to HTTP.	on

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "enable",
            "argValue": "on"
        }],
        "functionName": "http_force"
    }],
    "DomainNames": "example.com"
}
```

https_option

- Feature description: configures basic HTTPS parameters. For more information, see Configure an SSL certificate, Enable HTTP/2, and Configure OCSP stapling.
- Feature ID (FunctionID/FuncId): 78.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
http2	String	No	Specifies whether to enable HTTP/2. Valid values: ○ on: enables HTTP/2. ○ off: disables HTTP/2.	on
ocsp_stapling	String	No	Specifies whether to enable Online Certificate Status Protocol (OCSP) stapling. Valid values: ○ on: enables OCSP stapling. ○ off: disables OCSP stapling.	on

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "http2",
            "argValue": "on"
        }, {
            "argName": "ocsp_stapling",
            "argValue": "on"
        }],
        "functionName": "https_option"
    }],
    "DomainNames": "example.com"
}
```

https_tls_version

- Feature description: configures a Transport Layer Security (TLS) version. For more information, see Configure TLS version control.
- Feature ID (FunctionID/FuncId): 110.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
tls10	String	No	Specifies whether to enable TLS v1.0. Default value: on. Valid values: ○ on: enables TLS v1.0. ○ off: disables TLS v1.0.	on
tls11	String	No	Specifies whether to enable TLS v1.1. Default value: on. Valid values: ○ on: enables TLS v1.1. ○ off: disables TLS v1.1.	on
tls12	String	No	Specifies whether to enable TLS v1.2. Default value: on. Valid values: ○ on: enables TLS v1.2. ○ off: disables TLS v1.2.	on
tls13	String	No	Specifies whether to enable TLS v1.3. Default value: on. Valid values: ○ on: enables TLS v1.3. ○ off: disables TLS v1.3.	on

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "tls10",
            "argValue": "on"
        }, {
            "argName": "tls11",
            "argValue": "on"
        }, {
            "argName": "tls12",
            "argValue": "on"
        }, {
            "argName": "tls13",
            "argValue": "on"
        }, ],
        "functionName": "https_tls_version"
    }],
    "DomainNames": "example.com"
}
```

HSTS

- Feature description: configures HTTP Strict Transport Security (HSTS). For more information, see Configure HSTS.
- Feature ID (FunctionID/FuncId): 112.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
enabled	String	Yes	Specifies whether to enable HSTS. Valid values: ○ on: enables HSTS. ○ off: disables HSTS.	on
https_hsts_max_age	Integer	Yes	The TTL, in seconds. **Note** We recommend that you set the TTL to 5184000 seconds (60 days).	5184000
https_hsts_include_subdomains	String	No	Specifies whether you want the HSTS header to include subdomains. Valid values: on and off. **Note** Proceed with caution when you enable this feature. Make sure that HTTPS is enabled for all the subdomains of the accelerated domain name. Otherwise, the HTTPS URLs to which requests are redirected from the subdomains become inaccessible.	off

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "enabled",
            "argValue": "on"
        }, {
            "argName": "https_hsts_max_age",
            "argValue": "5184000"
        }, {
            "argName": "https_hsts_include_subdomains",
            "argValue": "off"
        }],
        "functionName": "HSTS"
    }],
    "DomainNames": "example.com"
}
```

Access control settings

referer_white_list_set

- Feature description: configures a Referer whitelist. For more information, see Configure a referer whitelist or blacklist to enable hotlink protection.
- Feature ID (FunctionID/FuncId): 1.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
refer_domain_allow_list	String	Yes	The domain names that you want to add to the Referer whitelist. You can specify one or more domain names and separate them with commas (,).	`example.aliyundoc.com,demo.aliyundoc.com`
allow_empty	String	Yes	Specifies whether requests with an empty Referer header are allowed to access DCDN resources. Valid values: ○ on: allows requests with an empty Referer header. ○ off: does not allow requests with an empty Referer header.	off

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "allow_empty",
            "argValue": "off"
        }, {
            "argName": "refer_domain_allow_list",
            "argValue": "example.aliyundoc.com,demo.aliyundoc.com"
        }],
        "functionName": "referer_white_list_set"
    }],
    "DomainNames": "example.com"
}
```

referer_black_list_set

- Feature description: configures a Referer blacklist. For more information, see Configure a referer whitelist or blacklist to enable hotlink protection.
- Feature ID (FunctionID/FuncId): 5.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
refer_domain_deny_list	String	Yes	The domain names that you want to add to the Referer blacklist. You can specify one or more domain names and separate them with commas (,).	`example.aliyundoc.com,demo.aliyundoc.com`
allow_empty	String	Yes	Specifies whether requests with an empty Referer header are allowed to access DCDN resources. Valid values: ○ on: allows requests with an empty Referer header. ○ off: does not allow requests with an empty Referer header.	off

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "allow_empty",
            "argValue": "off"
        }, {
            "argName": "refer_domain_deny_list",
            "argValue": "example.aliyundoc.com,demo.aliyundoc.com"
        }],
        "functionName": "referer_black_list_set"
    }],
    "DomainNames": "example.com"
}
```

ip_black_list_set

- Feature description: configures an IP address blacklist. For more information, see Configure an IP address blacklist or whitelist.
- Feature ID (FunctionID/FuncId): 13.
- The following table describes the parameter.

Parameter	Type	Required	Description	Example
ip_list	String	Yes	The IP addresses that you want to add to the blacklist. You can specify one or more IP addresses and separate them with commas (,).	192.168.0.1

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "ip_list",
            "argValue": "192.168.0.1"
        }],
        "functionName": "ip_black_list_set"
    }],
    "DomainNames": "example.com"
}
```

ip_allow_list_set

- Feature description: configures an IP address whitelist. For more information, see Configure an IP address blacklist or whitelist.
- Feature ID (FunctionID/FuncId): 69.
- The following table describes the parameter.

Parameter	Type	Required	Description	Example
ip_list	String	Yes	The IP addresses that you want to add to the whitelist. You can specify one or more IP addresses and separate them with commas (,).	192.168.0.1/24

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "ip_list",
            "argValue": "192.168.0.1/24"
        }],
        "functionName": "ip_allow_list_set"
    }],
    "DomainNames": "example.com"
}
```

aliauth

- Feature description: configures URL authentication. For more information, see Configure URL authentication.
- Feature ID (FunctionID/FuncId): 25.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
auth_m3u8	String	No	Specifies whether to enable M3U8 rewrite. M3U8 rewrite authenticates TS files. If M3U8 rewrite is disabled, access to TS files may be denied. Valid values: on and off. Default value: on.	on
auth_type	String	Yes	The authentication method. Valid values: ○ no_auth: disables URL authentication. ○ type_a: enables authentication method A. ○ type_b: enables authentication method B. ○ type_c: enables authentication method C.	type_a
auth_key1	String	Yes	The cryptographic key 1. The key must be 16 to 128 characters in length, and can contain letters and digits.	1234567890123456789
auth_key2	String	No	The cryptographic key 2. The key must be 16 to 128 characters in length, and can contain letters and digits.	1234567890123456789
ali_auth_delta	Integer	No	The validity period of the encrypted URLs. Unit: seconds. Default value: 1800.	1800

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "auth_type",
            "argValue": "type_a"
        }, {
            "argName": "auth_key1",
            "argValue": "1234567890123456789"
        }, {
            "argName": "auth_key2",
            "argValue": "1234567890123456789"
        }, {
            "argName": "ali_auth_delta",
            "argValue": 1800
        }],
        "functionName": "aliauth"
    }],
    "domainNames": "example.com"
}
```

ali_ua

- Feature description: configures a User-Agent whitelist or blacklist. For more information, see Configure a User-Agent blacklist or whitelist.
- Feature ID (FunctionID/FuncId): 58.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
ua	String	Yes	The user agents that you want to add to the list. You can use asterisks (*) and specify multiple values. Separate values with vertical bars (|). Example: `*curl*|*IE*|*chrome*|*firefox*`.	*curl*|*IE*|*chrome*|*firefox*
type	String	Yes	The type of list. Valid values: ○ black: blacklist ○ white: whitelist **Note** The blacklist and whitelist are mutually exclusive. You can enable only one of them at the same time.	black

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "ua",
            "argValue": "*curl*|*IE*|*chrome*|*firefox*"
        }, {
            "argName": "type",
            "argValue": "black"
        }],
        "functionName": "ali_ua"
    }],
    "DomainNames": "example.com"
}
```

Performance improvements

set_hashkey_args

- Feature description: retains URL parameters. For more information, see Configure the parameter filtering feature.

- Feature ID (FunctionID/FuncId): 19.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
hashkey_args	String	No	The parameters that you want to retain. Separate multiple parameters with commas (,). You can specify up to 10 parameters.	key1,key2
disable	String	Yes	Specifies whether you want to ignore all parameters. Default value: off. Valid values: ○ on: ignores all parameters. Only the Add rule takes effect. The Delete, Retain, and Modify rules do not take effect. ○ off: does not ignore parameters. The Retain, Add, and Delete rules remain effective. **Note** The hashkey_args setting has a higher priority. Even if you have set this parameter to on, the parameters specified by hashkey_args are retained.	on
keep_oss_args	String	Yes	Specifies whether you want to retain parameters during back-to-origin routing. Valid values: ○ on: retains all parameters during back-to-origin routing. ○ off: The parameters retained during back-to-origin routing are the same as those in hashkey.	on

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "hashkey_args",
            "argValue": ""
        }, {
            "argName": "keep_oss_args",
            "argValue": "on"
        }, {
            "argName": "disable",
            "argValue": "on"
        }],
        "functionName": "set_hashkey_args"
    }],
    "DomainNames": "example.com"
}
```

gzip

- Feature description: configures Gzip compression. For more information, see Configure intelligent compression.
- Feature ID (FunctionID/FuncId): 35.
- The following table describes the parameter.

Parameter	Type	Required	Description	Example

Parameter	Type	Required	Description	Example
enable	String	Yes	Specifies whether to enable Gzip compression. Valid values: ○ on: enables Gzip compression. ○ off: disables Gzip compression.	on

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "enable",
            "argValue": "on"
        }],
        "functionName": "gzip"
    }],
    "DomainNames": "example.com"
}
```

tesla

- Feature description: configures HTML optimization. For more information, see Configure HTML optimization.
- Feature ID (FunctionID/FuncId): 16.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
enable	String	Yes	Specifies whether to enable HTML optimization. Valid values: ○ on: optimizes the HTML page. ○ off: does not optimize the HTML page.	on
trim_js	String	No	Specifies whether to optimize the JavaScript code of HTML pages. Default value: off. Valid values: ○ on: optimizes the JavaScript code of HTML pages. ○ off: does not optimize the JavaScript code of HTML pages.	off
trim_css	String	No	Specifies whether to optimize the CSS code of HTML pages. Default value: off. Valid values: ○ on: optimizes the CSS code of HTML pages. ○ off: does not optimize the CSS code of HTML pages.	off

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "enable",
            "argValue": "on"
        }, {
            "argName": "trim_css",
            "argValue": "off"
        }, {
            "argName": "trim_js",
            "argValue": "off"
        }],
        "functionName": "tesla"
    }],
    "DomainNames": "example.com"
}
```

brotli

- Feature description: configures Brotli compression. For more information, see Configure Brotli compression.
- Feature ID (FunctionID/FuncId): 97.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
enable	String	Yes	Specifies whether to enable Brotli compression. Valid values: ○ on: enables Brotli compression. ○ off: disables Brotli compression.	on
brotli_level	Integer	No	The compression level. ○ Default value: 1. ○ Valid values: 1 to 11. A greater value indicates a higher compression level.	1

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "enable",
            "argValue": "on"
        }, {
            "argName": "brotli_level",
            "argValue": "1"
        }],
        "functionName": "brotli"
    }],
    "DomainNames": "example.com"
}
```

Video-related settings

range

- Feature description: configures range origin fetch. For more information, see Configure range origin fetch.
- Feature ID (FunctionID/FuncId): 31.
- The following table describes the parameter.

Parameter	Type	Required	Description	Example

Parameter	Type	Required	Description	Example
enable	String	Yes	Specifies whether to enable range origin fetch. Valid values: ○ on: enables range origin fetch. ○ off: disables range origin fetch. ○ force: enables range origin fetch by force.	on

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "enable",
            "argValue": "on"
        }],
        "functionName": "range"
    }],
    "DomainNames": "example.com"
}
```

video_seek

- Feature description: configures video seeking. For more information, see Configure video seeking.
- Feature ID (FunctionID/FuncId): 30.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
enable	String	Yes	Specifies whether to enable video seeking. Valid values: ○ on: enables video seeking. ○ off: disables video seeking.	on
flv_seek_by_time	String	No	Specifies whether to enable video seeking by time for Flash Video (FLV) files. Valid values: ○ on: enables video seeking by time for FLV files. ○ off: disables video seeking by time for FLV files.	on
mp4_seek_start	String	No	Sets custom start parameters for MP4 files.	mp4starttime
mp4_seek_end	String	No	Sets custom end parameters for MP4 files.	mp4endtime
flv_seek_start	String	No	Sets custom start parameters for FLV files.	flvstarttime
flv_seek_end	String	No	Sets custom end parameters for FLV files.	flvendtime

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "enable",
            "argValue": "on"
        }],
        "functionName": "video_seek"
    }],
    "DomainNames": "example.com"
}
```

ali_remove_args

- Feature description: deletes URL parameters. For more information, see Configure the parameter filtering feature.
- Feature ID (FunctionID/FuncId): 75.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
ali_remove_args	String	Yes	The parameters that you want to delete. Separate multiple parameters with spaces. **Note** The parameters that are retained are used as the URL parameters in hashkey.	test
keep_oss_args	String	Yes	Specifies whether you want to retain parameters during back-to-origin routing. Valid values: ○ on: retains all parameters during back-to-origin routing. ○ off: The parameters retained during back-to-origin routing are the same as those in hashkey.	off

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "ali_remove_args",
            "argValue": "test"
        }, {
            "argName": "keep_oss_args",
            "argValue": "off"
        }],
        "functionName": "ali_remove_args"
    }],
    "DomainNames": "example.com"
}
```

Security configuration

ddos_domain

- Feature description: configures DDoS mitigation. For more information, see Configure DDoS mitigation.
- Feature ID (FunctionID/FuncId): 209.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example

Parameter	Type	Required	Description	Example
enable	String	Yes	Specifies whether to enable Anti-DDoS. Valid values: ○ on: enables Anti-DDoS. ○ off: disables Anti-DDoS.	on
dispatch_qps	String	Yes	The QPS threshold. ○ Valid values: 2000 to 50000. ○ Default value: 20000.	20000
checkurl	String	Yes	Specify the path of the domain name that needs health check. Default value: `/`, which indicates the default root directory of the domain name.	/*/examplefile.txt

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "enable",
            "argValue": "on"
        }, {
            "argName": "dispatch_qps",
            "argValue": "20000"
        }, {
            "argName": "checkurl",
            "argValue": "/*/examplefile.txt"
        }],
        "functionName": "ddos_domain"
    }],
    "DomainNames": "example.com"
}
```

WebSocket

websocket

- Feature description: configures WebSocket. For more information, see Configure WebSocket.
- Feature ID (FunctionID/FuncId): 144.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
enable	String	Yes	Specifies whether to enable WebSocket. Valid values: ○ on: enables WebSocket. ○ off: disables WebSocket.	on

Parameter	Type	Required	Description	Example
origin_scheme	String	No	Specifies a protocol over which requests are redirected to the origin server when WebSocket is used. Valid values: ○ http: DCDN redirects requests to the origin server over HTTP. ○ https: DCDN redirects requests to the origin server over HTTPS. Port 443 of the origin server must be open. ○ follow: DCDN uses the same protocol (HTTP or HTTPS) as the client to redirect requests to the origin server. Port 443 or 80 of the origin server must be open. Note The default value is follow.	http
heartbeat	String	No	The connection timeout period. ○ Valid values: 1 to 300. ○ Unit: seconds. ○ Default value: 60.	60

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "enable",
            "argValue": "on"
        }, {
            "argName": "origin_scheme",
            "argValue": "http"
        }, {
            "argName": "heartbeat",
            "argValue": "60"
        }],
        "functionName": "websocket"
    }],
    "DomainNames": "example.com"
}
```

IP Application Accelerator

protogw

- Feature description: configures IP Application Accelerator (IPA). For more information, see What is IP Application Accelerator?.
- Feature ID (FunctionID/FuncId): 163.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example

Parameter	Type	Required	Description	Example
realip	String	Yes	Specifies whether to enable the passthrough of client IP addresses. Valid values: ○ off: disables the passthrough of client IP addresses. ○ toa: The TCP Option Address (TOA) kernel module inserts the source IP address of a client to the option field in the TCP protocol. Before you use this method, make sure that the origin server has the TOA kernel module installed. No modifications are required for the application. ○ pp: The proxy protocol inserts the source IP address of a client into the TCP payload. By default, the proxy protocol is supported by the open source versions of NGINX. For other applications on the origin server, make sure that the proxy protocol is supported.	toa
port	String	Yes	The acceleration port. Note ○ The following ports are not supported: 22, 123, 161, 162, 179, 830, 2049, 2601, 2605, 3389, 5049, 7547, 8082, 8087, 8182, 8888, 9998, 15772, 15776, 15778, 15779, 18053, 18098, 18099, 18888, 19313, 19777, and 56667. ○ If you want to use port 80 and port 443, submit a ticket.	8443
mux	String	No	Specifies whether to enable the multiplexing feature for ports. Valid values: ○ on: enables the multiplexing feature for ports. ○ off: disables the multiplexing feature for ports.	off

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "realip",
            "argValue": "toa"
        }, {
            "argName": "port",
            "argValue": "8443"
        }, {
            "argName": "mux",
            "argValue": "off"
        }],
        "functionName": "protogw"
    }],
    "DomainNames": "example.com"
}
```

EdgeScript settings

edge_function

- Feature description: configures EdgeScript. For more information, see EdgeScript overview.
- Feature ID (FunctionID/FuncId): 180.
- The following table describes the parameters.

Parameter	Type	Required	Description	Example
rule	String	Yes	The domain-specific language (DSL) script.	if eq($uri, '/') {\n rewrite('https://example.com/index.html', 'redirect')\n}
pri	Integer	Yes	The priority. Valid values: 0 to 999. A smaller value indicates a higher priority. **Note** The priorities of the head and foot execution positions are irrelevant to each other.	0
enable	String	Yes	Specifies whether you want to enable the script. Valid values: ○ on: enables the script. ○ off: disables the script.	on
name	String	Yes	The name of the script. The name can contain only letters and underscores (_).	test
pos	String	No	The position where you want to execute the script. Default value: head. Valid values: ○ head: The script is executed at the head of the request processing pipeline. ○ foot: The script is executed at the foot of the request processing pipeline.	head

Parameter	Type	Required	Description	Example
brk	String	No	Specifies whether you want to skip other scripts after the current script is executed. Default value: off. Valid values: ○ on: After the current script is matched, the scripts after the specified position are skipped. ○ off: If the current script is matched, the system continues to match the request against other scripts.	off
option	String	No	The extension.	This parameter is left empty.
grammar	String	No	The script syntax. Valid values: es2 and js. Default value: es2.	/
jsmode	String	No	The JavaScript execution mode. Default value: bypass. Valid values: ○ redirect: block mode ○ bypass: bypass mode	/

- Examples:

```
{
    "Functions": [{
        "functionArgs": [{
            "argName": "name",
            "argValue": "test"
        }, {
            "argName": "rule",
            "argValue": "if eq($uri, '/') {\n    rewrite('https://example.com/index.html', 'redirect')\n}"
        }, {
            "argName": "pri",
            "argValue": "0"
        }, {
            "argName": "pos",
            "argValue": "head"
        }, {
            "argName": "enable",
            "argValue": "on"
        }, {
            "argName": "brk",
            "argValue": "off"
        }, {
            "argName": "option",
            "argValue": ""
        }],
        "functionName": "edge_function"
    }],
    "DomainName": "example.com"
}
```

6.20. Usage notes on ConfigId

After you call the BatchSetDcdnDomainConfigs operation to configure features for a domain name, a unique configuration ID (ConfigId) is generated. You can use this configuration ID to update or delete settings. This topic describes how to generate, query, and use a configuration ID.

Usage notes on ConfigId

Feature	Description
Generate a configuration ID	Call the BatchSetDcdnDomainConfigs operation. If the operation succeeds, a configuration ID is generated.
Query configuration IDs	Call the DescribeDcdnDomainConfigs operation. If the operation succeeds, a configuration ID is returned.
Use a configuration ID to update settings	Call the BatchSetDcdnDomainConfigs operation to update settings based on a specified configuration ID.
Use a configuration ID to delete settings	Call the DeleteDcdnSpecificConfig operation to delete settings based on a specified configuration ID.

Generate a configuration ID

- Configure a single feature rule: Call the BatchSetDcdnDomainConfigs operation to configure a single feature rule for a domain name. If the operation succeeds, a configuration ID is returned.

  Scenario: The domain name `example.com` is used as an example. Enable Dynamic Route for CDN (DCDN) nodes to inform clients that the content returned to the clients does not need to be cached.

  Example: Set the set_resp_header parameter for the domain name `example.com` : key=Cache-Control,value=no-cache. Sample request:

```
action: BatchSetDcdnDomainConfigs
params: {
    "Functions": [{
        "functionArgs": [{
                "argName": "value",
                "argValue": "no-cache"
            },
            {
                "argName": "key",
                "argValue": "Cache-Control"
            }
        ],
        "functionName": "set_req_header"
    }],
    "domainNames": "example.com"
}
product: dcdn
```

  If the operation succeeds, a configuration ID is returned.

```
{
    "code": "200",
    "data": {
"DomainConfigList": {
            "DomainConfigModel": [
                {
                    "FunctionName": "set_req_header",
                    "DomainName": "example.com",
                    "ConfigId": 19571990834****
                }
            ]
        },
        "RequestId": "4FF61A1D-E697-5E6C-9E5D-7D1E1529****"
    },
    "httpStatusCode": "200",
    "requestId": "4FF61A1D-E697-5E6C-9E5D-7D1E1529****",
    "successResponse": true
}
```

- Some features support more than one rule. The following example shows how to add multiple rules at a time:

Example: Set the set_resp_header parameter for the domain name `example.aliyundoc.com` and add the following two rules:

- Rule 1: Enable DCDN nodes to inform clients that the content returned to the clients does not need to be cached.

  Parameter settings: key=Cache-Control,value=no-cache.

- Rule 2: Enable DCDN nodes to inform clients that the content returned to the clients is of the text type.

  Parameter settings: key=Content-Type,value=text/plain.

Sample request:

```
action: BatchSetDcdnDomainConfigs
params: {
    "domainNames": "example.aliyundoc.com",
    "functions": [
        {
            "functionArgs": [
                {
                    "ArgValue": "Cache-Control",
                    "ArgName": "key"
                },
                {
                    "ArgValue": "no-cache",
                    "ArgName": "value"
                }
            ],
           "functionName": "set_resp_header"
        },
        {
            "functionArgs": [
               {
                    "ArgValue": "Content-Type",
                    "ArgName": "key"
                },
                {
                    "ArgValue": "text/plain",
                    "ArgName": "value"
                }
            ],
            "functionName": "set_resp_header"
        }
    ]
}
product: dcdn
```

If the operation succeeds, two configuration IDs are returned.

```
{
    "code":"200",
    "data":{
        "DomainConfigList":{
            "DomainConfigModel":[
                {
                    "FunctionName":"set_req_header",
                    "DomainName":"example.aliyundoc.com",
                    "ConfigId":20953663204****
                },
                {
                    "FunctionName":"set_req_header",
                    "DomainName":"example.aliyundoc.com",
                    "ConfigId":20953663204****
                }
            ]
        },
        "RequestId":"69A79ACE-FD8E-5993-9CEA-7AAB2F085363"
    },
    "httpStatusCode":"200",
    "requestId":"69A79ACE-FD8E-5993-9CEA-7AAB2F085363",
    "successResponse":true
}
```

Query configuration IDs

Call the DescribeDcdnDomainConfigs operation. If the operation succeeds, a configuration ID is returned.

Example: Query the settings of set_resp_header for the domain name `example.aliyundoc.com`. Sample request:

```
action: DescribeDcdnDomainConfigs
params: {
    "domainName": "example.aliyundoc.com",
    "functionNames": "set_req_header"
}
product: dcdn
```

A configuration ID is returned.

```
{
    "code": "200",
    "data": {
        "RequestId": "51B7DF03-A7AE-56ED-BF1E-D16F6A6B****",
        "DomainConfigs": {
            "DomainConfig": [{
                "Status": "configuring",
                "FunctionName": "set_req_header",
                "FunctionArgs": {
                    "FunctionArg": [{
                            "ArgValue": "no-cache",
                            "ArgName": "value"
                        },
                        {
                            "ArgValue": "Cache-Control",
                            "ArgName": "key"
                        }
                    ]
                },
                "ConfigId": 19572306654 ** **
            }]
        }
    },
    "httpStatusCode": "200",
    "requestId": "51B7DF03-A7AE-56ED-BF1E-D16F6A6B****",
    "successResponse": true
}
```

Use a configuration ID to update settings

Call the BatchSetDcdnDomainConfigs to update settings based on a specified configuration ID.

Scenario: The domain name `example.com` is used as an example. Enable clients to cache content retrieved from DCDN nodes for one hour.

Example: Set the set_resp_header parameter for the domain name `example.com` : key=Cache-Control,value=max-age=3600. Sample request:

```
action: BatchSetDcdnDomainConfigs
params: {
    "Functions": [
        {
            "functionArgs": [
                {
                    "argName": "value",
                    "argValue": "max-age=3600"
                },
                {
                    "argName": "key",
                    "argValue": "Cache-Control"
                }
            ],
            "functionName": "set_req_header",
            "ConfigId": 19571990834****
        }
    ],
    "domainNames": "example.com"
}
product: dcdn
```

Use a configuration ID to delete settings

Call the DeleteDcdnSpecificConfig operation to delete settings based on a specified configuration ID.

Example: Delete the specified settings of set_req_header for the domain name `example.aliyundoc.com` . Sample request:

```
action: DeleteDcdnSpecificConfig
params: {
    "ConfigId": 19571990834****,
    "functionName": "set_req_header",
    "domainName": "example.aliyundoc.com"
}
product: dcdn
```

7.Domain name verification

7.1. VerifyDcdnDomainOwner

Varifies the ownership of a specified domain name.

> **Note** The maximum number of times that each user can call this operation per second is 100.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	VerifyDcdnDomainOwner	The operation that you want to perform. Set the value to **VerifyDcdnDomainOwner**.
DomainName	String	Yes	**example**.com	The domain name of which you want to verify the ownership. You can specify only one domain name in each call.
VerifyType	String	Yes	dnsCheck	The verification method, value: • *dnsCheck*: DNS verification • *fileCheck*: File verification

Response parameters

Parameter	Type	Sample response	Description
Content	String	verify_dffeb6610035dcb77b413a59c32cd9**	The verification information.
RequestId	String	34AB41F1-04A5-496F-8C8D-634BDBE6A9FB	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=VerifyDcdnDomainOwner
&DomainName=**example**.com
&VerifyType=dnsCheck
&<Common request parameters>
```

Sample success responses

`XML` format

```
<VerifyDcdnDomainOwnerResponse>
  <Content>verify_dffeb6610035dcb77b413a59c32cd91f</Content>
  <RequestId>34AB41F1-04A5-496F-8C8D-634BDBE6A9FB</RequestId>
</VerifyDcdnDomainOwnerResponse>
```

`JSON` format

```
{
  "Content": "verify_dffeb6610035dcb77b413a59c32cd9**",
  "RequestId": "34AB41F1-04A5-496F-8C8D-634BDBE6A9FB"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	DomainOwnerVerifyFail	Owner verification of the root domain failed.	The error message returned because you must prove the ownership of the domain name. The first time a domain name is added to Alibaba Cloud CDN, you must prove the ownership by adding a DNS record or uploading a verification file.

For a list of error codes, visit the API Error Center.

7.2. DescribeDcdnVerifyContent

Queries the ownership verification content.

> **Note** The maximum number of times that each user can call this operation per second is 100.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnVerifyContent	The operation that you want to perform. Set the value to **DescribeDcdnVerifyContent**.
DomainName	String	Yes	**example**.com	The domain name for which you want to query the ownership verification content. You can specify only one domain name in one request.

Response parameters

Parameter	Type	Example	Description
Content	String	verify_dffeb6610035dcb78b413a59c31cd9**	The verification content.
RequestId	String	34AB41F1-04A5-496F-8C8D-634BDBE6A9FB	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/? Action=DescribeDcdnVerifyContent
&DomainName=**example**.com
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnVerifyContentResponse>
  <Content>verify_dffeb6610035dcb78b413a59c31cd91f</Content>
  <RequestId>34AB41F1-04A5-496F-8C8D-634BDBE6A9FB</RequestId>
</DescribeDcdnVerifyContentResponse>
```

`JSON` format

```
{
  "Content": "verify_dffeb6610035dcb78b413a59c31cd9**",
  "RequestId": "34AB41F1-04A5-496F-8C8D-634BDBE6A9FB"
}
```

Error codes

For a list of error codes, visit the API Error Center.

8.Refresh and prefetch

8.1. RefreshDcdnObjectCaches

Refreshes specified objects on cache nodes. The objects can be included in the content of files or URLs. You can refresh multiple URLs in each request.

Note

- Alibaba Cloud Dynamic Route for CDN (DCDN) supports POST requests in which parameters are sent as a form.
- You can call the RefreshDcdnObjectCaches operation to refresh content and call the PreloadDcdnObjectCaches operation to prefetch content.
- By default, each Alibaba Cloud account can refresh content from a maximum of 10,000 URLs and 100 directories per day, including subdirectories. If the daily peak bandwidth value of your workloads exceeds 200 Mbit/s, you can submit a ticket to request a quota increase. After your application is approved, Alibaba Cloud increases the quota based on your business requirements.
- You can specify up to 1,000 URLs or 100 directories that you want to refresh in each request.
- You can refresh a maximum of 1,000 URLs per minute for each domain name.
- You can call this operation up to 30 times per second per account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	RefreshDcdnObjectCaches	The operation that you want to perform. Set the value to **RefreshDcdnObjectCaches**.
ObjectPath	String	Yes	example.com/example.txt	The path of the objects that you want to refresh. Separate multiple URLs with line feed characters (\n) or a pair of carriage return and line feed characters (\r\n).
ObjectType	String	No	File	The refresh type. Default value: File. Valid values: • **File**: URL • **Directory**: directory

Response parameters

Parameter	Type	Example	Description
RefreshTaskId	String	95248880	The ID of the refresh task. Multiple IDs are separated by commas (,).
RequestId	String	E5BD4B50-7A02-493A-AE0B-97B9024B4135	The ID of the request.

Examples

Sample requests

```
https://dcdn.aliyuncs.com?Action=RefreshDcdnObjectCaches
&ObjectPath=example.com/example.txt
&ObjectType=File
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RefreshDcdnObjectCachesResponse>
   <PushTaskId>95248880</PushTaskId>
   <RequestId>E5BD4B50-7A02-493A-AE0B-97B9024B4135</RequestId>
</RefreshDcdnObjectCachesResponse>
```

`JSON` format

```
{
  "PushTaskId": "95248880",
  "RequestId": "E5BD4B50-7A02-493A-AE0B-97B9024B4135"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	SingleRequest.OverLimit	A maximum of 1000 URLs are supported for each request.	The error message returned because the maximum number of URLs in one request has been reached. You can specify up to 1,000 URLs in each request.
400	InvalidObjectType.Malformed	The specified ObjectType is invalid.	The error message returned because the value specified for the ObjectType parameter is invalid. Specify a valid value.
400	InvalidObjectPath.Malformed	The specified ObjectPath is invalid.	The error message returned because the value specified for the ObjectPath parameter is invalid. Specify a valid value.
400	QuotaExceeded.Refresh	Your refresh attempts have exceeded the daily limit.	The error message returned because the quota for refresh on the current day has exhausted. You can no longer perform the refresh operation on the current day. You can call the DescribeDcdnRefreshQuota operation to query the remaining quota of refresh requests for the current day.
400	InvalidExtensiveDomain.ValueNotSupported	The specified ExtensiveDomain is not supported.	The error message returned because wildcard domain names are not supported.
400	QuotaPerMinuteExceeded.Refresh	You tried to refresh too frequently; please try again later.	The error message returned because refresh requests are submitted at a high frequency. Try again later.
400	TooMany.Refresh	The refresh queue is full; please try again later.	The error message returned because the maximum number of refresh requests for a domain name has been reached. Try again later.

For a list of error codes, visit the API Error Center.

8.2. PreloadDcdnObjectCaches

Prefetches content from origin servers to L2 Dynamic Route for CDN (DCDN) nodes. This reduces workloads on origin servers because users can hit cache upon their first visits.

Description

- You can call the RefreshDcdnObjectCaches operation to refresh content and call the PreloadDcdnObjectCaches operation to prefetch content.
- DCDN supports POST requests in which parameters are sent as a form.
- By default, each Alibaba Cloud account can submit up to 1,000 URLs per day. If the daily peak bandwidth value of your workloads exceeds 200 Mbit/s, you can submit a ticket to request a quota increase. Alibaba Cloud reviews your application and then increases the quota accordingly.
- Each Alibaba Cloud account can submit up to 100 URLs in a request.
- The prefetch queue of each Alibaba Cloud account can contain up to 50,000 URLs. DCDN executes prefetch tasks based on the time at which you submit the URLs.
- The time that a prefetch task takes is based on the average size of the files to be prefetched. The smaller the average file size, the less time the prefetch task takes.
- You can call this operation up to 15 times per second per account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	PreloadDcdnObjectCaches	The operation that you want to perform. Set the value to **PreloadDcdnObjectCaches**.
ObjectPath	String	Yes	example.com/examplefile.txt	The path of the content that you want to prefetch. Separate multiple URLs with line feed characters (\n) or a pair of carriage return and line feed characters (\r\n).
Area	String	No	domestic	The acceleration region in which you want to prefetch content. If you do not specify a region, the value overseas is used. • **domestic**: Chinese mainland • **overseas**: outside the Chinese mainland
L2Preload	Boolean	No	true	Specifies whether to prefetch content to L2 DCDN nodes. Default value: false. Valid values: • **true**: prefetches content to nodes that include L2 DCDN nodes. • **false**: prefetches content to L2 DCDN nodes or L3 DCDN nodes.

Response parameters

Parameter	Type	Example	Description
PreloadTaskId	String	95248880	The ID of the prefetch task. If multiple task IDs are returned, the IDs are separated by commas (,).

Parameter	Type	Example	Description
RequestId	String	E5BD4B50-7A02-493A-AE0B-97B9024B4135	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com?Action=PreloadDcdnObjectCaches
&ObjectPath=example.com/examplefile.txt
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<PreloadDcdnObjectCachesResponse>
 <PushTaskId>95248880</PushTaskId>
 <RequestId>E5BD4B50-7A02-493A-AE0B-97B9024B4135</RequestId>
</PreloadDcdnObjectCachesResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "PushTaskId" : "95248880",
  "RequestId" : "E5BD4B50-7A02-493A-AE0B-97B9024B4135"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	SingleRequest.OverLimit	A maximum of 1000 URLs are supported for each request.	The error message returned because the maximum number of URLs in one request has been reached. You can specify a maximum of 1,000 URLs in each request.
400	QuotaExceeded.Preload	Your refresh attempts have exceeded the daily limit.	The error message returned because the maximum number of refresh and prefetch requests on the current day has been reached.
400	InvalidObjectPath.Malformed	The specified ObjectPath is invalid.	The error message returned because the value specified for the ObjectPath parameter is invalid. Specify a valid value.
400	InvalidExtensiveDomain.ValueNotSupported	The specified ExtensiveDomain is not supported.	The error message returned because wildcard domain names are not supported.
400	PreloadQueueFull	The warming queue is full; please try again later.	The error message returned because the maximum number of URLs of the objects that are being prefetched has been reached. Try again later.

For a list of error codes, visit the API Error Center.

8.3. DescribeDcdnRefreshQuota

You can call this operation to query the daily maximum number and remaining number of the URLs and directories that can be refreshed or prefetched.

> **Note**
> - You can refresh content of a specified URL to nodes by calling the **RefreshDcdnObjectCaches** operation and prefetch content from the origin to nodes by calling the **PreloadDcdnObjectCaches** operation.
> - The maximum number of times that each user can call this operation per second is 20.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnRefreshQuota	The operation that you want to perform. **Set the value to DescribeDcdnRefreshQuota**.

Response parameters

Parameter	Type	Example	Description
BlockQuota	String	100	The maximum number of URLs that can be blocked.
DirQuota	String	100	The maximum number of directories that can be refreshed each day.
DirRemain	String	99	The remaining number of directories that can be refreshed each day.
PreloadQuota	String	100	The maximum number of URLs that can be prefetched each day.
PreloadRemain	String	100	The remaining number of URLs that can be prefetched each day.
RequestId	String	42E0554B-80F4-4921-AED6-ACFB22CAAAD0	The ID of the request.
UrlQuota	String	2000	The maximum number of URLs that can be refreshed each day.
UrlRemain	String	1996	The remaining number of URLs that can be refreshed each day.
blockRemain	String	100	The remaining number of URLs that can be blocked.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=DescribeDcdnRefreshQuota
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnRefreshQuotaResponse>
    <DirQuota>100</DirQuota>
    <PreloadRemain>500</PreloadRemain>
    <DirRemain>100</DirRemain>
    <blockRemain>100</blockRemain>
    <RequestId>6F9961D6-EEAF-41A2-ABC4-2AE0A5570087</RequestId>
    <UrlQuota>2000</UrlQuota>
    <UrlRemain>2000</UrlRemain>
    <BlockQuota>100</BlockQuota>
    <PreloadQuota>500</PreloadQuota>
</DescribeDcdnRefreshQuotaResponse>
```

`JSON` format

```
{
    "DirQuota": "100",
    "PreloadRemain": "500",
    "DirRemain": "100",
    "blockRemain": "100",
    "RequestId": "6F9961D6-EEAF-41A2-ABC4-2AE0A5570087",
    "UrlQuota": "2000",
    "UrlRemain": "2000",
    "BlockQuota": "100",
    "PreloadQuota": "500"
}
```

Error code

For a list of error codes, visit the API Error Center.

8.4. DescribeDcdnRefreshTasks

Queries the status information about refresh or prefetch tasks. The maximum time range for a query is three days.

Note

- You can query the status information by task ID or URL.
- You can set both the **TaskId** parameter and the **ObjectPath** parameter to query. If you set neither the **TaskId** parameter nor the **ObjectPath** parameter, the data within the last three days on the first page is returned. By default, a maximum of 20 entries can be displayed on each page.
- If you set the **DomainName** or **Status** parameter, you must also set the **ObjectType** parameter.
- The maximum number of times that each user can call this operation per second is 10.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnRefreshTasks	The operation that you want to perform. Set the value to **DescribeDcdnRefreshTasks**.

Parameter	Type	Required	Example	Description
TaskId	String	No	704225667	The ID of the task. A task ID is assigned when you create a refresh or prefetch task.
ObjectPath	String	No	http://example.com/examplefile.txt	The path of the object. The path is used as a condition for an exact match.
PageNumber	Integer	No	2	The number of the page to return. Valid values: **1** to **100000**.
ObjectType	String	No	file	The type of task. • **file**: URL-based refresh. • **directory**: directory-based refresh. • **preload**: URL-based prefetch. If you set the **DomainName** or **TaskStatus** parameter, you must also set this parameter.
DomainName	String	No	example.com	The accelerated domain name. You can specify only one domain name in each call.
Status	String	No	Complete	The status of the task to be queried. • **Complete**: The task is completed. • **Refreshing**: The task is in progress. • **Failed**: The task failed.
PageSize	Integer	No	20	The number of entries to return on each page. Default value: **20**. Maximum value: **50**. Valid values: **1** to **50**.
StartTime	String	No	2017-01-01T12:12:20Z	The start of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0.
EndTime	String	No	2017-01-01T12:13:20Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0. **Note** The end time must be later than the start time.

Response parameters

Parameter	Type	Example	Description
PageNumber	Long	2	The page number of the returned page.
PageSize	Long	2	The number of entries returned on each page.

Parameter	Type	Example	Description
RequestId	String	174F6032-AA26-470D-B90E-36F0EB205BEE	The ID of the request.
Tasks	Array of Task		The returned list of tasks.
Task			
CreationTime	String	2014-11-27T08:23:22Z	The time when the task was created. The time is displayed in UTC.
Description	String	Internal Error	The type of error returned when the refresh or prefetch task has failed. • **InternalError**: An internal error occurred. • **OriginTimeout**: The response from the origin server timed out. • **OriginReturn StatusCode 5XX**: The origin server returned a 5XX error.
ObjectPath	String	http://example.com/examplefile.txt	The path of the object.
ObjectType	String	file	The type of task. • **file**: URL-based refresh • **path**: directory-based refresh • **preload**: URL-based prefetch
Process	String	10	The progress of the task in percentile.
Status	String	Complete	The status of the task. Valid values: • **Complete**: The task is completed. • **Refreshing**: The task is in progress. • **Failed**: The task failed. • **Pending**: The task is pending.
TaskId	String	123	The ID of the task.
TotalCount	Long	20	The number of returned tasks.

Examples

Sample requests

```
https://dcdn.aliyuncs.com?Action=DescribeDcdnRefreshTasks
&ObjectPath=http://example.com/examplefile.txt
&PageNumber=1
&PageSize=10
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnRefreshTasksResponse>
      <Tasks>
            <Task>
                  <CreationTime>2014-11-27T08:23:22Z</CreationTime>
                  <ObjectPath>http://example.com/examplefile.txt</ObjectPath>
                  <Status>Complete</Status>
                  <TaskId>704225667</TaskId>
                  <ObjectType>file</ObjectType>
                  <Process>100%</Process>
            </Task>
            <Task>
                  <CreationTime>2014-11-27T08:18:38Z</CreationTime>
                  <ObjectPath>http://example.edu/examplefile.txt</ObjectPath>
                  <Status>Complete</Status>
                  <TaskId>704222904</TaskId>
                  <ObjectType>file</ObjectType>
                  <Process>100%</Process>
            </Task>
      </Tasks>
      <PageNumber>1</PageNumber>
      <PageSize>10</PageSize>
      <TotalCount>2</TotalCount>
      <RequestId>174F6032-AA26-470D-B90E-36F0EB205BEE</RequestId>
</DescribeDcdnRefreshTasksResponse>
```

`JSON` format

```
{
    "Tasks" : {
        "Task" : [{
                "CreationTime" : "2014-11-27T08:23:22Z",
                "ObjectPath" : "http://example.com/examplefile.txt",
                "Status" : "Complete",
                "TaskId" : "704225667",
                "ObjectType" : "file",
                "Process" : "100%"
            }, {
                "CreationTime" : "2014-11-27T08:18:38Z",
                "ObjectPath" : "http://example.edu/examplefile.txt",
                "Status" : "Complete",
                "TaskId" : "704222904",
                "ObjectType" : "file",
                "Process" : "100%"
            }
        ]
    },
    "PageNumber" : 1,
    "PageSize" : 10,
    "TotalCount" : 2,
    "RequestId" : "174F6032-AA26-470D-B90E-36F0EB205BEE"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	InvalidTaskId.Malformed	The specified TaskId is invalid.	The error message returned because the specified task ID is invalid. Specify a valid task ID.
400	MissingParameter.ObjectType	The ObjectType parameter is required if DomainName or ObjectType is specified.	The error message returned because the ObjectType parameter must be specified.

HttpCode	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because the StartTime and EndTime parameters must be specified together.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the specified end time is earlier than the specified start time.
400	DomainNameOverLimit	A maximum of 500 domains are supported for each request.	The error message returned because the number of the specified domain names exceeds the upper limit (500). Send the request again after you specify a valid value.
400	InvalidStartTime.Malformed	The specified StartTime parameter is invalid.	The error message returned because the format of the specified start time is invalid. Specify a valid start time. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the specified end time is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the specified value of the StartTime parameter is not supported. Specify a valid value.
400	InvalidObjectType.ValueNotSupported	The specified ObjectType is not supported.	The error message returned because the specified ObjectType parameter is invalid. Specify a valid value.
400	InvalidStatus.ValueNotSupported	The specified Status is not supported.	The error message returned because the specified Status parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

8.5. DescribeDcdnUserQuota

Queries the resource quotas and the used resources.

> **Note** The maximum number of times that each user can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnUserQuota	The operation that you want to perform. Set the value to **DescribeDcdnUserQuota**.

Response parameters

Parameter	Type	Example	Description
BlockQuota	Integer	20	The maximum number of URLs that can be blocked.
BlockRemain	Integer	500	The remaining number of URLs that can be blocked.
DomainQuota	Integer	50	The maximum number of accelerated domains.
PreloadQuota	Integer	500	The maximum number of URLs that can be prefetched.
PreloadRemain	Integer	300	The remaining number of URLs that can be prefetched.
RefreshDirQuota	Integer	100	The maximum number of directories that can be refreshed.
RefreshDirRemain	Integer	100	The remaining number of directories that can be refreshed.
RefreshUrlQuota	Integer	100	The maximum number of URLs that can be refreshed.
RefreshUrlRemain	Integer	100	The remaining number of URLs that can be refreshed.
RequestId	String	BFFCDFAD-DACC-484E-9BE6-0AF3B3A0DD23	The ID of the request.

Examples

Sample requests

```
https://dcdn.aliyuncs.com?Action=DescribeDcdnUserQuota
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnUserQuotaResponse>
      <DomainQuota>20</DomainQuota>
      <RefreshUrlQuota>1000</RefreshUrlQuota>
      <RefreshDirQuota>500</RefreshDirQuota>
      <RefreshUrlRemain>500</RefreshUrlRemain>
      <RefreshDirRemain>300</RefreshDirRemain>
      <PreloadQuota>300</PreloadQuota>
      <PreloadRemain>100</PreloadRemain>
      <BlockQuota>100</BlockQuota>
      <BlockRemain>100</BlockRemain>
      <RequestId>BFFCDFAD-DACC-484E-9BE6-0AF3B3A0DD23</RequestId>
</DescribeDcdnUserQuotaResponse>
```

`JSON` format

```
{
    "DomainQuota" : 20,
    "RefreshUrlQuota" : 1000,
    "RefreshDirQuota" : 500,
    "RefreshUrlRemain" : 500,
    "RefreshDirRemain" : 300,
    "PreloadQuota" : 300,
    "PreloadRemain" : 100,
    "BlockQuota" : 100,
    "BlockRemain" : 100,
    "RequestId" : "BFFCDFAD-DACC-484E-9BE6-0AF3B3A0DD23"
}
```

Error codes

For a list of error codes, visit the API Error Center.

8.6. DescribeRefreshTaskById

Queries the status of refresh or prefetch tasks.

> **Note**
> - You can query data within the last three days.
> - The maximum number of times that each user can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameter

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnRefreshTaskById	The operation that you want to perform. Set the value to **DescribeDcdnRefreshTaskById**.
TaskId	String	Yes	113681**	The ID of the task that you want to query. You can query task IDs by performing the following operations: • Perform the RefreshDcdnObjectCaches operation to query refresh task IDs. • Perform the PreloadDcdnObjectCaches operation to query prefetch task IDs. **Note** You can specify at most 10 task IDs in each call. Separate IDs with commas (,).

Response parameters

Parameter	Data type	Sample response	Description
RequestId	String	E0C2EF95-B1EC-4C93-855E-2059A7DA2B7B	The ID of the request.

Parameter	Data type	Sample response	Description
Tasks	Array of CDNTask		A list of prefetch or refresh tasks.
CreationTime	String	2021-05-10T08:54:23Z	The time when the task was created. The time follows the ISO 8601 standard in the YYYY-MM-DDThh:mm:ssZ format. The time is displayed in UTC.
Description	String	Internal Error	The error returned when the refresh or prefetch task failed. Valid values: • **Internal Error**: An internal error occurred. • **Origin Timeout**: The response from the origin server timed out. • **Origin Return StatusCode 5XX**: The origin server returned an HTTP 5xx status code.
ObjectPath	String	http://example.com/abc.jpg	The path of the refresh or prefetch object.
ObjectType	String	file	The type of the refresh or prefetch task. Valid values: • **file**: refreshes an individual file. • **directory**: refreshes files under a specified directory. • **preload**: prefetches an individual file.
Process	String	100%	The progress of the task, in percentage.
Status	String	Complete	The status of the task. Valid values: • **Complete**: The task has completed. • **Pending**: The task is pending. • **Refreshing**: The task is in progress. • **Failed**: The task has failed.
TaskId	String	113681**	The ID of the task.
TotalCount	Long	2	The total number of tasks.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnRefreshTaskById
&TaskId=113681**
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnRefreshTaskByIdResponse>
  <RequestId>E0C2EF95-B1EC-4C93-855E-2059A7DA2B7B</RequestId>
  <Tasks>
        <CreationTime>2021-05-10T08:54:23Z</CreationTime>
        <Description></Description>
        <ObjectPath>http://example.com/abc.jpg</ObjectPath>
        <ObjectType>file</ObjectType>
        <Process>100%</Process>
        <Status>Complete</Status>
        <TaskId>113681**</TaskId>
  </Tasks>
  <Tasks>
        <CreationTime>2021-05-10T09:12:44Z</CreationTime>
        <Description></Description>
        <ObjectPath>http://example.com/bcd.jpg</ObjectPath>
        <ObjectType>file</ObjectType>
        <Process>99.37%</Process>
        <Status>Refreshing</Status>
        <TaskId>287367**</TaskId>
  </Tasks>
  <TotalCount>2</TotalCount>
</DescribeDcdnRefreshTaskByIdResponse>
```

`JSON` format

```
{
    "RequestId": "E0C2EF95-B1EC-4C93-855E-2059A7DA2B7B",
    "Tasks": [
        {
            "CreationTime": "2021-05-10T08:54:23Z",
            "Description": "",
            "ObjectPath": "http://example.com/abc.jpg",
            "ObjectType": "file",
            "Process": "100%",
            "Status": "Complete",
            "TaskId": "113681**"
        },
        {
            "CreationTime": "2021-05-10T09:12:44Z",
            "Description": "",
            "ObjectPath": "http://example.com/bcd.jpg",
            "ObjectType": "file",
            "Process": "99.37%",
            "Status": "Refreshing",
            "TaskId": "287367**"
        }
    ],
    "TotalCount": 2
}
```

Error codes

HttpCode	Error code	Error message	Description
400	InvalidParameters	The specified parameters are invalid.	The error message returned because a parameter is set to an invalid value.
400	InvalidTaskId.Malformed	The specified TaskId is invalid.	The error message returned because the specified task ID (TaskId) is invalid. Specify a valid task ID.
400	InvalidTaskId	The maximum number of taskIds is 10.	The error message returned because the maximum number of task IDs that you can specify in each call is 10.

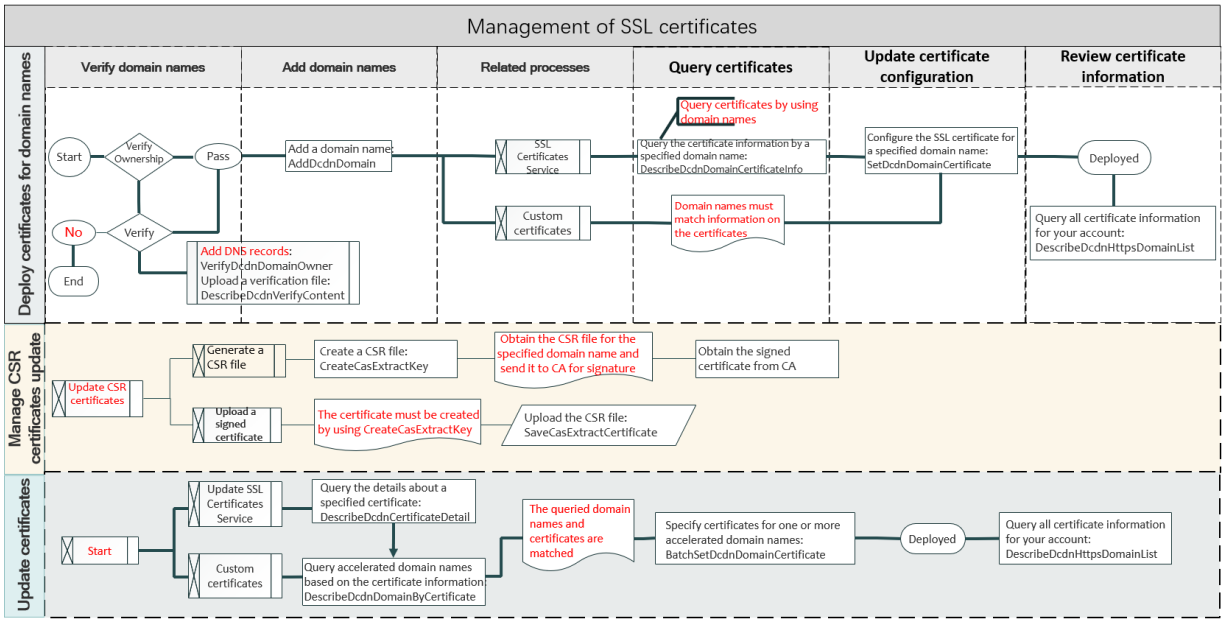
HttpCode	Error code	Error message	Description
400	InvalidTime	The query time cannot exceed the last 3 days.	The error message returned because the time range to query cannot exceed three days.
429	TooManyRequests	The server is busy. Please try again later.	The error message returned because the server is unavailable. Try again later.

For a list of error codes, visit the API Error Center.

9.Certificate service

9.1. Management of SSL certificates

Dynamic Route for CDN (DCDN) provides a wide array of API operations that can be used to manage Secure Sockets Layer (SSL) certificates. The procedures for calling the API operations can be complex. This topic describes the features of the API operations to help you understand the use of the API operations.



> **Note** After the certificate is created and uploaded by using a certificate signing request (CSR) file, update the certificate based on SSL Certificates Service.

The following table describes the certificate management operations.

API	Description
AddDcdnDomain	Adds a domain name to DCDN. You can specify only one domain name in each request.
VerifyDcdnDomainOwner	Checks the ownership of a specified domain name.
DescribeDcdnVerifyContent	Queries the ownership verification content.
DescribeDcdnDomainCertificateInfo	Queries the certificate information about a specific accelerated domain name.
SetDcdnDomainCertificate	Enables or disables the certificate feature for a specified domain name and modifies the certificate information.
DescribeDcdnCertificateList	Queries the certificates of one or more specific accelerated domain names.
DescribeDcdnCertificateDetail	Queries detailed information about a certificate.
DescribeDcdnDomainByCertificate	Queries accelerated domain names based on certificate information.
BatchSetDcdnDomainCertificate	Specifies whether to enable the certificate feature for multiple domain names and modifies the certificate information.

9.2. SetDcdnDomainCertificate

Enables or disables the Secure Sockets Layer (SSL) certificate for a specified domain name and modify the certificate information.

> **Note** The maximum number of times that each user can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	SetDcdnDomainCertificate	The operation that you want to perform. Set the value to **SetDcdnDomainCertificate**.
DomainName	String	Yes	example.com	The name of the accelerated domain. You can specify only one domain name. HTTPS acceleration must be enabled for the specified accelerated domain.
SSLProtocol	String	Yes	on	Specifies whether to enable the HTTPS certificate. Valid values: • **on**: enables the HTTPS certificate. • **off**: disables the HTTPS certificate. The default value is off.
CertName	String	No	yourCertName	The name of the certificate.
CertType	String	No	cas	The type of the certificate. Valid values: • **upload**: an uploaded certificate • **cas**: a certificate that is issued by SSL Certificates Service • **free**: a free certificate
SSLPub	String	No	SSLPub	The content of the certificate. Specify this parameter only if you enable the certificate.
SSLPri	String	No	SSLPri	The private key. Specify this parameter only if you enable the certificate.
Region	String	No	cn-shanghai	The region. Default value: ch-hangzhou.
ForceSet	String	No	1	Specifies whether to check the certificate name for duplicates. If you set the value to 1, the system does not perform the check and overwrites the information about the certificate that uses the same name.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0AEDAF20-4DDF-4165-8750-47FF9C1929C9	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com?Action=SetDcdnDomainCertificate
&DomainName=example.com
&SSLProtocol=on
&SSLPub=xxx
&SSLPri=yyy
&<Common request parameters>
```

Sample success responses

`XML` format

```
<SetDcdnDomainCertificateResponse>
      <RequestId>0AEDAF20-4DDF-4165-8750-47FF9C1929C9</RequestId>
</SetDcdnDomainCertificateResponse>
```

`JSON` format

```
{
  "RequestId": "0AEDAF20-4DDF-4165-8750-47FF9C1929C9"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	InvalidSSLProtocol.ValueNotSupported	The specified SSLProtocol is invalid.	The error message returned because the specified value of the SSLProtocol parameter is invalid. Set the SSLProtocol parameter to on or off.
400	SSLPub.MissingParameter	The SSLPub parameter is required.	The error message returned because the SSLPub parameter is not specified.
400	SSLPri.MissingParameter	The SSLPri parameter is required.	The error message returned because the SSLPri parameter is not specified.
400	InvalidSSLPub	The specified SSLPub is invalid.	The error message returned because the specified value of the SSLPub parameter is invalid. Specify another value.
400	InvalidSSLPri	The specified SSLPri is invalid.	The error message returned because the specified value of the SSLPri parameter is invalid. Specify a valid value.
400	Certificate.MissMatch	The SSLPri does not match the certificate.	The error message returned because the specified certificate and private key do not correspond to each other.
400	InvalidCertificate.TooLong	The maximum length of the certificate is exceeded.	The error message returned because the maximum length of the certificate content has been reached.

HttpCode	Error code	Error message	Description
400	InvalidCertName.TooLong	The length of the certificate name cannot exceed 128 characters.	The error message returned because the maximum number of characters that consist of the certificate name has been reached. Specify a certificate name that does not exceed 128 characters in length.
400	IllegalOperationDomain	You are not authorized to operate the domain.	The error message returned because you are not authorized to manage the domain.
400	AuthenticationFailed	Error performing verification.	The error message returned because the authentication has failed.
400	SetDomainCertificate.ParameterError	The specified parameters are invalid.	The error message returned because the specified parameter values are invalid. Specify a valid value and try again.
400	Certificate.StatusError	The status of the certificate is invalid.	The error message returned because the certificate status is invalid.
400	DeleteFailed	Error deleting the certificate.	The error message returned because the system has failed to delete the specified certificate.
400	Certificate.NotFind	The certificate does not exist.	The error message returned because the specified certificate does not exist.
400	Certificate.Duplicated	The certificate name already exists.	The error message returned because the certificate already exists.
400	Certificate.FormatError	The format of the certificate is invalid.	The error message returned because the certificate format is invalid.
400	Certificate.StatusError	The certificate does not exist, or the status of the certificate is invalid.	The error message returned because the specified certificate does not exist or the certificate status is invalid.
400	Certificate.KeyNull	The private key is required.	The error message returned because the private key is not specified.
400	Key.Malformed	The specified Key format is invalid.	The error message returned because the format of the specified value for the Key parameter is invalid.
400	CertStorage.failed	Error saving the certificate.	The error message returned because the system has failed to save the certificate.
400	CertificateContent.Duplicated	The certificate has been uploaded; do not upload again.	The error message returned because the certificate has been uploaded.
400	Certificate.Expired	The certificate has expired.	The error message returned because the certificate has expired.
400	InvalidDomain.notOnline	The domain is offline. Check the status of the domain and try again later.	The error message returned because the specified domain is offline. Check the domain status and try again later.
400	Decode.Error	Error decoding the SSLPub or SSLPri certificate.	The error message returned because the system has failed to decode the public key or the private key of the SSL certificate.

HttpCode	Error code	Error message	Description
400	sslPub.Error	Error encoding SSLPub.	The error message returned because the system has failed to encode the public key of the SSL certificate.
400	sslPri.Error	Error encoding SSLPri.	The error message returned because the system has failed to encode the private key of the SSL certificate.
400	DomainInSafeMode	The domain is in safe mode. To request permission, contact Customer Service.	The error message returned because the domain name is in security mode. To call this operation, submit a ticket.
403	DomainInProtectedMode	The domain is in protection mode. To request permission, contact Customer Service.	The error message returned because the specified domain is being protected. To call this operation, contact Customer Service.

For a list of error codes, visit the API Error Center.

9.3. DescribeDcdnCertificateList

Queries the certificates of one or more accelerated domain names.

> **Note** The maximum number of times that each user can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnCertificateList	The operation that you want to perform. Set the value to **DescribeDcdnCertificateList**.
DomainName	String	No	example.com	The accelerated domain name. If you need to specify multiple accelerated domain names, separate them with commas (,). If you do not specify an accelerated domain name, all accelerated domain names in your account are queried.

Response parameters

Parameter	Type	Example	Description
CertificateListModel	Struct		The data type of the certificate information.
CertList	Array of Cert		The details of each certificate.
Cert			
CertId	Long	123	The ID of the certificate.

Parameter	Type	Example	Description
CertName	String	Certificate 2	The name of the certificate.
Common	String	example.com	The Common Name (CN) attribute of the certificate. In most cases, the CN is a domain name.
Fingerprint	String	0151xxxx	The fingerprint of the certificate.
Issuer	String	DigiCert	The certificate authority (CA) that issued the certificate.
LastTime	Long	1548065550	The timestamp when the certificate was issued.
Count	Integer	123	The number of certificates returned.
RequestId	String	FC0E34AC-0239-44A7-AB0E-800DE522C8DA	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com?Action=DescribeDcdnCertificateList
&DomainName=example.com
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnCertificateListResponse>
  <CertificateListModel>
        <Count>1</Count>
        <CertList>
              <Cert>
                    <CertId>123</CertId>
                    <Issuer>DigiCert Inc</Issuer>
                    <LastTime>1548065550</LastTime>
                    <CertName>Certificate 2</CertName>
                    <Common>example.com</Common>
                    <Fingerprint>0151xxxx</Fingerprint>
              </Cert>
        </CertList>
  </CertificateListModel>
  <RequestId>3D252697-9828-4531-AC00-F6CEFB61252D</RequestId>
</DescribeDcdnCertificateListResponse>
```

`JSON` format

```
{
    "CertificateListModel": {
        "Count": 1,
        "CertList": {
            "Cert": [
                {
                    "CertId": 123,
                    "Issuer": "DigiCert Inc",
                    "LastTime": 1548065550,
                    "CertName": "Certificate 2",
                    "Common": "example.com",
                    "Fingerprint": "0151xxxx"
                }
            ]
        }
    },
    "RequestId": "3D252697-9828-4531-AC00-F6CEFB61252D"
}
```

Error codes

For a list of error codes, visit the API Error Center.

9.4. DescribeDcdnCertificateDetail

Queries the detailed information about a specified certificate.

> **Note** The maximum number of times that each user can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnCertificateDetail	The operation that you want to perform. Set the value to **DescribeDcdnCertificateDetail**.
CertName	String	Yes	123	The name of the certificate.

Response parameters

Parameter	Type	Example	Description
Cert	String	-----BEGIN CERTIFICATE-----xxx-----END CERTIFICATE-----	The content of the certificate.
CertId	Long	123	The ID of the certificate.
CertName	String	123	The name of the certificate.
Key	String	ak1htyxxxx	The key of the certificate.

Parameter	Type	Example	Description
RequestId	String	C7C69682-7F88-40DD-A198-10D0309E439B	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com?Action=DescribeDcdnCertificateDetail
&CertName=123
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnCertificateDetailResponse>
  <CertId>123</CertId>
  <RequestId>C7C69682-7F88-40DD-A198-10D0309E439B</RequestId>
  <CertName>Certificate name</CertName>
  <Cert>-----BEGIN CERTIFICATE-----xxx-----END CERTIFICATE-----</Cert>
  <key>ak1htyxxxx</key>
</DescribeDcdnCertificateDetailResponse>
```

`JSON` format

```
{
    "CertId": "123",
    "RequestId": "C7C69682-7F88-40DD-A198-10D0309E439B",
    "CertName":"Certificate name",
    "Cert": "-----BEGIN CERTIFICATE-----xxx-----END CERTIFICATE-----",
    "key":"ak1htyxxxx"
}
```

Error codes

For a list of error codes, visit the API Error Center.

9.5. DescribeDcdnDomainByCertificate

Queries accelerated domain names based on the certificate information.

> **Note** The maximum number of times that each user can call this operation per second is 100.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainByCertificate	The operation that you want to perform. Set the value to **DescribeDcdnDomainByCertificate**.

Parameter	Type	Required	Example	Description
SSLPub	String	Yes	xxx	The public key of the certificate. You must use Base64 encoding schemes and then the encodeURIComponent method to encode the public key. PEM files are supported.

Response parameters

Parameter	Type	Example	Description
CertInfos	Array of CertInfo		The certificate information for the returned domain name.
CertInfo			
CertCaIsLegacy	String	yes	Indicates whether the CA certificate has been revoked. Valid values: • **yes**: The certificate has been revoked. • **no**: The certificate is normal.
CertExpireTime	String	Nov 29 00:00:00 2016 GMT	The time when the certificate expires.
CertExpired	String	yes	Indicates whether the certificate has expired. Valid values: • **yes**: The certificate has expired. • **no**: The certificate has not expired.
CertStartTime	String	Nov 29 23:59:59 2017 GMT	The time when the certificate became effective.
CertSubjectCommonName	String	example.aliyundoc.com	The name of the certificate owner.
CertType	String	RSA	The type of certificate. Valid values: **RSA**, **DSA**, and **ECDSA**.
DomainList	String	example.com,example.org	The list of domain names that use the certificate. If one or more domain names are returned, the domain names are matched with the specified certificate. Multiple domain names are separated with commas (,).
DomainNames	String	*.example.com,example.org	The domain names (DNS fields) that match the certificate. Multiple domain names are separated with commas (,).
Issuer	String	C=US, O=Symantec Corporation, OU=Symantec Trust Network, OU=Domain Validated SSL, CN=Symantec Basic DV SSL CA - G1	The certificate authority that issues the certificate.

Parameter	Type	Example	Description
RequestId	String	ASAF2FDS-12SADSA-DDSAE3D-DSADCD4C-CDADS2D	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/? Action=DescribeDcdnDomainByCertificate
&SSLPub=xxx
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnDomainByCertificateResponse>
  <RequestId>ASAF2FDS-12SADSA-DDSAE3D-DSADCD4C-CDADS2D</RequestId>
  <content>
        <Issuer>C=US, O=Symantec Corporation, OU=Symantec Trust Network, OU=Domain Validated SSL, CN=Symantec Bas
ic DV SSL CA - G1</Issuer>
        <CertType>RSA</CertType>
        <CertSubjectCommonName>example.aliyundoc.com</CertSubjectCommonName>
        <CertStartTime>Nov 29 23:59:59 2017 GMT</CertStartTime>
        <CertExpireTime>Nov 29 00:00:00 2016 GMT</CertExpireTime>
        <DomainNames>*.example.com,example.org</DomainNames>
        <DomainList>example.com,example.org</DomainList>
        <CertExpired>yes</CertExpired>
        <CertCaIsLegacy>yes</CertCaIsLegacy>
  </content>
</DescribeDcdnDomainByCertificateResponse>
```

`JSON` format

```
{
    "RequestId": "ASAF2FDS-12SADSA-DDSAE3D-DSADCD4C-CDADS2D",
    "content": [
        {
            "Issuer": "C=US, O=Symantec Corporation, OU=Symantec Trust Network, OU=Domain Validated SSL, CN=Syman
tec Basic DV SSL CA - G1",
            "CertType": "RSA",
            "CertSubjectCommonName": "example.aliyundoc.com",
            "CertStartTime": "Nov 29 23:59:59 2017 GMT",
            "CertExpireTime": "Nov 29 00:00:00 2016 GMT",
            "DomainNames": "*.example.com,example.org",
            "DomainList": "example.com,example.org",
            "CertExpired": "yes",
            "CertCaIsLegacy": "yes"
        }
     ]
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Certificate.FormatError	The format of the certificate is invalid.	The error message returned because the certificate format is invalid.

HTTP status code	Error code	Error message	Description
400	SSLPub.MissingParameter	The SSLPub parameter is required.	The error message returned because the value of the SSLPub parameter must be specified.
400	Decode.Error	Error decoding the SSLPub or SSLPri certificate.	The error message returned because the public key or the private key of the certificate has failed to be decoded.
500	InternalError	An internal error occurred; please try again later.	The error message returned because an internal error has occurred. Try again later. If the error persists, submit a ticket.

For a list of error codes, visit the API Error Center.

9.6. DescribeDcdnDomainCertificateInfo

Queries the certificate information of a specified accelerated domain name.

> **Note** The maximum number of times that each user can call this operation per second is 100.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	No	DescribeDcdnDomainCertificateInfo	The operation that you want to perform. Set the value to **DescribeDcdnDomainCertificateInfo**.
DomainName	String	Yes	example.com	The accelerated domain name. You can specify only one domain name in each request.

Response parameters

Parameter	Type	Example	Description
CertInfos	Array of CertInfo		The certificate information of the domain name.
CertInfo			
CertDomainName	String	example.com	The domain name that matches the certificate.
CertExpireTime	String	2018-06-03T22:03:39Z	The expiration time of the certificate.
CertLife	String	3 months	The validity period of the certificate. Unit: **months** or **years**.
CertName	String	cert-example.com	The name of the certificate.

Parameter	Type	Example	Description
CertOrg	String	Let's Encrypt	The certificate authority (CA) that issued the certificate.
CertType	String	cas	The type of the certificate. Valid values: • **free**: a free certificate • **cas**: a certificate that is purchased from Alibaba Cloud SSL Certificates Service • **upload**: a certificate that is uploaded by the user
DomainName	String	example.com	The accelerated domain name.
SSLProtocol	String	on	The status of HTTPS. Valid values: • **on**: enabled • **off**: disabled
SSLPub	String	xxxx	The public key of the certificate.
Status	String	success	The status of the certificate. Valid values: • **success**: The certificate has taken effect. • **checking**: The system is checking whether the domain name is using Dynamic Route for CDN (DCDN). • **cname_error**: The domain name is not using DCDN. • **domain_invalid**: The domain name contains invalid characters. • **unsupport_wildcard**: The wildcard domain name is not supported. • **applying**: Certificate application is in progress. • **get_token_timeout**: The certificate application request has timed out. • **check_token_timeout**: The verification has timed out. • **get_cert_timeout**: The request to obtain the certificate has timed out. • **failed**: The certificate application request failed.
RequestId	String	5C1E43DC-9E51-4771-82C0-7D5ECEB547A1	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainCertificateInfo
&DomainName=example.com
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnDomainCertificateInfoResponse>
      <CertInfos>
            <CertInfo>
                  <Status>success</Status>
                  <CertLife>3 months</CertLife>
                  <SSLProtocol>on</SSLProtocol>
                  <CertType>cas</CertType>
                  <CertName>cert-example.com</CertName>
                  <CertDomainName>example.com</CertDomainName>
                  <DomainName>example.com</DomainName>
                  <CertOrg>Let's Encrypt</CertOrg>
                  <CertExpireTime>2018-06-03T22:03:39Z</CertExpireTime>
            </CertInfo>
      </CertInfos>
      <RequestId>5C1E43DC-9E51-4771-82C0-7D5ECEB547A1</RequestId>
</DescribeDcdnDomainCertificateInfoResponse>
```

`JSON` format

```
{
  "CertInfos": {
    "CertInfo": [
      {
        "Status": "success",
        "CertLife": "3 months",
        "SSLProtocol": "on",
        "CertType": "cas",
        "CertName": "cert-example.com",
        "CertDomainName": "example.com",
        "DomainName": "example.com",
        "CertOrg": "Let's Encrypt",
        "CertExpireTime": "2018-06-03T22:03:39Z"
      }
    ]
  },
  "RequestId": "5C1E43DC-9E51-4771-82C0-7D5ECEB547A1"
}
```

Error codes

For a list of error codes, visit the API Error Center.

9.7. DescribeDcdnHttpsDomainList

Queries all certificate information for your account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnHttpsDomainList	The operation that you want to perform. Set the value to **DescribeCdnHttpsDomainList**.
PageNumber	Integer	No	1	The number of the page to return. Valid values: **1 to 100000**.

Parameter	Type	Required	Example	Description
PageSize	Integer	No	2	The number of entries to return on each page. Valid values: **1 to 500**. Default value: **20**.
Keyword	String	No	cert	The keyword to be matched.

Response parameters

Parameter	Type	Example	Description
CertInfos	Array of CertInfo		The certificate information for the returned domain name.
CertInfo			
CertCommonName	String	*.xxx.com	The returned primary domain name of the certificate.
CertExpireTime	String	2018-12-26 14:45:09	The time when the certificate expires.
CertName	String	cert-xxx	The name of the certificate.
CertStartTime	String	2018-11-26 14:45:09	The time when the certificate became effective.
CertStatus	String	mismatch	The status of the certificate. Valid values: • **ok**: The certificate is working as expected. • **mismatch**: The certificate does not match the domain name. • **expired**: The certificate has expired. • **expire_soon**: The certificate will expire soon.
CertType	String	upload	The type of certificate. Valid values: • **free**: a free certificate. • **cas**: a certificate that is purchased from Alibaba Cloud SSL Certificates Service • **upload**: a certificate that you have uploaded.
CertUpdateTime	String	2019-01-08 18:33:16	The time when the certificate was last updated.
DomainName	String	**xxx.com	The accelerated domain name.
RequestId	String	F5E8DF64-7175-4186-9B06-F002C0BBD0C5	The ID of the request.
TotalCount	Integer	16	The total number of the returned entries.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/? Action=DescribeDcdnHttpsDomainList
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnHttpsDomainListResponse>
  <CertInfos>
        <CertInfo>
              <CertUpdateTime>2019-01-08 18:33:16</CertUpdateTime>
              <CertType>upload</CertType>
              <CertName>cert-xxx</CertName>
              <DomainName>**xxx.com</DomainName>
              <CertStatus>mismatch</CertStatus>
              <CertExpireTime>2018-12-26 14:45:09</CertExpireTime>
              <CertStartTime>2018-11-26 14:45:09</CertStartTime>
              <CertCommonName>*.xxx.com</CertCommonName>
        </CertInfo>
  </CertInfos>
  <TotalCount>16</TotalCount>
  <RequestId>F5E8DF64-7175-4186-9B06-F002C0BBD0C5</RequestId>
</DescribeDcdnHttpsDomainListResponse>
```

`JSON` format

```
{
    "CertInfos": {
        "CertInfo": [
            {
                "CertUpdateTime": "2019-01-08 18:33:16",
                "CertType": "upload",
                "CertName": "cert-xxx",
                "DomainName": "**xxx.com",
                "CertStatus": "mismatch",
                "CertExpireTime": "2018-12-26 14:45:09",
                "CertStartTime": "2018-11-26 14:45:09",
                "CertCommonName": "*.xxx.com"
            }
        ]
    },
    "TotalCount": 16,
    "RequestId": "F5E8DF64-7175-4186-9B06-F002C0BBD0C5"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	NoHttpsDomain	Your account does not have any HTTPS domain.	The error message returned because your account does not have a domain name with HTTPS enabled.

For a list of error codes, visit the API Error Center.

9.8. BatchSetDcdnDomainCertificate

Configures an HTTPS certificate for one or more accelerated domain names.

> **Note** The maximum number of times that each user can call this operation per second is 10.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	BatchSetDcdnDomainCertificate	The operation that you want to perform. Set the value to **BatchSetDcdnDomainCertificate**.
DomainName	String	Yes	**example**.com	The name of the accelerated domain for which you want to configure the HTTPS certificate. The accelerated domain must have HTTPS acceleration enabled. You can specify multiple domain names and separate them with commas (,).
SSLProtocol	String	Yes	on	Specifies whether to enable the HTTPS certificate. Valid values: • **on**: enables the certificate. • **off: disables the certificate.** Default value: **off**.
CertName	String	No	cert-te**.com	The name of the certificate.
CertType	String	No	cas	The type of the certificate. Valid values: • **upload: a custom certificate that you upload.** • **cas**: a certificate that is purchased from Alibaba Cloud SSL Certificates Service.
SSLPub	String	No	x****	The content of the certificate. This parameter is required only if you enable the certificate.
SSLPri	String	No	y****	The private key. This parameter is required only if you enable the certificate.
Region	String	No	cn-hangzhou	The region information.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0AEDAF20-4DDF-4165-8750-47FF9C1929C9	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/? Action=BatchSetDcdnDomainCertificate
&DomainName=**example**.com
&SSLProtocol=on
&<Common request parameters>
```

Sample success responses

`XML` format

```
<BatchSetDcdnDomainCertificateResponse>
  <RequestId>0AEDAF20-4DDF-4165-8750-47FF9C1929C9</RequestId>
</BatchSetDcdnDomainCertificateResponse>
```

`JSON` format

```
{
  "RequestId": "0AEDAF20-4DDF-4165-8750-47FF9C1929C9"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	InvalidSSLProtocol.ValueNotSupported	The specified SSLProtocol is invalid.	The error message returned because the specified SSLProtocol parameter is invalid. Set the SSLProtocol parameter to on or off.
404	CertName.MissingParameter	You must specify CertName.	The error message returned because the CertName parameter must be specified.
400	SSLPub.MissingParameter	The SSLPub parameter is required.	The error message returned because the SSLPub parameter must be specified.
400	SSLPri.MissingParameter	The SSLPri parameter is required.	The error message returned because the SSLPri parameter must be specified.
400	InvalidSSLPub	The specified SSLPub is invalid.	The error message returned because the specified SSLPub parameter is invalid.
400	InvalidSSLPri	The specified SSLPri is invalid.	The error message returned because the specified SSLPri parameter is invalid.
400	Certificate.MissMatch	The SSLPri does not match the certificate.	The error message returned because the specified SSLPub and SSLPri parameters do not match.
400	InvalidCertificate.TooLong	The maximum length of the certificate is exceeded.	The error message returned because the length of the specified certificate exceeds the upper limit.
400	InvalidCertName.TooLong	The length of the certificate name cannot exceed 128 characters.	The error message returned because the length of the specified certificate name cannot exceed 128 characters.
400	IllegalOperationDomain	You are not authorized to operate the domain.	The error message returned because you are not authorized to manage the specified domain name.
400	AuthenticationFailed	Error performing verification.	The error message returned because the identity verification has failed.
400	SetDomainCertificate.ParameterError	The specified parameters are invalid.	The error message returned because the specified parameters are invalid.
400	Certificate.StatusError	The status of the certificate is invalid.	The error message returned because the certificate state is invalid.
400	DeleteFailed	Error deleting the certificate.	The error message returned because the system has failed to delete the specified certificate.

HttpCode	Error code	Error message	Description
400	Certificate.NotFind	The certificate does not exist.	The error message returned because the specified certificate does not exist.
400	Certificate.Duplicated	The certificate name already exists.	The error message returned because the specified certificate already exists.
400	Certificate.FormatError	The format of the certificate is invalid.	The error message returned because the certificate format is invalid.
400	Certificate.StatusError	The certificate does not exist, or the status of the certificate is invalid.	The error message returned because the specified certificate does not exist or the certificate state is invalid.
400	Certificate.KeyNull	The private key is required.	The error message returned because the private key must be specified.
400	CertStorage.failed	Error saving the certificate.	The error message returned because the system has failed to save the certificate.
400	CertificateContent.Duplicated	The certificate has been uploaded; do not upload again.	The error message returned because the certificate has been uploaded.
400	Certificate.Expired	The certificate has expired.	The error message returned because the certificate has expired.
400	InvalidDomain.notOnline	The domain is offline. Check the status of the domain and try again later.	The error message returned because the specified domain name is offline.
400	Decode.Error	Error decoding the SSLPub or SSLPri certificate.	The error message returned because the system has failed to decode the public key or the private key of the certificate.
400	sslPub.Error	Error encoding SSLPub.	The error message returned because the system has failed to encode the public key of the certificate.
400	sslPri.Error	Error encoding SSLPri.	The error message returned because the system has failed to encode the private key of the certificate.
400	DomainInSafeMode	The domain is in safe mode. To request permission, contact Customer Service.	The error message returned because the specified domain is in safe mode. To call this operation, submit a ticket.
403	DomainInProtectedMode	The domain is in protection mode. To request permission, contact Customer Service.	The error message returned because the specified domain is being protected. To call this operation, contact Customer Service.
400	InvalidDomainNumber.TooLong	The maximum number of DomainNumber is 50.	The error message returned because the number of the specified domain names exceeds 50.

For a list of error codes, visit the API Error Center.

9.9. SetDcdnDomainSMCertificate

Enables or disables the ShangMi (SM) certificate for a domain name.

> **Note** You can call this operation up to 30 times per second.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	SetDcdnDomainSMCertificate	The operation that you want to perform. Set the value to **SetDcdnDomainSMCertificate**.
CertIdentifier	String	Yes	648****-cn-hangzhou	The ID of the certificate.
DomainName	String	Yes	example.com	The accelerated domain name for which the SM certificate is configured. **Note** HTTPS acceleration must be enabled for the accelerated domain name.
SSLProtocol	String	Yes	on	Specifies whether to enable the HTTPS certificate. **on**: enables the HTTPS certificate. **off**: disables the HTTPS certificate.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0AEDAF20-4DDF-4165-8750-47FF9C1929C8	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com?Action=SetDcdnDomainSMCertificate
&CertIdentifier=648****-cn-hangzhou
&DomainName=example.com
&SSLProtocol=on
&<Common request parameters>
```

Sample success responses

`XML` format

```
<SetDcdnDomainSMCertificateResponse>
  <RequestId>0AEDAF20-4DDF-4165-8750-47FF9C1929C8</RequestId>
</SetDcdnDomainSMCertificateResponse>
```

`JSON` format

```
{
    "RequestId": "0AEDAF20-4DDF-4165-8750-47FF9C1929C8"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	InvalidCertIdentifier.ValueNotSupported	The specified value of parameter CertIdentifier is not valid.	The error message returned because the value that is specified for the CertIdentifier parameter is invalid.

For a list of error codes, visit the API Error Center.

9.10. DescribeDcdnSMCertificateDetail

Queries the details about a ShangMi (SM) certificate.

> **Note** You can call this operation up to 30 times per second.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnSMCertificateDetail	The operation that you want to perform. Set the value to DescribeDcdnSMCertificateDetail.
CertIdentifier	String	Yes	648****-cn-hangzhou	The ID of the certificate.

Response parameters

Parameter	Type	Example	Description
CertExpireTime	String	2022-08-31T09:42:28Z	The time when the certificate expires. The time is displayed in UTC.
CertIdentifier	String	648****-cn-hangzhou	The ID of the certificate.
CertName	String	yourCertName	The name of the certificate.
CertOrg	String	DigiCert Inc	The certificate authority (CA) that issued the certificate.
CommonName	String	example.com	The top-level domain name.
EncryptCertificate	String	--BEGIN CERTIFICATE-----***-----END CERTIFICATE--	The content of the encryption certificate.
RequestId	String	A7C69682-7F88-40DD-A198-10D0309E439D	The ID of the request.
Sans	String	***.example.com	The subdomain name.
SignCertificate	String	--BEGIN CERTIFICATE-----***-----END CERTIFICATE--	The content of the signature certificate.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com?Action=DescribeDcdnSMCertificateDetail
&CertIdentifier=648****-cn-hangzhou
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnSMCertiicateDetailResponse>
  <SignCertificate>--BEGIN CERTIFICATE-----***-----END CERTIFICATE--</SignCertificate>
  <EncryptCertificate>--BEGIN CERTIFICATE-----***-----END CERTIFICATE--</EncryptCertificate>
  <CertName>yourCerName</CertName>
  <CertIdentifier>648****-cn-hangzhou</CertIdentifier>
  <CommonName>example.com</CommonName>
  <Sans>***.example.com</Sans>
  <CertOrg>DigiCert Inc</CertOrg>
  <CertExpireTime>2022-08-31T09:42:28Z</CertExpireTime>
  <RequestId>A7C69682-7F88-40DD-A198-10D0309E439D</RequestId>
</DescribeDcdnSMCertiicateDetailResponse>
```

`JSON` format

```
{
    "SignCertificate": "--BEGIN CERTIFICATE-----***-----END CERTIFICATE--",
    "EncryptCertificate": "--BEGIN CERTIFICATE-----***-----END CERTIFICATE--",
    "CertName": "yourCerName",
    "CertIdentifier": "648****-cn-hangzhou",
    "CommonName": "example.com",
    "Sans": "***.example.com",
    "CertOrg": "DigiCert Inc",
    "CertExpireTime": "2022-08-31T09:42:28Z",
    "RequestId": "A7C69682-7F88-40DD-A198-10D0309E439D"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	InvalidCertIdentifier.ValueNotSupported	The specified value of parameter CertIdentifier is not valid.	The error message returned because the value that is specified for the CertIdentifier parameter is invalid.

For a list of error codes, visit the API Error Center.

9.11. DescribeDcdnSMCertificateList

Queries the ShangMi (SM) certificates of an accelerated domain name.

> **Note** You can call this operation up to 30 times per second.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnSMCertificateList	The operation that you want to perform. Set the value to DescribeDcdnSMCertificateList.
DomainName	String	Yes	example.com	The accelerated domain name whose SM certificates you want to query.

Response parameters

Parameter	Type	Example	Description
CertificateListModel	Struct		The type of the certificate information.
CertList	Array of Cert		The details about each certificate.
CertIdentifier	String	yourCertIdentifier	The ID of the certificate.
CertName	String	yourCertName	The name of the certificate.
Common	String	yourCertCommon	The common name of the certificate.
Issuer	String	yourCertIssuer	The certificate authority (CA) that issued the certificate.
Count	Integer	2	The number of certificates that are returned.
RequestId	String	DC0E34AC-0239-44A7-AB0E-800DE522C8DC	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnSMCertificateList
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnSMCertificateListResponse>
  <CertificateListModel>
        <Count>2</Count>
        <CertList>
              <Cert>
                    <CertName>yourCertName1</CertName>
                    <Issuer>yourCertIssuer1</Issuer>
                    <CertIdentifier>yourCertIdentifier1</CertIdentifier>
                    <Common>yourCertCommon1</Common>
              </Cert>
              <Cert>
                    <CertName>yourCertName2</CertName>
                    <Issuer>yourCertIssuer2</Issuer>
                    <CertIdentifier>yourCertIdentifier2</CertIdentifier>
                    <Common>yourCertCommon2</Common>
              </Cert>
        </CertList>
  </CertificateListModel>
  <RequestId>DC0E34AC-0239-44A7-AB0E-800DE522C8DC</RequestId>
</DescribeDcdnSMCertificateListResponse>
```

`JSON` format

```
{
    "CertificateListModel": {
        "Count": 2,
        "CertList": {
            "Cert": [
                {
                    "CertName": "yourCertName1",
                    "Issuer": "yourCertIssuer1",
                    "CertIdentifier": "yourCertIdentifier1",
                    "Common": "yourCertCommon1"
                },
                {
                    "CertName": "yourCertName2",
                    "Issuer": "yourCertIssuer2",
                    "CertIdentifier": "yourCertIdentifier2",
                    "Common": "yourCertCommon2"
                }
            ]
        }
    },
    "RequestId": "DC0E34AC-0239-44A7-AB0E-800DE522C8DC"
}
```

Error codes

For a list of error codes, visit the API Error Center.

9.12. DescribeDcdnUserCertificateExpireCount

Queries the number of domain names whose SSL certificates are about to expire or have already expired.

Description

Note You can call this operation up to 100 times per second per account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnUserCertificateExpireCount	The operation that you want to perform. Set the value to **DescribeDcdnUserCertificateExpireCount**.

Response parameters

Parameter	Type	Example	Description
ExpireWithin30DaysCount	Integer	0	The number of domain names whose SSL certificates are about to expires within 30 days.
ExpiredCount	Integer	6	The number of domain names whose SSL certificates have already expired.
RequestId	String	F5E8DF64-7175-4186-9B06-F002C0BBD0C5	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com?Action=DescribeDcdnUserCertificateExpireCount&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnUserCertificateExpireCountResponse>
  <ExpiredCount>6</ExpiredCount>
  <ExpireWithin30DaysCount>0</ExpireWithin30DaysCount>
  <RequestId>F5E8DF64-7175-4186-9B06-F002C0BBD0C5</RequestId>
</DescribeDcdnUserCertificateExpireCountResponse>
```

`JSON` format

```
{
    "ExpiredCount": 6,
    "ExpireWithin30DaysCount": 0,
    "RequestId": "F5E8DF64-7175-4186-9B06-F002C0BBD0C5"
}
```

Error codes

For a list of error codes, visit the API Error Center.

10.Resource usage

10.1. DescribeDcdnDomainHttpCodeData

Queries the total number of times that each HTTP status code returned and the proportion of each HTTP status code for one or more accelerated domain names.

Description

- If you do not set the **StartTime** or **EndTime** parameter, the request returns the data collected in the last 24 hours. If you set both the **StartTime** and **EndTime** parameters, the request returns the data collected within the specified time range.
- You can call this operation up to 100 times per second per account.

Time granularity

The time granularity supported by the Interval parameter varies with the maximum time range per query. The following table describes the time period within which historical data is available and the data delay.

Time granularity	Maximum time range per query	Historical data available	Data delay
5 minutes	3 days	93 days	15 minutes
1 hour	31 days	186 days	4 hours
1 day	366 days	366 days	04:00 on the next day

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainHttpCodeData	The operation that you want to perform. Set the value to **DescribeDcdnDomainHttpCodeData**.
DomainName	String	Yes	example.com	The accelerated domain name. Separate multiple accelerated domain names with commas (,).
StartTime	String	No	2019-03-01T00:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
EndTime	String	No	2019-03-02T00:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. **Note** The end time must be later than the start time.

Parameter	Type	Required	Example	Description
Interval	String	No	300	The time interval between the data entries to return. Unit: seconds. The time granularity varies with the maximum time range per query. Valid values: 300 (5 minutes), 3600 (1 hour), and 86400 (1 day). For more information, see **Description**.
IspNameEn	String	No	unicom	The name of the Internet service provider (ISP). You can call the DescribeDcdnRegionAndIsp operation to query ISPs.
LocationNameEn	String	No	beijing	The name of the region. You can call the DescribeDcdnRegionAndIsp operation to query regions.

Response parameters

Parameter	Type	Example	Description
EndTime	String	2018-03-01T13:00:00Z	The end of the time range during which data was queried.
StartTime	String	2019-03-01T00:00:00Z	The beginning of the time range during which data was queried.
RequestId	String	91FC2D9D-B042-4634-8A5C-7B8E7482C22D	The ID of the request.
DomainName	String	example.com	The accelerated domain name.
DataInterval	String	300	The time interval between the data entries returned. Unit: seconds.
DataPerInterval	Array of DataModule		The proportions of HTTP status codes at each time interval.
DataModule			
TimeStamp	String	2019-03-01T13:00:00Z	The timestamp of the data returned.
HttpCodeDataPerInterval	Array of HttpCodeDataModule		The information about the HTTP status codes.
HttpCodeDataModule			
Code	Integer	404	The HTTP status code returned.
Proportion	Float	33.333333	The proportion of the HTTP status code.

Parameter	Type	Example	Description
Count	Float	1	The total number of times that the HTTP status code was returned.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainHttpCodeData
&DomainName=example.com
&StartTime=2019-03-01T00:00:00Z
&EndTime=2019-03-02T00:00:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnDomainHttpCodeDataResponse>
<DataInterval>300</DataInterval>
<RequestId>273642D8-A11C-420B-8EB5-BD62AE1FC69B</RequestId>
<DomainName>example.com</DomainName>
<DataPerInterval>
    <DataModule>
        <TimeStamp>2019-03-01T13:00:00Z</TimeStamp>
        <HttpCodeDataPerInterval>
            <HttpCodeDataModule>
                <Count>16</Count>
                <Proportion>100</Proportion>
                <Code>404</Code>
            </HttpCodeDataModule>
        </HttpCodeDataPerInterval>
    </DataModule>
</DataPerInterval>
<EndTime>2018-03-01T13:05:00Z</EndTime>
<StartTime>2018-03-01T13:00:00Z</StartTime>
</DescribeDcdnDomainHttpCodeDataResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "DataInterval" : 300,
  "RequestId" : "273642D8-A11C-420B-8EB5-BD62AE1FC69B",
  "DomainName" : "example.com",
  "DataPerInterval" : {
    "DataModule" : [ {
      "TimeStamp" : "2019-03-01T13:00:00Z",
      "HttpCodeDataPerInterval" : {
        "HttpCodeDataModule" : [ {
          "Count" : 16,
          "Proportion" : 100,
          "Code" : 404
        } ]
      }
    } ]
  },
  "EndTime" : "2018-03-01T13:05:00Z",
  "StartTime" : "2018-03-01T13:00:00Z"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because no value is specified for the StartTime or EndTime parameter.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the EndTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the value specified for the StartTime parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

10.2. DescribeDcdnDomainRegionData

Queries the geographical distribution of users for an accelerated domain name. The data is collected at an interval of one day. You can query data that is collected within the last 90 days.

> **Note**
> - If you do not specify the StartTime or EndTime parameters, the data within the last 24 hours is queried by default.
> - If you specify the StartTime and EndTime parameters, the data within the specified time range is queried.
> - The maximum number of times that each user can call this operation per second is 100.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	No	DescribeDcdnDomainRegionData	The operation that you want to perform. Set the value to **DescribeDcdnDomainRegionData**.
DomainName	String	No	example.com	The accelerated domain name. You can specify only one domain name. If you do not specify an accelerated domain name, all accelerated domain names in your account are queried.
StartTime	String	No	2015-12-05T12:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
EndTime	String	No	2015-12-07T12:00:00Z	The end of the time range to query. The end time must be later than the start time. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.

Response parameters

Parameter	Type	Example	Description
DataInterval	String	86400	The data collection interval. Unit: seconds.
DomainName	String	example.com	The accelerated domain name.
EndTime	String	2015-12-07T12:00:00Z	The end of the time range during which the data was queried.
RequestId	String	2E5AD83F-BD7B-462E-8319-2E30E305519A	The ID of the request.
StartTime	String	2015-12-05T12:00:00Z	The beginning of the time range during which the data was queried.
Value	Array of RegionProportionData		The proportions of requests that were initiated from each region.
RegionProportionData			
AvgObjectSize	String	0	The average response size. Unit: bytes.
AvgResponseRate	String	0	The average response speed. Unit: byte/s.
AvgResponseTime	String	0	The average response time. Unit: milliseconds.

Parameter	Type	Example	Description
Bps	String	0	The bandwidth.
BytesProportion	String	0.003544181046236794	The proportion of network traffic occupied by the specified region based on the total amount of network traffic in percentile. For example, a value of 90 indicates that 90% of the network traffic was coming from the specified region.
Proportion	String	0	The proportion of requests from the specified region based on the total number of requests in percentile. For example, a value of 90 indicates that 90% of the requests were coming from the specified region.
Qps	String	0	The number of queries per second.
Region	String	Chongqing	The region.
RegionEname	String	chongqing	The name of the region.
TotalBytes	String	0	The total amount of network traffic.
TotalQuery	String	0	The total number of requests.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainRegionData
&DomainName=example.com
&StartTime=2015-12-05T12:00:00Z
&EndTime=2015-12-07T12:00:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnDomainRegionDataResponse>
      <Value>
            <RegionProportionData>
                  <Bps>380.9614285714286</Bps>
                  <Proportion>0.01155980271270037</Proportion>
                  <TotalBytes>2400057</TotalBytes>
                  <BytesProportion>0.003544181046236794</BytesProportion>
                  <TotalQuery>3</TotalQuery>
                  <RegionEname></RegionEname>
                  <Region>Japan</Region>
                  <AvgResponseRate>154.3345765545624</AvgResponseRate>
                  <AvgObjectSize>800019.0</AvgObjectSize>
                  <Qps>5.9523809523809524E-5</Qps>
                  <AvgResponseTime>5183.666666666667</AvgResponseTime>
            </RegionProportionData>
            <RegionProportionData>
                  <Bps>25110.431412698414</Bps>
                  <Proportion>0.31211467324291</Proportion>
                  <TotalBytes>158195717</TotalBytes>
                  <BytesProportion>0.23360872886644055</BytesProportion>
                  <TotalQuery>81</TotalQuery>
                  <RegionEname>hangzhou</RegionEname>
                  <Region>Hangzhou</Region>
                  <AvgResponseRate>1397.1430909315718</AvgResponseRate>
                  <AvgObjectSize>1953033.5543209878</AvgObjectSize>
                  <Qps>0.0016071428571428571</Qps>
                  <AvgResponseTime>1397.8765432098764</AvgResponseTime>
            </RegionProportionData>
            <RegionProportionData>
                  <Bps>40343.86242857143</Bps>
                  <Proportion>0.33908754623921084</Proportion>
                  <TotalBytes>254166333</TotalBytes>
                  <BytesProportion>0.37532921137846464</BytesProportion>
                  <TotalQuery>88</TotalQuery>
                  <RegionEname>chongqing</RegionEname>
                  <Region>Chongqing</Region>
                  <AvgResponseRate>787.8073097249128</AvgResponseRate>
                  <AvgObjectSize>2888253.7875</AvgObjectSize>
                  <Qps>0.001746031746031746</Qps>
                  <AvgResponseTime>3666.193181818182</AvgResponseTime>
            </RegionProportionData>
      </Value>
      <DataInterval>86400</DataInterval>
      <RequestId>2E5AD83F-BD7B-462E-8319-2E30E305519A</RequestId>
      <DomainName>example.com</DomainName>
      <EndTime>2015-12-05T12:00:00Z</EndTime>
      <StartTime>2015-12-07T12:00:00Z</StartTime>
</DescribeDcdnDomainRegionDataResponse>
```


`JSON` format

```
{
  "Value": {
    "RegionProportionData": [
      {
        "Bps": "380.9614285714286",
        "Proportion": "0.01155980271270037",
        "TotalBytes": "2400057",
        "BytesProportion": "0.003544181046236794",
        "TotalQuery": "3",
        "RegionEname": "",
        "Region": "Japan",
        "AvgResponseRate": "154.3345765545624",
        "AvgObjectSize": "800019.0",
        "Qps": "5.9523809523809524E-5",
        "AvgResponseTime": "5183.666666666667"
      },
      {
        "Bps": "25110.431412698414",
        "Proportion": "0.31211467324291",
        "TotalBytes": "158195717",
        "BytesProportion": "0.23360872886644055",
        "TotalQuery": "81",
        "RegionEname": "hangzhou",
        "Region": "Hangzhou",
        "AvgResponseRate": "1397.1430909315718",
        "AvgObjectSize": "1953033.5543209878",
        "Qps": "0.0016071428571428571",
        "AvgResponseTime": "1397.8765432098764"
      },
      {
        "Bps": "40343.86242857143",
        "Proportion": "0.33908754623921084",
        "TotalBytes": "254166333",
        "BytesProportion": "0.37532921137846464",
        "TotalQuery": "88",
        "RegionEname": "chongqing",
        "Region": "Chongqing",
        "AvgResponseRate": "787.8073097249128",
        "AvgObjectSize": "2888253.7875",
        "Qps": "0.001746031746031746",
        "AvgResponseTime": "3666.193181818182"
      }
    ]
  },
  "DataInterval": "86400",
  "RequestId": "2E5AD83F-BD7B-462E-8319-2E30E305519A",
  "DomainName": "example.com",
  "EndTime": "2015-12-05T12:00:00Z",
  "StartTime": "2015-12-07T12:00:00Z"
}
```


Error codes

HTTP status code	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because the StartTime or EndTime parameter is not set.

HTTP status code	Error code	Error message	Description
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the specified end time is invalid. Specify the time in the ISO 8601 standard in yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the specified start time is invalid. Specify a valid value.
404	InvalidDomain.NotFound	The specified domain does not exist.	The error message returned because the specified domain name does not exist.

For a list of error codes, visit the API Error Center.

10.3. DescribeDcdnRegionAndIsp

Queries the list of Internet service providers (ISPs) and regions.

> **Note** The maximum number of times that each user can call this operation per second is 100.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnRegionAndIsp	The operation that you want to perform. Set the value to **DescribeDcdnRegionAndIsp**.

Response parameters

Parameter	Type	Example	Description
Isps	Array of Isp		The list of ISPs.
Isp			
NameEn	String	unicom	The English name of the ISP.
NameZh	String	unicom	The Chinese name of the ISP.
Regions	Array of Region		The list of regions.
Region			
NameEn	String	liaoning	The English name of the region.

Parameter	Type	Example	Description
NameZh	String	辽宁省	The Chinese name of the region.
RequestId	String	2387C335-932C-4E1E-862C-1C4363B6DE72	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnRegionAndIsp
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>2387C335-932C-4E1E-862C-1C4363B6DE72</RequestId>
<Regions>
    <Region>
        <NameEn>Papua New Guinea</NameEn>
        <NameZh>巴布亚新几内亚</NameZh>
    </Region>
    <Region>
        <NameEn>Cambodia</NameEn>
        <NameZh>柬埔寨</NameZh>
    </Region>
    <Region>
        <NameEn>ningxia</NameEn>
        <NameZh>宁夏回族自治区</NameZh>
    </Region>
    <Region>
        <NameEn>Kazakhstan</NameEn>
        <NameZh>哈萨克斯坦</NameZh>
    </Region>
    <Region>
        <NameEn>Paraguay</NameEn>
        <NameZh>巴拉圭</NameZh>
    </Region>
    <Region>
        <NameEn>Solomon Islands</NameEn>
        <NameZh>索罗门群岛</NameZh>
    </Region>
    <Region>
        <NameEn>Bahamas</NameEn>
        <NameZh>巴哈马</NameZh>
    </Region>
    <Region>
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        <NameZh>青海省</NameZh>
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        "NameZh": "JIO"
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        "NameEn": "HGC-ID",
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        "NameZh": "You Broadband"
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        "NameZh": "GTPL"
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      },
      {
        "NameEn": "Siti Broadband",
        "NameZh": "Siti Broadband"
      },
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        {
          "NameEn": "Ctrls",
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        },
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          "NameZh": "KVANT-TELECOM"
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          "NameZh": "MasMovil"
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          "NameZh": "浙江华数"
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          "NameZh": "Telehouse"
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          "NameZh": "jcn"
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          "NameZh": "CUSG"
        },
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          "NameZh": "ETL"
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          "NameEn": "CamGSM",
```

```
        "NameZh": "CamGSM"
      },
      {
        "NameEn": "CADCOMMS",
        "NameZh": "CADCOMMS"
      },
      {
        "NameEn": "Smartone",
        "NameZh": "Smartone"
      }
    ]
  }
}
```

Error codes

For a list of error codes, visit the API Error Center.

10.4. DescribeDcdnDomainHitRateData

Queries the byte hit ratios for an accelerated domain name.

Description

- You can call this operation up to 100 times per second per account.
- If you do not set the **StartTime** or **EndTime** parameter, the request returns the data collected in the last 24 hours. If you set both the **StartTime** and **EndTime** parameters, the request returns the data collected within the specified time range.

Time granularity

The time granularity supported by the Interval parameter varies with the maximum time range per query. The following table describes the time period within which historical data is available and the data delay.

Time granularity	Maximum time range per query	Historical data available	Data delay
5 minutes	3 days	93 days	15 minutes
1 hour	31 days	186 days	4 hours
1 day	366 days	366 days	04:00 on the next day

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainHitRateData	The operation that you want to perform. Set the value to **DescribeDcdnDomainHitRateData**.
DomainName	String	No	example.com	The accelerated domain name. You can specify only one domain name. If you do not specify a value for this parameter, all domain names are queried.

Parameter	Type	Required	Example	Description
StartTime	String	No	2018-03-02T12:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
EndTime	String	No	2018-03-02T15:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. The end time must be later than the start time.
Interval	String	No	300	The time interval between the data entries to return. Unit: seconds. The time granularity varies with the maximum time range per query. Valid values: 300 (5 minutes), 3600 (1 hour), and 86400 (1 day). For more information, see **Description**.

Response parameters

Parameter	Type	Example	Description
EndTime	String	2018-03-02T15:00:00Z	The end of the time range during which data was queried.
StartTime	String	2018-03-02T12:00:00Z	The beginning of the time range during which data was queried.
RequestId	String	4D07ABFE-4737-4834-B1B9-A661308C47B4	The ID of the request.
DomainName	String	example.com	The accelerated domain name.
DataInterval	String	3600	The time interval between the data entries returned. Unit: seconds.
HitRatePerInterval	Array of DataModule		The byte hit ratio at each time interval. The byte hit ratio is measured in percentage.
DataModule			
TimeStamp	String	2018-03-02T13:00:00Z	The timestamp of the data returned.
ByteHitRate	Float	0	The byte hit ratio.
ReqHitRate	Float	0	The request hit ratio.

Examples

Sample requests

```
http://dcdn.aliyuncs.com?Action=DescribeDcdnDomainHitRateData
&DomainName=example.com
&StartTime=2018-03-02T12:00:00Z
&EndTime=2018-03-02T15:00:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnDomainHitRateDataResponse>
 <DomainName>example.com</DomainName>
 <DataInterval>3600</DataInterval>
 <HitRatePerInterval>
  <DataModule>
   <ByteHitRate>0</ByteHitRate>
   <TimeStamp>2018-03-02T15:00:00Z</TimeStamp>
   <ReqHitRate>0</ReqHitRate>
  </DataModule>
  <DataModule>
   <ByteHitRate>0</ByteHitRate>
   <TimeStamp>2018-03-02T14:00:00Z</TimeStamp>
   <ReqHitRate>0</ReqHitRate>
  </DataModule>
  <DataModule>
   <ByteHitRate>0</ByteHitRate>
   <TimeStamp>2018-03-02T13:00:00Z</TimeStamp>
   <ReqHitRate>0</ReqHitRate>
  </DataModule>
  <DataModule>
   <ByteHitRate>0</ByteHitRate>
   <TimeStamp>2018-03-02T12:00:00Z</TimeStamp>
   <ReqHitRate>0</ReqHitRate>
  </DataModule>
 </HitRatePerInterval>
 <RequestId>4D07ABFE-4737-4834-B1B9-A661308C47B4</RequestId>
 <EndTime>2018-03-02T15:00:00Z</EndTime>
 <StartTime>2018-03-02T12:00:00Z</StartTime>
</DescribeDcdnDomainHitRateDataResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "DomainName" : "example.com",
  "DataInterval" : 3600,
  "HitRatePerInterval" : {
    "DataModule" : [ {
      "ByteHitRate" : 0,
      "TimeStamp" : "2018-03-02T15:00:00Z",
      "ReqHitRate" : 0
    }, {
      "ByteHitRate" : 0,
      "TimeStamp" : "2018-03-02T14:00:00Z",
      "ReqHitRate" : 0
    }, {
      "ByteHitRate" : 0,
      "TimeStamp" : "2018-03-02T13:00:00Z",
      "ReqHitRate" : 0
    }, {
      "ByteHitRate" : 0,
      "TimeStamp" : "2018-03-02T12:00:00Z",
      "ReqHitRate" : 0
    } ]
  },
  "RequestId" : "4D07ABFE-4737-4834-B1B9-A661308C47B4",
  "EndTime" : "2018-03-02T15:00:00Z",
  "StartTime" : "2018-03-02T12:00:00Z"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because no value is specified for the StartTime or EndTime parameter.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the EndTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the value specified for the StartTime parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

10.5. DescribeDcdnDomainIspData

Queries data statistics about accelerated domain names by Internet service provider (ISP). You can query the data that is collected over the last 90 days.

> **Note**
> - You can call this operation up to 100 times per second.
> - If **StartTime** is set but **EndTime** is not set, the data within the hour that starts from **StartTime** is queried.
> - If **EndTime** is set but **StartTime** is not set, the data within the last hour that precedes **EndTime** is queried.
> - You can query data of a domain name or all domain names that belong to your account.
> - You can view data that is collected over the last seven days. The interval at which data is queried is based on the time range specified by **StartTime** and **EndTime**.
> - **If the time range is shorter than or equal to one hour**, data is queried every minute.
> - **If the time range is longer than 1 hour but shorter than or equal to three days**, data is queried every five minutes.
> - **If the time range is longer than three days but shorter than or equal to seven days**, data is queried every hour.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	No	DescribeDcdnDomainIspData	The operation that you want to perform. Set the value to **DescribeDcdnDomainIspData**.
DomainName	String	No	example.com	The accelerated domain name. You can specify only one domain name in each request. If you do not specify an accelerated domain name, the data of all accelerated domain names that belong to your account is queried.
StartTime	String	No	2019-12-05T12:00:00Z	The beginning of the time range to query. Specify the time in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
EndTime	String	No	2019-12-06T12:00:00Z	The end of the time range to query. Specify the time in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. **Note** The end time must be later than the start time.

Response parameters

Parameter	Type	Example	Description
DataInterval	String	86400	The time interval between the data entries returned. Unit: seconds.
DomainName	String	example.com	The accelerated domain name.
EndTime	String	2019-12-06T12:00:00Z	The end of the time range during which data was queried.

Parameter	Type	Example	Description
RequestId	String	2E5AD83F-BD7B-462E-8319-2E30E305519A	The ID of the request.
StartTime	String	2019-12-05T12:00:00Z	The beginning of the time range during which data was queried.
Value	Array of IspProportionData		The access statistics by ISP.
IspProportionData			
AvgObjectSize	String	800019.0	The average response size. Unit: bytes.
AvgResponseRate	String	154.3345765545624	The average response speed. Unit: byte/ms.
AvgResponseTime	String	5183.666666666667	The average response time. Unit: milliseconds.
Bps	String	380.9614285714286	The bandwidth.
BytesProportion	String	0.003544181046236794	The proportion of network traffic. For example, a value of 90 indicates that 90% of network traffic was coming from the specified ISP.
Isp	String	China Unicom	The information about the ISP.
IspEname	String	unicom	The name of the ISP.
Proportion	String	0.01155980271270037	The proportion of requests.
Qps	String	5.9523809523809524E-5	The number of queries per second.
TotalBytes	String	2400057	The total amount of network traffic.
TotalQuery	String	3	The total number of requests.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainIspData
&DomainName=example.com
&StartTime=2019-12-05T12:00:00Z
&EndTime=2019-12-06T12:00:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnDomainIspDataResponse>
   <Value>
      <IspProportionData>
         <Bps>380.9614285714286</Bps>
         <Proportion>0.01155980271270037</Proportion>
         <TotalBytes>2400057</TotalBytes>
         <BytesProportion>0.003544181046236794</BytesProportion>
         <TotalQuery>3</TotalQuery>
         <IspEname>unicom</IspEname>
         <Isp>China Unicom</Isp>
         <AvgResponseRate>154.3345765545624</AvgResponseRate>
         <AvgObjectSize>800019.0</AvgObjectSize>
         <Qps>5.9523809523809524E-5</Qps>
         <AvgResponseTime>5183.666666666667</AvgResponseTime>
      </IspProportionData>
      <IspProportionData>
         <Bps>25110.431412698414</Bps>
         <Proportion>0.31211467324291</Proportion>
         <TotalBytes>158195717</TotalBytes>
         <BytesProportion>0.23360872886644055</BytesProportion>
         <TotalQuery>81</TotalQuery>
         <IspEname>telecom</IspEname>
         <Isp>China Telecom</Isp>
         <AvgResponseRate>1397.1430909315718</AvgResponseRate>
         <AvgObjectSize>1953033.5543209878</AvgObjectSize>
         <Qps>0.0016071428571428571</Qps>
         <AvgResponseTime>1397.8765432098764</AvgResponseTime>
      </IspProportionData>
      <IspProportionData>
         <Bps>40343.86242857143</Bps>
         <Proportion>0.33908754623921084</Proportion>
         <TotalBytes>254166333</TotalBytes>
         <BytesProportion>0.37532921137846464</BytesProportion>
         <TotalQuery>88</TotalQuery>
         <IspEname>mobile</IspEname>
         <Isp>China Mobile</Isp>
         <AvgResponseRate>787.8073097249128</AvgResponseRate>
         <AvgObjectSize>2888253.7875</AvgObjectSize>
         <Qps>0.00174603174603174 6</Qps>
         <AvgResponseTime>3666.193181818182</AvgResponseTime>
      </IspProportionData>
   </Value>
   <DataInterval>86400</DataInterval>
   <RequestId>2E5AD83F-BD7B-462E-8319-2E30E305519A</RequestId>
   <DomainName>example.com</DomainName>
   <EndTime>2019-12-06T12:00:00Z</EndTime>
   <StartTime>2019-12-05T12:00:00Z</StartTime>
</DescribeDcdnDomainIspDataResponse>
```


`JSON` format

```
{
  "Value": {
    "IspProportionData": [
      {
        "Bps": "380.9614285714286",
        "Proportion": "0.01155980271270037",
        "TotalBytes": "2400057",
        "BytesProportion": "0.003544181046236794",
        "TotalQuery": "3",
        "IspEname": "unicom",
        "Isp": "China Unicom",
        "AvgResponseRate": "154.3345765545624",
        "AvgObjectSize": "800019.0",
        "Qps": "5.9523809523809524E-5",
        "AvgResponseTime": "5183.666666666667"
      },
      {
        "Bps": "25110.431412698414",
        "Proportion": "0.31211467324291",
        "TotalBytes": "158195717",
        "BytesProportion": "0.23360872886644055",
        "TotalQuery": "81",
        "IspEname": "telecom",
        "Isp": "China Telecom",
        "AvgResponseRate": "1397.1430909315718",
        "AvgObjectSize": "1953033.5543209878",
        "Qps": "0.0016071428571428571",
        "AvgResponseTime": "1397.8765432098764"
      },
      {
        "Bps": "40343.86242857143",
        "Proportion": "0.33908754623921084",
        "TotalBytes": "254166333",
        "BytesProportion": "0.37532921137846464",
        "TotalQuery": "88",
        "IspEname": "mobile",
        "Isp": "China Mobile",
        "AvgResponseRate": "787.8073097249128",
        "AvgObjectSize": "2888253.7875",
        "Qps": "0.001746031746031746",
        "AvgResponseTime": "3666.193181818182"
      }
    ]
  },
  "DataInterval": "86400",
  "RequestId": "2E5AD83F-BD7B-462E-8319-2E30E305519A",
  "DomainName": "example.com",
  "EndTime": "2019-12-06T12:00:00Z",
  "StartTime": "2019-12-05T12:00:00Z"
}
```


Error codes

HttpCode	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because no values are specified for the StartTime and EndTime parameters.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the EndTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.

HttpCode	Error code	Error message	Description
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the value specified for the StartTime parameter is invalid. Specify a valid value.
404	InvalidDomain.NotFound	The specified domain does not exist.	The error message returned because the specified domain name does not exist.

For a list of error codes, visit the API Error Center.

10.6. DescribeDcdnDomainQpsData

Queries the number of queries per second (QPS) for one or more accelerated domain names.

Description

- You can call this operation up to 100 times per second per account.
- If you do not set the **StartTime** or **EndTime** parameter, the request returns the data collected in the last 24 hours. If you set both the **StartTime** and **EndTime** parameters, the request returns the data collected within the specified time range.

Time granularity

The time granularity supported by the Interval parameter varies with the maximum time range per query. The following table describes the time period within which historical data is available and the data delay.

Time granularity	Maximum time range per query	Historical data available	Data delay
5 minutes	3 days	93 days	15 minutes
1 hour	31 days	186 days	4 hours
1 day	366 days	366 days	04:00 on the next day

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainQpsData	The operation that you want to perform. Set the value to **DescribeDcdnDomainQpsData**.
DomainName	String	No	example.com	The accelerated domain name. Separate multiple domain names with commas (,). If you do not specify a value for this parameter, all accelerated domain names are queried.

Parameter	Type	Required	Example	Description
StartTime	String	No	2017-12-10T20:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
EndTime	String	No	2017-12-10T21:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. **Note** The end time must be later than the start time.
Interval	String	No	300	The time interval between the data entries to return. Unit: seconds. The time granularity varies with the maximum time range per query. Valid values: 300 (5 minutes), 3600 (1 hour), and 86400 (1 day). For more information, see **Description**.
IspNameEn	String	No	unicom	The name of the Internet service provider (ISP). You can call the DescribeDcdnRegionAndIsp operation to query ISPs.
LocationNameEn	String	No	beijing	The name of the region. You can call the DescribeDcdnRegionAndIsp operation to query regions.

Note You can call this operation up to 100 times per second per account.

Response parameters

Parameter	Type	Example	Description
EndTime	String	2017-12-10T21:00:00Z	The end of the time range during which data was queried.
StartTime	String	2017-12-10T20:00:00Z	The beginning of the time range during which data was queried.
RequestId	String	BEA5625F-8FCF-48F4-851B-CA63946DA664	The ID of the request.
DomainName	String	example.com	The accelerated domain name.
DataInterval	String	300	The time interval between the data entries returned. Unit: seconds.
QpsDataPerInterval	Array of DataModule		The QPS returned at each time interval.

Parameter	Type	Example	Description
DataModule			
DynamicHttpsAcc	Float	0	The number of requests for dynamic content delivery over HTTPS.
DynamicHttpAcc	Float	0	The number of requests for dynamic content delivery over HTTP.
Qps	Float	0.56	The total QPS.
StaticHttpsAcc	Float	0	The number of requests for static content delivery over HTTPS.
StaticHttpQps	Float	0	The QPS for static content delivery over HTTP.
StaticHttpAcc	Float	0	The number of requests for static content delivery over HTTP.
DynamicHttpsQps	Float	0	The QPS for dynamic content delivery over HTTPS.
Acc	Float	100	The total number of requests.
StaticHttpsQps	Float	0	The QPS for static content delivery over HTTPS.
DynamicHttpQps	Float	0	The QPS for dynamic content delivery over HTTP.
TimeStamp	String	2017-12-10T21:00:00Z	The timestamp of the data returned.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainQpsData
&DomainName=example.com
&StartTime=2017-12-10T20:00:00Z
&EndTime=2017-12-10T21:00:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnDomainQpsDataResponse>
 <QpsDataPerInterval>
  <DataModule>
   <TimeStamp>2017-12-10T21:00:00Z</TimeStamp>
   <Qps>0.56</Qps>
   <DynamicHttpQps>0.28</DynamicHttpQps>
   <DynamicHttpsQps>0.28</DynamicHttpsQps>
   <StaticHttpQps>0</StaticHttpQps>
   <StaticHttpsQps>0</StaticHttpsQps>
   <Acc>100</Acc>
   <DynamicHttpAcc>50</DynamicHttpAcc>
   <DynamicHttpsAcc>50</DynamicHttpsAcc>
   <StaticHttpAcc>0</StaticHttpAcc>
   <StaticHttpsAcc>0</StaticHttpsAcc>
  </DataModule>
 </QpsDataPerInterval>
 <DomainName>example.com</DomainName>
 <DataInterval>300</DataInterval>
 <RequestId>BEA5625F-8FCF-48F4-851B-CA63946DA664</RequestId>
 <StartTime>2017-12-10T20:00:00Z</StartTime>
 <EndTime>2017-12-10T21:00:00Z</EndTime>
</DescribeDcdnDomainQpsDataResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "QpsDataPerInterval" : {
    "DataModule" : [ {
      "TimeStamp" : "2017-12-10T21:00:00Z",
      "Qps" : 0.56,
      "DynamicHttpQps" : 0.28,
      "DynamicHttpsQps" : 0.28,
      "StaticHttpQps" : 0,
      "StaticHttpsQps" : 0,
      "Acc" : 100,
      "DynamicHttpAcc" : 50,
      "DynamicHttpsAcc" : 50,
      "StaticHttpAcc" : 0,
      "StaticHttpsAcc" : 0
    } ]
  },
  "DomainName" : "example.com",
  "DataInterval" : "300",
  "RequestId" : "BEA5625F-8FCF-48F4-851B-CA63946DA664",
  "StartTime" : "2017-12-10T20:00:00Z",
  "EndTime" : "2017-12-10T21:00:00Z"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because no value is specified for the StartTime or EndTime parameter.

HTTP status code	Error code	Error message	Description
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the EndTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the value specified for the StartTime parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

10.7. DescribeDcdnDomainBpsData

Queries bandwidth data of one or more accelerated domain names.

Description

- You can call this operation up to 100 times per second per account.
- If you do not set the **StartTime** or **EndTime** parameter, the request returns the data collected in the last 24 hours. If you set both the **StartTime** and **EndTime** parameters, the request returns the data collected within the specified time range.

Time granularity

The time granularity supported by the Interval parameter varies with the maximum time range per query. The following table describes the time period within which historical data is available and the data delay.

Time granularity	Maximum time range per query	Historical data available	Data delay
5 minutes	3 days	93 days	15 minutes
1 hour	31 days	186 days	4 hours
1 day	366 days	366 days	04:00 on the next day

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainBpsData	The operation that you want to perform. Set the value to **DescribeDcdnDomainBpsData**.
DomainName	String	No	example.com	The accelerated domain name. Separate multiple domain names with commas (,). If you do not specify a value for this parameter, all accelerated domain names are queried.

Parameter	Type	Required	Example	Description
StartTime	String	No	2017-12-10T20:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
EndTime	String	No	2017-12-10T21:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. **Note** The end time must be later than the start time.
Interval	String	No	300	The time interval between the data entries to return. Unit: seconds. The time granularity varies with the maximum time range per query. Valid values: 300 (5 minutes), 3600 (1 hour), and 86400 (1 day). For more information, see **Description**.
IspNameEn	String	No	beijing	The name of the Internet service provider (ISP). You can call the DescribeDcdnRegionAndIsp operation to query ISPs.
LocationNameEn	String	No	unicom	The name of the region. You can call the DescribeDcdnRegionAndIsp operation to query regions.

Response parameters

Parameter	Type	Example	Description
EndTime	String	2017-12-10T21:00:00Z	The end of the time range during which data was queried.
StartTime	String	2017-12-10T10:00:00Z	The beginning of the time range during which data was queried.
RequestId	String	3C6CCEC4-6B88-4D4A-93E4-D47B3D92CF8F	The ID of the request.
DomainName	String	example.com	The accelerated domain name.
DataInterval	String	300	The time interval between the data entries returned.
BpsDataPerInterval	Array of DataModule		The bandwidth data returned at each interval.
DataModule			
TimeStamp	String	2017-12-10T20:00:00Z	The timestamp of the data returned.

Parameter	Type	Example	Description
StaticHttpsBps	Float	123	The bandwidth that was consumed to deliver static content over HTTPS, in bit/s.
Bps	Float	11286	The bandwidth value. Unit: bit/s.
DynamicHttpsBps	Float	12312	The bandwidth that was consumed to deliver dynamic content over HTTPS, in bit/s.
DynamicHttpBps	Float	11286111	The bandwidth that was consumed to deliver dynamic content over HTTP, in bit/s.
StaticHttpBps	Float	123	The bandwidth that was consumed to deliver static content over HTTP, in bit/s.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainBpsData
&DomainName=example.com
&StartTime=2017-12-10T20:00:00Z
&EndTime=2017-12-10T21:00:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnDomainBpsDataResponse>
 <BpsDataPerInterval>
  <DataModule>
   <TimeStamp>2017-12-10T20:00:00Z</TimeStamp>
   <Bps>11288111</Bps>
   <DynamicHttpBps>11286111</DynamicHttpBps>
   <DynamicHttpsBps>2000</DynamicHttpsBps>
   <StaticHttpBps>0</StaticHttpBps>
   <StaticHttpsBps>0</StaticHttpsBps>
  </DataModule>
  <DataModule>
   <TimeStamp>2017-12-10T20:05:00Z</TimeStamp>
   <Bps>11288111</Bps>
   <DynamicHttpBps>11286111</DynamicHttpBps>
   <DynamicHttpsBps>2000</DynamicHttpsBps>
   <StaticHttpBps>0</StaticHttpBps>
   <StaticHttpsBps>0</StaticHttpsBps>
  </DataModule>
 </BpsDataPerInterval>
 <DomainName>example.com</DomainName>
 <DataInterval>300</DataInterval>
 <RequestId>3C6CCEC4-6B88-4D4A-93E4-D47B3D92CF8F</RequestId>
 <StartTime>2017-12-10T20:00:00Z</StartTime>
 <EndTime>2017-12-10T21:00:00Z</EndTime>
</DescribeDcdnDomainBpsDataResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "BpsDataPerInterval" : {
    "DataModule" : [ {
      "TimeStamp" : "2017-12-10T20:00:00Z",
      "Bps" : 11288111,
      "DynamicHttpBps" : 11286111,
      "DynamicHttpsBps" : 2000,
      "StaticHttpBps" : 0,
      "StaticHttpsBps" : 0
    }, {
      "TimeStamp" : "2017-12-10T20:05:00Z",
      "Bps" : 11288111,
      "DynamicHttpBps" : 11286111,
      "DynamicHttpsBps" : 2000,
      "StaticHttpBps" : 0,
      "StaticHttpsBps" : 0
    } ]
  },
  "DomainName" : "example.com",
  "DataInterval" : "300",
  "RequestId" : "3C6CCEC4-6B88-4D4A-93E4-D47B3D92CF8F",
  "StartTime" : "2017-12-10T10:00:00Z",
  "EndTime" : "2017-12-10T21:00:00Z"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because no value is specified for the StartTime or EndTime parameter.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the EndTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the value specified for the StartTime parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

10.8. DescribeDcdnDomainTrafficData

Queries network traffic of one or more accelerated domain names.

Description

- If you do not set the **StartTime** or **EndTime** parameter, the request returns the data collected in the last 24 hours. If you set both the **StartTime** and **EndTime** parameters, the request returns the data collected within the specified time range.
- You can call this operation up to 100 times per second per account.

Time granularity

The time granularity supported by the Interval parameter varies with the maximum time range per query. The following table describes the time period within which historical data is available and the data delay.

Time granularity	Maximum time range per query	Historical data available	Data delay
5 minutes	3 days	93 days	15 minutes
1 hour	31 days	186 days	4 hours
1 day	366 days	366 days	04:00 on the next day

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainTrafficData	The operation that you want to perform. Set the value to **DescribeDcdnDomainTrafficData**.
DomainName	String	No	example.com	The accelerated domain name. Separate multiple domain names with commas (,). If you do not specify a value for this parameter, all accelerated domain names are queried.
StartTime	String	No	2017-12-10T20:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
EndTime	String	No	2017-12-10T21:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. **Note** The end time must be later than the start time.
Interval	String	No	300	The time interval between the data entries to return. Unit: seconds. The time granularity varies with the maximum time range per query. Valid values: 300 (5 minutes), 3600 (1 hour), and 86400 (1 day). For more information, see **Description**.

Parameter	Type	Required	Example	Description
IspNameEn	String	No	unicom	The name of the Internet service provider (ISP). You can call the DescribeDcdnRegionAndIsp operation to query ISPs.
LocationNameEn	String	No	beijing	The name of the region. You can call the DescribeDcdnRegionAndIsp operation to query regions.

Response parameters

Parameter	Type	Example	Description
EndTime	String	2017-12-10T21:00:00Z	The end of the time range during which data was queried.
StartTime	String	2017-12-10T20:00:00Z	The beginning of the time range during which data was queried.
RequestId	String	B955107D-E658-4E77-B913-E0AC3D31693E	The ID of the request.
DomainName	String	example.com	The accelerated domain name.
DataInterval	String	300	The time interval between the data entries returned. Unit: seconds.
TrafficDataPerInterval	Array of DataModule		The amount of network traffic at each time interval. Unit: bytes.
DataModule			
StaticHttpTraffic	Float	123	The network traffic that was consumed to deliver static content over HTTP.
DynamicHttpsTraffic	Float	0	The network traffic that was consumed to deliver dynamic content over HTTPS.
Traffic	Float	0	The total amount of network traffic.
DynamicHttpTraffic	Float	0	The network traffic that was consumed to deliver dynamic content over HTTP.
TimeStamp	String	2017-12-10T20:00:00Z	The timestamp of the data returned.
StaticHttpsTraffic	Float	132	The network traffic that was consumed to deliver static content over HTTPS.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainTrafficData
&DomainName=example.com
&StartTime=2017-12-10T20:00:00Z
&EndTime=2017-12-10T21:00:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnDomainTrafficDataResponse>
 <DomainName>example.com</DomainName>
 <DataInterval>300</DataInterval>
 <TrafficDataPerInterval>
  <DataModule>
   <TimeStamp>2017-12-10T20:00:00Z</TimeStamp>
   <Traffic>423304182</Traffic>
   <DynamicHttpTraffic>0</DynamicHttpTraffic>
   <DynamicHttpsTraffic>423304182</DynamicHttpsTraffic>
   <StaticHttpTraffic>0</StaticHttpTraffic>
   <StaticHttpsTraffic>0</StaticHttpsTraffic>
  </DataModule>
 </TrafficDataPerInterval>
 <RequestId>B955107D-E658-4E77-B913-E0AC3D31693E</RequestId>
 <StartTime>2017-12-10T20:00:00Z</StartTime>
 <EndTime>2017-12-10T21:00:00Z</EndTime>
</DescribeDcdnDomainTrafficDataResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "DomainName" : "example.com",
  "DataInterval" : "300",
  "TrafficDataPerInterval" : {
    "DataModule" : [ {
      "TimeStamp" : "2017-12-10T20:00:00Z",
      "Traffic" : 423304182,
      "DynamicHttpTraffic" : 0,
      "DynamicHttpsTraffic" : 423304182,
      "StaticHttpTraffic" : 0,
      "StaticHttpsTraffic" : 0
    } ]
  },
  "RequestId" : "B955107D-E658-4E77-B913-E0AC3D31693E",
  "StartTime" : "2017-12-10T20:00:00Z",
  "EndTime" : "2017-12-10T21:00:00Z"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because no value is specified for the StartTime or EndTime parameter.

HTTP status code	Error code	Error message	Description
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the EndTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the value specified for the StartTime parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

10.9. DescribeDcdnDomainOriginBpsData

Queries back-to-origin bandwidth of one or more accelerated domain names.

Description

- You can call this operation up to 100 times per second per account.
- If you do not set the **StartTime** or **EndTime** parameters, the request returns the data collected in the last 24 hours. If you set both the **StartTime** and **EndTime** parameters, the request returns the data collected within the specified time range.

Time granularity

The time granularity supported by the Interval parameter varies with the maximum time range per query. The following table describes the time period within which historical data is available and the data delay.

Time granularity	Maximum time range per query	Historical data available	Data delay
5 minutes	3 days	93 days	15 minutes
1 hour	31 days	186 days	4 hours
1 day	366 days	366 days	04:00 on the next day

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainOriginBpsData	The operation that you want to perform. Set the value to **DescribeDcdnDomainOriginBpsData**.
DomainName	String	No	example.com	The accelerated domain name. Separate multiple accelerated domain names with commas (,). If you do not specify a value for this parameter, all accelerated domain names are queried.

Parameter	Type	Required	Example	Description
StartTime	String	No	2019-12-10T00:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
EndTime	String	No	2019-12-11T00:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. **Note** The end time must be later than the start time.
Interval	String	No	300	The time interval between the data entries to return. Unit: seconds. The time granularity varies with the maximum time range per query. Valid values: 300 (5 minutes), 3600 (1 hour), and 86400 (1 day). For more information, see **Description**.

Response parameters

Parameter	Type	Example	Description
EndTime	String	2019-12-11T00:00:00Z	The end of the time range during which data was queried.
StartTime	String	2019-12-10T00:00:00Z	The beginning of the time range during which data was queried.
RequestId	String	7CBCD6AD-B016-42E5-AE0B-B3731DE8F755	The ID of the request.
DomainName	String	example.com	The accelerated domain name.
DataInterval	String	300	The time interval between the data entries returned. Unit: seconds.
OriginBpsDataPerInterval	Array of DataModule		The back-to-origin bandwidth returned at each interval. Unit: bit/s.
DataModule			
DynamicHttpOriginBps	Float	100	The bandwidth that was consumed for fetching dynamic content from the origin over HTTP.
StaticHttpOriginBps	Float	100	The bandwidth that was consumed for fetching static content from the origin over HTTP.
TimeStamp	String	2019-12-10T00:00:00Z	The timestamp of the data returned.

Parameter	Type	Example	Description
StaticHttpsOriginBps	Float	100	The bandwidth that was consumed for fetching static content from the origin over HTTPS.
OriginBps	Float	100	The bandwidth that was consumed for fetching content from the origin.
DynamicHttpsOriginBps	Float	100	The bandwidth that was consumed for fetching dynamic content from the origin over HTTPS.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainOriginBpsData
&DomainName=example.com
&StartTime=2019-12-10T00:00:00Z
&EndTime=2019-12-11T00:00:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnDomainOriginBpsDataResponse>
<DomainName>example.com</DomainName>
<DataInterval>300</DataInterval>
<RequestId>73769293-5997-491D-8FEA-B98F6E59DF38</RequestId>
<OriginBpsDataPerInterval>
    <DataModule>
        <DynamicHttpOriginBps>0</DynamicHttpOriginBps>
        <TimeStamp>2019-12-10T21:00:00Z</TimeStamp>
        <OriginBps>0</OriginBps>
        <StaticHttpOriginBps>0</StaticHttpOriginBps>
        <StaticHttpsOriginBps>0</StaticHttpsOriginBps>
        <DynamicHttpsOriginBps>0</DynamicHttpsOriginBps>
    </DataModule>
</OriginBpsDataPerInterval>
<EndTime>2019-12-10T21:05:00Z</EndTime>
<StartTime>2019-12-10T21:00:00Z</StartTime>
</DescribeDcdnDomainOriginBpsDataResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "DomainName" : "example.com",
  "DataInterval" : 300,
  "RequestId" : "73769293-5997-491D-8FEA-B98F6E59DF38",
  "OriginBpsDataPerInterval" : {
    "DataModule" : [ {
      "DynamicHttpOriginBps" : 0,
      "TimeStamp" : "2019-12-10T21:00:00Z",
      "OriginBps" : 0,
      "StaticHttpOriginBps" : 0,
      "StaticHttpsOriginBps" : 0,
      "DynamicHttpsOriginBps" : 0
    } ]
  },
  "EndTime" : "2019-12-10T21:05:00Z",
  "StartTime" : "2019-12-10T21:00:00Z"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because no value is specified for the StartTime or EndTime parameter.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the EndTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the value specified for the StartTime parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

10.10. DescribeDcdnDomainOriginTrafficData

Queries the back-to-origin traffic of one or more accelerated domain names.

Description

- You can call this operation up to 100 times per second per account.
- If you do not set the **StartTime** or **EndTime** parameters, the request returns the data collected in the last 24 hours. If you set both the **StartTime** and **EndTime** parameters, the request returns the data collected within the specified time range.

Time granularity

The time granularity supported by the Interval parameter varies with the maximum time range per query. The following table describes the time period within which historical data is available and the data delay.

Time granularity	Maximum time range per query	Historical data available	Data delay
5 minutes	3 days	93 days	15 minutes
1 hour	31 days	186 days	4 hours
1 day	366 days	366 days	04:00 on the next day

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainOriginTrafficData	The operation that you want to perform. Set the value to **DescribeDcdnDomainOriginTrafficData**.
DomainName	String	No	example.com	The accelerated domain name. Separate multiple accelerated domain names with commas (,). If you do not specify a value for this parameter, all accelerated domain names are queried.
StartTime	String	No	2017-12-10T20:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
EndTime	String	No	2017-12-10T21:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. **Note** The end time must be later than the start time.
Interval	String	No	300	The time interval between the data entries to return. Unit: seconds. The time granularity varies with the maximum time range per query. Valid values: 300 (5 minutes), 3600 (1 hour), and 86400 (1 day). For more information, see **Description**.

Response parameters

Parameter	Type	Example	Description
EndTime	String	2017-12-10T21:00:00Z	The end of the time range during which data was queried.

Parameter	Type	Example	Description
StartTime	String	2017-12-10T20:00:00Z	The beginning of the time range during which data was queried.
RequestId	String	A666D44F-19D6-490E-97CF-1A64AB962C57	The ID of the request.
DomainName	String	example.com	The accelerated domain name.
DataInterval	String	300	The time interval between the data entries returned. Unit: seconds.
OriginTrafficDataPerInterval	Array of DataModule		The amount of back-to-origin traffic returned at each time interval. Unit: bytes.
DataModule			
DynamicHttpOriginTraffic	Float	1000	The amount of back-to-origin traffic that was consumed to deliver dynamic content over HTTP.
StaticHttpsOriginTraffic	Float	100	The amount of back-to-origin traffic that was consumed to deliver static content over HTTPS.
OriginTraffic	Float	100	The amount of back-to-origin traffic.
StaticHttpOriginTraffic	Float	0	The amount of back-to-origin traffic that was consumed to deliver static content over HTTP.
DynamicHttpsOriginTraffic	Float	500	The amount of back-to-origin traffic that was consumed to deliver dynamic content over HTTPS.
TimeStamp	String	2017-12-10T21:00:00Z	The timestamp of the data returned.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainOriginTrafficData
&DomainName=example.com
&StartTime=2017-12-10T20:00:00Z
&EndTime=2017-12-10T21:00:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnDomainOriginTrafficDataResponse>
 <DomainName>example.com</DomainName>
 <DataInterval>300</DataInterval>
 <OriginTrafficDataPerInterval>
  <DataModule>
   <TimeStamp>2017-12-10T21:00:00Z</TimeStamp>
   <OriginTraffic>1000</OriginTraffic>
   <DynamicHttpOriginTraffic>500</DynamicHttpOriginTraffic>
   <DynamicHttpsOriginTraffic>500</DynamicHttpsOriginTraffic>
   <StaticHttpOriginTraffic>0</StaticHttpOriginTraffic>
   <StaticHttpsOriginTraffic>0</StaticHttpsOriginTraffic>
  </DataModule>
 </OriginTrafficDataPerInterval>
 <RequestId>A666D44F-19D6-490E-97CF-1A64AB962C57</RequestId>
 <StartTime>2017-12-10T20:00:00Z</StartTime>
 <EndTime>2017-12-10T21:00:00Z</EndTime>
</DescribeDcdnDomainOriginTrafficDataResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "DomainName" : "example.com",
  "DataInterval" : "300",
  "OriginTrafficDataPerInterval" : {
    "DataModule" : [ {
      "TimeStamp" : "2017-12-10T21:00:00Z",
      "OriginTraffic" : 1000,
      "DynamicHttpOriginTraffic" : 500,
      "DynamicHttpsOriginTraffic" : 500,
      "StaticHttpOriginTraffic" : 0,
      "StaticHttpsOriginTraffic" : 0
    } ]
  },
  "RequestId" : "A666D44F-19D6-490E-97CF-1A64AB962C57",
  "StartTime" : "2017-12-10T20:00:00Z",
  "EndTime" : "2017-12-10T21:00:00Z"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because no value is specified for the StartTime or EndTime parameter.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the EndTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the value specified for the StartTime parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

10.11. DescribeDcdnDomainWebsocketHttpCodeData

Queries the total number of times that each HTTP status code returned and the proportion of each HTTP status code for accelerated domain names that have WebSocket enabled.

Description

You can call this operation up to 100 times per second per account.

Time granularity

The time granularity supported by the Interval parameter varies with the maximum time range per query. The following table describes the time period within which historical data is available and the data delay.

Time granularity	Maximum time range per query	Historical data available	Data delay
5 minutes	3 days	93 days	15 minutes
1 hour	31 days	186 days	4 hours
1 day	366 days	366 days	04:00 on the next day

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainWebsocketHttpCodeData	The operation that you want to perform. Set the value to **DescribeDcdnDomainWebsocketHttpCodeData**.
DomainName	String	Yes	example.com	The accelerated domain name. Separate multiple accelerated domain names with commas (,).
StartTime	String	No	2018-03-01T05:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
EndTime	String	No	2018-03-01T06:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. **Note** The end time must be later than the start time.

Parameter	Type	Required	Example	Description
Interval	String	No	300	The time interval between the data entries to return. Unit: seconds. The time granularity varies with the maximum time range per query. Valid values: 300 (5 minutes), 3600 (1 hour), and 86400 (1 day). For more information, see **Description**.
IspNameEn	String	No	unicom	The name of the Internet service provider (ISP). You can call the DescribeDcdnRegionAndIsp operation to query ISPs.
LocationNameEn	String	No	beijing	The name of the region. You can call the DescribeDcdnRegionAndIsp operation to query regions.

Response parameters

Parameter	Type	Example	Description
EndTime	String	2018-03-01T13:00:00Z	The end of the time range during which data was queried.
StartTime	String	2018-03-01T05:00:00Z	The beginning of the time range during which data was queried.
RequestId	String	91FC2D9D-B042-4634-8A5C-7B8E7482C22D	The ID of the request.
DomainName	String	example.com	The accelerated domain name.
DataInterval	String	3600	The time interval between the data entries returned. Unit: seconds.
HttpCodeDataPerInterval	Array of DataModule		The HTTP status codes.
DataModule			
TimeStamp	String	2018-03-01T13:00:00Z	The timestamp of the data returned.
WebsocketHttpCode	Array of HttpCodeDataModule		The information about the HTTP status codes.
HttpCodeDataModule			
Code	Integer	404	The HTTP status code.
Proportion	Float	100	The proportion of the HTTP status code.

Parameter	Type	Example	Description
Count	Float	16	The total number of times that the HTTP status code was returned.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainWebsocketHttpCodeData
&DomainName=example.com
&StartTime=2018-03-01T05:00:00Z
&EndTime=2018-03-01T06:00:00Z
&Interval=300
&IspNameEn=unicom
&LocationNameEn=beijing
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnDomainWebsocketHttpCodeDataResponse>
 <DataInterval>3600</DataInterval>
 <RequestId>91FC2D9D-B042-4634-8A5C-7B8E7482C22D</RequestId>
 <EndTime>2018-03-01T13:00:00Z</EndTime>
 <StartTime>2018-03-01T05:00:00Z</StartTime>
 <HttpCodeDataPerInterval>
  <DataModule>
   <TimeStamp>2018-03-01T13:00:00Z</TimeStamp>
   <WebsocketHttpCode></WebsocketHttpCode>
  </DataModule>
  <DataModule>
   <TimeStamp>2018-03-01T12:00:00Z</TimeStamp>
   <WebsocketHttpCode>
    <HttpCodeDataModule>
     <Count>16</Count>
     <Proportion>100</Proportion>
     <Code>404</Code>
    </HttpCodeDataModule>
   </WebsocketHttpCode>
  </DataModule>
  <DataModule>
   <TimeStamp>2018-03-01T11:00:00Z</TimeStamp>
   <WebsocketHttpCode>
    <HttpCodeDataModule>
     <Count>9</Count>
     <Proportion>50</Proportion>
     <Code>403</Code>
    </HttpCodeDataModule>
    <HttpCodeDataModule>
     <Count>9</Count>
     <Proportion>50</Proportion>
     <Code>504</Code>
    </HttpCodeDataModule>
   </WebsocketHttpCode>
  </DataModule>
 </HttpCodeDataPerInterval>
</DescribeDcdnDomainWebsocketHttpCodeDataResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "DataInterval" : 3600,
  "RequestId" : "91FC2D9D-B042-4634-8A5C-7B8E7482C22D",
  "EndTime" : "2018-03-01T13:00:00Z",
  "StartTime" : "2018-03-01T05:00:00Z",
  "HttpCodeDataPerInterval" : {
    "DataModule" : [ {
      "TimeStamp" : "2018-03-01T13:00:00Z",
      "WebsocketHttpCode" : {
        "HttpCodeDataModule" : [ ]
      }
    }, {
      "TimeStamp" : "2018-03-01T12:00:00Z",
      "WebsocketHttpCode" : {
        "HttpCodeDataModule" : [ {
          "Count" : 16,
          "Proportion" : 100,
          "Code" : 404
        } ]
      }
    }, {
      "TimeStamp" : "2018-03-01T11:00:00Z",
      "WebsocketHttpCode" : {
        "HttpCodeDataModule" : [ {
          "Count" : 9,
          "Proportion" : 50,
          "Code" : 403
        }, {
          "Count" : 9,
          "Proportion" : 50,
          "Code" : 504
        } ]
      }
    } ]
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because no value is specified for the StartTime or EndTime parameter.

For a list of error codes, visit the API Error Center.

10.12. DescribeDcdnDomainWebsocketBpsData

Queries bandwidth of one or more accelerated domain names for which WebSocket is enabled.

Description

- You can call this operation up to 100 times per second per account.
- If you do not set the **StartTime** or **EndTime** parameter, the request returns the data collected in the last hour. If you set both the **StartTime** and **EndTime** parameters, the request returns the data collected within the specified time range.

Time granularity

The time granularity supported by the Interval parameter varies with the maximum time range per query. The following table describes the time period within which historical data is available and the data delay.

Time granularity	Maximum time range per query	Historical data available	Data delay
5 minutes	3 days	93 days	15 minutes
1 hour	31 days	186 days	4 hours
1 day	366 days	366 days	04:00 on the next day

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainWebsocketBpsData	The operation that you want to perform. Set the value to **DescribeDcdnDomainWebsocketBpsData**.
DomainName	String	No	example.com	The accelerated domain name. Separate multiple domain names with commas (,). If you do not specify a value for this parameter, all accelerated domain names are queried.
StartTime	String	No	2017-12-10T20:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
EndTime	String	No	2017-12-10T21:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. **Note** The end time must be later than the start time.
Interval	String	No	300	The time interval between the data entries to return. Unit: seconds. The time granularity varies with the maximum time range per query. Valid values: 300 (5 minutes), 3600 (1 hour), and 86400 (1 day). For more information, see **Description**.
IspNameEn	String	No	unicom	The name of the Internet service provider (ISP). You can call the DescribeDcdnRegionAndIsp operation to query ISPs.

Parameter	Type	Required	Example	Description
LocationNameEn	String	No	beijing	The name of the region. You can call the DescribeDcdnRegionAndIsp operation to query regions.

Response parameters

Parameter	Type	Example	Description
EndTime	String	2017-12-10T21:00:00Z	The end of the time range during which data was queried.
StartTime	String	2017-12-10T20:00:00Z	The beginning of the time range during which data was queried.
RequestId	String	3C6CCEC4-6B88-4D4A-93E4-D47B3D92CF8F	The ID of the request.
DomainName	String	example.com	The accelerated domain name.
DataInterval	String	300	The time interval between the data entries returned. Unit: seconds.
BpsDataPerInterval	Array of DataModule		The bandwidth values returned at each interval.
DataModule			
TimeStamp	String	2017-12-10T20:00:00Z	The timestamp of the data returned.
WebsocketBps	Float	11288111	The bandwidth value. Unit: bit/s.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainWebsocketBpsData
&DomainName=example.com
&StartTime=2017-12-10T20:00:00Z
&EndTime=2017-12-10T21:00:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnDomainWebsocketBpsDataResponse>
 <BpsDataPerInterval>
  <DataModule>
   <TimeStamp>2017-12-10T20:00:00Z</TimeStamp>
   <WebsocketBps>11288111</WebsocketBps>
  </DataModule>
  <DataModule>
   <TimeStamp>2017-12-10T20:05:00Z</TimeStamp>
   <WebsocketBps>11288111</WebsocketBps>
  </DataModule>
 </BpsDataPerInterval>
 <DomainName>example.com</DomainName>
 <DataInterval>300</DataInterval>
 <RequestId>3C6CCEC4-6B88-4D4A-93E4-D47B3D92CF8F</RequestId>
 <StartTime>2017-12-10T20:00:00Z</StartTime>
 <EndTime>2017-12-10T21:00:00Z</EndTime>
</DescribeDcdnDomainWebsocketBpsDataResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "BpsDataPerInterval" : {
    "DataModule" : [ {
      "TimeStamp" : "2017-12-10T20:00:00Z",
      "WebsocketBps" : 11288111
    }, {
      "TimeStamp" : "2017-12-10T20:05:00Z",
      "WebsocketBps" : 11288111
    } ]
  },
  "DomainName" : "example.com",
  "DataInterval" : "300",
  "RequestId" : "3C6CCEC4-6B88-4D4A-93E4-D47B3D92CF8F",
  "StartTime" : "2017-12-10T20:00:00Z",
  "EndTime" : "2017-12-10T21:00:00Z"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because no value is specified for the StartTime or EndTime parameter.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the EndTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the value specified for the StartTime parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

10.13. DescribeDcdnDomainWebsocketTrafficData

Queries network traffic of one or more accelerated domain names for which WebSocket is enabled.

Description

- You can call this operation up to 100 times per second per account.
- If you do not set the **StartTime** or **EndTime** parameter, the request returns the data collected in the last 24 hours. If you set both the **StartTime** and **EndTime** parameters, the request returns the data collected within the specified time range.

Time granularity

The time granularity supported by the Interval parameter varies with the maximum time range per query. The following table describes the time period within which historical data is available and the data delay.

Time granularity	Maximum time range per query	Historical data available	Data delay
5 minutes	3 days	93 days	15 minutes
1 hour	31 days	186 days	4 hours
1 day	366 days	366 days	04:00 on the next day

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainWebsocketTrafficData	The operation that you want to perform. Set the value to **DescribeDcdnDomainWebsocketTrafficData**.
DomainName	String	No	example.com	The accelerated domain name. Separate multiple domain names with commas (,). If you do not specify a value for this parameter, all accelerated domain names are queried.
StartTime	String	No	2017-12-10T20:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.

Parameter	Type	Required	Example	Description
EndTime	String	No	2017-12-10T21:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. **Note** The end time must be later than the start time.
Interval	String	No	300	The time interval between the data entries to return. Unit: seconds. The time granularity varies with the maximum time range per query. Valid values: 300 (5 minutes), 3600 (1 hour), and 86400 (1 day). For more information, see **Description**.
IspNameEn	String	No	unicom	The name of the Internet service provider (ISP). You can call the DescribeDcdnRegionAndIsp operation to query ISPs.
LocationNameEn	String	No	beijing	The name of the region. You can call the DescribeDcdnRegionAndIsp operation to query regions.

Response parameters

Parameter	Type	Example	Description
EndTime	String	2017-12-10T21:00:00Z	The end of the time range during which data was queried.
StartTime	String	2017-12-10T20:00:00Z	The beginning of the time range during which data was queried.
RequestId	String	B955107D-E658-4E77-B913-E0AC3D31693E	The ID of the request.
DomainName	String	example.com	The accelerated domain name.
DataInterval	String	300	The time interval between the data entries returned. Unit: seconds.
TrafficDataPerInterval	Array of DataModule		The network traffic returned at each time interval. Unit: bytes.
DataModule			
WebsocketTraffic	Float	423304182	The total amount of network traffic.

Parameter	Type	Example	Description
TimeStamp	String	2017-12-10T20:00:00Z	The timestamp of the data returned.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainWebsocketTrafficData
&DomainName=example.com
&StartTime=2017-12-10T20:00:00Z
&EndTime=2017-12-10T21:00:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnDomainWebsocketTrafficDataResponse>
 <DomainName>example.com</DomainName>
 <DataInterval>300</DataInterval>
 <TrafficDataPerInterval>
  <DataModule>
   <TimeStamp>2017-12-10T20:00:00Z</TimeStamp>
   <WebsocketTraffic>423304182</WebsocketTraffic>
  </DataModule>
 </TrafficDataPerInterval>
 <RequestId>B955107D-E658-4E77-B913-E0AC3D31693E</RequestId>
 <StartTime>2017-12-10T20:00:00Z</StartTime>
 <EndTime>2017-12-10T21:00:00Z</EndTime>
</DescribeDcdnDomainWebsocketTrafficDataResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "DomainName" : "example.com",
  "DataInterval" : "300",
  "TrafficDataPerInterval" : {
    "DataModule" : [ {
      "TimeStamp" : "2017-12-10T20:00:00Z",
      "WebsocketTraffic" : 423304182
    } ]
  },
  "RequestId" : "B955107D-E658-4E77-B913-E0AC3D31693E",
  "StartTime" : "2017-12-10T20:00:00Z",
  "EndTime" : "2017-12-10T21:00:00Z"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because no value is specified for the StartTime or EndTime parameter.

HTTP status code	Error code	Error message	Description
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the EndTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the value specified for the StartTime parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

10.14. DescribeDcdnDomainBpsDataByLayer

Queries bandwidth data of one or more accelerated domain names by protocol.

Description

- You can call this operation up to 20 times per second per account.
- If you do not set the **StartTime** or **EndTime** parameters, the request returns the data collected in the last 24 hours. If you set both the **StartTime** and **EndTime** parameters, the request returns the data collected within the specified time range.

Time granularity

The time granularity supported by the Interval parameter varies with the maximum time range per query. The following table describes the time period within which historical data is available and the data delay.

Time granularity	Maximum time range per query	Historical data available	Data delay
5 minutes	3 days	93 days	15 minutes
1 hour	31 days	186 days	4 hours
1 day	366 days	366 days	04:00 on the next day

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainBpsDataByLayer	The operation that you want to perform. Set the value to **DescribeDcdnDomainBpsDataByLayer**.

Parameter	Type	Required	Example	Description
DomainName	String	No	example.com	The accelerated domain name. You can specify multiple domain names and separate them with commas (,). You can specify up to 500 domain names in each request. The query results of multiple domain names are aggregated. If you do not specify a domain name, data of all domain names is queried.
StartTime	String	No	2015-12-10T20:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. The minimum data granularity is 5 minutes. If you do not set this parameter, data in the last 24 hours is queried.
EndTime	String	No	2015-12-10T21:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. **Note** The end time must be later than the start time.
Interval	String	No	300	The time interval between the data entries to return. Unit: seconds. The time granularity varies with the maximum time range per query. Valid values: 300 (5 minutes), 3600 (1 hour), and 86400 (1 day). For more information, see **Description**.
IspNameEn	String	No	telecom	The name of the Internet service provider (ISP). You can call the DescribeDcdnRegionAndIsp operation to query the ISP name. If you do not specify a value for this parameter, all ISPs are queried.
LocationNameEn	String	No	hangzhou	The name of the region. You can call the DescribeDcdnRegionAndIsp operation to query the region name. If you do not specify a value for this parameter, all regions are queried.
Layer	String	No	all	The layer at which you want to query the bandwidth data. The network layer supports IPv4 and IPv6. The application layer supports http, https, and quic. You can also set the value to all. Default value: all.

Response parameters

Parameter	Type	Example	Description
DataInterval	String	300	The time interval between the data entries returned. Unit: seconds.
RequestId	String	BEA5625F-8FCF-48F4-851B-CA63946DA664	The ID of the request.
BpsDataInterval	Array of DataModule		The bandwidth returned at each time interval.
DataModule			
Value	String	0.56	The total bandwidth. Unit: bit/s.
TrafficValue	String	331	The total amount of network traffic. Unit: bytes.
TimeStamp	String	2015-12-10T21:00:00Z	The timestamp of the data returned.

Examples

Sample requests

```
http://dcdn.aliyuncs.com?Action=DescribeLiveDomainBpsDataByLayer&DomainName=example.com
&StartTime=2015-12-10T20:00:00Z
&EndTime=2015-12-10T21:00:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnDomainBpsDataByLayerResponse>
<BpsDataInterval>
    <DataModule>
        <TimeStamp>2015-12-10T21:00:00Z</TimeStamp>
        <Value>0.56</Value>
        <TrafficValue>331</TrafficValue>
    </DataModule>
    <DataModule>
        <TimeStamp>2015-12-10T20:35:00Z</TimeStamp>
        <Value>0.64</Value>
        <TrafficValue>442</TrafficValue>
    </DataModule>
</BpsDataInterval>
<DataInterval>300</DataInterval>
<RequestId>BEA5625F-8FCF-48F4-851B-CA63946DA664</RequestId>
</DescribeDcdnDomainBpsDataByLayerResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "BpsDataInterval" : {
    "DataModule" : [ {
      "TimeStamp" : "2015-12-10T21:00:00Z",
      "Value" : 0.56,
      "TrafficValue" : 331
    }, {
      "TimeStamp" : "2015-12-10T20:35:00Z",
      "Value" : 0.64,
      "TrafficValue" : 442
    } ]
  },
  "DataInterval" : "300",
  "RequestId" : "BEA5625F-8FCF-48F4-851B-CA63946DA664"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because no value is specified for the StartTime or EndTime parameter.
400	InvalidStartTime.Malformed	The specified StartTime parameter is invalid.	The error message returned because the format of the StartTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the EndTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.
400	InvalidStartTime.ValueNotSupported	The StartTime cannot exceed 31 days before the current time.	The error message returned because you can query only data that is collected in the past 31 days.

For a list of error codes, visit the API Error Center.

10.15. DescribeDcdnDomainHttpCodeDataByLayer

Queries the distribution of HTTP status codes by protocol.

Description

- You can call this operation up to 20 times per second per account.
- You cannot query the distribution of HTTP status codes by IP protocol.
- If you do not set the **StartTime** or **EndTime** parameter, the request returns the data collected in the last 24 hours. If you set both the **StartTime** and **EndTime** parameters, the request returns the data collected within the specified time range.

Time granularity

The time granularity supported by the Interval parameter varies with the maximum time range per query. The following table describes the time period within which historical data is available and the data delay.

Time granularity	Maximum time range per query	Historical data available	Data delay
5 minutes	3 days	93 days	15 minutes
1 hour	31 days	186 days	4 hours
1 day	366 days	366 days	04:00 on the next day

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainHttpCodeDataByLayer	The operation that you want to perform. Set the value to **DescribeDcdnDomainHttpCodeDataByLayer**.
DomainName	String	No	example.com	The accelerated domain name. You can specify multiple domain names and separate them with commas (,). You can specify up to 500 domain names in each request. The query results of multiple domain names are aggregated. If you do not specify a domain name, data of all domain names is queried.
StartTime	String	No	2015-12-10T20:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. The minimum data granularity is 5 minutes. If you do not set this parameter, data in the last 24 hours is queried.
EndTime	String	No	2015-12-10T21:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. **Note** The end time must be later than the start time.
Interval	String	No	300	The time interval between the data entries to return. Unit: seconds. The time granularity varies with the maximum time range per query. Valid values: 300 (5 minutes), 3600 (1 hour), and 86400 (1 day). For more information, see **Description**.

Parameter	Type	Required	Example	Description
IspNameEn	String	No	telecom	The name of the Internet service provider (ISP). You can call the DescribeDcdnRegionAndIsp operation to query the ISP name. If you do not specify a value for this parameter, all ISPs are queried.
LocationNameEn	String	No	hangzhou	The name of the region. You can call the DescribeDcdnRegionAndIsp operation to query the region name. If you do not specify a value for this parameter, all regions are queried.
Layer	String	No	all	The layer at which you want to query the distribution of HTTP status codes. The network layer supports IPv4 and IPv6. The application layer supports http, https, and quic. You can also set the value to all. Default value: all.

Response parameters

Parameter	Type	Example	Description
DataInterval	String	300	The time interval between the data entries returned. Unit: seconds.
RequestId	String	BEA5625F-8FCF-48F4-851B-CA63946DA664	The ID of the request.
HttpCodeDataInterval	Array of DataModule		The distribution of HTTP status codes at each time interval.
DataModule			
Value	String	{"200": 10,"206": 100}	The number of times that the HTTP status code was returned.
TimeStamp	String	2015-12-10T21:00:00Z	The timestamp of the data returned.
TotalValue	String	110	The total number of times that HTTP status codes were returned.

Examples

Sample requests

```
http://dcdn.aliyuncs.com?Action=DescribeDomainHttpCodeDataByLayer&DomainName=example.com
&StartTime=2015-12-10T20:00:00Z
&EndTime=2015-12-10T21:00:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnDomainHttpCodeDataByLayerResponse>
<HttpCodeDataInterval>
    <DataModule>
        <TimeStamp>2015-12-10T21:00:00Z</TimeStamp>
        <Value>
            <200>10</200>
            <206>100</206>
        </Value>
        <TotalValue>110</TotalValue>
    </DataModule>
    <DataModule>
        <TimeStamp>2015-12-10T20:35:00Z</TimeStamp>
        <Value>
            <200>12</200>
            <206>120</206>
        </Value>
        <TotalValue>132</TotalValue>
    </DataModule>
</HttpCodeDataInterval>
<DataInterval>300</DataInterval>
<RequestId>BEA5625F-8FCF-48F4-851B-CA63946DA664</RequestId>
</DescribeDcdnDomainHttpCodeDataByLayerResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "HttpCodeDataInterval" : {
    "DataModule" : [ {
      "TimeStamp" : "2015-12-10T21:00:00Z",
      "Value" : {
        "200" : 10,
        "206" : 100
      },
      "TotalValue" : 110
    }, {
      "TimeStamp" : "2015-12-10T20:35:00Z",
      "Value" : {
        "200" : 12,
        "206" : 120
      },
      "TotalValue" : 132
    } ]
  },
  "DataInterval" : "300",
  "RequestId" : "BEA5625F-8FCF-48F4-851B-CA63946DA664"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because no value is specified for the StartTime or EndTime parameter.

HTTP status code	Error code	Error message	Description
400	InvalidStartTime.Malformed	The specified StartTime parameter is invalid.	The error message returned because the format of the StartTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the EndTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the value specified for the StartTime parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

10.16. DescribeDcdnDomainQpsDataByLayer

Queries the number of queries per second (QPS) for accelerated domain names.

Description

- You can call this operation up to 20 times per second per account.
- If you do not set the **StartTime** or **EndTime** parameter, the request returns the data collected in the last 24 hours. If you set both the **StartTime** and **EndTime** parameters, the request returns the data collected within the specified time range.

Time granularity

The time granularity supported by the Interval parameter varies with the maximum time range per query. The following table describes the time period within which historical data is available and the data delay.

Time granularity	Maximum time range per query	Historical data available	Data delay
5 minutes	3 days	93 days	15 minutes
1 hour	31 days	186 days	4 hours
1 day	366 days	366 days	04:00 on the next day

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainQpsDataByLayer	The operation that you want to perform. Set the value to **DescribeDcdnDomainQpsDataByLayer**.

Parameter	Type	Required	Example	Description
DomainName	String	No	example.com	The accelerated domain name. You can specify multiple domain names and separate them with commas (,). You can specify up to 500 domain names in each request. The query results of multiple domain names are aggregated. If you do not specify a domain name, data of all domain names is queried.
StartTime	String	No	2015-12-10T20:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. The minimum data granularity is 5 minutes. If you do not set this parameter, data in the last 24 hours is queried.
EndTime	String	No	2015-12-10T21:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. **Note** The end time must be later than the start time.
Interval	String	No	300	The time interval between the data entries to return. Unit: seconds. The time granularity varies with the maximum time range per query. Valid values: 300 (5 minutes), 3600 (1 hour), and 86400 (1 day). For more information, see **Description**.
IspNameEn	String	No	telecom	The name of the ISP. You can call the DescribeDcdnRegionAndIsp operation to query the ISP name. If you do not specify a value for this parameter, all ISPs are queried.
LocationNameEn	String	No	hangzhou	The name of the region. You can call the DescribeDcdnRegionAndIsp operation to query the region name. If you do not specify a value for this parameter, all regions are queried.
Layer	String	No	all	The layers at which you want to query the QPS. The network layer supports IPv4 and IPv6. The application layer supports http, https, and quic. You can also set the value to all. Default value: all.

Response parameters

Parameter	Type	Example	Description
EndTime	String	2015-12-10T21:00:00Z	The end of the time range during which data was queried.

Parameter	Type	Example	Description
StartTime	String	2015-12-10T20:00:00Z	The beginning of the time range during which data was queried.
RequestId	String	BEA5625F-8FCF-48F4-851B-CA63946DA664	The ID of the request.
Layer	String	all	The layer at which the data was collected.
DomainName	String	example.com	The accelerated domain name.
DataInterval	String	300	The time interval between the data entries returned. Unit: seconds.
QpsDataInterval	Array of DataModule		The QPS returned at each time interval.
DataModule			
Value	String	0.56	The total number of queries per second.
AccValue	String	56	The total number of requests.
AccDomesticValue	String	12	The number of requests in the Chinese mainland.
OverseasValue	String	0.44	The number of queries per second outside the Chinese mainland.
AccOverseasValue	String	44	The number of requests outside the Chinese mainland.
TimeStamp	String	2015-12-10T21:00:00Z	The timestamp of the data returned.
DomesticValue	String	0.12	The number of queries per second in the Chinese mainland.

Examples

Sample requests

```
http://dcdn.aliyuncs.com?Action=DescribeDomainQpsDataByLayer&DomainName=example.com
&StartTime=2015-12-10T20:00:00Z
&EndTime=2015-12-10T21:00:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnDomainQpsDataByLayerResponse>
<QpsDataInterval>
    <DataModule>
        <TimeStamp>2015-12-10T21:00:00Z</TimeStamp>
        <Value>0.56</Value>
        <AccValue>56</AccValue>
    </DataModule>
    <DataModule>
        <TimeStamp>2015-12-10T20:35:00Z</TimeStamp>
        <Value>0.64</Value>
        <AccValue>56</AccValue>
    </DataModule>
</QpsDataInterval>
<Layer>all</Layer>
<DomainName>example.com</DomainName>
<DataInterval>300</DataInterval>
<RequestId>BEA5625F-8FCF-48F4-851B-CA63946DA664</RequestId>
<StartTime>2015-12-10T20:00:00Z</StartTime>
<EndTime>2015-12-10T21:00:00Z</EndTime>
</DescribeDcdnDomainQpsDataByLayerResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "QpsDataInterval" : {
    "DataModule" : [ {
      "TimeStamp" : "2015-12-10T21:00:00Z",
      "Value" : "0.56",
      "AccValue" : "56"
    }, {
      "TimeStamp" : "2015-12-10T20:35:00Z",
      "Value" : "0.64",
      "AccValue" : "56"
    } ]
  },
  "Layer" : "all",
  "DomainName" : "example.com",
  "DataInterval" : "300",
  "RequestId" : "BEA5625F-8FCF-48F4-851B-CA63946DA664",
  "StartTime" : "2015-12-10T20:00:00Z",
  "EndTime" : "2015-12-10T21:00:00Z"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because no value is specified for the StartTime or EndTime parameter.
400	InvalidStartTime.Malformed	The specified StartTime parameter is invalid.	The error message returned because the format of the StartTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.

HTTP status code	Error code	Error message	Description
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the EndTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the value specified for the StartTime parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

11.Real-time monitoring

11.1. DescribeDcdnDomainRealTimeSrcTrafficData

Queries the back-to-origin network traffic of one or more accelerated domains.

Description

If you do not set the StartTime or EndTime parameter, the request returns the data collected in the last hour. If you set both the StartTime and EndTime parameters, the request returns the data collected within the specified time range.

Time granularity

The time granularity varies with the time range specified by the StartTime and EndTime parameters. The following table describes the time period within which historical data is available and the data delay.

Time granularity	Maximum time range per query	Historical data available	Data delay
1 minute	1 hour	7 days	5 minutes
5 minutes	3 days	93 days	15 minutes
1 hour	31 days	186 days	4 hours

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainRealTimeSrcTrafficData	The operation that you want to perform. Set the value to **DescribeDcdnDomainRealTimeSrcTrafficData**.
DomainName	String	Yes	example.com	The accelerated domain name. Separate multiple accelerated domain names with commas (,).
StartTime	String	No	2015-12-10T20:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
EndTime	String	No	2015-12-10T20:01:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. The end time must be later than the start time.

Response parameters

Parameter	Type	Example	Description
EndTime	String	2015-12-10T20:01:00Z	The end of the time range during which data was queried.
StartTime	String	2015-12-10T20:00:00Z	The beginning of the time range during which data was queried.
RequestId	String	A666D44F-19D6-490E-97CF-1A64AB962C57	The ID of the request.
DomainName	String	example.com	The accelerated domain name.
DataInterval	String	60	The time interval between the data entries returned. Unit: seconds. The time granularity varies with the maximum time range per query. Valid values: 60 (1 minute), 300 (5 minutes), and 3600(1 hour). For more information, see **Description**.
RealTimeSrcTrafficDataPerInterval	Array of DataModule		The amount of back-to-origin network traffic returned at each time interval. Unit: bytes.
DataModule			
Value	String	0	The amount of back-to-origin network traffic.
TimeStamp	String	2015-12-10T20:00:00Z	The timestamp of the data returned.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainRealTimeSrcTrafficData
&DomainName=example.com
&StartTime=2015-12-10T20:00:00Z
&EndTime=2015-12-10T20:01:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnDomainRealTimeSrcTrafficDataResponse>
 <DomainName>example.com</DomainName>
 <DataInterval>60</DataInterval>
 <RealTimeSrcTrafficDataPerInterval>
  <DataModule>
   <TimeStamp>2015-12-10T20:00:00Z</TimeStamp>
   <Value>0</Value>
  </DataModule>
  <DataModule>
   <TimeStamp>2015-12-10T20:01:00Z</TimeStamp>
   <Value>0</Value>
  </DataModule>
 </RealTimeSrcTrafficDataPerInterval>
 <RequestId>A666D44F-19D6-490E-97CF-1A64AB962C57</RequestId>
 <StartTime>2015-12-10T20:00:00Z</StartTime>
 <EndTime>2015-12-10T20:01:00Z</EndTime>
</DescribeDcdnDomainRealTimeSrcTrafficDataResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "DomainName" : "example.com",
  "DataInterval" : "60",
  "RealTimeSrcTrafficDataPerInterval" : {
    "DataModule" : [ {
      "TimeStamp" : "2015-12-10T20:00:00Z",
      "Value" : "0"
    }, {
      "TimeStamp" : "2015-12-10T20:01:00Z",
      "Value" : "0"
    } ]
  },
  "RequestId" : "A666D44F-19D6-490E-97CF-1A64AB962C57",
  "StartTime" : "2015-12-10T20:00:00Z",
  "EndTime" : "2015-12-10T20:01:00Z"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because no value is specified for the StartTime or EndTime parameter.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the EndTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the value specified for the StartTime parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

11.2. DescribeDcdnDomainRealTimeQpsData

Queries the number of queries per second (QPS) for one or more accelerated domain names.

Description

- You can call this operation up to 10 times per second per account.
- If you do not set the StartTime or EndTime parameter, the request returns the data collected in the last hour. If you set both the StartTime and EndTime parameters, the request returns the data collected within the specified time range.

Time granularity

The time granularity varies with the time range specified by the StartTime and EndTime parameters. The following table describes the time period within which historical data is available and the data delay.

Time granularity	Maximum time range per query	Historical data available	Data delay
1 minute	1 hour	7 days	5 minutes
5 minutes	3 days	93 days	15 minutes
1 hour	31 days	186 days	4 hours

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainRealTimeQpsData	The operation that you want to perform. Set the value to **DescribeDcdnDomainRealTimeQpsData**.
DomainName	String	Yes	example.com	The accelerated domain name. Separate multiple accelerated domain names with commas (,).
IspNameEn	String	No	telecom	The name of the Internet service provider (ISP). You can call the DescribeDcdnRegionAndIsp operation to query ISPs.
LocationNameEn	String	No	beijing	The name of the region. You can call the DescribeDcdnRegionAndIsp operation to query regions.
StartTime	String	No	2018-01-02T11:26:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.

Parameter	Type	Required	Example	Description
EndTime	String	No	2018-01-02T11:27:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. **Note** The end time must be later than the start time.

Response parameters

Parameter	Type	Example	Description
RequestId	String	32DC9806-E9F9-4490-BBDC-B3A9E32FCC1D	The ID of the request.
Data	Array of QpsModel		The list of the data returned.
QpsModel			
Qps	Float	1851.25	The QPS data.
TimeStamp	String	2018-01-02T11:26:00Z	The timestamp of the data returned. The time follows the ISO 8601 standard. The time is displayed in UTC.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainRealTimeQpsData
&DomainName=example.com
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnDomainRealTimeQpsDataResponse>
 <Data>
  <QpsModel>
   <TimeStamp>2018-01-02T11:26:00Z</TimeStamp>
   <Qps>1851.25</Qps>
  </QpsModel>
  <QpsModel>
   <TimeStamp>2018-01-02T11:25:00Z</TimeStamp>
   <Qps>8967.7</Qps>
  </QpsModel>
 </Data>
 <RequestId>32DC9806-E9F9-4490-BBDC-B3A9E32FCC1D</RequestId>
</DescribeDcdnDomainRealTimeQpsDataResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "Data" : {
    "QpsModel" : [ {
      "TimeStamp" : "2018-01-02T11:26:00Z",
      "Qps" : 1851.25
    }, {
      "TimeStamp" : "2018-01-02T11:25:00Z",
      "Qps" : 8967.7
    } ]
  },
  "RequestId" : "32DC9806-E9F9-4490-BBDC-B3A9E32FCC1D"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because no value is specified for the StartTime or EndTime parameter.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the EndTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the value specified for the StartTime parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

11.3. DescribeDcdnDomainRealTimeSrcBpsData

Queries the back-to-origin bandwidth data of accelerated domain names.

Description

- You can call this operation up to 10 times per second per account.
- If you do not set the StartTime or EndTime parameter, the request returns the data collected in the last hour. If you set both the StartTime and EndTime parameters, the request returns the data collected within the specified time range.

Time granularity

The time granularity varies with the time range specified by the StartTime and EndTime parameters. The following table describes the time period within which historical data is available and the data delay.

Time granularity	Maximum time range per query	Historical data available	Data delay
1 minute	1 hour	7 days	5 minutes

Time granularity	Maximum time range per query	Historical data available	Data delay
5 minutes	3 days	93 days	15 minutes
1 hour	31 days	186 days	4 hours

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainRealTimeSrcBpsData	The operation that you want to perform. Set the value to **DescribeDcdnDomainRealTimeSrcBpsData**.
DomainName	String	Yes	example.com	The accelerated domain name. Separate multiple accelerated domain names with commas (,).
StartTime	String	No	2015-12-10T20:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
EndTime	String	No	2015-12-10T20:01:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. The end time must be later than the start time.

Response parameters

Parameter	Type	Example	Description
EndTime	String	2015-12-10T20:01:00Z	The end of the time range during which data was queried.
StartTime	String	2015-12-10T20:00:00Z	The beginning of the time range during which data was queried.
RequestId	String	7CBCD6AD-B016-42E5-AE0B-B3731DE8F755	The ID of the request.
DomainName	String	example.com	The accelerated domain name.

Parameter	Type	Example	Description
DataInterval	String	60	The time interval between the data entries returned. Unit: seconds. The time granularity varies with the maximum time range per query. Valid values: 60 (1 minute), 300 (5 minutes), and 3600(1 hour). For more information, see **Description**.
RealTimeSrcBpsDataPerInterval	Array of DataModule		The back-to-origin bandwidth data returned at each time interval. Unit: bit/s.
DataModule			
Value	String	0	The bandwidth data during back-to-origin routing.
TimeStamp	String	2015-12-10T20:01:00Z	The timestamp of the data returned.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainRealTimeSrcBpsData
&DomainName=example.com
&StartTime=2015-12-10T20:00:00Z
&EndTime=2015-12-10T20:01:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnDomainRealTimeSrcBpsDataResponse>
 <DomainName>example.com</DomainName>
 <DataInterval>60</DataInterval>
 <RealTimeSrcBpsDataPerInterval>
  <DataModule>
   <TimeStamp>2015-12-10T20:00:00Z</TimeStamp>
   <Value>821</Value>
  </DataModule>
  <DataModule>
   <TimeStamp>2015-12-10T20:01:00Z</TimeStamp>
   <Value>0</Value>
  </DataModule>
 </RealTimeSrcBpsDataPerInterval>
 <RequestId>7CBCD6AD-B016-42E5-AE0B-B3731DE8F755</RequestId>
 <StartTime>2015-12-10T20:00:00Z</StartTime>
 <EndTime>2015-12-10T20:01:00Z</EndTime>
</DescribeDcdnDomainRealTimeSrcBpsDataResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "DomainName" : "example.com",
  "DataInterval" : "60",
  "RealTimeSrcBpsDataPerInterval" : {
    "DataModule" : [ {
      "TimeStamp" : "2015-12-10T20:00:00Z",
      "Value" : "821"
    }, {
      "TimeStamp" : "2015-12-10T20:01:00Z",
      "Value" : "0"
    } ]
  },
  "RequestId" : "7CBCD6AD-B016-42E5-AE0B-B3731DE8F755",
  "StartTime" : "2015-12-10T20:00:00Z",
  "EndTime" : "2015-12-10T20:01:00Z"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because no value is specified for the StartTime or EndTime parameter.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the EndTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the value specified for the StartTime parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

11.4. DescribeDcdnDomainRealTimeHttpCodeData

Queries the total number of times that each HTTP status code returned and the proportion of each HTTP status code for one or more accelerated domain names.

Description

- You can call this operation up to 10 times per second per account.
- If you do not set the StartTime or EndTime parameter, the request returns the data collected in the last hour. If you set both the StartTime and EndTime parameters, the request returns the data collected within the specified time range.

Time granularity

The time granularity varies with the time range specified by the StartTime and EndTime parameters. The following table describes the time period within which historical data is available and the data delay.

Time granularity	Maximum time range per query	Historical data available	Data delay
1 minute	1 hour	7 days	5 minutes
5 minutes	3 days	93 days	15 minutes
1 hour	31 days	186 days	4 hours

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainRealTimeHttpCodeData	The operation that you want to perform. Set the value to **DescribeDcdnDomainRealTimeHttpCodeData**.
DomainName	String	Yes	example.com	The accelerated domain name. Separate multiple accelerated domain names with commas (,).
StartTime	String	No	2017-12-10T20:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
EndTime	String	No	2017-12-10T21:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. **Note** The end time must be later than the start time.
IspNameEn	String	No	unicom	The name of the Internet service provider (ISP). You can call the DescribeDcdnRegionAndIsp operation to query ISPs.
LocationNameEn	String	No	beijing	The name of the region. You can call the DescribeDcdnRegionAndIsp operation to query regions.

Response parameters

Parameter	Type	Example	Description

Parameter	Type	Example	Description
EndTime	String	2017-12-10T21:00:00Z	The end of the time range during which data was queried.
StartTime	String	2017-12-10T20:00:00Z	The beginning of the time range during which data was queried.
RequestId	String	B955107D-E658-4E77-B913-E0AC3D31693E	The ID of the request.
DomainName	String	example.com	The accelerated domain name.
DataInterval	String	60	The time interval between the data entries returned. Unit: seconds.
RealTimeHttpCodeData	Array of UsageData		The information about the HTTP status codes.
UsageData			
TimeStamp	String	2017-12-10T20:00:00Z	The timestamp of the data returned.
Value	Array of RealTimeCodeProportionData		The information about the HTTP status code returned.
RealTimeCodeProportionData			
Code	String	200	The HTTP status code.
Proportion	String	0.01155980271270037	The proportion of the HTTP status code.
Count	String	1	The total number of times that the HTTP status code was returned.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainRealTimeHttpCodeData
&DomainName=example.com
&StartTime=2017-12-10T20:00:00Z
&EndTime=2017-12-10T21:00:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnDomainRealTimeHttpCodeDataResponse>
 <DomainName>example.com</DomainName>
 <DataInterval>60</DataInterval>
 <RealTimeHttpCodeData>
  <TimeStamp>2017-12-10T20:00:00Z</TimeStamp>
  <RealTimeCodeProportionData>
   <Code>200</Code>
   <Proportion>0.01155980271270037</Proportion>
   <Count>1</Count>
  </RealTimeCodeProportionData>
 </RealTimeHttpCodeData>
 <RequestId>B955107D-E658-4E77-B913-E0AC3D31693E</RequestId>
 <StartTime>2017-12-10T20:00:00Z</StartTime>
 <EndTime>2017-12-10T21:00:00Z</EndTime>
</DescribeDcdnDomainRealTimeHttpCodeDataResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "DomainName" : "example.com",
  "DataInterval" : "60",
  "RealTimeHttpCodeData" : {
    "TimeStamp" : "2017-12-10T20:00:00Z",
    "RealTimeCodeProportionData" : [ {
      "Code" : "200",
      "Proportion" : "0.01155980271270037",
      "Count" : "1"
    } ]
  },
  "RequestId" : "B955107D-E658-4E77-B913-E0AC3D31693E",
  "StartTime" : "2017-12-10T20:00:00Z",
  "EndTime" : "2017-12-10T21:00:00Z"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because no value is specified for the StartTime or EndTime parameter.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the EndTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the value specified for the StartTime parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

11.5. DescribeDcdnDomainRealTimeByteHitRateData

Queries byte hit ratios for one or more accelerated domain names.

Description

- You can call this operation up to 10 times per second per account.
- The network traffic destined for different domain names may be redirected to the same origin server. Therefore, the byte hit ratios may be inaccurate. The accuracy of query results is based on the actual configurations.
- If you do not set the **StartTime** or **EndTime** parameter, the request returns the data collected in the last hour. If you set both the **StartTime** and **EndTime** parameters, the request returns the data collected within the specified time range.

Time granularity

The time granularity varies with the time range specified by the StartTime and EndTime parameters. The following table describes the time period within which historical data is available and the data delay.

Time granularity	Maximum time range per query	Historical data available	Data delay
1 minute	1 hour	7 days	5 minutes
5 minutes	3 days	93 days	15 minutes
1 hour	31 days	186 days	4 hours

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainRealTimeByteHitRateData	The operation that you want to perform. Set the value to **DescribeDcdnDomainRealTimeByteHitRateData**.
DomainName	String	Yes	example.com	The domain name. Separate multiple domain names with commas (,).
StartTime	String	No	2017-12-10T20:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
EndTime	String	No	2017-12-10T21:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. The end time must be later than the start time.

Response parameters

Parameter	Type	Example	Description
RequestId	String	B955107D-E658-4E77-B913-E0AC3D31693E	The ID of the request.
Data	Array of ByteHitRateDataModel		The list of byte hit ratios.
ByteHitRateDataModel			
ByteHitRate	Float	0.8956940476262277	The byte hit ratio.
TimeStamp	String	2016-10-20T04:00:00Z	The timestamp of the data returned. The time follows the ISO 8601 standard. The time is displayed in UTC.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainRealTimeByteHitRateData
&DomainName=example.com
&StartTime=2017-12-10T20:00:00Z
&EndTime=2017-12-10T21:00:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnDomainRealTimeByteHitRateDataResponse>
 <Data>
  <ReqHitRate>0.8956940476262277</ReqHitRate>
  <TimeStamp>2016-10-20T04:00:00Z</TimeStamp>
 </Data>
 <RequestId>B955107D-E658-4E77-B913-E0AC3D31693E</RequestId>
</DescribeDcdnDomainRealTimeByteHitRateDataResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "Data" : [ {
    "ReqHitRate" : "0.8956940476262277",
    "TimeStamp" : "2016-10-20T04:00:00Z"
  } ],
  "RequestId" : "B955107D-E658-4E77-B913-E0AC3D31693E"
}
```

Error codes

For a list of error codes, visit the API Error Center.

11.6. DescribeDcdnDomainRealTimeBpsData

Queries bandwidth data of one or more accelerated domain names.

Description

- You can call this operation up to 10 times per second per account.
- If you do not set the **StartTime** or **EndTime** parameter, the request returns the data collected in the last hour. If you set both the **StartTime** and **EndTime** parameters, the request returns the data collected within the specified time range.

Time granularity

The time granularity varies with the time range specified by the StartTime and EndTime parameters. The following table describes the time period within which historical data is available and the data delay.

Time granularity	Maximum time range per query	Historical data available	Data delay
1 minute	1 hour	7 days	5 minutes
5 minutes	3 days	93 days	15 minutes
1 hour	31 days	186 days	4 hours

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainRealTimeBpsData	The operation that you want to perform. Set the value to **DescribeDcdnDomainRealTimeBpsData**.
DomainName	String	Yes	example.com	The accelerated domain name. Separate multiple accelerated domain names with commas (,).
IspNameEn	String	No	telecom	The name of the Internet service provider (ISP). You can call the DescribeDcdnRegionAndIsp operation to query ISPs.
LocationNameEn	String	No	beijing	The name of the region. You can call the DescribeDcdnRegionAndIsp operation to query regions.
StartTime	String	No	2018-01-02T11:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
EndTime	String	No	2018-01-02T11:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. **Note** The end time must be later than the start time.

Response parameters

Parameter	Type	Example	Description
RequestId	String	B49E6DDA-F413-422B-B58E-2FA23F286726	The ID of the request.
Data	Array of BpsModel		The list of the data returned.
BpsModel			
Bps	Float	16710625.733333332	The bandwidth, in bit/s.
TimeStamp	String	2018-01-02T11:05:00Z	The timestamp of the data returned. The time follows the ISO 8601 standard. The time is displayed in UTC.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainRealTimeBpsData
&DomainName=example.com
&EndTime=2018-01-02T11:00:00Z
&IspNameEn=telecom
&LocationNameEn=beijing
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnDomainRealTimeBpsDataResponse>
 <Data>
  <BpsModel>
   <TimeStamp>2018-01-02T11:05:00Z</TimeStamp>
   <Bps>16710625.733333332</Bps>
  </BpsModel>
  <BpsModel>
   <TimeStamp>2018-01-02T11:04:00Z</TimeStamp>
   <Bps>59392614.8</Bps>
  </BpsModel>
 </Data>
 <RequestId>B49E6DDA-F413-422B-B58E-2FA23F286726</RequestId>
</DescribeDcdnDomainRealTimeBpsDataResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "Data" : {
    "BpsModel" : [ {
      "TimeStamp" : "2018-01-02T11:05:00Z",
      "Bps" : 1.6710625733333332E7
    }, {
      "TimeStamp" : "2018-01-02T11:04:00Z",
      "Bps" : 5.93926148E7
    } ]
  },
  "RequestId" : "B49E6DDA-F413-422B-B58E-2FA23F286726"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because no value is specified for the StartTime or EndTime parameter.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the EndTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the value specified for the StartTime parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

11.7. DescribeDcdnDomainRealTimeReqHitRateData

Queries request hit ratios for one or more accelerated domain names.

Description

- You can call this operation up to 10 times per second per account.
- The network traffic destined for different domain names may be redirected to the same origin server. Therefore, the byte hit ratios may be inaccurate. The accuracy of query results is based on the actual configurations.
- If you do not set the **StartTime** or **EndTime** parameter, the request returns the data collected in the last hour. If you set both the **StartTime** and **EndTime** parameters, the request returns the data collected within the specified time range.

Time granularity

The time granularity varies with the time range specified by the StartTime and EndTime parameters. The following table describes the time period within which historical data is available and the data delay.

Time granularity	Maximum time range per query	Historical data available	Data delay
1 minute	1 hour	7 days	5 minutes
5 minutes	3 days	93 days	15 minutes
1 hour	31 days	186 days	4 hours

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainRealTimeReqHitRateData	The operation that you want to perform. Set the value to **DescribeDcdnDomainRealTimeReqHitRateData**.
DomainName	String	Yes	example.com	The accelerated domain name. Separate multiple accelerated domain names with commas (,).
StartTime	String	No	2019-12-10T20:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
EndTime	String	No	2019-12-10T20:03:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. The end time must be later than the start time.

Response parameters

Parameter	Type	Example	Description
RequestId	String	B955107D-E658-4E77-B913-E0AC3D31693E	The ID of the request.
Data	Array of ReqHitRateDataModel		The list of request hit ratios.
ReqHitRateDataModel			
ReqHitRate	Float	0.8956940476262277	The request hit ratio.
TimeStamp	String	2016-10-20T04:00:00Z	The timestamp of the data returned. The time follows the ISO 8601 standard. The time is displayed in UTC.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainRealTimeReqHitRateData
&DomainName=example.com
&StartTime=2019-12-10T20:00:00Z
&EndTime=2019-12-10T20:03:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnDomainRealTimeReqHitRateDataResponse>
<Data>
    <ReqHitRateDataModel>
        <TimeStamp>2019-12-10T20:00:00Z</TimeStamp>
        <ReqHitRate>0</ReqHitRate>
    </ReqHitRateDataModel>
    <ReqHitRateDataModel>
        <TimeStamp>2019-12-10T20:01:00Z</TimeStamp>
        <ReqHitRate>0</ReqHitRate>
    </ReqHitRateDataModel>
</Data>
<RequestId>9C1CE71E-706C-4253-A0C4-EDA427CAE347</RequestId>
</DescribeDcdnDomainRealTimeReqHitRateDataResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "Data" : {
    "ReqHitRateDataModel" : [ {
      "TimeStamp" : "2019-12-10T20:00:00Z",
      "ReqHitRate" : 0
    }, {
      "TimeStamp" : "2019-12-10T20:01:00Z",
      "ReqHitRate" : 0
    } ]
  },
  "RequestId" : "9C1CE71E-706C-4253-A0C4-EDA427CAE347"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because no value is specified for the StartTime or EndTime parameter.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the EndTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.

HTTP status code	Error code	Error message	Description
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the value specified for the StartTime parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

11.8. DescribeDcdnDomainRealTimeSrcHttpCodeData

Queries the proportions of HTTP status codes returned during back-to-origin routing.

Description

- You can call this operation up to 10 times per second per account.
- If you do not set the StartTime or EndTime parameter, data collected over the last one hour is queried. If you set both the StartTime and EndTime parameters, data collected within the specified time range is queried.

Time granularity

The time granularity varies with the time range specified by the StartTime and EndTime parameters. The following table describes the time period within which historical data is available and the data delay.

Time granularity	Maximum time range per query	Historical data available	Data delay
1 minute	1 hour	7 days	5 minutes
5 minutes	3 days	93 days	15 minutes
1 hour	31 days	186 days	4 hours

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainRealTimeSrcHttpCodeData	The operation that you want to perform. Set the value to **DescribeDcdnDomainRealTimeSrcHttpCodeData**.
DomainName	String	Yes	example.com,example.org	The accelerated domain name. Separate multiple accelerated domain names with commas (,).
StartTime	String	No	2019-11-30T05:39:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.

Parameter	Type	Required	Example	Description
EndTime	String	No	2019-11-30T05:40:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
IspNameEn	String	No	unicom	The name of the Internet service provider (ISP). You can call the DescribeDcdnRegionAndIsp operation to query ISPs.
LocationNameEn	String	No	beijing	The name of the region. You can call the DescribeDcdnRegionAndIsp operation to query regions.

Response parameters

Parameter	Type	Example	Description
DataInterval	String	60	The time interval between the data entries returned. Unit: seconds.
DomainName	String	example.com,example.org	The accelerated domain name.
EndTime	String	2019-11-30T05:40:00Z	The end of the time range during which data was queried. The time follows the ISO 8601 standard in the yyyy-MM-ddThh:mm:ssZ format. The time is displayed in UTC.
RealTimeSrcHttpCodeData	Array of UsageData		The proportions of HTTP status codes at each time interval.
UsageData			
TimeStamp	String	2019-11-30T05:40:00Z	The timestamp of the data returned.
Value	Array of RealTimeSrcCodeProportionData		The proportions of HTTP status codes.
RealTimeSrcCodeProportionData			
Code	String	200	The HTTP status code.
Count	String	2	The number of HTTP status codes.
Proportion	String	66.046511627907	The proportion of the HTTP status code.
RequestId	String	BC858082-736F-4A25-867B-E5B67C85ACF7	The ID of the request.

Parameter	Type	Example	Description
StartTime	String	2019-11-30T05:33:00Z	The beginning of the time range during which data was queried. The time follows the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time is displayed in UTC.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainRealTimeSrcHttpCodeData
&DomainName=example.com,example.org
&StartTime=2019-11-30T05:39:00Z
&EndTime=2019-11-30T05:40:00Z
&<Common request parameters>
```

Sample responses

`XML` format

```
<DescribeDcdnDomainRealTimeSrcHttpCodeDataResponse>
  <RealTimeSrcHttpCodeData>
        <UsageData>
              <TimeStamp>2019-11-30T05:40:00Z</TimeStamp>
              <Value>
                    <RealTimeSrcCodeProportionData>
                          <Proportion>66.046511627907</Proportion>
                          <Code>200</Code>
                          <Count>2</Count>
                    </RealTimeSrcCodeProportionData>
              </Value>
        </UsageData>
  </RealTimeSrcHttpCodeData>
  <DataInterval>60</DataInterval>
  <RequestId>BC858082-736F-4A25-867B-E5B67C85ACF7</RequestId>
  <DomainName>example.com,example.org</DomainName>
  <EndTime>2019-11-30T05:40:00Z</EndTime>
  <StartTime>2019-11-30T05:33:00Z</StartTime>
</DescribeDcdnDomainRealTimeSrcHttpCodeDataResponse>
```

`JSON` format

```
{
    "RealTimeSrcHttpCodeData": {
        "UsageData":
            {
                "TimeStamp": "2019-11-30T05:40:00Z",
                "Value": {
                    "RealTimeSrcCodeProportionData":
                        {
                            "Proportion": "66.046511627907",
                            "Code": "200",
                            "Count":"2"
                        }
                }
            }
    },
    "DataInterval": "60",
    "RequestId": "BC858082-736F-4A25-867B-E5B67C85ACF7",
    "DomainName": "example.com,example.org",
    "EndTime": "2019-11-30T05:40:00Z",
    "StartTime": "2019-11-30T05:33:00Z"
}
```


Error codes

Http status code	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because no values are specified for the StartTime and EndTime parameters.
400	InvalidStartTime.Malformed	The specified StartTime parameter is invalid.	The error message returned because the format of the StartTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the EndTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the value specified for the StartTime parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

11.9. DescribeDcdnDomainRealTimeTrafficData

Queries network traffic data per minute for domain names that are added to Dynamic Route for Content Delivery Network (DCDN).

> **Note** The maximum number of times that each user can call this operation per second is 50.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer automatically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainRealTimeTrafficData	The operation that you want to perform. Set the value to **DescribeDcdnDomainRealTimeTrafficData**.
DomainName	String	Yes	example.com	The accelerated domain name. You can specify one or more domain names and separate them with commas (,).
StartTime	String	No	2015-12-10T20:00:00Z	The start of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0. **Note** If you do not specify StartTime or EndTime, data within the last hour is queried. If you specify both StartTime and EndTime, data within the specified time range is queried.
EndTime	String	No	2015-12-10T20:01:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0. The end time must be later than the start time. **Note** If you do not specify StartTime or EndTime, data within the last hour is queried. If you specify both StartTime and EndTime, data within the specified time range is queried.

Response parameters

Parameter	Type	Example	Description
DomainName	String	example.com	The accelerated domain name.
DataInterval	String	60	The time interval between the data entries. Unit: second.
StartTime	String	2015-12-10T20:00:00Z	The start of the time range.
EndTime	String	2015-12-10T20:01:00Z	The end of the time range.
RequestId	String	A666D44F-19D6-490E-97CF-1A64AB962C57	The ID of the request.

Parameter	Type	Example	Description
RealTimeTrafficDataPerInterval	Array of DataModule		The back-to-origin network traffic returned at each interval.
DataModule			
TimeStamp	String	2015-12-10T20:00:00Z	The start time of the interval.
Value	String	0	Details of the consumed network traffic. **Note** The network traffic is measured in bytes.

Examples

Sample requests

```
http://dcdn.aliyuncs.com?Action=DescribeDcdnDomainRealTimeTrafficData&DomainName=example.com
&StartTime=2015-12-10T20:00:00Z
&EndTime=2015-12-10T20:01:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnDomainRealTimeTrafficDataResponse>
  <DomainName>example.com</DomainName>
  <DataInterval>60</DataInterval>
  <RealTimeTrafficDataPerInterval>
        <DataModule>
              <TimeStamp>2015-12-10T20:00:00Z</TimeStamp>
              <Value>0</Value>
        </DataModule>
        <DataModule>
              <TimeStamp>2015-12-10T20:01:00Z</TimeStamp>
              <Value>0</Value>
        </DataModule>
  </RealTimeTrafficDataPerInterval>
  <RequestId>A666D44F-19D6-490E-97CF-1A64AB962C57</RequestId>
  <StartTime>2015-12-10T20:00:00Z</StartTime>
  <EndTime>2015-12-10T20:01:00Z</EndTime>
</DescribeDcdnDomainRealTimeTrafficDataResponse>
```

`JSON` format

```
{
    "DomainName": "example.com",
    "DataInterval": "60",
    "RealTimeTrafficDataPerInterval": {
        "DataModule": [
            {
                "TimeStamp": "2015-12-10T20:00:00Z",
                "Value": "0"
            },
            {
                "TimeStamp": "2015-12-10T20:01:00Z",
                "Value": "0"
            }
        ]
    },
    "RequestId": "A666D44F-19D6-490E-97CF-1A64AB962C57",
    "StartTime": "2015-12-10T20:00:00Z",
    "EndTime": "2015-12-10T20:01:00Z"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because the StartTime and EndTime parameters must be specified together.
400	InvalidStartTime.Malformed	The specified StartTime parameter is invalid.	The error message returned because the format of the specified start time is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the specified EndTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the specified EndTime parameter is earlier than the specified StartTime parameter.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the specified start time is not supported. Specify a valid value.

For a list of error codes, visit the API Error Center.

11.10. DescribeDcdnDomainRealTimeDetailData

Queries traffic usage through each Internet service provider (ISP) and the number of visits in each region. The resolution of the data is one minute.

> **Note**
> - The time range specified by the StartTime and EndTime parameters cannot exceed 10 minutes.
> - The maximum number of times that each user can call this operation per second is 10.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainRealTimeDetailData	The operation that you want to perform. Set the value to **DescribeDomainRealTimeDetailData**.
DomainName	String	Yes	example.com	The accelerated domain name for which you want to query data. Separate multiple accelerated domain names with commas (,).
StartTime	String	Yes	2019-11-30T05:33:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0.
EndTime	String	Yes	2019-11-30T05:40:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0. **Note** The end time must be later than the start time.
Field	String	Yes	bps	The types of information that you want to query. Separate multiple types with commas (,). Valid values: • **qps**: the number of queries per second • **bps**: bandwidth data • **http_code**: HTTP status codes
LocationNameEn	String	No	beijing	The name of the region. You can call the DescribeCdnRegionAndIsp operation to query the region name. If you do not specify a value for this parameter, all regions are queried.
IspNameEn	String	No	unicom	The name of the ISP. You can call the DescribeCdnRegionAndIsp operation to query the ISP name. If you do not specify a value for this parameter, all ISPs are queried.
Merge	String	No	true	Specifies whether to return a summary value. Valid values: • **true**: yes • **false**: no Default value: **false**

Parameter	Type	Required	Example	Description
MergeLocIsp	String	No	true	Specifies whether to return a summary value of **LocationNameEn** and **IspNameEn**. Valid values: • **true**: yes • **false**: no Default value: **false**

Response parameters

Parameter	Type	Example	Description
Data	String	{ "time_stp": "2020-01-06T04:17:00Z", "bps": "297.29333333333335", "domain_name": "example.com" }	The information that is returned.
RequestId	String	A603F324-7A05-4FB3-ADF3-2563233D26CC	The ID of the request.

Examples

Sample requests

```
http(s)://cdn.aliyuncs.com/?Action=DescribeDcdnDomainRealTimeDetailData
&DomainName=example.com
&StartTime=2019-11-30T05:33:00Z
&EndTime=2019-11-30T05:40:00Z
&Field=bps
&MergeLocIsp=true
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnDomainRealTimeDetailDataResponse>
  <Data>
        <time_stp>2020-01-06T04:17:00Z</time_stp>
        <bps>297.29333333333335</bps>
        <domain_name>example.com</domain_name>
  </Data>
  <RequestId>A603F324-7A05-4FB3-ADF3-2563233D26CC</RequestId>
</DescribeDcdnDomainRealTimeDetailDataResponse>
```

`JSON` format

```
{
    "Data": [
        {
            "time_stp": "2020-01-06T04:17:00Z",
            "bps": "297.29333333333335",
            "domain_name": "example.com"
        }
    ],
    "RequestId": "A603F324-7A05-4FB3-ADF3-2563233D26CC"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because no value is specified for the StartTime or EndTime parameter.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the EndTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the value specified for the StartTime parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

12.Resource usage

12.1. DescribeDcdnUserBillHistory

Queries the billing records for your account. The maximum time range that you can specify for each request is a month.

> **Note** The maximum number of times that each user can call this operation per second is 100.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnUserBillHistory	The operation that you want to perform. Set the value to **DescribeDcdnUserBillHistory**.
StartTime	String	Yes	2018-09-30T16:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the YYYY-MM-DDThh:mm:ssZ format. The time must be in UTC+0. The minimum data collection interval is 5 minutes.
EndTime	String	Yes	2018-10-31T16:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0. The end time must be later than the start time.

Response parameters

Parameter	Type	Example	Description
BillHistoryData	Array of BillHistoryDataItem		The billing records.
BillHistoryDataItem			
BillTime	String	2018-09-30T17:00:00Z	The start time of the billing cycle.
BillType	String	month_4th_day_bandwidth	The billing method.
BillingData	Array of BillingDataItem		The billing data.
BillingDataItem			
Bandwidth	Float	4839	The bandwidth. Unit: bit/s.

Parameter	Type	Example	Description
CdnRegion	String	AP1	The region for which the billing records are generated. Valid values: **CN**, **OverSeas**, **AP1**, **AP2**, **AP3**, **NA**, **SA**, **EU**, and **MEAA**.
ChargeType	String	DynamicHttp	The billing type. Valid values: **StaticHttp**, **DynamicHttp**, and **DynamicHttps**.
Count	Float	205624	The number of billing entries.
Flow	Float	2456	The traffic. Unit: byte.
Dimension	String	vas	The dimension.
RequestId	String	ED61C6C3-8241-4187-AAA7-5157AE175CEC	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=DescribeDcdnUserBillHistory
&StartTime=2018-09-30T16:00:00Z
&EndTime=2018-10-31T16:00:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnUserBillHistoryResponse>
  <BillHistoryData>
        <BillHistoryDataItem>
              <BillType>month_4th_day_bandwidth</BillType>
              <BillingData>
                    <BillingDataItem>
                          <Bandwidth>4041</Bandwidth>
                          <CdnRegion>AP1</CdnRegion>
                          <Flow>2456</Flow>
                    </BillingDataItem>
                    <BillingDataItem>
                          <Bandwidth>3819</Bandwidth>
                          <CdnRegion>NA</CdnRegion>
                    </BillingDataItem>
                    <BillingDataItem>
                          <Bandwidth>272113</Bandwidth>
                          <CdnRegion>CN</CdnRegion>
                    </BillingDataItem>
              </BillingData>
              <Dimension>flow</Dimension>
              <BillTime>2018-09-30T16:00:00Z</BillTime>
        </BillHistoryDataItem>
        <BillHistoryDataItem>
              <BillType>month_avg_day_bandwidth</BillType>
              <BillingData>
                    <BillingDataItem>
                          <Bandwidth>4389</Bandwidth>
                          <CdnRegion>AP1</CdnRegion>
                    </BillingDataItem>
                    <BillingDataItem>
```

```
                        <Bandwidth>4302</Bandwidth>
                        <CdnRegion>NA</CdnRegion>
                  </BillingDataItem>
                  <BillingDataItem>
                        <Bandwidth>291641</Bandwidth>
                        <CdnRegion>CN</CdnRegion>
                  </BillingDataItem>
            </BillingData>
            <Dimension>flow</Dimension>
            <BillTime>2018-09-30T16:00:00Z</BillTime>
      </BillHistoryDataItem>
      <BillHistoryDataItem>
            <BillType>hour_vas</BillType>
            <BillingData>
                  <BillingDataItem>
                        <Count>205624</Count>
                        <ChargeType>DynamicHttp</ChargeType>
                  </BillingDataItem>
            </BillingData>
            <Dimension>vas</Dimension>
            <BillTime>2018-09-30T16:00:00Z</BillTime>
      </BillHistoryDataItem>
      <BillHistoryDataItem>
            <BillType>hour_vas</BillType>
            <BillingData>
                  <BillingDataItem>
                        <Count>203601</Count>
                        <ChargeType>DynamicHttp</ChargeType>
                  </BillingDataItem>
            </BillingData>
            <Dimension>vas</Dimension>
            <BillTime>2018-09-30T17:00:00Z</BillTime>
      </BillHistoryDataItem>
  </BillHistoryData>
  <RequestId>ED61C6C3-8241-4187-AAA7-5157AE175CEC</RequestId>
</DescribeDcdnUserBillHistoryResponse>
```

`JSON` format

```
{
  "BillHistoryData": {
    "BillHistoryDataItem": [
      {
        "BillType": "month_4th_day_bandwidth",
        "BillingData": {
          "BillingDataItem": [
            {
              "Bandwidth": 4041,
              "CdnRegion": "AP1",
              "Flow": "2456"
            },
            {
              "Bandwidth": 3819,
              "CdnRegion": "NA"
            },
            {
              "Bandwidth": 272113,
              "CdnRegion": "CN"
            }
          ]
        },
        "Dimension": "flow",
        "BillTime": "2018-09-30T16:00:00Z"
      },
      {
        "BillType": "month_avg_day_bandwidth",
```

```
        "BillingData": {
          "BillingDataItem": [
            {
              "Bandwidth": 4389,
              "CdnRegion": "AP1"
            },
            {
              "Bandwidth": 4302,
              "CdnRegion": "NA"
            },
            {
              "Bandwidth": 291641,
              "CdnRegion": "CN"
            }
          ]
        },
        "Dimension": "flow",
        "BillTime": "2018-09-30T16:00:00Z"
      },
      {
        "BillType": "hour_vas",
        "BillingData": {
          "BillingDataItem": [
            {
              "Count": 205624,
              "ChargeType": "DynamicHttp"
            }
          ]
        },
        "Dimension": "vas",
        "BillTime": "2018-09-30T16:00:00Z"
      },
      {
        "BillType": "hour_vas",
        "BillingData": {
          "BillingDataItem": [
            {
              "Count": 203601,
              "ChargeType": "DynamicHttp"
            }
          ]
        },
        "Dimension": "vas",
        "BillTime": "2018-09-30T17:00:00Z"
      }
    ]
  },
  "RequestId": "ED61C6C3-8241-4187-AAA7-5157AE175CEC"
}
```


Error codes

HttpCode	Error code	Error message	Description
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the specified end time is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because only the StartTime parameter or the EndTime parameter is specified. Specify both parameters or leave both parameters empty.

For a list of error codes, visit the API Error Center.

12.2. DescribeDcdnUserResourcePackage

Queries the information about the resource plans in your Alibaba Cloud account, including the total quota, remaining quota, effective time, expiration time, and status of each resource plan.

> **Note** The maximum number of times that each user can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnUserResourcePackage	The operation that you want to perform. Set the value to **DescribeDcdnUserResourcePackage**.

Response parameters

Parameter	Type	Example	Description
RequestId	String	96ED3127-EC7A-57C5-AFA6-A689B24B2530	The ID of the request.
ResourcePackageInfos	Array of ResourcePackageInfo		The array consists of multiple ResourcePackageInfo parameters. The details about each resource plan are included in a separate ResourcePackageInfo parameter.
ResourcePackageInfo			
CommodityCode	String	dcdnpaybag	The commodity code of the resource plan.
CurrCapacity	String	10000000	The remaining quota of the resource plan. • A data transfer plan. Unit: byte. • A resource plan that is used to offset the number of requests.
DisplayName	String	Resource plan for static HTTPS requests	The name of the resource plan.
EndTime	String	2022-08-24T16:00:00Z	The time when the resource plan expires. The time follows the ISO 8601 standard in the yyyy-MM-ddThh:mm:ssZ format. The time is displayed in UTC+0.
InitCapacity	String	10000000	The total quota of the resource plan. • A data transfer plan. Unit: byte. • A resource plan that is used to offset the number of requests.
InstanceId	String	CDNFLOWBAG-cn-7pp2bihrb01ii0	The ID of the resource plan.

Parameter	Type	Example	Description
StartTime	String	2021-08-24T04:09:22Z	The time when the resource plan took effect. The time follows the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time is displayed in UTC+0.
Status	String	valid	The status of the resource plan. Valid values: • **valid**: The resource plan is valid. • **closed**: The resource package has expired.
TemplateName	String	FPT_dcdnpaybag_deadlineAcc_1541151058	The name of the template.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=DescribeDcdnUserResourcePackage
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnUserResourcePackageResponse>
  <RequestId>96ED3127-EC7A-57C5-AFA6-A689B24B2530</RequestId>
  <ResourcePackageInfos>
        <ResourcePackageInfo>
              <Status>valid</Status>
              <InitCapacity>10000000</InitCapacity>
              <EndTime>2022-08-24T16:00:00Z</EndTime>
              <InstanceId>CDNFLOWBAG-cn-7pp2bihrb01ii0</InstanceId>
              <CommodityCode>dcdnpaybag</CommodityCode>
              <DisplayName>Resource plan for static HTTPS requests</DisplayName>
              <StartTime>2021-08-24T04:09:22Z</StartTime>
              <TemplateName>FPT_dcdnpaybag_deadlineAcc_1541151058</TemplateName>
              <CurrCapacity>10000000</CurrCapacity>
        </ResourcePackageInfo>
        <ResourcePackageInfo>
              <Status>valid</Status>
              <InitCapacity>1000000</InitCapacity>
              <EndTime>2021-08-31T16:00:00Z</EndTime>
              <InstanceId>CDNFLOWBAG-cn-z2q1t3xre0001x</InstanceId>
              <CommodityCode>dcdnpaybag</CommodityCode>
              <DisplayName>Resource plan for dynamic requests</DisplayName>
              <StartTime>2020-08-31T09:26:20Z</StartTime>
              <TemplateName>FPT_dcdnpaybag_deadlineAcc_1541404502</TemplateName>
              <CurrCapacity>1000000</CurrCapacity>
        </ResourcePackageInfo>
        <ResourcePackageInfo>
              <Status>valid</Status>
              <InitCapacity>1000000</InitCapacity>
              <EndTime>2022-08-24T16:00:00Z</EndTime>
              <InstanceId>CDNFLOWBAG-cn-7pp2bihrb01ijf</InstanceId>
              <CommodityCode>dcdnpaybag</CommodityCode>
              <DisplayName>Resource plan for dynamic requests</DisplayName>
              <StartTime>2021-08-24T04:09:22Z</StartTime>
              <TemplateName>FPT_dcdnpaybag_deadlineAcc_1541404502</TemplateName>
              <CurrCapacity>1000000</CurrCapacity>
        </ResourcePackageInfo>
        <ResourcePackageInfo>
              <Status>closed</Status>
              <InitCapacity>107374182400</InitCapacity>
              <EndTime>2021-02-12T16:00:00Z</EndTime>
              <InstanceId>CDNFLOWBAG-cn-mp91irkf600q2d</InstanceId>
              <CommodityCode>dcdnpaybag</CommodityCode>
              <DisplayName>Outbound data transfer plan for mainland China</DisplayName>
              <StartTime>2020-02-12T07:31:08Z</StartTime>
              <TemplateName>FPT_dcdnpaybag_deadlineAcc_1541405199</TemplateName>
              <CurrCapacity>0</CurrCapacity>
        </ResourcePackageInfo>
        <ResourcePackageInfo>
              <Status>valid</Status>
              <InitCapacity>1000000</InitCapacity>
              <EndTime>2022-08-24T16:00:00Z</EndTime>
              <InstanceId>CDNFLOWBAG-cn-7pp2bihrb01ik9</InstanceId>
              <CommodityCode>dcdn_waf_bag</CommodityCode>
              <DisplayName>Resource plan for WAF requests</DisplayName>
              <StartTime>2021-08-24T04:09:22Z</StartTime>
              <TemplateName>FPT_dcdn_waf_bag_deadlineAcc_1612705404</TemplateName>
              <CurrCapacity>1000000</CurrCapacity>
        </ResourcePackageInfo>
  </ResourcePackageInfos>
</DescribeDcdnUserResourcePackageResponse>
```


`JSON` format

```
{
    "RequestId": "96ED3127-EC7A-57C5-AFA6-A689B24B2530",
    "ResourcePackageInfos": {
        "ResourcePackageInfo": [
            {
                "Status": "valid",
                "InitCapacity": "10000000",
                "EndTime": "2022-08-24T16:00:00Z",
                "InstanceId": "CDNFLOWBAG-cn-7pp2bihrb01ii0",
                "CommodityCode": "dcdnpaybag",
                "DisplayName": "Resource plan for static HTTPS requests",
                "StartTime": "2021-08-24T04:09:22Z",
                "TemplateName": "FPT_dcdnpaybag_deadlineAcc_1541151058",
                "CurrCapacity": "10000000"
            },
            {
                "Status": "valid",
                "InitCapacity": "1000000",
                "EndTime": "2021-08-31T16:00:00Z",
                "InstanceId": "CDNFLOWBAG-cn-z2q1t3xre0001x",
                "CommodityCode": "dcdnpaybag",
                "DisplayName": "Resource plan for dynamic requests",
                "StartTime": "2020-08-31T09:26:20Z",
                "TemplateName": "FPT_dcdnpaybag_deadlineAcc_1541404502",
                "CurrCapacity": "1000000"
            },
            {
                "Status": "valid",
                "InitCapacity": "1000000",
                "EndTime": "2022-08-24T16:00:00Z",
                "InstanceId": "CDNFLOWBAG-cn-7pp2bihrb01ijf",
                "CommodityCode": "dcdnpaybag",
                "DisplayName": "Resource plan for dynamic requests",
                "StartTime": "2021-08-24T04:09:22Z",
                "TemplateName": "FPT_dcdnpaybag_deadlineAcc_1541404502",
                "CurrCapacity": "1000000"
            },
            {
                "Status": "closed",
                "InitCapacity": "107374182400",
                "EndTime": "2021-02-12T16:00:00Z",
                "InstanceId": "CDNFLOWBAG-cn-mp91irkf600q2d",
                "CommodityCode": "dcdnpaybag",
                "DisplayName": "Outbound data transfer plan for mainland China",
                "StartTime": "2020-02-12T07:31:08Z",
                "TemplateName": "FPT_dcdnpaybag_deadlineAcc_1541405199",
                "CurrCapacity": "0"
            },
            {
                "Status": "valid",
                "InitCapacity": "1000000",
                "EndTime": "2022-08-24T16:00:00Z",
                "InstanceId": "CDNFLOWBAG-cn-7pp2bihrb01ik9",
                "CommodityCode": "dcdn_waf_bag",
                "DisplayName": "Resource plan for WAF requests",
                "StartTime": "2021-08-24T04:09:22Z",
                "TemplateName": "FPT_dcdn_waf_bag_deadlineAcc_1612705404",
                "CurrCapacity": "1000000"
            }
        ]
    }
}
```


Error codes

For a list of error codes, visit the API Error Center.

12.3. DescribeDomainUsageData

Queries the resource usage information about specified domain names in a specified region.

> **Notice**
> - Usage data includes network traffic (measured in bytes), bandwidth values (measured in bits/s), and the number of requests.
> - The maximum number of times that each user can call this operation per second is 10.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameter

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainUsageData	The operation that you want to perform. Set the value to **DescribeDcdnDomainUsageData**.
EndTime	String	Yes	2015-12-10T22:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0. **Note** The end time must be later than the start time. The maximum time range that can be queried is 31 days.
Field	String	Yes	bps	The type of the data to be queried. Valid values: - **bps**: bandwidth - **traf**: traffic - **acc**: requests **Note** **acc** does not support the **Area** parameter.
StartTime	String	Yes	2015-12-10T20:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0. **Note** The minimum interval at which the data is collected is 5 minutes.

Parameter	Type	Required	Example	Description
DataProtocol	String	No	all	The protocol of the data to query. Valid values: • **quic**: Quick UDP Internet Connections (QUIC) • **https**: HTTPS • **http**: HTTP • **all**: all the preceding protocols The default value is **all**.
DomainName	String	No	example.com	The accelerated domain names that you want to query. You can specify at most 100 domain names at a time. Separate multiple domain names with commas (,). **Note** If you do not specify an accelerated domain name, all accelerated domain names that belong to your Alibaba Cloud account are queried.
Area	String	No	CN	The ID of the area. Valid values: • **CN**: mainland China • **OverSeas**: regions outside mainland China • **AP1**: Asia Pacific 1 • **AP2**: Asia Pacific 2 • **AP3**: Asia Pacific 3 • **NA**: North America • **SA**: South America • **EU**: Europe • **MEAA**: Middle East and Africa • **all**: all the preceding areas The default value is **CN**.
Interval	String	No	300	The time interval between the data entries to return. Unit: seconds. Valid values: **300** (5 minutes), **3600** (1 hour), and **86400** (one day). • If you set the **Interval** parameter to **300**, you can query data that was collected within the last six months. In this case, the maximum time range that can be queried in each call is three days. • If you set the **Interval** parameter to **3600** or **86400**, you can query data that was collected within the last year. • If you do not set the **Interval** parameter, the maximum time range that can be queried in each call is one month. If you specify a time range of one to three days for a query, the time interval between the entries that are returned is one hour. If you specify a time range of at least four days for a query, the time interval between the entries that are returned is one day.

Parameter combinations

The following table describes the correlations between the billable items and parameters. For more information about the calling method, see the sample request.

Billable item	Valid value of DataProtocol	Valid value of Type	Valid value of Field	Valid value of Area
Network traffic	all. The value of this parameter can be empty.	all. The value of this parameter can be empty.	traf	CN OverSeas AP1 AP2 AP3 NA SA EU MEAA
Bandwidth	all. The value of this parameter can be empty.	all. The value of this parameter can be empty.	bps	CN OverSeas AP1 AP2 AP3 NA SA EU MEAA
Number of HTTPS requests for static content	https	static	acc	all
Number of HTTP requests for dynamic content	http	dynamic	acc	all
Number of HTTPS requests for dynamic content	https	dynamic	acc	all

Response parameters

Parameter	Type	Sample response	Description
Area	String	CN	The area where resource usage is queried.
DataInterval	String	/	The time interval between the data entries. Unit: seconds.
DomainName	String	example.com	The accelerated domain name that is queried.

Parameter	Type	Sample response	Description
EndTime	String	2015-12-10T22:00:00Z	The end of the time range to query data.
RequestId	String	B955107D-E658-4E77-B913-E0AC3D31693E	The ID of the request.
StartTime	String	2015-12-10T20:00:00Z	The start of the time range to query data.
Type	String	static	The type of the content that is requested.
UsageDataPerInterval	Array of DataModule		The information about the network traffic collected at each interval.
DataModule			
PeakTime	String	2015-12-10T21:30:00Z	If the **Field** parameter in the request is set to **bps**, this parameter returns the time of the highest bandwidth value. Otherwise, this parameter returns the same value as the **TimeStamp** parameter.
SpecialValue	String	4233041**	The data usage in a specific scenario. **Note** Indicates the data usage in a specific scenario. If no special billable item is specified, ignore this parameter.
TimeStamp	String	2015-12-10T21:30:00Z	The timestamp of the data returned.
Value	String	4233041**	The amount of data that was used.

Examples

Sample requests

```
Query data usage in mainland China
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainUsageData
&DomainName=example.com
&StartTime=2015-12-10T20:00:00Z
&EndTime=2015-12-10T22:00:00Z
&Field=traf
&Area=CN
&<Common request parameters>
Query bandwidth usage in Europe
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainUsageData
&DomainName=example.com
&StartTime=2015-12-10T20:00:00Z
&EndTime=2015-12-10T22:00:00Z
&Field=bps
&Area=EU
&<Common request parameters>
Number of HTTPS requests for static content
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainUsageData
&DomainName=example.com
&StartTime=2015-12-10T20:00:00Z
&EndTime=2015-12-10T22:00:00Z
&Type=static
&DataProtocol=https
&Field=acc
&Area=all
&<Common request parameters>
Number of HTTP requests for dynamic content
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainUsageData
&DomainName=example.com
&StartTime=2015-12-10T20:00:00Z
&EndTime=2015-12-10T22:00:00Z
&Type=dynamic
&DataProtocol=http
&Field=acc
&Area=all
&<Common request parameters>
Number of HTTPS requests for dynamic content
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainUsageData
&DomainName=example.com
&StartTime=2015-12-10T20:00:00Z
&EndTime=2015-12-10T22:00:00Z
&Type=dynamic
&DataProtocol=https
&Field=acc
&Area=all
&<Common request parameters>
```

Sample success response

`XML` format

```
<DescribeDcdnDomainUsageDataResponse>
  <DomainName>example.com</DomainName>
  <UsageDataPerInterval>
        <DataModule>
              <TimeStamp>2015-12-10T20:00:00Z</TimeStamp>
              <PeakTime>2015-12-10T20:05:00Z</PeakTime>
              <Value>4233041**</Value>
              <SpecialValue>4233041**</SpecialValue>
        </DataModule>
        <DataModule>
              <TimeStamp>2015-12-10T21:00:00Z</TimeStamp>
              <PeakTime>2015-12-10T21:30:00Z</PeakTime>
              <Value>4546807**</Value>
              <SpecialValue>4233041**</SpecialValue>
        </DataModule>
  </UsageDataPerInterval>
  <RequestId>B955107D-E658-4E77-B913-E0AC3D31693E</RequestId>
  <StartTime>2015-12-10T20:00Z</StartTime>
  <EndTime>2015-12-10T21:00Z</EndTime>
  <Area>CN</Area>
  <Type>traf</Type>
</DescribeDcdnDomainUsageDataResponse>
```

`JSON` format

```
{
    "DomainName": "example.com",
    "UsageDataPerInterval": {
        "DataModule": [
            {
                "TimeStamp": "2015-12-10T20:00:00Z",
                "PeakTime": "2015-12-10T20:05:00Z",
                "Value": "4233041**",
                "SpecialValue": "4233041**"
            },
            {
                "TimeStamp": "2015-12-10T21:00:00Z",
                "PeakTime": "2015-12-10T21:30:00Z",
                "Value": "4546807**",
                "SpecialValue": "4233041**"
            }
        ]
    },
    "RequestId": "B955107D-E658-4E77-B913-E0AC3D31693E",
    "StartTime": "2015-12-10T20:00Z",
    "EndTime": "2015-12-10T21:00Z",
    "Area": "CN",
    "Type": "traf"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	InvalidParameter	The specified parameter is invalid.	The error message returned because a parameter is set to an invalid value.
400	InvalidParameterProduct	The specified Product is invalid.	The error message returned because the value of the Product parameter is invalid.
400	InvalidParameterArea	The specified Area is invalid.	The error message returned because the value of the Area parameter is invalid.

HttpCode	Error code	Error message	Description
400	InvalidParameterField	The specified Field is invalid.	The error message returned because the value of the Field parameter is invalid.
400	InvalidParameterStartTime	The specified StartTime is invalid.	The error message returned because the specified start time is invalid.
400	InvalidParameterEndTime	The specified EndTime is invalid.	The error message returned because the specified end time is invalid.
400	InvalidTimeRange	The time span between the StartTime and the EndTime cannot exceed 31 days.	The error message returned because the time range that is specified by the StartTime and EndTime parameters exceeds 31 days.
400	InvalidParameterInterval	The specified Interval is invalid.	The error message returned because the value of the Interval parameter is invalid.

For a list of error codes, visit the API Error Center.

12.4. DescribeDcdnBgpBpsData

Queries the bandwidth data that is collected at an interval of 5 minutes for one or more Border Gateway Protocol (BGP) accelerated domains.

Usage notes

- If you specify neither the StartTime parameter nor the EndTime parameter, the data within the last 24 hours is returned. If you specify the StartTime and EndTime parameters, the data within the specified time range is returned. You must specify both parameters or leave both parameters empty.
- If you specify multiple Internet service providers (ISPs), the bandwidth data for the ISPs is aggregated.
- You can query the data for up to the last 90 days.
- The maximum time range from the start time to the end time is 31 days. The start time is specified by the StartTime parameter and the end time is specified by the EndTime parameter.
- If the time range from the start time to the end time is 72 hours or shorter, you can specify the interval as 5 minutes. If the time range is longer than 72 hours, you must specify the interval as 1 hour.
- The maximum number of times that each user can call this operation per second is 5.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnBgpBpsData	The operation that you want to perform. Set the value to **DescribeDcdnBgpBpsData**.
Isp	String	No	cu	The ISPs. If you need to specify multiple ISPs, separate them with commas (,). If you specify multiple ISPs, the bandwidth data for the ISPs is aggregated. By default, the operation returns the bandwidth data for all the ISPs. Valid values: • cu: China Unicom • cmi: China Mobile • ct: China Telecom

Parameter	Type	Required	Example	Description
StartTime	String	No	2018-11-29T00:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0. The minimum data collection interval is an hour. By default, the bandwidth data that is collected within the last 24 hours is returned.
EndTime	String	No	2018-11-30T00:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0.
Interval	String	No	300	The data collection interval. Unit: second. Valid values: 300 and 3600. Default value: 300. The default value of 300 seconds is equal to 5 minutes. The value of this parameter varies based on the time range from the specified start time to the specified end time.

Response parameters

Parameter	Type	Example	Description
BgpDataInterval	Array of BgpData		The BGP bandwidth data that is collected for each interval.
In	Float	318	The inbound bandwidth. Unit: bit/s.
Out	Float	183	The outbound bandwidth. Unit: bit/s.
TimeStamp	String	2018-11-29T20:00:00Z	The timestamp of the returned data.
StartTime	String	2018-11-29T00:00:00Z	The start time.
EndTime	String	2018-11-30T00:00:00Z	The end time.
RequestId	String	E9D3257A-1B7C-414C-90C1-8D07AC47BCAC	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com?Action=DescribeDcdnBgpBpsData
&StartTime=2015-11-29T00:00:00Z
&EndTime=2015-11-30T00:00:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnBgpBpsDataResponse>
  <RequestId>E9D3257A-1B7C-414C-90C1-8D07AC47BCAC</RequestId>
  <EndTime>2015-11-30T00:00:00Z</EndTime>
  <StartTime>2015-11-29T00:00:00Z</StartTime>
  <BgpDataInterval>
        <TimeStamp>2015-11-29T20:00:00Z</TimeStamp>
        <In>318</In>
        <Out>183</Out>
  </BgpDataInterval>
  <BgpDataInterval>
        <TimeStamp>2015-11-29T20:05:00Z</TimeStamp>
        <In>312</In>
        <Out>331</Out>
  </BgpDataInterval>
</DescribeDcdnBgpBpsDataResponse>
```

`JSON` format

```
{
    "RequestId": "E9D3257A-1B7C-414C-90C1-8D07AC47BCAC",
    "EndTime": "2015-11-30T00:00:00Z",
    "StartTime": "2015-11-29T00:00:00Z",
    "BgpDataInterval": [
        {
            "TimeStamp": "2015-11-29T20:00:00Z",
            "In": 318,
            "Out": 183
        },
        {
            "TimeStamp": "2015-11-29T20:05:00Z",
            "In": 312,
            "Out": 331
        }
    ]
}
```

Error codes

HttpCode	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because only the StartTime parameter or the EndTime parameter is specified. Specify both parameters or leave both parameters empty.
400	InvalidStartTime.Malformed	The specified StartTime parameter is invalid.	The error message returned because the format of the specified start time is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the specified end time is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the specified end time is earlier than the specified start time.

HttpCode	Error code	Error message	Description
400	InvalidStartTime.ValueNot Supported	The specified StartTime is invalid.	The error message returned because the specified start time is not supported. Specify another value.

For a list of error codes, visit the API Error Center.

12.5. DescribeDcdnBgpTrafficData

Queries the traffic data that is collected at an interval of 5 minutes for one or more Border Gateway Protocol (BGP) accelerated domains.

Usage notes

- If you specify neither the StartTime parameter nor the EndTime parameter, the data within the last 24 hours is returned. If you specify the StartTime and EndTime parameters, the data within the specified time range is returned. You must specify both parameters or leave both parameters empty.
- If you specify multiple Internet service providers (ISPs), the data for the ISPs is aggregated.
- You can query the data for up to the last 90 days.
- The maximum time range from the start time to the end time is 31 days. The start time is specified by the StartTime parameter and the end time is specified by the EndTime parameter.
- If the time range from the start time to the end time is 72 hours or shorter, you can specify the interval as 5 minutes. If the time range is longer than 72 hours, you must specify the interval as 1 hour.
- The maximum number of times that each user can call this operation per second is 5.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnBgpTrafficData	The operation that you want to perform. Set the value to **DescribeDcdnBgpTrafficData**.
Isp	String	No	cu	The ISPs. If you need to specify multiple ISPs, separate them with commas (,). If you specify multiple ISPs, the data for the ISPs is aggregated. If you do not specify this parameter, the operation returns the data for all the ISPs. Valid values: • cu: China Unicom • cmi: China Mobile • ct: China Telecom
StartTime	String	No	2018-11-29T00:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0. The minimum data collection interval is an hour. By default, the data that is collected within the last 24 hours is returned.

Parameter	Type	Required	Example	Description
EndTime	String	No	2018-11-30T00:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0.
Interval	String	No	300	The data collection interval. Unit: second. Valid values: 300 and 3600. Default value: 300. The default value of 300 seconds is equal to 5 minutes. The value of this parameter varies based on the time range from the specified start time to the specified end time.

Response parameters

Parameter	Type	Example	Description
BgpDataInterval	Array of BgpData		The BGP traffic data that is collected for each interval.
In	Long	318	The inbound traffic. Unit: byte.
Out	Long	183	The outbound traffic. Unit: byte.
TimeStamp	String	2018-11-29T20:00:00Z	The timestamp of the returned data.
StartTime	String	2018-11-29T00:00:00Z	The start time.
EndTime	String	2018-11-30T00:00:00Z	The end time.
RequestId	String	E9D3257A-1B7C-414C-90C1-8D07AC47BCAC	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com?Action=DescribeDcdnBgpTrafficData
&StartTime=2015-11-29T00:00:00Z
&EndTime=2015-11-30T00:00:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>E9D3257A-1B7C-414C-90C1-8D07AC47BCAC</RequestId>
<EndTime>2015-11-30T00:00:00Z</EndTime>
<StartTime>2015-11-29T00:00:00Z</StartTime>
<BgpDataInterval>
    <TimeStamp>2015-11-29T20:00:00Z</TimeStamp>
    <In>318</In>
    <Out>183</Out>
</BgpDataInterval>
<BgpDataInterval>
    <TimeStamp>2015-11-29T20:05:00Z</TimeStamp>
    <In>312</In>
    <Out>331</Out>
</BgpDataInterval>
```

`JSON` format

```
{
    "RequestId": "E9D3257A-1B7C-414C-90C1-8D07AC47BCAC",
    "EndTime": "2015-11-30T00:00:00Z",
    "StartTime": "2015-11-29T00:00:00Z",
    "BgpDataInterval": [
        {
            "TimeStamp": "2015-11-29T20:00:00Z",
            "In": 318,
            "Out": 183
        },
        {
            "TimeStamp": "2015-11-29T20:05:00Z",
            "In": 312,
            "Out": 331
        }
    ]
}
```

Error codes

HttpCode	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because only the StartTime parameter or the EndTime parameter is specified. Specify both parameters or leave both parameters empty.
400	InvalidStartTime.Malformed	The specified StartTime parameter is invalid.	The error message returned because the format of the specified start time is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the specified end time is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the specified end time is earlier than the specified start time.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the specified start time is not supported. Specify another value.

For a list of error codes, visit the API Error Center.

13.Log management

13.1. DescribeDcdnDomainLog

Queries the address where you can download the raw access log data of a specific domain name.

> **Note**
> - If you do not specify the **StartTime** and **EndTime** parameters, the log data that is collected over the last 24 hours is returned. If you specify both the **StartTime** and **EndTime** parameters, the log data that is collected within the time range that you specify is returned.
> - The maximum number of times that each user can call this operation per second is 100.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainLog	The operation that you want to perform. Set the value to **DescribeDcdnDomainLog**.
DomainName	String	Yes	example.com	The accelerated domain name that you want to query. You can specify only one domain name in each request.
PageSize	Long	No	300	The number of entries to return on each page. Valid values: **1** to **1000**. Default value: **300**. Maximum value: **1000**.
PageNumber	Long	No	1	The number of the page to return. Pages start from page **1**. Default value: **1**.
StartTime	String	No	2021-11-07T17:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0.
EndTime	String	No	2021-11-07T18:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0. **Note** The end time must be later than the start time.

Response parameters

Parameter	Type	Example	Description
DomainLogDetails	Array of DomainLogDetail		The array consists of multiple DomainLogDetail parameters. The details about the logs of a domain name are included in a separate DomainLogDetail parameter.
DomainLogDetail			
LogCount	Long	4	The total number of entries returned on the current page.
LogInfos	Array of LogInfoDetail		The array consists of multiple LogInfoDetail parameters. The details about each log are included in a separate LogInfoDetail parameter.
LogInfoDetail			
EndTime	String	2021-11-07T18:00:00Z	The end of the time range during which the data was queried.
LogName	String	example.com_2021_11_08_010000_020000.gz	The name of the log file.
LogPath	String	example.aliyundoc.com/v1.l1cache/105252530/example.com/2021_11_08/example.com_2021_11_08_010000_020000.gz?Expires=1636963354&OSSAccessKeyId=LTAIviCc6zy8****&Signature=u0V6foRfZniHE8i%2BHUdxGOhZsK****	The path of the log file. You need to take note of the Expires field in the LogPath parameter. The Expires field indicates the timestamp when the log file expires. After the log file expires, the log download URL becomes invalid, and you must obtain the download URL again. For more information, see Add signatures to a URL.
LogSize	Long	192	The size of the log file.
StartTime	String	2021-11-07T17:00:00Z	The beginning of the time range during which the data was queried.
PageInfos	Struct		The information about the page. The information about the page is indicated by the PageInfoDetail parameter.
PageIndex	Long	1	The page number of the returned page.
PageSize	Long	10	The number of entries returned per page.
Total	Long	4	The total number of returned entries.
DomainName	String	example.com	The domain name for which the data was queried.
RequestId	String	95594003-CAC5-5636-AF72-2A094364****	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com?Action=DescribeDcdnDomainLog
&DomainName=example.com
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnDomainLogResponse>
  <RequestId>95594003-CAC5-5636-AF72-2A094364****</RequestId>
  <DomainName>example.com</DomainName>
  <DomainLogDetails>
        <DomainLogDetail>
              <LogInfos>
                    <LogInfoDetail>
                          <LogSize>192</LogSize>
                          <EndTime>2021-11-07T18:00:00Z</EndTime>
                          <StartTime>2021-11-07T17:00:00Z</StartTime>
                          <LogName>example.com_2021_11_08_010000_020000.gz</LogName>
                          <LogPath>example.aliyundoc.com /v1.l1cache/105252530/example.com/2021_11_08/example.com
_2021_11_08_010000_020000.gz?Expires=1636963354&amp;OSSAccessKeyId=LTAIviCc6zy8****&amp;Signature=u0V6foRfZniHE8i
%2BHUdxGOhZsK****</LogPath>
                    </LogInfoDetail>
                    <LogInfoDetail>
                          <LogSize>226</LogSize>
                          <EndTime>2021-11-07T20:00:00Z</EndTime>
                          <StartTime>2021-11-07T19:00:00Z</StartTime>
                          <LogName>example.com_2021_11_08_030000_040000.gz</LogName>
                          <LogPath>example.aliyundoc.com /v1.l1cache/105252530/example.com/2021_11_08/example.com
_2021_11_08_030000_040000.gz?Expires=1636963354&amp;OSSAccessKeyId=LTAIviCc6zy8****&amp;Signature=GPETaV9ydedqtQx
oEcVONxQvY****</LogPath>
                    </LogInfoDetail>
                    <LogInfoDetail>
                          <LogSize>260</LogSize>
                          <EndTime>2021-11-07T21:00:00Z</EndTime>
                          <StartTime>2021-11-07T20:00:00Z</StartTime>
                          <LogName>example.com_2021_11_08_040000_050000.gz</LogName>
                          <LogPath>example.aliyundoc.com /v1.l1cache/105252530/example.com/2021_11_08/example.com
_2021_11_08_040000_050000.gz?Expires=1636963354&amp;OSSAccessKeyId=LTAIviCc6zy8****&amp;Signature=WIOGy%2BLRp86zp
ex%2FCGOETf6UUg****</LogPath>
                    </LogInfoDetail>
                    <LogInfoDetail>
                          <LogSize>413</LogSize>
                          <EndTime>2021-11-07T22:00:00Z</EndTime>
                          <StartTime>2021-11-07T21:00:00Z</StartTime>
                          <LogName>example.com_2021_11_08_050000_060000.gz</LogName>
                          <LogPath>example.aliyundoc.com /v1.l1cache/105252530/example.com/2021_11_08/example.com
_2021_11_08_050000_060000.gz?Expires=1636963354&amp;OSSAccessKeyId=LTAIviCc6zy8****&amp;Signature=vZpNRaKuaFsOB7R
T%2F%2BS8wjfmjO****</LogPath>
                    </LogInfoDetail>
              </LogInfos>
              <PageInfos>
                    <PageSize>10</PageSize>
                    <Total>4</Total>
                    <PageIndex>1</PageIndex>
              </PageInfos>
              <LogCount>4</LogCount>
        </DomainLogDetail>
  </DomainLogDetails>
</DescribeDcdnDomainLogResponse>
```

`JSON` format

```
{
    "RequestId": "95594003-CAC5-5636-AF72-2A094364****",
    "DomainName": "example.com",
    "DomainLogDetails": {
        "DomainLogDetail": [
            {
                "LogInfos": {
                    "LogInfoDetail": [
                        {
                            "LogSize": 192,
                            "EndTime": "2021-11-07T18:00:00Z",
                            "StartTime": "2021-11-07T17:00:00Z",
                            "LogName": "example.com_2021_11_08_010000_020000.gz",
                            "LogPath": "example.aliyundoc.com /v1.11cache/105252530/example.com/2021_11_08/exampl
e.com_2021_11_08_010000_020000.gz?Expires=1636963354&OSSAccessKeyId=LTAIviCc6zy8****&Signature=u0V6foRfZniHE8i%2B
HUdxGOhZsK****"
                        },
                        {
                            "LogSize": 226,
                            "EndTime": "2021-11-07T20:00:00Z",
                            "StartTime": "2021-11-07T19:00:00Z",
                            "LogName": "example.com_2021_11_08_030000_040000.gz",
                            "LogPath": "example.aliyundoc.com /v1.11cache/105252530/example.com/2021_11_08/exampl
e.com_2021_11_08_030000_040000.gz?Expires=1636963354&OSSAccessKeyId=LTAIviCc6zy8****&Signature=GPETaV9ydedqtQxoEc
VONxQvY****"
                        },
                        {
                            "LogSize": 260,
                            "EndTime": "2021-11-07T21:00:00Z",
                            "StartTime": "2021-11-07T20:00:00Z",
                            "LogName": "example.com_2021_11_08_040000_050000.gz",
                            "LogPath": "example.aliyundoc.com /v1.11cache/105252530/example.com/2021_11_08/exampl
e.com_2021_11_08_040000_050000.gz?Expires=1636963354&OSSAccessKeyId=LTAIviCc6zy8****&Signature=WIOGy%2BLRp86zpex%
2FCGOETf6UUg****"
                        },
                        {
                            "LogSize": 413,
                            "EndTime": "2021-11-07T22:00:00Z",
                            "StartTime": "2021-11-07T21:00:00Z",
                            "LogName": "example.com_2021_11_08_050000_060000.gz",
                            "LogPath": "example.aliyundoc.com /v1.11cache/105252530/example.com/2021_11_08/exampl
e.com_2021_11_08_050000_060000.gz?Expires=1636963354&OSSAccessKeyId=LTAIviCc6zy8****&Signature=vZpNRaKuaFsOB7RT%2
F%2BS8wjfmjO****"
                        }
                    ]
                },
                "PageInfos": {
                    "PageSize": 10,
                    "Total": 4,
                    "PageIndex": 1
                },
                "LogCount": 4
            }
        ]
    }
}
```


Error codes

HttpCode	Error code	Error message	Description
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.

For a list of error codes, visit the API Error Center.

13.2. DescribeUserLogserviceStatus

Queries whether Log Service is activated or has an overdue payment.

> **Note** The maximum number of times that each user can call this operation per second is 20.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeUserLogserviceStatus	The operation that you want to perform. Set the value to **DescribeUserLogserviceStatus**.

Response parameters

Parameter	Type	Example	Description
Enabled	Boolean	true	Indicates whether Log Service is activated. • true: activated • false: not activated
InDebt	Boolean	false	Indicates whether Log Service has an overdue payment. • true: has an overdue payment • false: does not have an overdue payment.
InDebtOverdue	Boolean	false	Indicates whether an overdue payment of Log Service has passed the grace period. • true: has passed the grace period • false: has not passed the grace period
OnService	Boolean	true	Indicates whether Log Service is available. • true: available • false: unavailable
RequestId	String	4F51E9C3-728F-4E35-952D-0ED87A06A8A1	The ID of the request.

Examples

Sample requests

```
https://dcdn.aliyuncs.com?&Action=DescribeUserLogserviceStatus&<Common request parameters>
```

Sample success responses

`XML` format

```
<Enabled>true</Enabled>
<InDebtOverdue>false</InDebtOverdue>
<InDebt>false</InDebt>
<OnService>true</OnService>
<RequestId>4F51E9C3-728F-4E35-952D-0ED87A06A8A1</RequestId>
```

`JSON` format

```
{
    "Enabled": true,
    "InDebtOverdue": false,
    "InDebt": false,
    "OnService": true,
    "RequestId": "4F51E9C3-728F-4E35-952D-0ED87A06A8A1"
}
```

Error codes

For a list of error codes, visit the API Error Center.

13.3. CheckDcdnProjectExist

Checks whether a real-time log delivery project exists.

> **Note** The maximum number of times that each user can call this operation per second is 100.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CheckDcdnProjectExist	The operation that you want to perform. Set the value to **CheckDcdnProjectExist**.
ProjectName	String	Yes	example	The name of a real-time log delivery project.

Response parameters

Parameter	Type	Example	Description
RequestId	String	b021e538-9dde-46ed-a1f2-9469da8f3e77	The ID of the request.
Content	Struct		The returned results.
Exist	String	false	Indicates whether the real-time log delivery project exists. Valid values: • **false**: The real-time log delivery project does not exist. • **true**: The real-time log delivery project exists.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=CheckDcdnProjectExist
&ProjectName=example
&<Common request parameters>
```

Sample success responses

`XML` format

```
<CheckDcdnProjectExistResponse>
      <RequestId>b021e538-9dde-46ed-a1f2-9469da8f3e77</RequestId>
      <Content>
            <Exist>false</Exist>
      </Content>
</CheckDcdnProjectExistResponse>
```

`JSON` format

```
{
    "RequestId": "b021e538-9dde-46ed-a1f2-9469da8f3e77",
    "Content": {
        "Exist": "false"
    }
}
```

Error codes

HttpCode	Error code	Error message	Description
400	Unauthorized	RealtimeLogDelivery service is not authorized.	The error message returned because you are not authorized to use real-time log delivery.

For a list of error codes, visit the API Error Center.

13.4. CreateDcdnSLSRealTimeLogDelivery

Creates a real-time log delivery project.

> **Note** The maximum number of times that each user can call this operation per second is 100.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateDcdnSLSRealTimeLogDelivery	The operation that you want to perform. Set the value to **CreateDcdnSLSRealTimeLogDelivery**.
DataCenter	String	Yes	cn	The region from which logs are collected.

Parameter	Type	Required	Example	Description
DomainName	String	Yes	example.com	The domain names from which logs are collected. You can specify one or more domain names. Separate multiple domain names with commas (,).
ProjectName	String	Yes	example	The name of the real-time log delivery project.
SLSLogStore	String	Yes	demo	The name of the Log Service Logstore.
SLSProject	String	Yes	aliyundoc	The name of the Log Service project.
SLSRegion	String	Yes	cn-hangzhou	The region to which real-time logs are delivered.
SamplingRate	String	No	1.0	The sampling rate.
BusinessType	String	No	cdn_log_access_l1	The type of logs that you collect. Default value: cdn_log_access_l1. Valid values: • **cdn_log_access_l1**: access logs of L1 Dynamic Route for CDN (DCDN) nodes • **cdn_log_origin**: back-to-origin logs • **cdn_log_er**: EdgeRoutine logs

Response parameters

Parameter	Type	Example	Description
Content	Array of Domains		The configuration results of the domain name.
Domains			
Desc	String	ok	The description of the returned result.
DomainName	String	example.com	The domain name from which real-time logs were collected.
Region	String	cn	The region to which real-time logs were delivered.
Status	String	success	The status of real-time logs.
RequestId	String	F32C57AA-7BF8-49AE-A2CC-9F42390F5A19	The ID of the request.

Examples

Sample requests

```
https://dcdn.aliyuncs.com?Action=CreateDcdnSLSRealTimeLogDelivery
&DataCenter=cn
&DomainName=example.com
&ProjectName=example
&SLSLogStore=demo
&SLSProject=aliyundoc
&SLSRegion=cn-hangzhou
&<Common request parameters>
```

Sample success responses

`XML` format

```
<CreateDcdnSLSRealTimeLogDeliveryResponse>
  <RequestId>F32C57AA-7BF8-49AE-A2CC-9F42390F5A19</RequestId>
  <Content>
        <Domains>
              <DomainName>example.com</DomainName>
              <Region>cn</Region>
              <Status>success</Status>
              <Desc>ok</Desc>
        </Domains>
        <Domains>
              <DomainName>example.org</DomainName>
              <Region>sg</Region>
              <Status>success</Status>
              <Desc>ok</Desc>
        </Domains>
  </Content>
</CreateDcdnSLSRealTimeLogDeliveryResponse>
```

`JSON` format

```
{
    "RequestId": "F32C57AA-7BF8-49AE-A2CC-9F42390F5A19",
    "Content": {
        "Domains": [
            {
                "DomainName": "example.com",
                "Region": "cn",
                "Status": "success",
                "Desc": "ok"
            },
            {
                "DomainName": "example.org",
                "Region": "sg",
                "Status": "success",
                "Desc": "ok"
            }
        ]
    }
}
```

Error codes

HttpCode	Error codes	Error message	Description
400	Unauthorized	RealtimeLogDelivery service is not authorized.	The error message returned because you are not authorized to use real-time log delivery.

For a list of error codes, visit the API Error Center.

13.5. CreateSlrAndSlsProject

Creates a service-linked role (SLR) and a Log Service project.

> **Note** The maximum number of times that each user can call this operation per second is 100.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateSlrAndSlsProject	The operation that you want to perform. Set the value to **CreateSlrAndSlsProject**.
Region	String	Yes	cn-shanghai	The region where Log Service resides. Valid values: • **cn-hangzhou** • **cn-shanghai** • **cn-qingdao** • **cn-beijing** • **cn-zhangjiakou** • **cn-shenzhen** • **eu-central-1** • **us-west-1** • **ap-south-1** • **ap-southeast-1**

Response parameters

Parameter	Type	Example	Description
RequestId	String	fe33a379-5053-4f22-a73c-826e2b44355d	The ID of the request.
SlsInfo	Struct		The information about Log Service.
EndPoint	String	cn-shanghai.log.*.com	The endpoint of Log Service.
LogStore	String	dcdn-edge-trlog	The Logstore of Log Service.
Project	String	dcdn-edge-rtlog-cn-cfc7****	The project of Log Service.
Region	String	cn-shanghai	The region where Log Service resides.

Examples

Sample requests

```
https://dcdn.aliyuncs.com?Action=CreateSlrAndSlsProject&Region=cn-shanghai
&<Common request parameters>
```

Sample success responses

`XML` format

```
<CreateSlrAndSlsProjectResponse>
  <SlsInfo>
        <Project>dcdn-edge-rtlog-cn-cfc7****</Project>
        <LogStore>dcdn-edge-trlog</LogStore>
        <EndPoint>cn-shanghai.log.*.com</EndPoint>
        <Region>cn-shanghai</Region>
  </SlsInfo>
  <RequestId>fe33a379-5053-4f22-a73c-826e2b44355d</RequestId>
</CreateSlrAndSlsProjectResponse>
```

`JSON` format

```
{
    "SlsInfo": {
        "Project": "dcdn-edge-rtlog-cn-cfc7****",
        "LogStore": "dcdn-edge-trlog",
        "EndPoint": "cn-shanghai.log.*.com",
        "Region": "cn-shanghai"
    },
    "RequestId": "fe33a379-5053-4f22-a73c-826e2b44355d"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	Unauthorized	RealtimeLogDelivery service is not authorized.	The error message returned because you are not authorized to use real-time log delivery.
400	CreateSlr.PermissionDenied	You are not authorized to create service-linked roles. Contact your Alibaba Cloud account or an administrator to grant you the AliyunDCDNFullAccess policy or the custom policy used to create service-linked roles. Service name: realtimelogdelivery.dcdn.aliyuncs.com. Action: ram:CreateServiceLinkedRole.	The error message returned because you do not have permissions to create SLRs. You must contact the owner of the Alibaba Cloud account or permission administrator to acquire the AliyunDCDNFullAccess permission or attach a custom permission policy to the SLR. The information about the custom permission policy: The service name is realtimelogdelivery.dcdn.aliyuncs.com, the name of the SLR is AliyunServiceRoleForDCDNRealTimeLogDelivery, and the required permission is ram:CreateServiceLinkedRole.
400	CreateSlsProjectError	Failed to create a Log Service project. Make sure that you have activated Log Service and the service is in the available state.	The error message returned because the creation of a Log Service project failed. Make sure that Log Service is activated and available.

For a list of error codes, visit the API Error Center.

13.6. DeleteDcdnRealTimeLogProject

Deletes real-time logs of a project.

> **Note** The maximum number of times that each user can call this operation per second is 100.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteDcdnRealTimeLogProject	The operation that you want to perform. Set the value to **DeleteDcdnRealTimeLogProject**.
ProjectName	String	Yes	example	The name of a real-time log delivery project.
BusinessType	String	No	cdn_log_access_l1	The type of the collected logs. Default value: cdn_log_access_l1. Valid values: • **cdn_log_access_l1**: access logs of L1 Dynamic Route for CDN (DCDN) nodes • **cdn_log_origin**: back-to-origin logs • **cdn_log_er**: EdgeRoutine logs

Response parameters

Parameter	Type	Example	Description
RequestId	String	9732E117-8A37-49FD-A36F-ABBB87556CA7	The ID of the request.

Examples

Sample requests

```
https://dcdn.aliyuncs.com?Action=DeleteDcdnRealTimeLogProject&Project=example
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DeleteDcdnRealTimeLogProjectResponse>
  <RequestId>9732E117-8A37-49FD-A36F-ABBB87556CA7</RequestId>
</DeleteDcdnRealTimeLogProjectResponse>
```

`JSON` format

```
{
    "RequestId": "9732E117-8A37-49FD-A36F-ABBB87556CA7"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	Unauthorized	RealtimeLogDelivery service is not authorized.	The error message returned because you are not authorized to use real-time log delivery.

For a list of error codes, visit the API Error Center.

13.7. DescribeDcdnRealTimeDeliveryField

Queries the fields in real-time log entries.

> **Note** The maximum number of times that each user can call this operation per second is 100.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnRealTimeDeliveryField	The operation that you want to perform. Set the value to **DescribeDcdnRealTimeDeliveryField**.
BusinessType	String	No	cdn_log_access_l1	The type of the collected logs. Default value: cdn_log_access_l1. Valid values: • **cdn_log_access_l1**: access logs of L1 Dynamic Route for CDN (DCDN) nodes • **cdn_log_origin**: back-to-origin logs • **cdn_log_er**: EdgeRoutine logs

Response parameters

Parameter	Type	Example	Description
Content	Array of Fields		The returned results.
Fields			
Description	String	The timestamp of the request	The description of the field.
FieldName	String	unixtime	The name of the field. For more information about the fields in real-time log entries, see Fields in a real-time log.
RequestId	String	3EACD23C-F49F-4BF7-B9AD-C2CD3BA888C4	The ID of the request.

Examples

Sample requests

```
https://dcdn.aliyuncs.com?Action=DescribeDcdnRealTimeDeliveryField&BusinessType=cdn_log_access_l1
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnRealTimeDeliveryFieldResponse>
  <RequestId>3EACD23C-F49F-4BF7-B9AD-C2CD3BA888C4</RequestId>
  <Content>
        <Fields>
              <FieldName>unixtime</FieldName>
              <Description>The timestamp of the request</Description>
        </Fields>
        <Fields>
              <FieldName>client_ip</FieldName>
              <Description>The real IP address of the client that sent the request</Description>
        </Fields>
  </Content>
</DescribeDcdnRealTimeDeliveryFieldResponse>
```

`JSON` format

```
{
    "RequestId": "3EACD23C-F49F-4BF7-B9AD-C2CD3BA888C4",
    "Content": {
        "Fields": [
            {
                "FieldName": "unixtime",
                "Description": "The timestamp of the request"
            },
            {
                "FieldName": "client_ip",
                "Description": "The real IP address of the client that sent the request"
            }
        ]
    }
}
```

Error codes

HttpCode	Error code	Error message	Description
400	Unauthorized	RealtimeLogDelivery service is not authorized.	The error message returned because you are not authorized to use real-time log delivery.

For a list of error codes, visit the API Error Center.

13.8. DescribeDcdnSLSRealtimeLogDelivery

Queries a real-time log delivery project.

> **Note** The maximum number of times that each user can call this operation per second is 100.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnSLSRealtimeLogDelivery	The operation that you want to perform. Set the value to **DescribeDcdnSLSRealtimeLogDelivery**.

Parameter	Type	Required	Example	Description
ProjectName	String	Yes	example	The name of a real-time log delivery project.
BusinessType	String	No	cdn_log_access_l1	The type of the collected logs. Default value: cdn_log_access_l1. Valid values: • **cdn_log_access_l1**: access logs of L1 Dynamic Route for CDN (DCDN) nodes • **cdn_log_origin**: back-to-origin logs • **cdn_log_er**: EdgeRoutine logs

Response parameters

Parameter	Type	Example	Description
Content	Struct		The configuration results of the domain name.
BusinessType	String	cdn_log_access_l1	The type of the collected logs. Default value: cdn_log_access_l1. Valid values: • **cdn_log_access_l1**: access logs of L1 DCDN nodes • **cdn_log_origin**: back-to-origin logs • **cdn_log_er**: EdgeRoutine logs
DataCenter	String	cn	The region from which logs were collected.
DomainName	String	example.com,example.org	The domain names from which logs were collected. You can specify one or more domain names. Separate multiple domain names with commas (,).
FieldName	String	field1,field2	The name of the field. For more information about fields in real-time log entries, see Fields in a real-time log.
ProjectName	String	example	The name of the real-time log delivery project.
SLSLogStore	String	example-cn	The name of the Logstore.
SLSProject	String	example-cn	The name of the Log Service project.
SLSRegion	String	cn-hangzhou	The region to which logs were delivered.
SamplingRate	String	1.0	The sampling rate.
Type	String	SLS_POST	The type of log delivery. Only **SLS_POST** is supported.
RequestId	String	F32C57AA-7BF8-49AE-A2CC-9F42390F5A19	The ID of the request.

Examples

Sample requests

```
https://dcdn.aliyuncs.com?Action=DescribeDcdnSLSRealtimeLogDelivery
&ProjectName=example
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnSLSRealtimeLogDeliveryResponse>
  <RequestId>F32C57AA-7BF8-49AE-A2CC-9F42390F5A19</RequestId>
  <Content>
        <ProjectName>example</ProjectName>
        <DomainName>example.com,example.org</DomainName>
        <FieldName>field1,field2</FieldName>
        <SamplingRate>1.0</SamplingRate>
        <DataCenter>cn</DataCenter>
        <SLSRegion>cn-hangzhou</SLSRegion>
        <SLSProject>example-cn</SLSProject>
        <SLSLogStore>example-cn</SLSLogStore>
        <BusinessType>cdn_log_access_l1</BusinessType>
        <Type>SLS_POST</Type>
  </Content>
</DescribeDcdnSLSRealtimeLogDeliveryResponse>
```

`JSON` format

```
{
    "RequestId": "F32C57AA-7BF8-49AE-A2CC-9F42390F5A19",
    "Content": {
        "ProjectName": "example",
        "DomainName": "example.com,example.org",
        "FieldName": "field1,field2",
        "SamplingRate": "1.0",
        "DataCenter": "cn",
        "SLSRegion": "cn-hangzhou",
        "SLSProject": "example-cn",
        "SLSLogStore": "example-cn",
        "BusinessType": "cdn_log_access_l1",
        "Type": "SLS_POST"
    }
}
```

Error codes

For a list of error codes, visit the API Error Center.

13.9. DescribeDcdnUserRealTimeDeliveryField

Queries the fields that you have selected.

> **Note** The maximum number of times that each user can call this operation per second is 100.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnUserRealTimeDeliveryField	The operation that you want to perform. Set the value to **DescribeDcdnUserRealTimeDeliveryField**.
BusinessType	String	No	cdn_log_access_l1	The type of the collected logs. Default value: cdn_log_access_l1. Valid values: • **cdn_log_access_l1**: access logs of L1 Dynamic Route for CDN (DCDN) nodes • **cdn_log_origin**: back-to-origin logs • **cdn_log_er**: EdgeRoutine logs

Response parameters

Parameter	Type	Example	Description
Content	Array of Fields		The configuration results of the domain name.
Fields			
Description	String	The timestamp of the request	The description of the field.
FieldName	String	unixtime	The name of the field.
Selected	Boolean	true	Indicates whether a field was selected. • **true**: The field was selected. • **false**: The field was not selected.
RequestId	String	3EACD23C-F49F-4BF7-B9AD-C2CD3BA888C4	The ID of the request.

Examples

Sample requests

```
https://dcdn.aliyuncs.com?Action=DescribeDcdnUserRealTimeDeliveryField&BusinessType=cdn_log_access_l1
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnUserRealTimeDeliveryFieldResponse>
  <RequestId>3EACD23C-F49F-4BF7-B9AD-C2CD3BA888C4</RequestId>
  <Content>
        <Fields>
              <FieldName>unixtime</FieldName>
              <Description>The timestamp of the request</Description>
              <Selected>true</Selected>
        </Fields>
        <Fields>
              <FieldName>client_ip</FieldName>
              <Description>The real IP address of the client that sent the request</Description>
              <Selected>false</Selected>
        </Fields>
  </Content>
</DescribeDcdnUserRealTimeDeliveryFieldResponse>
```

`JSON` format

```
{
    "RequestId": "3EACD23C-F49F-4BF7-B9AD-C2CD3BA888C4",
    "Content": {
        "Fields": [
            {
                "FieldName": "unixtime",
                "Description": "The timestamp of the request",
                "Selected": true
            },
            {
                "FieldName": "client_ip",
                "Description": "The real IP address of the client that sent the request",
                "Selected": false
            }
        ]
    }
}
```

Error codes

HttpCode	Error code	Error message	Description
400	Unauthorized	RealtimeLogDelivery service is not authorized.	The error message returned because you are not authorized to use real-time log delivery.

For a list of error codes, visit the API Error Center.

13.10. ListDcdnRealTimeDeliveryProject

Queries information about a real-time log delivery project.

> **Note** The maximum number of times that each user can call this operation per second is 100.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description

Parameter	Type	Required	Example	Description
Action	String	Yes	ListDcdnRealTimeDeliveryProject	The operation that you want to perform. Set the value to **ListDcdnRealTimeDeliveryProject**.
BusinessType	String	No	cdn_log_access_l1	The type of the collected logs. Default value: cdn_log_access_l1. Valid values: • **cdn_log_access_l1**: access logs of L1 Dynamic Route for CDN (DCDN) nodes • **cdn_log_origin**: back-to-origin logs • **cdn_log_er**: EdgeRoutine logs
DomainName	String	No	example.com	The domain name. You can specify only one domain name in each request.
PageNumber	Integer	No	1	The number of the page to return. Valid values: **1** to **100000**. Default value: 1.
PageSize	Integer	No	20	The number of entries to return on each page. Default value: 20.

Response parameters

Parameter	Type	Example	Description
Content	Array of Projects		The configuration results of the domain name.
Projects			
BusinessType	String	cdn_log_access_l1	The type of the collected logs. Default value: cdn_log_access_l1. Valid values: • **cdn_log_access_l1**: access logs of L1 DCDN nodes • **cdn_log_origin**: back-to-origin logs • **cdn_log_er**: EdgeRoutine logs
DataCenter	String	cn	The region from which logs were collected.
DomainName	String	example.com,example.org	The domain names. The returned domain names are separated with commas (,).
FieldName	String	field1,field2	The name of the field. For more information about the fields in real-time log entries, see Fields in a real-time log.
ProjectName	String	example	The name of the real-time log delivery project.
SLSLogStore	String	example-cn	The name of the Logstore.
SLSProject	String	example-cn	The name of the Log Service project.

Parameter	Type	Example	Description
SLSRegion	String	cn-hangzhou	The region to which logs were delivered.
SamplingRate	Float	1	The sampling rate.
Type	String	SLS_POST	The type of log delivery. Only **SLS_POST** is supported.
RequestId	String	3EACD23C-F49F-4BF7-B9AD-C2CD3BA888C4	The ID of the request.
TotalCount	Integer	2	The total number of returned entries.

Examples

Sample requests

```
https://dcdn.aliyuncs.com?Action=ListDcdnRealTimeDeliveryProject&BusinessType=cdn_log_access_l1&DomainName=example.com
&<Common request parameters>
```

Sample success responses

`XML` format

```
<ListDcdnRealTimeDeliveryProjectResponse>
  <RequestId>3EACD23C-F49F-4BF7-B9AD-C2CD3BA888C4</RequestId>
  <Content>
        <Projects>
              <ProjectName>example</ProjectName>
              <Type>SLS_POST</Type>
              <DomainName>example.com,example.org</DomainName>
              <FieldName>field1,field2</FieldName>
              <SamplingRate>1</SamplingRate>
              <DataCenter>cn</DataCenter>
              <SLSRegion>cn-hangzhou</SLSRegion>
              <SLSProject>example-cn</SLSProject>
              <SLSLogStore>example-cn</SLSLogStore>
              <BusinessType>cdn_log_access_l1</BusinessType>
        </Projects>
        <Projects>
              <ProjectName>aliyundoc</ProjectName>
              <Type>SLS_POST</Type>
              <DomainName>example.org</DomainName>
              <FieldName>field1,field2</FieldName>
              <SamplingRate>1</SamplingRate>
              <DataCenter>cn</DataCenter>
              <SLSRegion>cn-hangzhou</SLSRegion>
              <SLSProject>aliyundoc-cn</SLSProject>
              <SLSLogStore>aliyundoc-cn</SLSLogStore>
              <BusinessType>cdn_log_access_l1</BusinessType>
        </Projects>
  </Content>
  <TotalCount>2</TotalCount>
</ListDcdnRealTimeDeliveryProjectResponse>
```

`JSON` format

```
{
    "RequestId": "3EACD23C-F49F-4BF7-B9AD-C2CD3BA888C4",
    "Content": {
        "Projects": [
            {
                "ProjectName": "example",
                "Type": "SLS_POST",
                "DomainName": "example.com,example.org",
                "FieldName": "field1,field2",
                "SamplingRate": 1,
                "DataCenter": "cn",
                "SLSRegion": "cn-hangzhou",
                "SLSProject": "example-cn",
                "SLSLogStore": "example-cn",
                "BusinessType": "cdn_log_access_l1"
            },
            {
                "ProjectName": "aliyundoc",
                "Type": "SLS_POST",
                "DomainName": "example.org",
                "FieldName": "field1,field2",
                "SamplingRate": 1,
                "DataCenter": "cn",
                "SLSRegion": "cn-hangzhou",
                "SLSProject": "aliyundoc-cn",
                "SLSLogStore": "aliyundoc-cn",
                "BusinessType": "cdn_log_access_l1"
            }
        ]
    },
    "TotalCount": 2
}
```

Error codes

For a list of error codes, visit the API Error Center.

13.11. UpdateDcdnSLSRealtimeLogDelivery

Updates a real-time log delivery project.

> **Note** The maximum number of times that each user can call this operation per second is 100.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateDcdnSLSRealtimeLogDelivery	The operation that you want to perform. Set the value to **UpdateDcdnSLSRealtimeLogDelivery**.

Parameter	Type	Required	Example	Description
DataCenter	String	Yes	cn	The region from which logs are collected. • **cn**: Chinese mainland • **sg**: Singapore • **in**: India • **eu**: Europe • **us**: United States
DomainName	String	Yes	example.com	The domain names. You can specify one or more domain names. Separate multiple domain names with commas (,).
ProjectName	String	Yes	example	The name of the real-time log delivery project.
SLSLogStore	String	Yes	example-cn	The name of the Logstore.
SLSProject	String	Yes	example-cn	The name of the Log Service project.
SLSRegion	String	Yes	cn-hangzhou	The region to which logs are delivered.
SamplingRate	String	No	1.0	The sampling rate.

Response parameters

Parameter	Type	Example	Description
Content	Array of Domains		The configuration results of the domain name.
Domains			
Desc	String	created	The description of the returned result.
DomainName	String	example.com	The domain name for which the real-time log delivery project was updated.
Region	String	cn	The region from which logs were collected.
Status	String	success	Indicates whether the real-time log delivery project was successfully updated. Valid values: • **success** • **fail**
RequestId	String	F32C57AA-7BF8-49AE-A2CC-9F42390F5A19	The ID of the request.

Examples

Sample requests

```
https://dcdn.aliyuncs.com?Action=UpdateDcdnSLSRealtimeLogDelivery
&DataCenter=cn
&DomainName=example.com
&ProjectName=example
&SLSLogStore=example-cn
&SLSProject=example-cn
&SLSRegion=cn-hangzhou
&<Common request parameters>
```

Sample success responses

`XML` format

```
<UpdateDcdnSLSRealtimeLogDeliveryResponse>
  <RequestId>F32C57AA-7BF8-49AE-A2CC-9F42390F5A19</RequestId>
  <Content>
        <Domains>
              <DomainName>example.com</DomainName>
              <Region>cn</Region>
              <Status>success</Status>
              <Desc>created</Desc>
        </Domains>
        <Domains>
              <DomainName>example.org</DomainName>
              <Region>sg</Region>
              <Status>success</Status>
              <Desc>created</Desc>
        </Domains>
  </Content>
</UpdateDcdnSLSRealtimeLogDeliveryResponse>
```

`JSON` format

```
{
    "RequestId": "F32C57AA-7BF8-49AE-A2CC-9F42390F5A19",
    "Content": {
        "Domains": [
            {
                "DomainName": "example.com",
                "Region": "cn",
                "Status": "success",
                "Desc": "created"
            },
            {
                "DomainName": "example.org",
                "Region": "sg",
                "Status": "success",
                "Desc": "created"
            }
        ]
    }
}
```

Error codes

HttpCode	Error code	Error message	Description
400	Unauthorized	RealtimeLogDelivery service is not authorized.	The error message returned because you are not authorized to use real-time log delivery.

For a list of error codes, visit the API Error Center.

13.12. UpdateDcdnUserRealTimeDeliveryField

Updates the fields in real-time log entries.

> **Note** The maximum number of times that each user can call this operation per second is 100.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateDcdnUserRealTimeDeliveryField	The operation that you want to perform. Set the value to **UpdateDcdnUserRealTimeDeliveryField**.
Fields	String	Yes	body_bytes_sent,client_ip,content_type	The list of fields. Separate multiple fields with commas (,). Valid values: • **body_bytes_sent**: The size of the request body. Unit: bytes. • **client_ip**: The real IP address of the client that sent the request, which can be a public IP address or a private IP address. • **content_type**: The type of the requested resource.
BusinessType	String	No	cdn_log_access_l1	The type of the collected logs. Default value: cdn_log_access_l1. Valid values: • **cdn_log_access_l1**: access logs of L1 Dynamic Route for CDN (DCDN) nodes • **cdn_log_origin**: back-to-origin logs • **cdn_log_er**: EdgeRoutine logs

Response parameters

Parameter	Type	Example	Description
RequestId	String	3EACD23C-F49F-4BF7-B9AD-C2CD3BA888C4	The ID of the request.

Examples

Sample requests

```
https://dcdn.aliyuncs.com?Action=UpdateDcdnUserRealTimeDeliveryField&BusinessType=cdn_log_access_l1&Fields=body_bytes_sent,client_ip,content_type
&<Common request parameters>
```

Sample success responses

`XML` format

```
<UpdateDcdnUserRealTimeDeliveryFieldResponse>
  <RequestId>3EACD23C-F49F-4BF7-B9AD-C2CD3BA888C4</RequestId>
</UpdateDcdnUserRealTimeDeliveryFieldResponse>
```

`JSON` format

```
{
    "RequestId": "3EACD23C-F49F-4BF7-B9AD-C2CD3BA888C4"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	Unauthorized	RealtimeLogDelivery service is not authorized.	The error message returned because you are not authorized to use real-time log delivery.

For a list of error codes, visit the API Error Center.

14.Operations reports

14.1. CreateDcdnSubTask

Creates a custom operations report.

> **Note**
> - This operation allows you to create a custom operations report for a specific domain name. You can view the statistics about the domain name in the report.
> - You can call this operation up to three times per second.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateDcdnSubTask	The operation that you want to perform. Set the value to **CreateDcdnSubTask**.
ReportIds	String	Yes	2,4,6	The IDs of the metrics that you want to include in the report. Separate multiple IDs with commas (,). Valid values: • **2**: Popular URLs by Request • **4**: Popular URLs by Traffic • **6**: Popular Referer by Request • **8**: Popular Referer by Traffic • **10**: Popular Back-to-origin URLs by Request • **12**: Popular Back-to-origin URLs by Traffic • **14**: Top Client IPs by Request • **16**: Top Client IPs by Traffic • **18**: Popular Domain Names by Traffic • **20**: PV/UV • **22**: Visit Distribution by Region • **24**: Distribution of ISPs
DomainName	String	No	example.com,example.org	The domain names for which you want to create a custom operations report. Separate multiple domain names with commas (,). You can specify up to 500 domain names. If you want to specify more than 500 domain names, submit a ticket. **Note** If you do not specify a domain name, the custom operations reports are created for all domain names that belong to your Alibaba Cloud account.

Response parameters

Parameter	Type	Example	Description
RequestId	String	04F0F334-1335-436C-A1D7-6C044FE73368	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=CreateDcdnSubTask
&ReportIds=2,4,6
&<Common request parameters>
```

Sample success responses

`XML` format

```
<CreateDcdnSubTaskResponse>
  <RequestId>04F0F334-1335-436C-A1D7-6C044FE73368</RequestId>
</CreateDcdnSubTaskResponse>
```

`JSON` format

```
{
    "RequestId": "04F0F334-1335-436C-A1D7-6C044FE73368"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	InvalidParameter	The specified parameter is invalid.	The error message returned because the specified parameter is invalid.
400	TimeParseFailed	Failed to parse the time parameter.	The error message returned because the time parameter failed to be parsed.
400	SubscriptionAlreadyExists	The subscription already exists.	The error message returned because the operations report already exists.
400	SubscriptionNotFound	The subscription is not found.	The error message returned because the operations report does not exist.
400	NameAlreadyExists	The name already exists.	The error message returned because the name of the operations report already exists.
400	DeliverExceedLimit	The maximum number of subscribed tasks is exceeded.	The error message returned because the maximum number of subscribed tasks has been reached.

For a list of error codes, visit the API Error Center.

14.2. CreateDcdnDeliverTask

Creates a tracking task that generates operations reports. The tracking task sends operations reports to a specified email address based on a specified schedule.

> **Note** The maximum number of times that each user can call this operation per second is 3.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameter

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateDcdnDeliverTask	The operation that you want to perform. Set the value to **CreateDcdnDeliverTask**.
Deliver	Json	Yes	{"email": {"subject":"the email subject","to": ["username@example.com","username@example.com"]}}	The method by which operations reports are sent. Operations reports are sent to you only through emails. The report content must be escaped in JSON.
Name	String	Yes	Domain name report	The name of the tracking task.
Reports	String	Yes	[{\"reportId\":2,\"conditions\": [{\"field\":\"prov\",\"op\":\"in\",\"value\": [\"Heilongjiang\",\"Beijing\"]}]}]	The operations reports that the task tracks. The data must be escaped in JSON.
Schedule	Json	Yes	{"schedName":"the name of the operations report","description":"the description","crontab":"000**?","frequency":"d","status":"enable", "effectiveFrom":"2020-09-17T00:00:00Z","effectiveEnd":"2020-11-17T00:00:00Z"}	The parameters that specify the time interval at which the tracking task sends operations reports. The settings must be escaped in JSON.
Status	String	No	enable	The status of the tracking task. Valid values: • **enable**: enabled • **disable**: disabled **Note** The Status parameter is reserved. You do not need to set it.
DomainName	String	No	example.com,example.org	The domain names from which the tracking task collects data. Separate domain names with commas (,). If you do not specify a domain name, the task collects data from all domain names that belong to your Alibaba Cloud account.

Fields of the Reports parameter

Field	Type	Required	Description

Field	Type	Required	Description
reportId	String	Yes	The ID of the operations report.
conditions	ConDatas[]	No	The filter conditions for the report.

Fields of the conditions parameter

Field	Type	Required	Description
field	String	No	The filter fields.
op	String	No	The filter action. Only **in** is supported.
value	String[]	No	An array of field values.

Fields of the Deliver parameter

Field	Type	Required	Description
subject	String	Yes	The email subject.
to	String[]	Yes	The email addresses to which operations reports are sent.

Fields of the Schedule parameter

Field	Type	Required	Description
schedName	String	Yes	The name of the tracking task.
description	String	Yes	The description of the tracking task.
crontab	String	Yes	The time interval at which the tracking task runs.
frequency	String	Yes	The time interval at which the tracking task sends reports. Valid values: h: every hour d: every day w: every week

Field	Type	Required	Description
status	String	Yes	The status of the tracking task. Valid values: enable: enabled disable: disabled
effectiveFrom	String	Yes	The start time of the tracking task.
effectiveEnd	String	Yes	The end time of the tracking task.

Response parameters

Parameter	Type	Example	Description
RequestId	String	04F0F334-1335-436C-A1D7-6C044FE73368	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=CreateDcdnDeliverTask
&Deliver={"email":{"subject":"the email subject","to":["username@example.com","username@example.org"]}}
&Name=Domain name report
&Reports=[{\"reportId\":2,\"conditions\":[{\"field\":\"prov\",\"op\":\"in\",\"value\":[\"Heilongjiang\",\"Beijing
\"]}]}]
&Schedule={"schedName":"the name of the tracking task","description":"the description","crontab":"000**?","freque
ncy":"d","status":"enable","effectiveFrom":"2020-09-17T00:00:00Z","effectiveEnd":"2020-11-17T00:00:00Z"}
&<Common request parameters>
```

Sample success responses

`XML` format

```
<CreateDcdnDeliverTaskResponse>
  <RequestId>04F0F334-1335-436C-A1D7-6C044FE73368</RequestId>
</CreateDcdnDeliverTaskResponse>
```

`JSON` format

```
{
    "RequestId": "04F0F334-1335-436C-A1D7-6C044FE73368"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	NameAlreadyExist	The subscription name already exists.	The error message returned because the tracking task already exists.

For a list of error codes, visit the API Error Center.

14.3. DescribeDcdnSubList

Queries a tracking task.

> **Note**
> - By default, this operation queries all tracking tasks. However, only one tracking task can be displayed. Therefore, only one tracking task is returned.
> - The maximum number of times that each user can call this operation per second is 3.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameter

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnSubList	The operation that you want to perform. Set the value to **DescribeDcdnSubList**.
Status	String	No	enable	The status of the tracking task. Valid values: • **enable**: enabled • **disable**: disabled **Note** The Status parameter is reserved. You do not need to set it.

Response parameters

Parameter	Type	Example	Description
Content	String	"data": [{"subId": 336,"reportId": [6,8],"createTime": "2021-07-05T06:18:46Z","domains": ["example.com"],"effectiveFrom": "2021-07-05T06:18:46Z","effectiveEnd": "2021-10-05T06:18:46Z","status": "enable"}]	The information about the tracking task.
RequestId	String	3250A51D-C11D-46BA-B6B3-95348EEDE652	The ID of the request.

Fields of the Content parameter

Field	Type	Description
subId	Long	The ID of the request.
reportId	Long[]	The ID of the metric in the report.
createTime	String	The time when the report was created.

Field	Type	Description
domains	String[]	The domain names from which the tracking task collects data.
effectiveFrom	String	The start time of the tracking task.
effectiveEnd	String	The end time of the tracking task.
status	String	The status of the tracking task. Valid values: enable: enabled disable: disabled

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnSubList
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnSubListResponse>
  <RequestId>3250A51D-C11D-46BA-B6B3-95348EEDE652</RequestId>
  <Content>
        <data>
              <subId>336</subId>
              <reportId>6</reportId>
              <reportId>8</reportId>
              <createTime>2021-07-05T06:18:46Z</createTime>
              <domains>example.com</domains>
              <effectiveFrom>2021-07-05T06:18:46Z</effectiveFrom>
              <effectiveEnd>2021-10-05T06:18:46Z</effectiveEnd>
              <status>enable</status>
        </data>
  </Content>
</DescribeDcdnSubListResponse>
```

`JSON` format

```
{
  "RequestId": "3250A51D-C11D-46BA-B6B3-95348EEDE652",
  "Content": {
    "data": [
      {
        "subId": 336,
        "reportId": [
          6,
          8
        ],
        "createTime": "2021-07-05T06:18:46Z",
        "domains": [
          "example.com"
        ],
        "effectiveFrom": "2021-07-05T06:18:46Z",
        "effectiveEnd": "2021-10-05T06:18:46Z",
        "status": "enable"
      }
    ]
  }
}
```


Error codes

For a list of error codes, visit the API Error Center.

14.4. DescribeDcdnReport

Queries the content of an operations report.

> **Note** The maximum number of times that each user can call this operation per second is 3.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnReport	The operation that you want to perform. Set the value to **DescribeDcdnReport**.
EndTime	String	Yes	2021-07-02T01:00:00Z	The end of the time range to query. The time in the ISO 8601 standard in the YYYY-MM-DDTHH:mm:ssZ format. The time must be in UTC+0.
ReportId	Long	Yes	2	The ID of the operations report that you want to query. You can specify only one ID in each call. You can call the DescribeDcdnSubList operation to query report IDs.
StartTime	String	Yes	2021-07-02T00:00:00Z	The start of the time range to query. The time in the ISO 8601 standard in the YYYY-MM-DDTHH:mm:ssZ format. The time must be in UTC+0.

Parameter	Type	Required	Example	Description
DomainName	String	No	www.example.com,www.example.org	The domain names that you want to query. Separate domain names with commas (,).
Area	String	No	shanghai	The region. You can call the DescribeDcdnRegionAndIsp operation to query the most recent region list. • If you do not specify a region, all regions are queried. • If you specify a region, data about the specified region is returned. You can specify one or more regions. Separate multiple regions with commas (,).
IsOverseas	String	No	0	Specifies whether the region is outside mainland China. Valid values: • **1**: outside mainland China • **0**: inside mainland China
HttpCode	String	No	2xx	The HTTP status code. Valid values: • **2xx**: HTTP 2xx status codes • **3xx**: HTTP 3xx status codes • **4xx**: HTTP 4xx status codes • **5xx**: HTTP 5xx status codes If you do not specify an HTTP status code, all HTTP status codes are queried.

Parameters required by each report metric

Report metric	Required parameter	Description
Page view (PV) and unique visitor (UV)	Action, ReportId, DomainName, StartTime, and EndTime	Other parameters are not supported.
Top client IP addresses (ranked by the amount of network traffic)	Action, ReportId, DomainName, Area, StartTime, and EndTime	Other parameters are not supported.
Top client IP addresses (ranked by the number of requests)	Action, ReportId, DomainName, Area, StartTime, and EndTime	Other parameters are not supported.
Distribution of requests by region	Action, ReportId, DomainName, IsOverseas, StartTime, and EndTime	Other parameters are not supported.
Distribution of Internet service providers	Action, ReportId, DomainName, IsOverseas, StartTime, and EndTime	Other parameters are not supported.
Frequently used referer headers (ranked by the amount of network traffic)	Action, ReportId, DomainName, StartTime, and EndTime	Other parameters are not supported.
Frequently used referer headers (ranked by the number of requests)	Action, ReportId, DomainName, StartTime, and EndTime	Other parameters are not supported.

Report metric	Required parameter	Description
Frequently requested URLs (ranked by the amount of network traffic)	Action, ReportId, DomainName, HttpCode, StartTime, and EndTime	Other parameters are not supported.
Frequently requested URLs (ranked by the number of requests)	Action, ReportId, DomainName, HttpCode, StartTime, and EndTime	Other parameters are not supported.
Frequently requested back-to-origin URLs (ranked by the amount of network traffic)	Action, ReportId, DomainName, HttpCode, StartTime, and EndTime	Other parameters are not supported.
Frequently requested back-to-origin URLs (ranked by the number of requests)	Action, ReportId, DomainName, HttpCode, StartTime, and EndTime	Other parameters are not supported.
Domain names ranked by the amount of network traffic	Action, ReportId, StartTime, and EndTime	Other parameters are not supported.

Response parameters

Parameter	Type	Example	Description
Content	String	"data":[{"deliver":{ "report": {"title":"TopUrlByAcc","format":"table","sape":"","header": ["url","traf","traf_rate","acc","acc_rate"]}}, "data": [{"acc":440,"acc_rate":"0.200%","traf":22,"url":"http://example.com","traf_rate":"0.100%"}, {"acc":440,"acc_rate":"0.200%","traf":22,"url":"http://example.org","traf_rate":"0.100%"}]}]	The content of the operations report.
RequestId	String	04F0F334-1335-436C-A1D7-6C044FE73368	The ID of the request.

Fields of the Content parameter

Parameter	Type	Description
deliver	report	The type of the report.
data	String[]	The content in the operations report, for example, [{"Header Field 1":"value1","Header Field 2":"value2"}, {"Header Field 1":"value3","Header Field 2":"value4"}].

Fields of the report parameter

Parameter	Type	Description
title	String	The title of the operations report.
format	String	The type of the operations report. Valid values: chart: The returned report is a chart. table: The returned report is a table.
shape	String	The type of the chart. When format is a table, ignore this field. Valid values: line: The returned report is a line chart. pie: The returned report is a pie chart. bar: The returned report is a bar chart.
header	String[]	The fields that are used as the table headers.
legend	String	The fields that are used as the legends.
xAxis	String	The x-axis of the chart. This value is empty if the x-axis does not exist.
yAxis	String	The y-axis of the chart. This value is empty if the y-axis does not exist.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnReport
&ReportId=2
&DomainName=www.example.com,www.example.org
&StartTime=2021-07-02T00:00:00Z
&EndTime=2021-07-02T01:00:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnReportResponse>
  <RequestId>04F0F334-1335-436C-A1D7-6C044FE73368</RequestId>
  <Content>
        <data>
              <deliver>
                    <report>
                          <title>TopUrlByAcc</title>
                          <format>table</format>
                          <shape></shape>
                          <header>url</header>
                          <header>traf</header>
                          <header>traf_rate</header>
                          <header>acc</header>
                          <header>acc_rate</header>
                    </report>
              </deliver>
              <data>
                    <acc>440</acc>
                    <acc_rate>0.200%</acc_rate>
                    <traf>22</traf>
                    <url>http://example.com</url>
                    <traf_rate>0.100%</traf_rate>
              </data>
              <data>
                    <acc>440</acc>
                    <acc_rate>0.200%</acc_rate>
                    <traf>22</traf>
                    <url>http://example.org</url>
                    <traf_rate>0.100%</traf_rate>
              </data>
        </data>
  </Content>
</DescribeDcdnReportResponse>
```


`JSON` format

```
{
    "RequestId":"04F0F334-1335-436C-A1D7-6C044FE73368",
    "Content":{
        "data":[
            {
                "deliver":{
                    "report":{
                        "title":"TopUrlByAcc",
                        "format":"table",
                        "shape":"",
                        "header":[
                            "url",
                            "traf",
                            "traf_rate",
                            "acc",
                            "acc_rate"
                        ]
                    }
                },
                "data":[
                        {
                            "acc":440,
                            "acc_rate":"0.200%",
                            "traf":22,
                            "url":"http://example.com",
                            "traf_rate":"0.100%"
                        },
                        {
                            "acc":440,
                            "acc_rate":"0.200%",
                            "traf":22,
                            "url":"http://example.prg",
                            "traf_rate":"0.100%"
                        }
                ]
            }
        ]
    }
}
```


Error codes

For a list of error codes, visit the API Error Center.

14.5. DescribeDcdnReportList

Queries operations reports.

> **Note**
> - The maximum number of times that each user can call this operation per second is 3.
> - This operation queries the metadata of all operations reports. The statistics in the reports are not returned.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameter

Parameter	Type	Required	Example	Description

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnReportList	The operation that you want to perform. Set the value to **DescribeDcdnReportList**.
ReportId	Long	No	2	The ID of the operations report that you want to query. If you do not specify an ID, all operations reports are queried.
Status	String	No	enable	The status of the operations report. Valid values: • **enable**: enabled • **disable**: disabled **Note** The Status parameter is reserved. You do not need to set it.
Permission	String	No	public	The permissions on the operations report. Valid values: • **public**: public report • **private**: private report **Note** The type of report returned is based on the specified permissions. If you do not specify permissions, both public and private reports are queried.

Response parameters

Parameter	Type	Example	Description
Content	String	"data": [{"reportId":2,"deliver": {"report": {"title":"DomainPvUv","format":"chart","shape":"line","xAxis":"ds","yAxis":"cnt","legend":"cnt_type","header": ["ds","cnt_type","cnt"]}}}	The information about the report that is queried.
RequestId	String	04F0F334-1335-436C-A1D7-6C044FE73368	The ID of the request.

Fields of the Content parameter

Field	Type	Description
reportId	Long	The ID of the request.
deliver	report	The type of the report.

Fields of the report parameter

Field	Type	Description
title	String	The title of the operations report.
format	String	The type of the operations report. Valid values: chart: chart table: table
shape	String	The type of the chart. When format is set to table, ignore this field. Valid values: line: line chart pie: pie chart bar: bar chart
header	String[]	The fields that are used as the table headers.
legend	String	The fields that are used as the legends.
xAxis	String	The x-axis of the chart. If you do not specify a value, the chart does not have an x-axis.
yAxis	String	The y-axis of the chart. If you do not specify a value, the chart does not have a y-axis.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnReportList
&ReportId=2
&Permission=public
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnReportListResponse>
  <RequestId>04F0F334-1335-436C-A1D7-6C044FE73368</RequestId>
  <Content>
        <data>
              <reportId>2</reportId>
              <deliver>
                    <report>
                          <title>DomainPvUv</title>
                          <format>chart</format>
                          <shape>line</shape>
                          <xAxis>ds</xAxis>
                          <yAxis>cnt</yAxis>
                          <legend>cnt_type</legend>
                          <header>ds</header>
                          <header>cnt_type</header>
                          <header>cnt</header>
                    </report>
              </deliver>
        </data>
        <data>
              <reportId>4</reportId>
              <deliver>
                    <report>
                          <format>table</format>
                          <shape>line</shape>
                          <header>url</header>
                          <header>traf</header>
                          <header>traf_rate</header>
                          <header>acc</header>
                          <header>acc_rate</header>
                          <title>TopUrlByAcc</title>
                    </report>
              </deliver>
        </data>
  </Content>
</DescribeDcdnReportListResponse>
```

`JSON` format

```
{
    "RequestId": "04F0F334-1335-436C-A1D7-6C044FE73368",
    "Content": {
        "data": [
            {
                  "reportId":2,
                  "deliver":{
                      "report":{
                          "title":"DomainPvUv",
                          "format":"chart",
                          "shape":"line",
                          "xAxis":"ds",
                          "yAxis":"cnt",
                          "legend":"cnt_type",
                          "header":[
                              "ds",
                              "cnt_type",
                              "cnt"
                          ]
                      }
                  }
            },
            {
                 "reportId":4,
                 "deliver":{
                     "report":{
                         "format":"table",
                         "shape":"line",
                         "header":[
                             "url",
                             "traf",
                             "traf_rate",
                             "acc",
                             "acc_rate"
                         ],
                         "title":"TopUrlByAcc"
                     }
                 }
            }
        ]
    }
}
```


Error codes

For a list of error codes, visit the API Error Center.

14.6. DescribeDcdnDeliverList

Queries all tracking tasks of operations reports.

> **Note** The maximum number of times that each user can call this operation per second is 3.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameter

Parameter	Type	Required	Example	Description

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDeliverList	The operation that you want to perform. Set the value to **DescribeDcdnDeliverList**.
DeliverId	Long	No	92	The ID of the tracking task that you want to query. If you do not specify an ID, all tracking tasks are queried.
Status	String	No	enable	The status of the tracing task. Valid values: • **enable**: enabled • **disable**: disabled **Note** The Status parameter is reserved. You do not need to set it.

Response parameters

Parameter	Type	Example	Description
Content	String	"data": [{"deliverId": 1,"status": "enable","createTime": "2021-06-14T11:19:26Z","crontab": "0 0 0 * * ?","frequency": "d","name": "Domain name report","dmList": ["www.example.com"],"reports": [{"reportId": 1,"conditions": [{"op": "in","field": "prov","value": ["Heilongjiang","Beijing"]}]}, {"reportId": 2}],"deliver": {"email": {"subject": "Subject","to": ["username@example.com","username@example.org"],"copy": ["username@example.com","username@example.org"]}}}]}	The information about the tracking task.
RequestId	String	04F0F334-1335-436C-A1D7-6C044FE73368	The ID of the request.

Fields of the Content parameter

Field	Type	Description
deliverId	Long	The ID of the tracking task.

Field	Type	Description
status	String	The status of the tracking task. Valid values: enable: enabled disable: disabled
createTime	String	The time when the tracking task was created.
crontab	String	The time interval at which the tracking task runs.
frequency	String	The time interval at which the tracking task sends reports. Valid values: h: every hour d: every day M: every month
name	String	The name of the tracking task.
dmList	String[]	The domain names from which the tracking task collects data.
reports	String[]	The information about the reports released by the tracking task. The following parameters are included: reportId: the ID of the report. conditions: the filter conditions, including the filter action, fields, and values. If no filter conditions are specified, this parameter does not carry a value. op: the filter action. Only **in** is supported. field: the filter fields. value: the filter values.
deliver	String	The delivery module, including the subject and recipient of the email. email: indicates that reports are sent to specified email addresses. subject: the subject of the email. to: the recipient of the email. copy: the contacts to whom the email is copied.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnDeliverList
&DeliverId=92
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnDeliverListResponse>
  <RequestId>04F0F334-1335-436C-A1D7-6C044FE73368</RequestId>
  <Content>
        <data>
              <deliverId>1</deliverId>
              <status>enable</status>
              <createTime>2021-06-14T11:19:26Z</createTime>
              <crontab>0 0 0 * * ?</crontab>
              <frequency>d</frequency>
              <name>Domain name report</name>
              <dmList>www.example.com</dmList>
              <reports>
                    <reportId>1</reportId>
                    <conditions>
                          <op>in</op>
                          <field>prov</field>
                          <value>Heilongjiang</value>
                          <value>Beijing</value>
                    </conditions>
              </reports>
              <reports>
                    <reportId>2</reportId>
              </reports>
              <deliver>
                    <email>
                          <subject>Subject</subject>
                          <to>username@example.com</to>
                          <to>username@example.org</to>
                          <copy>username@example.com</copy>
                          <copy>username@example.org</copy>
                    </email>
              </deliver>
        </data>
  </Content>
</DescribeDcdnDeliverListResponse>
```

`JSON` format

```
{
    "RequestId": "04F0F334-1335-436C-A1D7-6C044FE73368",
    "Content": {
        "data": [
            {
                "deliverId": 1,
                "status": "enable",
                "createTime": "2021-06-14T11:19:26Z",
                "crontab": "0 0 0 * * ?",
                "frequency": "d",
                "name": "Domain name report",
                "dmList": [
                    "www.example.com"
                ],
                "reports": [
                    {
                        "reportId": 1,
                        "conditions": [
                            {
                                "op": "in",
                                "field": "prov",
                                "value": [
                                    "Heilongjiang",
                                    "Beijing"
                                ]
                            }
                        ]
                    },
                    {
                        "reportId": 2
                    }
                ],
                "deliver": {
                    "email": {
                        "subject": "Subject",
                        "to": [
                            "username@example.com",
                            "username@example.org"
                        ],
                        "copy":[
                            "username@example.com",
                            "username@example.org"
                        ]
                    }
                }
            }
        ]
    }
}
```


Error codes

For a list of error codes, visit the API Error Center.

14.7. UpdateDcdnSubTask

Updates one or more operations reports.

> **Note** The maximum number of times that each user can call this operation per second is 3.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameter

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateDcdnSubTask	The operation that you want to perform. Set the value to **UpdateDcdnSubTask**.
Status	String	No	enable	The status of the operations report. Valid values: • **enable**: enabled • **disable**: disabled **Note** The Status parameter is reserved. You do not need to set it.
ReportIds	String	No	2,4,6	The IDs of operations reports that you want to update. Separate IDs with commas (,).
DomainName	String	No	www.example.com	The domain names that you want to include in the operations report. If you do not specify a domain name, all domain names that belong to your Alibaba Cloud account are included.
StartTime	String	No	2021-04-17T00:00:00Z	The start time of the operations report. Specify the time in the ISO 8601 standard in the YYYY-MM-DDTHH:mm:ssZ format. The time must be in UTC+0.
EndTime	String	No	2021-06-17T00:00:00Z	The end time of the operations report. Specify the time in the ISO 8601 standard in the YYYY-MM-DDTHH:mm:ssZ format. The time must be in UTC+0.

Response parameters

Parameter	Type	Example	Description
RequestId	String	04F0F334-1335-436C-A1D7-6C044FE73368	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=UpdateDcdnSubTask
&ReportIds=2,4,6
&DomainName=www.example.com
&StartTime=2021-04-17T00:00:00Z
&EndTime=2021-06-17T00:00:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
<UpdateDcdnSubTaskResponse>
  <RequestId>04F0F334-1335-436C-A1D7-6C044FE73368</RequestId>
</UpdateDcdnSubTaskResponse>
```

`JSON` format

```
{
    "RequestId": "04F0F334-1335-436C-A1D7-6C044FE73368"
}
```

Error codes

For a list of error codes, visit the API Error Center.

14.8. UpdateDcdnDeliverTask

Updates a tracking task by task ID.

> **Note** The maximum number of times that each user can call this operation per second is 3.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameter

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateDcdnDeliverTask	The operation that you want to perform. Set the value to **UpdateDcdnDeliverTask**.
DeliverId	Long	Yes	92	The ID of the tracking task that you want to update.
Name	String	No	Domain name report	The name of the operations report.
Status	String	No	enable	The status of the tracking task. Valid values: • **enable**: enabled • **disable**: disabled **Note** The Status parameter is reserved. You do not need to set it.
Reports	String	No	[{\"reportId\":2,\"conditions\":[{\"field\":\"prov\",\"op\":\"in\",\"value\":[\"Heilongjiang\",\"Beijing\"]}]}]	The operations reports that the task tracks. The data must be escaped in JSON.
DomainName	String	No	www.example.com	The domain names from which the tracking task collects data. Separate domain names with commas (,). If you do not specify a domain name, the task collects data from all domain names that belong to your Alibaba Cloud account.

Parameter	Type	Required	Example	Description
Deliver	Json	No	{"email": {"subject":"the email subject","to": ["username@example.com","username@example.com"]}}	The method by which operations reports are sent. Operations reports are sent to you only through emails. The report content must be escaped in JSON.
Schedule	Json	No	{"schedName":"the name of the tracking task","description":"the description","crontab":"000**?","frequency":"d","status":"enable","effectiveFrom":"2020-09-17T00:00:00Z","effectiveEnd":"2020-11-17T00:00:00Z"}	The parameters that specify the time interval at which the tracking task sends operations reports. The settings must be escaped in JSON.

Fields of the Reports parameter

Field	Type	Required	Description
reportId	String	Yes	The ID of the operations report.
conditions	ConDatas[]	No	The filter conditions for the report.

Fields of the conditions parameter

Field	Type	Required	Description
field	String	No	The filter fields.
op	String	No	The filter action. Only **in** is supported.
value	String[]	No	An array of field values.

Fields of the Deliver parameter

Field	Type	Required	Description
subject	String	Yes	The email subject.
to	String[]	Yes	The email addresses to which operations reports are sent.

Fields of the Schedule parameter

Field	Type	Required	Description
schedName	String	Yes	The name of the tracking task.
description	String	Yes	The description of the tracking task.
crontab	String	Yes	The time interval at which the tracking task runs.
frequency	String	Yes	The time interval at which the tracking task sends reports. Valid values: **h**: every hour **d**: every day **w**: every week
status	String	Yes	The status of the tracking task. Valid values: **enable**: enabled **disable**: disabled
effectiveFrom	String	Yes	The start time of the tracking task.
effectiveEnd	String	Yes	The end time of the tracking task.

Response parameters

Parameter	Type	Example	Description
RequestId	String	04F0F334-1335-436C-A1D7-6C044FE73368	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=UpdateDcdnDeliverTask
&DeliverId=92
&Name=Domain name report
&Reports=[{\"reportId\":2,\"conditions\":[{\"field\":\"prov\",\"op\":\"in\",\"value\":[\"Heilongjiang\",\"Beijing
\"]}]}]
&DomainName=www.example.com
&Deliver={"email":{"subject":"the email subject","to":["username@example.com","username@example.com"]}}
&Schedule={"schedName":"The name of the tracking task","description":"the description","crontab":"000**?","freque
ncy":"d","status":"enable","effectiveFrom":"2020-09-17T00:00:00Z","effectiveEnd":"2020-11-17T00:00:00Z"}
&<Common request parameters>
```

Sample success responses

`XML` format

```
<UpdateDcdnDeliverTaskResponse>
  <RequestId>04F0F334-1335-436C-A1D7-6C044FE73368</RequestId>
</UpdateDcdnDeliverTaskResponse>
```

`JSON` format

```
{
    "RequestId": "04F0F334-1335-436C-A1D7-6C044FE73368"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	NameAlreadyExist	The subscription name already exists.	The error message returned because the tracking task already exists.

For a list of error codes, visit the API Error Center.

14.9. DeleteDcdnSubTask

Deletes an operations report.

> **Note** The maximum number of times that each user can call this operation per second is 3.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameter

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteDcdnSubTask	The operation that you want to perform. Set the value to **DeleteDcdnSubTask**.

Response parameters

Parameter	Type	Example	Description
RequestId	String	04F0F334-1335-436C-A1D7-6C044FE73368	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DeleteDcdnSubTask
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DeleteDcdnSubTaskResponse>
  <RequestId>04F0F334-1335-436C-A1D7-6C044FE73368</RequestId>
</DeleteDcdnSubTaskResponse>
```

`JSON` format

```
{
    "RequestId": "04F0F334-1335-436C-A1D7-6C044FE73368"
}
```

Error codes

For a list of error codes, visit the API Error Center.

14.10. DeleteDcdnDeliverTask

Deletes tracking tasks by task ID.

> **Note** The maximum number of times that each user can call this operation per second is 3.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameter

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteDcdnDeliverTask	The operation that you want to perform. Set the value to **DeleteDcdnDeliverTask**.
DeliverId	Long	Yes	92	The IDs of the tracking tasks that you want to delete. You can call the DescribeCdnDeliverList operation to query task IDs.

Response parameters

Parameter	Type	Example	Description
RequestId	String	04F0F334-1335-436C-A1D7-6C044FE73368	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DeleteDcdnDeliverTask
&DeliverId=92
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DeleteDcdnDeliverTaskResponse>
  <RequestId>04F0F334-1335-436C-A1D7-6C044FE73368</RequestId>
</DeleteDcdnDeliverTaskResponse>
```

`JSON` format

```
{
    "RequestId": "04F0F334-1335-436C-A1D7-6C044FE73368"
}
```

Error codes

For a list of error codes, visit the API Error Center.

15.EdgeRoutine (ER)

15.1. CreateRoutine

Creates a routine.

> **Note**
> - The parameters must comply with the rules of EnvConf. The description of a routine cannot exceed 50 characters in length.
> - This operation creates a routine that contains only production and staging environments.
> - The call frequency of the API is no more than 100 queries per second.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameter

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateRoutine	The operation that you want to perform. Set the value to **CreateRoutine**.
Name	String	Yes	test	The name of the routine. The name must be unique among the routines that belong to the same Alibaba Cloud account.
Description	String	No	the description of this routine	The description of the routine.
EnvConf	Json	No	{"Staging": {"SpecName":"50ms"}, "Production": {"SpecName":"50ms"}}	The configurations of the environment (Env).

Response parameters

Parameter	Type	Example	Description
Content	Map	"Status": "OK"	Returns ""Status": "OK"".
RequestId	String	04F0F334-1335-436C-A1D7-6C044FE73368	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=CreateRoutine&Name="test"&Description="the description of this routine"&EnvConf=
{"Staging":{"SpecName":"50ms"},"Production":{"SpecName":"50ms"}}&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>04F0F334-1335-436C-A1D7-6C044FE73368</RequestId>
<Content>
    <Status>OK</Status>
</Content>
```

`JSON` format

```
{
    "RequestId": "04F0F334-1335-436C-A1D7-6C044FE73368",
    "Content": {
        "Status": "OK"
    }
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EdgeRoutine.GeneralError	A server error occurred: %s	The error message returned because an error occurred on the server. If the problem persists, submit a ticket.

For a list of error codes, visit the API Error Center.

15.2. DeleteRoutine

Deletes a routine.

> **Note** The call frequency of the API is no more than 100 queries per second.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteRoutine	The operation that you want to perform. Set the value to **DeleteRoutine**.
Name	String	Yes	test	The name of the routine. The name must be unique among the routines that belong to the same Alibaba Cloud account.

Response parameters

Parameter	Type	Example	Description
Content	Map	"Status": "OK"	Returns ""Status": "OK"".
RequestId	String	04F0F334-1335-436C-A1D7-6C044FE73368	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=DeleteRoutine&Name="test"&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>04F0F334-1335-436C-A1D7-6C044FE73368</RequestId>
<Content>
    <Status>OK</Status>
</Content>
```

`JSON` format

```
{
    "RequestId": "04F0F334-1335-436C-A1D7-6C044FE73368",
    "Content": {
        "Status": "OK"
    }
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EdgeRoutine.GeneralError	A server error occurred: %s	The error message returned because an error occurred on the server. If the problem persists, submit a ticket.

For a list of error codes, visit the API Error Center.

15.3. DeleteRoutineCodeRevision

Deletes a specified code version from a routine.

> **Note** The call frequency of the API is no more than 100 queries per second.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteRoutineCodeRevision	The operation that you want to perform. Set the value to **DeleteRoutineCodeRevision**.
Name	String	Yes	test	The name of the routine. The name must be unique among the routines that belong to the same Alibaba Cloud account.
SelectCodeRevision	String	Yes	123456	The number of the version that you want to delete.

Response parameters

Parameter	Type	Example	Description
Content	Map	"Status": "OK"	Returns “"Status": "OK"".
RequestId	String	04F0F334-1335-436C-A1D7-6C044FE73368	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=DeleteRoutineCodeRevision&Name=test"&SelectCodeRevision="123456"&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>04F0F334-1335-436C-A1D7-6C044FE73368</RequestId>
<Content>
    <Status>OK</Status>
</Content>
```

`JSON` format

```
{
    "RequestId": "04F0F334-1335-436C-A1D7-6C044FE73368",
    "Content": {
        "Status": "OK"
    }
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EdgeRoutine.GeneralError	A server error occurred: %s	The error message returned because an error occurred on the server. If the problem persists, submit a ticket.

For a list of error codes, visit the API Error Center.

15.4. DeleteRoutineConfEnvs

Deletes canary release environments from an edge routine.

> **Note**
> - This operation deletes only custom preset canary release environments. You cannot delete production or staging environments.
> - The call frequency of the API is no more than 100 queries per second.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameter

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteRoutineConfEnvs	The operation that you want to perform. Set the value to **DeleteRoutineConfEnvs**.
Envs	Json	Yes	["Preset_Canary_ZheJiang"]	The custom canary release environments that you want to delete.
Name	String	Yes	test	The name of the routine. The name must be unique among the routines that belong to the same Alibaba Cloud account.

Response parameters

Parameter	Type	Example	Description
Content	Map	"Status": "OK"	Returns ""Status": "OK"".
RequestId	String	04F0F334-1335-436C-A1D7-6C044FE73368	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=DeleteRoutineConfEnvs&Name="test"&Envs= ["Preset_Canary_ZheJiang"]&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>04F0F334-1335-436C-A1D7-6C044FE73368</RequestId>
<Content>
    <Status>OK</Status>
</Content>
```

`JSON` format

```
{
    "RequestId": "04F0F334-1335-436C-A1D7-6C044FE73368",
    "Content": {
        "Status": "OK"
    }
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EdgeRoutine.GeneralError	A server error occurred: %s	The error message returned because an error occurred on the server. If the problem persists, submit a ticket.

For a list of error codes, visit the API Error Center.

15.5. DescribeRoutine

Queries the metadata of a specified routine. The metadata includes the routine configuration, configuration version, and code version.

> **Note** The call frequency of the API is no more than 100 queries per second.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeRoutine	The operation that you want to perform. Set the value to **DescribeRoutine**.
Name	String	Yes	test	The name of the routine. The name must be unique among the routines that belong to the same Alibaba Cloud account.

Response parameters

Parameter	Type	Example	Description
Content	Map	CodeRevs, EnvConf, Description, Envs, and CreationTime	The metadata of the routine.
RequestId	String	4DBA68F5-04A9-406B-B1E4-F2CB635E103F	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=DescribeRoutine&Name="test"&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>4DBA68F5-04A9-406B-B1E4-F2CB635E103F</RequestId>
<Content>
    <CodeRevs>
        <CodeDescription>IkhlbGxvIFdvcmxkIg==</CodeDescription>
        <CreationTime>2021-05-31T13:20:14Z</CreationTime>
        <CodeRevision>1622467214654495147</CodeRevision>
    </CodeRevs>
    <CodeRevs>
        <CodeDescription>IkhlbGxvIFdvcmxkIg==</CodeDescription>
        <CreationTime>2021-05-31T13:20:36Z</CreationTime>
        <CodeRevision>1622467236337778954</CodeRevision>
    </CodeRevs>
    <CodeRevs>
        <CodeDescription>IkhlbGxvIFdvcmxkIEZyb20gU3RhZ2luZyBFbnYi</CodeDescription>
        <CreationTime/>
        <CodeRevision>unstable</CodeRevision>
    </CodeRevs>
    <CodeRevs>
        <CodeDescription>SGVsbG8gV29ybGQgRnJvbSBDb21taXQ=</CodeDescription>
        <CreationTime>2021-05-31T13:25:44Z</CreationTime>
        <CodeRevision>1622467544804919489</CodeRevision>
    </CodeRevs>
    <EnvConf>
        <Preset_Canary_Zhejiang>
            <SpecName>100ms</SpecName>
            <CodeRev>1622467236337778954</CodeRev>
            <AllowedHosts>test-e.alicdn.com</AllowedHosts>
            <AllowedHosts>test-f.alicdn.com</AllowedHosts>
        </Preset_Canary_Zhejiang>
        <Staging>
            <SpecName>50ms</SpecName>
            <CodeRev/>
            <AllowedHosts>test-a.alicdn.com</AllowedHosts>
            <AllowedHosts>test-b.alicdn.com</AllowedHosts>
        </Staging>
        <Preset_Canary_Beijing>
            <SpecName>5ms</SpecName>
            <CodeRev>1622467236337778954</CodeRev>
            <AllowedHosts>test-g.alicdn.com</AllowedHosts>
            <AllowedHosts>test-h.alicdn.com</AllowedHosts>
        </Preset_Canary_Beijing>
        <Production>
            <SpecName>50ms</SpecName>
            <CodeRev>1622467236337778954</CodeRev>
            <AllowedHosts>test-c.alicdn.com</AllowedHosts>
            <AllowedHosts>test-d.alicdn.com</AllowedHosts>
        </Production>
    </EnvConf>
    <Description>InRoZSBkZXNjcmlwdGlvbiBvZiB0aGlzIHJvdXRpbmUi</Description>
    <Envs>Production</Envs>
    <Envs>Staging</Envs>
    <Envs>Preset_Canary_Zhejiang</Envs>
    <Envs>Preset_Canary_Beijing</Envs>
    <CreationTime>2021-05-31T13:14:23.132925407Z</CreationTime>
</Content>
```


`JSON` format


```
{
    "RequestId": "4DBA68F5-04A9-406B-B1E4-F2CB635E103F",
    "Content": {
        "CodeRevs": [
            {
                "CodeDescription": "IkhlbGxvIFdvcmxkIg==",
                "CreationTime": "2021-05-31T13:20:14Z",
```

```
                "CodeRevision": "1622467214654495147"
            },
            {
                "CodeDescription": "IkhlbGxvIFdvcmxkIg==",
                "CreationTime": "2021-05-31T13:20:36Z",
                "CodeRevision": "1622467236337778954"
            },
            {
                "CodeDescription": "IkhlbGxvIFdvcmxkIEZyb20gU3RhZ2luZyBFbnYi",
                "CreationTime": "",
                "CodeRevision": "unstable"
            },
            {
                "CodeDescription": "SGVsbG8gV29ybGQgRnJvbSBDb21taXQ=",
                "CreationTime": "2021-05-31T13:25:44Z",
                "CodeRevision": "1622467544804919489"
            }
        ],
        "EnvConf": {
            "Preset_Canary_Zhejiang": {
                "SpecName": "100ms",
                "CodeRev": "1622467236337778954",
                "AllowedHosts": [
                    "test-e.alicdn.com",
                    "test-f.alicdn.com"
                ]
            },
            "Staging": {
                "SpecName": "50ms",
                "CodeRev": "",
                "AllowedHosts": [
                    "test-a.alicdn.com",
                    "test-b.alicdn.com"
                ]
            },
            "Preset_Canary_Beijing": {
                "SpecName": "5ms",
                "CodeRev": "1622467236337778954",
                "AllowedHosts": [
                    "test-g.alicdn.com",
                    "test-h.alicdn.com"
                ]
            },
            "Production": {
                "SpecName": "50ms",
                "CodeRev": "1622467236337778954",
                "AllowedHosts": [
                    "test-c.alicdn.com",
                    "test-d.alicdn.com"
                ]
            }
        },
        "Description": "InRoZSBkZXNjcmlwdGlvbiBvZiB0aGlzIHJvdXRpbmUi",
        "Envs": [
            "Production",
            "Staging",
            "Preset_Canary_Zhejiang",
            "Preset_Canary_Beijing"
        ],
        "CreationTime": "2021-05-31T13:14:23.132925407Z"
    }
}
```


Error codes

HttpCode	Error code	Error message	Description
400	EdgeRoutine.GeneralError	A server error occurred: %s	The error message returned because an error %s occurred on the server. If the problem persists, submit a ticket.

For a list of error codes, visit the API Error Center.

15.6. DescribeRoutineCanaryEnvs

Queries the canary release environments that are supported by an edge routine.

> **Note** The call frequency of the API is no more than 100 queries per second.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameter

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeRoutineCanaryEnvs	The operation that you want to perform. Set the value to **DescribeRoutineCanaryEnvs**.

Response parameters

Parameter	Type	Example	Description
Content	Map	Preset_Canary_***	The canary release environments that are supported by the edge routine.
RequestId	String	CDCD94C0-F7FE-412F-B8F8-7E3C610C78E5	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=DescribeRoutineCanaryEnvs&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>CDCD94C0-F7FE-412F-B8F8-7E3C610C78E5</RequestId>
<Content>
    <CanaryEnvs>Preset_Canary_Guangdong</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Sichuan</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Overseas</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Beijing</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Neimenggu</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Hunan</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Hainan</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Guizhou</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Liaoning</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Zhejiang</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Hubei</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Macau</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Shanghai</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Anhui</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Taiwan</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Shandong</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Ningxia</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Chongqing</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Jilin</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Jiangsu</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Yunnan</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Hong-Kong</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Hebei</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Shanxi</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Jiangxi</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Heilongjiang</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Xizang</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Guangxi</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Shaanxi</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Gansu</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Qinghai</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Xinjiang</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Tianjin</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Fujian</CanaryEnvs>
    <CanaryEnvs>Preset_Canary_Henan</CanaryEnvs>
</Content>
```

`JSON` format

```
{
    "RequestId": "CDCD94C0-F7FE-412F-B8F8-7E3C610C78E5",
    "Content": {
        "CanaryEnvs": [
            "Preset_Canary_Guangdong",
            "Preset_Canary_Sichuan",
            "Preset_Canary_Overseas",
            "Preset_Canary_Beijing",
            "Preset_Canary_Neimenggu",
            "Preset_Canary_Hunan",
            "Preset_Canary_Hainan",
            "Preset_Canary_Guizhou",
            "Preset_Canary_Liaoning",
            "Preset_Canary_Zhejiang",
            "Preset_Canary_Hubei",
            "Preset_Canary_Macau",
            "Preset_Canary_Shanghai",
            "Preset_Canary_Anhui",
            "Preset_Canary_Taiwan",
            "Preset_Canary_Shandong",
            "Preset_Canary_Ningxia",
            "Preset_Canary_Chongqing",
            "Preset_Canary_Jilin",
            "Preset_Canary_Jiangsu",
            "Preset_Canary_Yunnan",
            "Preset_Canary_Hong-Kong",
            "Preset_Canary_Hebei",
            "Preset_Canary_Shanxi",
            "Preset_Canary_Jiangxi",
            "Preset_Canary_Heilongjiang",
            "Preset_Canary_Xizang",
            "Preset_Canary_Guangxi",
            "Preset_Canary_Shaanxi",
            "Preset_Canary_Gansu",
            "Preset_Canary_Qinghai",
            "Preset_Canary_Xinjiang",
            "Preset_Canary_Tianjin",
            "Preset_Canary_Fujian",
            "Preset_Canary_Henan"
        ]
    }
}
```


Error codes

HttpCode	Error code	Error message	Description
400	EdgeRoutine.GeneralError	A server error occurred: %s	The error message returned because an error %s occurred on the server. If the problem persists, submit a ticket.

For a list of error codes, visit the API Error Center.

15.7. DescribeRoutineCodeRevision

Queries the JavaScript code of a specified version that belongs to a specified routine.

> **Note** The call frequency of the API is no more than 100 queries per second.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeRoutineCodeRevision	The operation that you want to perform. Set the value to **DescribeRoutineCodeRevision**.
Name	String	Yes	test	The name of the routine. The name must be unique among the routines that belong to the same Alibaba Cloud account.
SelectCodeRevision	String	Yes	1611151912787121550	The version of the JavaScript code that you want to query.

Response parameters

Parameter	Type	Example	Description
Content	Map	CreationTime and ErCode	The JavaScript code returned.
RequestId	String	D24F0C48-1B27-4C58-8B84-1A0C001A514E	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=DescribeCodeRevision&Name="test"&SelectCodeRevision= "1611151912787121550"&<Common request parameters>
```

Sample success responses

`XML` format


```
<RequestId>D24F0C48-1B27-4C58-8B84-1A0C001A514E</RequestId>
<Content>
    <CreationTime>2021-05-31T13:20:36Z</CreationTime>
    <ErCode>LyoqCiAqIEFkZCB0aGUgbmVjZXNzYXJ5IGV2ZW50IGxpc3RlbmVyCiAqIEBwYXJhbSB7RXZlbnR9IGZldGNoIGV2ZW50LCB7RnVuY3Rpb259IGFzeW5jIGZlbmN0aW9uCiAqLwphZGRFdmVudExpc3RlbmVyKCdmZXRjaCcsIGV2ZW50ID0+IHsKICBldmVudC5yZXNwb25kV210aChoYW5kbGVSZXF1ZXN0KGV2ZW50LnJlcXVlc3QpKTsKfSkKCi8qKgogKiBNYWtlIEEgcmVzcG9uc2UgdG8gY2xpZW50CiAqIEBwYXJhbSB7UmVxdWVzdH0gcmVxdWVzdCAogKi8KYXN5bmMgZnVuY3Rpb24gaGFuZGxlUmVxdWVzdChyZXF1ZXN0KSB7CiAgcmV0dXJuIG5ldyBSZXNwb25zZSgnSGVsbG8gV29ybGQhJywgeyBzdGF0dXM6IDIwMCB9KTsKfQo=</ErCode>
</Content>
```


`JSON` format


```
{
    "RequestId": "D24F0C48-1B27-4C58-8B84-1A0C001A514E",
    "Content": {
        "CreationTime": "2021-05-31T13:20:36Z",
        "ErCode": "LyoqCiAqIEFkZCB0aGUgbmVjZXNzYXJ5IGV2ZW50IGxpc3RlbmVyCiAqIEBwYXJhbSB7RXZlbnR9IGZldGNoIGV2ZW50LCB7RnVuY3Rpb259IGFzeW5jIGZlbmN0aW9uCiAqLwphZGRFdmVudExpc3RlbmVyKCdmZXRjaCcsIGV2ZW50ID0+IHsKICBldmVudC5yZXNwb25kV210aChoYW5kbGVSZXF1ZXN0KGV2ZW50LnJlcXVlc3QpKTsKfSkKCi8qKgogKiBNYWtlIEEgcmVzcG9uc2UgdG8gY2xpZW50CiAqIEBwYXJhbSB7UmVxdWVzdH0gcmVxdWVzdCAogKi8KYXN5bmMgZnVuY3Rpb24gaGFuZGxlUmVxdWVzdChyZXF1ZXN0KSB7CiAgcmV0dXJuIG5sZSgnSGVsbG8gV29ybGQhJywgeyBzdGF0dXM6IDIwMCB9KTsKfQo="
    }
}
```


Error codes

HttpCode	Error code	Error message	Description
400	EdgeRoutine.GeneralError	A server error occurred: %s	The error message returned because an error %s occurred on the server. If the problem persists, submit a ticket.

For a list of error codes, visit the API Error Center.

15.8. DescribeRoutineSpec

Queries the supported specifications for routines. The private preview supports the following CPU time slice specifications: 5 ms, 50 ms, and 100 ms.

> **Note** The call frequency of the API is no more than 100 queries per second.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeRoutineSpec	The operation that you want to perform. Set the value to **DescribeRoutineSpec**.

Response parameters

Parameter	Type	Example	Description
Content	Map	5 ms, 50 ms, and 100 ms	The specification of the CPU time slice. Valid values: 5 ms, 50 ms, and 100 ms.
RequestId	String	AE4E1B80-D5F3-47DB-824A-DA98A21854C8	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=DescribeRoutineSpec&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>AE4E1B80-D5F3-47DB-824A-DA98A21854C8</RequestId>
<Content>
    <Specs>5ms</Specs>
    <Specs>50ms</Specs>
    <Specs>100ms</Specs>
</Content>
```

`JSON` format

```
{
    "RequestId": "AE4E1B80-D5F3-47DB-824A-DA98A21854C8",
    "Content": {
        "Specs": [
            "5ms",
            "50ms",
            "100ms"
        ]
    }
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EdgeRoutine.GeneralError	A server error occurred: %s	The error message returned because an error %s occurred on the server. If the problem persists, submit a ticket.

For a list of error codes, visit the API Error Center.

15.9. DescribeRoutineUserInfo

Queries the subdomains and routines that belong to your Alibaba Cloud account.

> **Note** The call frequency of the API is no more than 100 queries per second.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeRoutineUserInfo	The operation that you want to perform. Set the value to **DescribeRoutineUserInfo**.

Response parameters

Parameter	Type	Example	Description
Content	Map	Subdomains and routines	The subdomains and routines that belong to your Alibaba Cloud account.
RequestId	String	691DEEE5-4BDB-47F3-930E-F57176427717	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=DescribeRoutineUserInfo&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>691DEEE5-4BDB-47F3-930E-F57176427717</RequestId>
<Content>
    <Routines>
        <RoutineName>test</RoutineName>
        <Description>the description of this routine</Description>
        <CreationTime>2021-05-20 04:00:00 PM</CreationTime>
    </Routines>
    <Routines>
        <RoutineName>test-slc</RoutineName>
        <Description>InRoZSBkZXNjcmlwdGlvbiBvZiB0aGlzIHJvdXRpbmUi</Description>
        <CreationTime>2021-05-31T13:14:23.132925407Z</CreationTime>
    </Routines>
    <Subdomains>subdomain-slc2</Subdomains>
</Content>
```

`JSON` format

```
{
    "RequestId": "691DEEE5-4BDB-47F3-930E-F57176427717",
    "Content": {
        "Routines": [
            {
                "RoutineName": "test",
                "Description": "the description of this routine",
                "CreationTime": "2021-05-20 04:00:00 PM"
            },
            {
                "RoutineName": "test-slc",
                "Description": "InRoZSBkZXNjcmlwdGlvbiBvZiB0aGlzIHJvdXRpbmUi",
                "CreationTime": "2021-05-31T13:14:23.132925407Z"
            }
        ],
        "Subdomains": [
            "subdomain-slc2"
        ]
    }
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EdgeRoutine.GeneralError	A server error occurred: %s	The error message returned because an error %s occurred on the server. If the problem persists, submit a ticket.
403	%sServiceNotFound	The [%s] service is not activated.	The error message returned because the specified service is not activated.

For a list of error codes, visit the API Error Center.

15.10. DescribeUserErStatus

Queries whether EdgeRoutine (ER) is activated or has an overdue payment.

> **Note** The maximum number of times that each user can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeUserErStatus	The operation that you want to perform. Set the value to **DescribeUserErStatus**.

Response parameters

Parameter	Type	Example	Description
Enabled	Boolean	true	Indicates whether ER is activated. • true: activated • false: not activated
InDebt	Boolean	false	Indicates whether ER has an overdue payment. • true: has an overdue payment • false: does not have an overdue payment
InDebtOverdue	Boolean	false	Indicates whether an overdue payment of ER has passed the grace period. • true: has passed the grace period • false: has not passed the grace period
OnService	Boolean	true	Indicates whether ER is available. • true: available • false: unavailable
RequestId	String	4F51E9C3-728F-4E35-952D-0ED87A06A8A1	The ID of the request.

Examples

Sample requests

```
https://dcdn.aliyuncs.com?&Action=DescribeUserErStatus&<Common request parameters>
```

Sample success responses

`XML` format

```
<Enabled>true</Enabled>
<InDebtOverdue>false</InDebtOverdue>
<InDebt>false</InDebt>
<OnService>true</OnService>
<RequestId>4F51E9C3-728F-4E35-952D-0ED87A06A8A1</RequestId>
```

`JSON` format

```
{
    "Enabled": true,
    "InDebtOverdue": false,
    "InDebt": false,
    "OnService": true,
    "RequestId": "4F51E9C3-728F-4E35-952D-0ED87A06A8A1"
}
```

Error codes

For a list of error codes, visit the API Error Center.

15.11. EditRoutineConf

Modifies the configurations of a specified routine.

> **Note**
>
> - This operation modifies only the specified configurations. Other configurations remain unchanged.
> - If you want to delete a setting, delete the parameter value.
> - This operation can add canary release environments. Make sure that the environment names comply with the naming rules. Otherwise, you will fail to add the environments.
> - Dynamic Route for CDN (DCDN) provides 35 canary release environments. Among these environments, 34 are deployed inside China and 1 is deployed outside China. The canary release environments are:
> - Outside China: presetCanaryOverseas and presetCanaryXX.
> - Inside China: Anhui, Beijing, Chongqing, Fujian, Gansu, Guangdong, Guangxi, Guizhou, Hainan, Hebei, Heilongjiang, Henan, Hong Kong, Hubei, Hunan, Jiangsu, Jiangxi, Jilin, Liaoning, Macao, Neimenggu, Ningxia, Qinghai, Shaanxi, Shandong, Shanghai, Shanxi, Sichuan, Taiwan, Tianjin, Xinjiang, Xizang, Yunan, and Zhejiang.
> - The call frequency of the API is no more than 100 queries per second.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	EditRoutineConf	The operation that you want to perform. Set the value to **EditRoutineConf**.
Name	String	Yes	test-slc	The name of the routine. The name must be unique among the routines that belong to the same Alibaba Cloud account.
Description	String	No	the description of this routine	The description of the routine.

Parameter	Type	Required	Example	Description
EnvConf	Json	No	{"Staging":{"SpecName":"50ms","AllowedHosts":["test-a.alicdn.com","test-b.alicdn.com"]},"Production":{"SpecName":"50ms","AllowedHosts":["test-c.alicdn.com","test-d.alicdn.com"]},"Preset_Canary_Zhejiang":{"SpecName":"100ms","AllowedHosts":["test-e.alicdn.com","test-f.alicdn.com"]},"Preset_Canary_Beijing":{"SpecName":"5ms","AllowedHosts":["test-g.alicdn.com","test-h.alicdn.com"]},"Preset_Canary_Not_Exist":{"SpecName":"5ms","CodeRev":"1622446907645949975","AllowedHosts":["error hosts"]}}	The configurations of the specified environment.

Response parameters

Parameter	Type	Example	Description
Content	Map	Description and EnvConfRev	The description of the execution errors and the version number of the latest environment configurations.
RequestId	String	BAECB354-6D42-42C1-87DA-C9992EF1E7C8	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=EditRoutineConf&Name="test-slc"&Description="the description of this routine"&EnvConf={"Staging":{"SpecName":"50ms","AllowedHosts":["test-a.alicdn.com","test-b.alicdn.com"]},"Production":{"SpecName":"50ms","AllowedHosts":["test-c.alicdn.com","test-d.alicdn.com"]},"Preset_Canary_Zhejiang":{"SpecName":"100ms","AllowedHosts":["test-e.alicdn.com","test-f.alicdn.com"]},"Preset_Canary_Beijing":{"SpecName":"5ms","AllowedHosts":["test-g.alicdn.com","test-h.alicdn.com"]},"Preset_Canary_Not_Exist":{"SpecName":"5ms","CodeRev":"1622446907645949975","AllowedHosts":["error hosts"]}}&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>BAECB354-6D42-42C1-87DA-C9992EF1E7C8</RequestId>
<Content>
    <Description>Validate (Env: Preset_Canary_Not_Exist, Error: not valid canary name ) </Description>
    <EnvConfRev>
        <Preset_Canary_Zhejiang>1622033526212272495</Preset_Canary_Zhejiang>
        <Staging>1622033526008611202</Staging>
        <Preset_Canary_Beijing>1622033526223670241</Preset_Canary_Beijing>
        <Production>1622033526162527140</Production>
    </EnvConfRev>
</Content>
```

`JSON` format

```
{
    "RequestId": "BAECB354-6D42-42C1-87DA-C9992EF1E7C8",
    "Content": {
        "Description": "Validate (Env: Preset_Canary_Not_Exist, Error: not valid canary name ) ",
        "EnvConfRev": {
            "Preset_Canary_Zhejiang": "1622033526212272495",
            "Staging": "1622033526008611202",
            "Preset_Canary_Beijing": "1622033526223670241",
            "Production": "1622033526162527140"
        }
    }
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EdgeRoutine.GeneralError	A server error occurred: %s	The error message returned because an error %s occurred on the server. If the problem persists, submit a ticket.

For a list of error codes, visit the API Error Center.

15.12. SetRoutineSubdomain

Configures a subdomain.

> **Note**
> - Each subdomain is globally unique. Resource Access Management (RAM) users cannot create duplicate subdomains.
> - The call frequency of the API is no more than 100 queries per second.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameter

Parameter	Type	Required	Example	Description
Action	String	Yes	SetRoutineSubdomain	The operation that you want to perform. Set the value to **SetRoutineSubdomain**.
Subdomains	Json	Yes	["subdomain-test"]	The parameters of the subdomain.

Response parameters

Parameter	Type	Example	Description
Content	Map	"Status": "OK"	Returns ""Status": "OK"".
RequestId	String	04F0F334-1335-436C-A1D7-6C044FE73368	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=SetRoutineSubdomain&Subdomains=["subdomain-test"]&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>04F0F334-1335-436C-A1D7-6C044FE73368</RequestId>
<Content>
    <Status>OK</Status>
</Content>
```

`JSON` format

```
{
    "RequestId": "04F0F334-1335-436C-A1D7-6C044FE73368",
    "Content": {
        "Status": "OK"
    }
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EdgeRoutine.GeneralError	A server error occurred: %s	The error message returned because an error %s occurred on the server. If the problem persists, submit a ticket.

For a list of error codes, visit the API Error Center.

15.13. UploadRoutineCode

Uploads code to EdgeRoutine (ER).

Note

- Each time you submit code, a version of the code is generated. You can manage and publish code by version.
- Each routine can retain at most 10 versions. If the upper limit is reached, you must call the DeleteRoutineCodeRevision operation to manually delete versions that are no longer needed before new versions can be saved.
- The call frequency of the API is no more than 100 queries per second.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameter

Parameter	Type	Required	Example	Description
Action	String	Yes	UploadRoutineCode	The operation that you want to perform. Set the value to **UploadRoutineCode**.
CodeDescription	String	Yes	Hello World	The description of the version.
Name	String	Yes	test	The name of the routine. The name must be unique among the routines that belong to the same Alibaba Cloud account.

Response parameters

Parameter	Type	Example	Description
Content	Map	OssPostConfig and CodeRevision	The parameters required by the code.
RequestId	String	DFA2027F-86C0-4421-9593-581A7993696C	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=UploadRoutineCode&Name="test"&CodeDescription="Hello World"&<Common request para
meters>
```

Sample success responses

`XML` format


```
<RequestId>DFA2027F-86C0-4421-9593-581A7993696C</RequestId>
<Content>
    <OssPostConfig>
        <OSSAccessKeyId>KiTr</OSSAccessKeyId>
        <Signature>+VaGBmeMjdKTD1E=</Signature>
        <callback>eyJjYWxsYmFja1VybCI6Imh0dHA6Ly9lci1ub2RlYXBpLmFsaXl1bmNzLmNvbS91cGxvYWRfY29kZV9vc3NfY2FsbGJhY2s
iLCJjYWxsYmFja0JvZHkiOiJPYmplY3Q9JHtvYmplY3R9JkNvZGVEZXNjcmlwdGlvbj0ke3g6Y29kZWRlc2NyaXB0aW9ufSIsImNhbGxiYWNrQm9k
eVR5cGUiOiJhcHBsaWNhdGlvbi94LXd3dylmb3JtLXVybGVuY29kZWQifQo=</callback>
        <x:codeDescription>IkhlbGxvIFdvcmxkIg==</x:codeDescription>
        <Url>http://cdn-edgejs.oss-cn-hangzhou.aliyuncs.com</Url>
        <key>test.123.69188190343.js</key>
        <policy>eyJleHBpcmF0aW9uIjoiMjAyMS0wNS0yNlQxMzowNzo0OVoiLCJjb25kaXRpb25zIjpbWyJlcSIsIiRrZXkiLCJ0ZXN0LXNsY
y4xMzc3MjkyNjI4ODEwMzI3LjE2MjIwMzQxNjkxODgxOTAzNDMuanMiXSxbImVxIiwiJGNhbGxiYWNrIiwiZXlKallXeHNZbUZqYTFWeWJDSTZJbW
gwZEhBNkx5OWxjaTF1YjJSbF1YQnBMbUZzYVhsMWJtTnpMbU52Yl M5MWNHeHZZV1JmWTI5a1pWOXZjM05mWTJGc2JHSmhZMnNpTENKallXeHNZbUZ
qYTBKdlpIa2lPaUpQWW1wbFkzUTlKSHR2WW1wbFkzUjlKa052WkdWRVpYTmpjbWx3ZEdsdmJqMGtlM2c2WTI5a1pXUmxjMk55YVhCMGFXOXVmU0lz
SW1OaGJHeGlZV05yUW05a2VWUjVjR1VpT2lKaGNIQnNhV05oZEdsdmJpOTRMWGQzZHkxbWIzSnRMWFZ5YkdWdVkyOWtaV1FpZlFvPSJdLFsiZXEiL
CIkeDpjb2RlZGVzY3JpcHRpb24iLCJJa2hsYkd4dklGZHZjbXhrSWc9PSJdLFsiY29udGVudC1sZW5ndGgtcmFuZ2UiLDEsNDE5NDMwNF1dfQ==</
policy>
    </OssPostConfig>
    <CodeRevision>1622034169188190343</CodeRevision>
</Content>
```


`JSON` format

```
{
    "RequestId": "DFA2027F-86C0-4421-9593-581A7993696C",
    "Content": {
        "OssPostConfig": {
            "OSSAccessKeyId": "KiTr",
            "Signature": "+VaGBmeMjdKTD1E=",
            "callback": "eyJjYWxsYmFja1VybCI6Imh0dHA6Ly9lci1ub2RlYXBpLmFsaXl1bmNzLmNvbS91cGxvYWRfY29kZV9vc3NfY2Fs
bGJhY2siLCJjYWxsYmFja0JvZHkiOiJPYmplY3Q9JHtvYmplY3R9JkNvZGVEZXNjcmlwdGlvbj0ke3g6Y29kZWRlc2NyaXB0aW9ufSIsImNhbGxiY
WNrQm9keVR5cGUiOiJhcHBsaWNhdGlvbi94LXd3dy1mb3JtLXVybGVuY29kZWQifQo=",
            "x:codeDescription": "IkhlbGxvIFdvcmxkIg==",
            "Url": "http://cdn-edgejs.oss-cn-hangzhou.aliyuncs.com",
            "key": "test.123.69188190343.js",
            "policy": "eyJleHBpcmF0aW9uIjoiMjAyMS0wNS0yNlQxMzowNzo0OVoiLCJjb25kaXRpb25zIjpbWyJlcSIsIiRrZXkiLCJ0ZX
N0LXNsYy4xMzc3MjkyNjI4ODEwMzI3LjE2MjIwMzQxNjkxODgxOTAzNDMuanMiXSxbImVxIiwiJGNhbGxiYWNrIiwiZXlKallXeHNZbUZqYTFWeWJ
DSTZJbWgwZEhBNkx5OWxjaTF1YjJSbFlYQnBMbUZzYVhsMWJtTnpMbU52Y1M5MWNHeHZZV1JmWTI5a1pWOXZjM05mWTJGc2JHSmhZMnNpTENKallX
eHNZbUZqYTBKdlpIa2lPaUpQWW1wbFkzUTlKSHR2WW1wbFkzUjlKa052WkdWRVpYTmpjbWx3ZEdsdmJqMGtlM2c2WTI5a1pXUmxjMk55YVhCMGFXO
XVmU0lzSW1OaGJHeGlZV05yUW05a2VWUjVjR1VpT2lKaGNIQnNhV05oZEdsdmJpOTRMWGQzZHkxbWIzSnRMWFZ5YkdWdVkyOWtaV1FpZlFvPSJdLF
siZXEiLCIkeDpjb2RlZGVzY3JpcHRpb24iLCJJa2hsYkd4dklGZHZjbXhrSWc9PSJdLFsiY29udGVudC1sZW5ndGgtcmFuZ2UiLDEsNDE5NDMwNF1
dfQ=="
        },
        "CodeRevision": "1622034169188190343"
    }
}
```


Error codes

HttpCode	Error code	Error message	Description
400	EdgeRoutine.GeneralError	A server error occurred: %s	The error message returned because an error %s occurred on the server. If the problem persists, submit a ticket.

For a list of error codes, visit the API Error Center.

15.14. UploadStagingRoutineCode

Uploads code to a routine for testing.

Note

- Each time you upload code to a routine, a version is generated. The number of versions is counted by CodeRev. The uploaded code is used only for testing.
- The code is automatically published to a staging environment.
- Each routine can retain at most 10 versions. If the upper limit is reached, you must call the DeleteRoutineCodeRevision operation to manually delete versions that are no longer needed before new versions can be saved.
- The call frequency of the API is no more than 100 queries per second.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UploadStagingRoutineCode	The operation that you want to perform. Set the value to **UploadStagingRoutineCode**.

Parameter	Type	Required	Example	Description
Name	String	Yes	test	The name of the routine. The name must be unique among the routines that belong to the same Alibaba Cloud account.
CodeDescription	String	No	desc	The description of the version.

Response parameters

Parameter	Type	Example	Description
Content	Map	OssPostConfig and CodeRevision	The parameters required by the code.
RequestId	String	DFA2027F-86C0-4421-9593-581A7993696C	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=UploadStagingRoutineCode&Name="test"&CodeDescription="desc"&<Common request para
meters>
```

Sample success responses

`XML` format


```
<RequestId>DFA2027F-86C0-4421-9593-581A7993696C</RequestId>
<Content>
    <OssPostConfig>
        <OSSAccessKeyId>KiTr</OSSAccessKeyId>
        <Signature>+VaGBmeMjdKTD1E=</Signature>
        <callback>eyJjYWxsYmFja1VybCI6Imh0dHA6Ly9lci1ub2RlYXBpLmFsaXl1bmNzLmNvbS91cGxvYWRfY29kZV9vc3NfY2FsbGJhY2s
iLCJjYWxsYmFja0JvZHkiOiJPYmplY3Q9JHtvYmplY3R9JkNvZGVEZXNjcml wdGlvbj0ke3g6Y29kZWRlc2NyaXB0aW9ufSIsImNhbGxiYWNrQm9k
eVR5cGUiOiJhcHBsaWNhdGlvbi94LXd3dylmb3JtLXVybGVuY29kZWQifQo=</callback>
        <x:codeDescription>IkhlbGxvIFdvcmxkIg==</x:codeDescription>
        <Url>http://cdn-edgejs.oss-cn-hangzhou.aliyuncs.com</Url>
        <key>test.123.69188190343.js</key>
        <policy>eyJleHBpcmF0aW9uIjoiMjAyMS0wNS0yNlQxMzowNzo0OVoiLCJjb25kaXRpb25zIjpbWyJlcSIsIiRrZXkiLCJ0ZXN0LXNsY
y4xMzc3MjkyNjI4ODEwMzI3LjE2MjIwMzQxNjkxODgxOTAzNDMuanMiXSxbImVxIiwiJGNhbGxiYWNrIiwiZXlKallXeHNZbUZqYTFWeWJDSTZJbW
gwZEhBNkx5OWxjaTF1YjJSbFlYQnBMbUZzYVhsMWJtTnpMbU52YlM5MWNHeHZZV1JmWTI5a1pWOXZjM05mWTJGc2JHSmhZMnNpTENKallXeHNZbUZ
qYTBKdlpIa2lPaUpQWW1wbFkzUTlKSHR2WW1wbFkzUjlKa052WkdWRVpYTmpjbWx3ZEdsdmJqMGtlM2c2WTI5a1pXUmxjMk55YVhCMGFXOXVmU0lz
SW1OaGJHeGlZV05yUW05a2VWUjVjR1VpT21KaGNIQnNhV05oZEdsdmJpOTRMWGQzZHkxbWIzSnRMWFZ5YkdWdVkyOWtaV1FpZlFvPSJdLFsiZXEiL
CIkeDpjb2RlZGVzY3JpcHRpb24iLCJJa2hsYkd4dklGZHZjbXhrSWc9PSJdLFsiY29udGVudC1sZW5ndGgtcmFuZ2UiLDEsNDE5NDMwNF1dfQ==</
policy>
    </OssPostConfig>
    <CodeRevision>1622034169188190343</CodeRevision>
</Content>
```


`JSON` format

```
{
    "RequestId": "DFA2027F-86C0-4421-9593-581A7993696C",
    "Content": {
        "OssPostConfig": {
            "OSSAccessKeyId": "KiTr",
            "Signature": "+VaGBmeMjdKTD1E=",
            "callback": "eyJjYWxsYmFja1VybCI6Imh0dHA6Ly9lci1ub2RlYXBpLmFsaXl1bmNzLmNvbS91cGxvYWRfY29kZV9vc3NfY2Fs
bGJhY2siLCJjYWxsYmFja0JvZHkiOiJPYmplY3Q9JHtvYmplY3R9JkNvZGVEZXNjcmlwdGlvbj0ke3g6Y29kZWRlc2NyaXB0aW9ufSIsImNhbGxiY
WNrQm9keVR5cGUiOiJhcHBsaWNhdGlvbi94LXd3dy1mb3JtLXVybGVuY29kZWQifQo=",
            "x:codeDescription": "IkhlbGxvIFdvcmxkIg==",
            "Url": "http://cdn-edgejs.oss-cn-hangzhou.aliyuncs.com",
            "key": "test.123.69188190343.js",
            "policy": "eyJleHBpcmF0aW9uIjoiMjAyMS0wNS0yNlQxMzowNzo0OVoiLCJjb25kaXRpb25zIjpbWyJlcSIsIiRrZXkiLCJ0ZX
N0LXNsYy4xMzc3MjkyNjI4ODEwMzI3LjE2MjIwMzQxNjkxODgxOTAzNDMuanMiXSxbImVxIiwiJGNhbGxiYWNrIiwiZXlKallXeHNZbUZqYTFWeWJ
DSTZJbWgwZEhBNkx5OWxjaTF1YjJSbFlYQnBMbUZzYVhsMWJtTnpMbU52Y1M5MWNHeHZZV1JmWTI5a1pWOXZjM05mWTJGc2JHSmhZMnNpTENKallX
eHNZbUZqYTBKdlpIa2lPaUpQWW1wbFkzUTlKSHR2WW1wbFkzUjlKa052WkdWRVpYTmpjbWx3ZEdsdmJqMGtlM2c2WTI5a1pXUmxjMk55YVhCMGFXO
XVmU0lzSW1OaGJHeGlZV05yUW05a2VWUjVjR1VpT2lKaGNIQnNhV05oZEdsdmJpOTRMWGQzZHkxbWIzSnRMWFZ5YkdWdVkyOWtaV1FpZlFvPSJdLF
siZXEiLCIkeDpjb2RlZGVzY3JpcHRpb24iLCJJa2hsYkd4dklGZHZjbXhrSWc9PSJdLFsiY29udGVudC1sZW5ndGgtcmFuZ2UiLDEsNDE5NDMwNF1
dfQ=="
        },
        "CodeRevision": "1622034169188190343"
    }
}
```


Error codes

HttpCode	Error code	Error message	Description
400	EdgeRoutine.GeneralError	A server error occurred: %s	The error message returned because an error %s occurred on the server. If the problem persists, submit a ticket.

For a list of error codes, visit the API Error Center.

15.15. PublishRoutineCodeRevision

Publishes a specified version of routine code to a specified environment.

> **Note** The call frequency of the API is no more than 100 queries per second.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	PublishRoutineCodeRevision	The operation that you want to perform. Set the value to **PublishRoutineCodeRevision**.

Parameter	Type	Required	Example	Description
Envs	Json	Yes	["Production","Preset_Canary_Zhejiang"]	The environment to which you want to publish the code. **Note** • production: the name of the environment, including the environment name (SpecName) and the domain name whitelist (AllowedHosts). • Preset_Canary_xx: You can add canary release environments based on your business requirements. This parameter is optional.
Name	String	Yes	test	The name of the routine. The name must be unique among the routines that belong to the same Alibaba Cloud account.
SelectCodeRevision	String	Yes	1620876959997924701	The version of the routine code that you want to publish.

Response parameters

Parameter	Type	Example	Description
Content	Map	"CodeRevision": "1620876959997924701"	The version of the routine code that is published to the specified environment.
RequestId	String	A513734D-D17B-411E-864D-XXXX	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com?Action=PublishRoutineCodeRevision&Name="test"&Envs=["Production","Preset_Canary_Zhejiang"]&SelectCodeRevision="1620876959997924701"&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>A513734D-D17B-411E-864D-XXXX</RequestId>
<Content>
    <CodeRevision>1620876959997924701</CodeRevision>
</Content>
```

`JSON` format

```
{
  "RequestId": "A513734D-D17B-411E-864D-XXXX",
  "Content": {
      "CodeRevision": "1620876959997924701"
  }
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EdgeRoutine.GeneralError	A server error occurred: %s	The error message returned because an error %s occurred on the server. If the problem persists, submit a ticket.

For a list of error codes, visit the API Error Center.

15.16. CommitStagingRoutineCode

Generates an official code version from unstable JavaScript code that is in the staging environment. The version can be used in the canary release or production environment.

> **Note** The call frequency of the API is no more than 100 queries per second.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CommitStagingRoutineCode	The operation that you want to perform. Set the value to **CommitStagingRoutineCode**.
CodeDescription	String	Yes	Hello World	The description of the code version.
Name	String	Yes	test	The name of the routine. The name must be unique among the routines that belong to the same Alibaba Cloud account.

Response parameters

Parameter	Type	Example	Description
Content	Map	1620876959997924701	The version number of the code.
RequestId	String	5CC228B4-7A67-4016-9C9F-4A4133494A91	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=CommitStagingRoutineCode&Name="test"&CodeDescription="Hello World"&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>A513734D-D17B-411E-864D-XXXX</RequestId>
<Content>
    <CodeRevision>1620876959997924701</CodeRevision>
</Content>
```

`JSON` format

```
{
  "RequestId": "A513734D-D17B-411E-864D-XXXX",
  "Content": {
    "CodeRevision": "1620876959997924701"
  }
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EdgeRoutine.GeneralError	A server error occurred: %s	The error message returned because an error %s occurred on the server. If the problem persists, submit a ticket.

For a list of error codes, visit the API Error Center.

16.IP Application Accelerator

16.1. DescribeDcdnIpaDomainConfigs

Queries configurations of accelerated domain names.

> **Note** The maximum number of times that users can call this operation per second is 20.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameter

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnIpaDomainConfigs	The operation that you want to perform. Set the value to **DescribeDcdnIpaDomainConfigs**.
DomainName	String	Yes	example.com	The accelerated domain names. Separate multiple domain names with commas (,).
FunctionNames	String	Yes	protogw	The name of the feature list. Only the protogw value is supported, which indicates IP Application Accelerator (IPA).

Response parameters

Parameter	Type	Sample response	Description
DomainConfigs	Array of DomainConfig		The configurations of the accelerated domain name.
DomainConfig			
ConfigId	String	5003576	The ID of the configuration.
FunctionArgs	Array of FunctionArg		The list of features.
FunctionArg			
ArgName	String	file_type	The name of the configuration.
ArgValue	String	txt	The value of the configuration.
FunctionName	String	protogw	The name of the feature.
Status	String	success	The state of the feature. Valid values: • **success**: The configuration has been applied. • **testing**: The configuration is being tested. • **failed**: The configuration failed. • **configuring**: The feature is being configured.

Parameter	Type	Sample response	Description
RequestId	String	F8AA0364-0FDB-4AD5-AC74-D69FAB8924ED	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnIpaDomainConfigs
&DomainName=example.com
&FunctionNames=protogw
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnIpaDomainConfigsResponse>
  <RequestId>F8AA0364-0FDB-4AD5-AC74-D69FAB8924ED</RequestId>
  <DomainConfigs>
        <DomainConfig>
              <FunctionArgs>
                    <FunctionArg>
                          <ArgName>file_type</ArgName>
                          <ArgValue>txt</ArgValue>
                    </FunctionArg>
              </FunctionArgs>
              <ConfigId>5003576</ConfigId>
              <FunctionName>protogw</FunctionName>
        </DomainConfig>
  </DomainConfigs>
</DescribeDcdnIpaDomainConfigsResponse>
```

`JSON` format

```
{
  "RequestId": "F8AA0364-0FDB-4AD5-AC74-D69FAB8924ED",
  "DomainConfigs": {
    "DomainConfig": [
      {
        "FunctionArgs": {
          "FunctionArg": [
            {
              "ArgName": "file_type",
              "ArgValue": "txt"
            }
          ]
        },
        "ConfigId": 5003576,
        "FunctionName": "protogw"
      }
    ]
  }
}
```

Errors codes

HttpCode	Error code	Error message	Description
400	Invalid%s.ValueNotSupported	FunctionName [%s] is not supported.	The error message returned because the specified configuration is not supported.

For a list of error codes, visit the API Error Center.

16.2. StopDcdnIpaDomain

Disables a specified accelerated domain. After the accelerated domain is disabled, the value of the DomainStatus parameter is changed to Offline.

> **Note**
> - The maximum number of times that users can call this operation per second is 20.
> - If you disable an accelerated domain, the configurations of the accelerated domain are still retained. The system automatically forwards all the requests that are destined for this domain to the origin.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	StopDcdnIpaDomain	The operation that you want to perform. Set the value to **StopDcdnIpaDomain**.
DomainName	String	Yes	example.com	The name of the accelerated domain that you want to disable. You can specify only one domain name at a time.

Response parameters

Parameter	Type	Example	Description
RequestId	String	15C66C7B-671A-4297-9187-2C4477247A74	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=StopDcdnIpaDomain
&DomainName=example.com
&<Common request parameters>
```

Sample success responses

`XML` format

```
<StopDcdnIpaDomainResponse>
      <RequestId>15C66C7B-671A-4297-9187-2C4477247A74</RequestId>
</StopDcdnIpaDomainResponse>
```

`JSON` format

```
{
  "RequestId": "15C66C7B-671A-4297-9187-2C4477247A74"
}
```

Error codes

HttpCode	Error code	Error message	Description
403	DcdnIpaServiceNotFound	The DCDN IPA service has not been activated.	The error message returned because the IP Application Accelerator (IPA) service is not activated.

For a list of error codes, visit the API Error Center.

16.3. DescribeUserDcdnIpaStatus

Queries whether the IP Application Accelerator (IPA) service is activated and whether your IPA service has overdue payments.

> **Note** The maximum number of times that users can call this operation per second is 20.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeUserDcdnIpaStatus	The operation that you want to perform. Set the value to **DescribeUserDcdnIpaStatus**.

Response parameters

Parameter	Type	Example	Description
Enabled	Boolean	true	Indicates whether the IPA service is activated.
InDebt	Boolean	false	Indicates whether your IPA service has overdue payments.
InDebtOverdue	Boolean	false	Indicates whether an overdue bill has been paid within a specified period.
OnService	Boolean	true	Indicates whether the IPA service is available. The IPA service is available when no payment is overdue.
RequestId	String	4F51E9C3-728F-4E35-952D-0ED87A06A8A1	The ID of the request.

Examples

Sample requests

```
https://dcdn.aliyuncs.com/?Action=DescribeUserDcdnIpaStatus
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeUserDcdnIpaStatusResponse>
      <Enabled>true</Enabled>
      <InDebtOverdue>false</InDebtOverdue>
      <InDebt>false</InDebt>
      <OnService>true</OnService>
      <RequestId>4F51E9C3-728F-4E35-952D-0ED87A06A8A1</RequestId>
</DescribeUserDcdnIpaStatusResponse>
```

`JSON` format

```
{
    "Enabled": true,
    "InDebtOverdue": false,
    "InDebt": false,
    "OnService": true,
    "RequestId": "4F51E9C3-728F-4E35-952D-0ED87A06A8A1"
}
```

Error codes

For a list of error codes, visit the API Error Center.

16.4. DescribeDcdnIpaService

Queries the status of the IP Application Accelerator (IPA) service. The status information includes the current billing method, service activation time, next effective billing method, and current service status.

> **Note** The maximum number of times that users can call this operation per second is 20.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Position	Type	Required	Example	Description
Action	Query	String	Yes	DescribeDcdnIpaService	The operation that you want to perform. Set the value to **DescribeDcdnIpaService**.

Response parameters

Parameter	Type	Example	Description
ChangingAffectTime	String	2018-03-31T16:00:00Z	The time when the change of the billing method starts to take effect. The time is in GMT. This time appears on the frontend only when it is later than the current time.
ChangingChargeType	String	PayByBandwidth	The new billing method to take effect. Valid values: • **PayByTraffic** • **PayByBandwidth** • **PayByBandwidth95** • **PayByBandwidth_monthavg** • **PayByBandwidth_month4th** • **PayByBandwidth_monthday95avg** • **PayByBandwidth_nighthalf95**

Parameter	Type	Example	Description
InstanceId	String	1883927335936173	The ID of the instance.
InternetChargeType	String	PayByBandwidth	The current billing method. Valid values: • **PayByTraffic** • **PayByBandwidth** • **PayByBandwidth95** • **PayByBandwidth_monthavg** • **PayByBandwidth_month4th** • **PayByBandwidth_monthday95avg** • **PayByBandwidth_nighthalf95**
OpeningTime	String	2018-03-19T11:16:11Z	The time when the IPA service was activated. The time follows the ISO 8601 standard in the yyyy-MM-ddThh:mmZ format.
OperationLocks	Array of LockReason		The lock status of the IPA service.
LockReason			
LockReason	String	financial	The reason why the IPA service was locked. A value of **financial** indicates that your account has an overdue payment.
RequestId	String	EF2AEBC2-EDBD-41CF-BF64-7E095D42D6EF	The ID of the request.

Examples

Sample requests

```
https://dcdn.aliyuncs.com?Action=DescribeDcdnIpaService
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnIpaServiceResponse>
      <ChangingChargeType>PayByBandwidth</ChangingChargeType>
      <OpeningTime>2018-03-19T11:16:11Z</OpeningTime>
      <InstanceId>1883927335936173</InstanceId>
      <RequestId>EF2AEBC2-EDBD-41CF-BF64-7E095D42D6EF</RequestId>
      <ChangingAffectTime>2018-03-31T16:00:00Z</ChangingAffectTime>
      <OperationLocks>
            <LockReason>
                  <LockReason>financial</LockReason>
            </LockReason>
      </OperationLocks>
      <InternetChargeType>PayByTraffic</InternetChargeType>
</DescribeDcdnIpaServiceResponse>
```

`JSON` format

```
{
    "ChangingChargeType": "PayByBandwidth",
    "OpeningTime": "2018-03-19T11:16:11Z",
    "InstanceId": "1883927335936173",
    "RequestId": "EF2AEBC2-EDBD-41CF-BF64-7E095D42D6EF",
    "ChangingAffectTime": "2018-03-31T16:00:00Z",
    "OperationLocks": {
        "LockReason": [
            {
                "LockReason": "financial"
            }
        ]
    },
    "InternetChargeType": "PayByTraffic"
}
```

Error codes

HttpCode	Error code	Error message	Description
403	DcdnIpaServiceNotFound	The DCDN IPA service has not been activated.	The error message returned because the IPA service is not activated.

For a list of error codes, visit the API Error Center.

16.5. UpdateDcdnIpaDomain

Modifies an accelerated domain name.

> **Note** The maximum number of times that users can call this operation per second is 20.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateDcdnIpaDomain	The operation that you want to perform. Set the value to **UpdateDcdnIpaDomain**.
DomainName	String	Yes	example.com	The accelerated domain name that you want to modify. You can specify only one domain name in each call.
Sources	String	No	[{"content":"10.10.10.10","type":"ipaddr","priority":"20","port":80,"weight":"15"}]	The list of origin URLs.
ResourceGroupId	String	No	rg-acfmyuji4b6r4**	The ID of the resource group.
TopLevelDomain	String	No	example.edu	The top-level domain name.

The following table describes the fields in the Sources parameter.

Parameter	Type	Required	Description
type	String	Yes	The type of origin server. Valid values: **ipaddr**: the IP address of the origin server. **domain**: the domain name of the origin server. **oss**: Object Storage Service (OSS) buckets are not supported.
content	String	Yes	The address of the origin server. You can specify an IP address or a domain name.
port	Integer	No	The port number. Valid values: **0 to 65535**.
priority	String	No	The priority of the origin server if multiple origin servers are specified. Valid values: **20** and 30. The default value: 20. A value of **20** indicates a primary origin server. A value of **30** indicates a secondary origin server.
weight	String	No	The weight of the origin server. You must specify a value that is less than **100**. The default value is **10**.

Response parameters

Parameter	Type	Example	Description
RequestId	String	15C66C7B-671A-4297-9187-2C4477247A74	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/? Action=UpdateDcdnIpaDomain
&DomainName=example.com
&Sources=[{"content":"10.10.10.10","type":"ipaddr","priority":"20","port":80}]
&<Common request parameters>
```

Sample success responses

`XML` format

```
<UpdateDcdnIpaDomainResponse>
      <RequestId>15C66C7B-671A-4297-9187-2C4477247A74</RequestId>
</UpdateDcdnIpaDomainResponse>
```

`JSON` format

```
{
  "RequestId": "15C66C7B-671A-4297-9187-2C4477247A74"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	MissingDomainName	The domainName parameter is required.	The error message returned because the value of the DomainName parameter is not specified.
400	InvalidDomainName.Malformed	The specified DomainName is invalid.	The error message returned because the domain name format is invalid.
400	InvalidSource.Content.Malformed	The specified Source Content is invalid.	The error message returned because the specified value of the Sources parameter is invalid. Specify a valid value.
400	InvalidTypeContent.Mismatch	The specified source type does not match the specified source content.	The error message returned because the type and content fields that are specified in the Sources parameter do not match.
400	MissingSource.Content	The Source Content must be specified.	The error message returned because the content field in the Sources parameter is not specified. Specify the field and try again later.
400	MissingSource.Type	The Source Type must be specified.	The error message returned because the type field in the Sources parameter is not specified. Specify the field and try again later.
400	InvalidSource.Type.Malformed	The specified Source Type is invalid.	The error message returned because the specified value of the type field in the Sources parameter is invalid. Specify a value that is in the required format.
400	InvalidSource.Priority.Malformed	The specified Source Priority is invalid.	The error message returned because the specified value of the priority field in the Sources parameter is invalid. Specify a value that is in the required format.
400	InvalidResourceGroupId.Malformed	The specified ResourceGroupId is invalid.	The error message returned because the specified value of the ResourceGroupId parameter is invalid. Specify a valid value.
400	EntityNotExists.ResourceGroup	The resource group does not exist.	The error message returned because the specified resource group does not exist.
400	InvalidStatus.ResourceGroup	The current status of the resource group does not support this operation.	The error message returned because the operation is not supported by the current state of the resource group.
403	DomainInProtectedMode	The domain is in protection mode. To request permission, contact Customer Service.	The error message returned because the specified domain name is being protected. To call this operation, contact Alibaba Cloud customer services.
400	TopLevelDomain.NotFound	The specified TopLevelDomain does not exist.	The error message returned because the specified top-level domain does not exist.

HttpCode	Error code	Error message	Description
400	InvalidSource.Port.Malformed	The source port is empty, or it is outside the range 0-65535.	The error message returned because the origin port number is not specified or the specified origin port number is invalid. Valid port numbers are from 0 to 65535.
403	DcdnIpaServiceNotFound	The DCDN IPA service has not been activated.	The error message returned because the IPA service is not activated.

For a list of error codes, visit the API Error Center.

16.6. DeleteDcdnIpaDomain

Deletes a specified accelerated domain from IP Application Accelerator (IPA).

> **Note**
> - Before you delete your domain name, we recommend that you request the Domain Name System (DNS) provider to restore the A record of the domain name. Otherwise, the domain name may become inaccessible after you delete it.
> - If you call the **DeleteDcdnIpaDomain** operation to delete an accelerated domain name, all the relevant information is deleted. If you want to only disable an accelerated domain name, we recommend that you call the **StopDcdnIpaDomain** operation.
> - The maximum number of times that users can call this operation per second is 10.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteDcdnIpaDomain	The operation that you want to perform. Set the value to **DeleteDcdnIpaDomain**.
DomainName	String	Yes	example.com	The name of the accelerated domain name to be deleted. You can specify only one domain name.

Response parameters

Parameter	Type	Example	Description
RequestId	String	94E3559F-7B6A-4A5E-AFFD-44E2A208A249	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/? Action=DeleteDcdnIpaDomain
&DomainName=example.com
&<Common request parameters>
```

Sample responses

`XML` format

```
<DeleteDcdnIpaDomainResponse>
      <RequestId>94E3559F-7B6A-4A5E-AFFD-44E2A208A249</RequestId>
</DeleteDcdnIpaDomainResponse>
```

`JSON` format

```
{
  "RequestId": "94E3559F-7B6A-4A5E-AFFD-44E2A208A249"
}
```

Error codes

HttpCode	Error code	Error message	Description
403	DcdnIpaServiceNotFound	The DCDN IPA service has not been activated.	The error message returned because the IPA service is not activated.
400	InvalidDomainName.Malformed	The specified DomainName is invalid.	The error message returned because the specified value of the DomainName parameter is invalid.

For a list of error codes, visit the API Error Center.

16.7. StartDcdnIpaDomain

Enables a specified accelerated domain that is disabled. After the domain is enabled, the value of the DomainStatus parameter is changed to Online.

> **Note**
> - The maximum number of times that users can call this operation per second is 20.
> - If an accelerated domain is in an invalid state or your account has an overdue payment, the accelerated domain cannot be enabled.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	StartDcdnIpaDomain	The operation that you want to perform. Set the value to **StartDcdnIpaDomain**.
DomainName	String	Yes	example.com	The name of the accelerated domain to be enabled. You can specify only one accelerated domain name at a time.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0AEDAF20-4DDF-4165-8750-47FF9C1929C9	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=StartDcdnIpaDomain
&DomainName=example.com
&<Common request parameters>
```

Sample success responses

`XML` format

```
<StartDcdnIpaDomainResponse>
      <RequestId>0AEDAF20-4DDF-4165-8750-47FF9C1929C9</RequestId>
</StartDcdnIpaDomainResponse>
```

`JSON` format

```
{
  "RequestId": "0AEDAF20-4DDF-4165-8750-47FF9C1929C9"
}
```

Error codes

HttpCode	Error code	Error message	Description
403	DcdnIpaServiceNotFound	The DCDN IPA service has not been activated.	The error message returned because the IPA service is not activated.
400	RecordCheckNotAvailable	The ICP filing interface is unavailable. Please try again later.	The error message returned because no ICP filing is available.
400	IcpBlack	The domain is on the ICP blacklist.	The error message returned because your domain is on the ICP blacklist of the Ministry of Industry and Information Technology (MIIT) of China.
400	IspBlack	The domain is on the ISP blacklist.	The error message returned because your domain is on the Internet service provider (ISP) blacklist of Alibaba Cloud.

For a list of error codes, visit the API Error Center.

16.8. AddDcdnIpaDomain

Adds a domain name to IP Application Accelerator (IPA). You can add only one domain name in each request.

> **Note**
> - Make sure that you have activated the IPA service.
> - Make sure that you have completed Internet content provider (ICP) filling for the accelerated domain name.
> - If the content on the origin server is not stored on Alibaba Cloud, the content must be reviewed. The review is completed by the end of the next business day after you submit the request.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	AddDcdnIpaDomain	The operation that you want to perform. Set the value to **AddDcdnIpaDomain**.

Parameter	Type	Required	Example	Description
DomainName	String	Yes	example.com	The domain name to be added to IPA. Wildcard domain names are supported. A wildcard domain name must start with a period (.). Example: .example.com
Sources	String	Yes	[{"content":"1.1.1.1","type":"ipaddr","priority":"20","port":80,"weight":"15"}]	The information about the origin addresses.
ResourceGroupId	String	No	rg-xxxxx	The ID of the resource group. If you do not set this parameter, the system automatically assigns the ID of the default resource group.
CheckUrl	String	No	example.com/image_01.png	The URL that is used to test the availability of the origin server.
Scope	String	No	domestic	The accelerated region. Valid values: • **domestic**: mainland China. • **overseas**: global (Chinese mainland not included). • **global**: global.
TopLevelDomain	String	No	example.org	The top-level domain name.
Protocol	String	No	udp	The protocol. Valid values: • tcp • udp **Note** Example: `{"protocol":"udp"}`.

Fields in Sources

Field	Type	Required	Description
type	String	Yes	The type of the origin server. Valid values: ipaddr and domain. A value of ipaddr specifies the IP address of the origin server. A value of domain specifies the domain name of the origin server. A value of oss is not supported.
content	String	Yes	The address of the origin server. You can specify an IP address or a domain name.

Field	Type	Required	Description
port	Integer	Yes	The custom port number. Valid values: 0 to 65535.
priority	String	No	The priority of the origin server. Valid values: 20 and 30. Default value: 20. A value of 20 specifies that the origin is a primary origin. A value of 30 specifies that the origin is a secondary origin.
weight	String	No	The weight of the origin server. You must specify a value that is less than 100. Default value: 10.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0AEDAF20-4DDF-4165-8750-47FF9C1929C9	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=AddDcdnIpaDomain
&DomainName=example.com
&Sources=[{"content":"1.1.1.1","type":"ipaddr","priority":"20","port":80,"weight":"15"}]
&<Common request parameters>
```

Sample success responses

`XML` format

```
<AddDcdnIpaDomainResponse>
      <RequestId>0AEDAF20-4DDF-4165-8750-47FF9C1929C9</RequestId>
</AddDcdnIpaDomainResponse>
```

`JSON` format

```
{
  "RequestId": "0AEDAF20-4DDF-4165-8750-47FF9C1929C9"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	InvalidDomainName.Malformed	The specified DomainName is invalid.	The error message returned because the format of the domain name is invalid.
400	InvalidSource.Content.Malformed	The specified Source Content is invalid.	The error message returned because the specified value of the Sources parameter is invalid. Specify another value.

HttpCode	Error code	Error message	Description
400	MissingSource.Content	The Source Content must be specified.	The error message returned because the content field in the Sources parameter is not specified. Specify the field and try again.
400	MissingSource.Type	The Source Type must be specified.	The error message returned because the type field in the Sources parameter is not specified. Specify the field and try again.
400	InvalidSource.Type.Malformed	The specified Source Type is invalid.	The error message returned because the specified value of the type field in the Sources parameter is invalid. Specify a value in the correct format.
400	InvalidSource.Priority.Malformed	The specified Source Priority is invalid.	The error message returned because the specified value of the priority field in the Sources parameter is invalid. Specify a value in the correct format.
400	InvalidScope.Malformed	The specified Scope is invalid.	The error message returned because the specified value of the Scope parameter is invalid. Specify a valid value and try again.
400	SourceIp.Exceed	The maximum number of back-to-origin IP addresses is exceeded.	The error message returned because the number of specified origin IP addresses has reached the upper limit.
400	InvalidCertificate	The specified certificate format is invalid.	The error message returned because the format of the specified certificate is invalid. Specify a valid certificate and try again.
400	InvalidCertificate.TooLong	The maximum length of the certificate is exceeded.	The error message returned because the length of the specified certificate content has exceeded the upper limit.
400	CheckSourceHealthFailed	Error checking the security. Provide the valid origin site information.	The error message returned because security check failed due to invalid origin information. Specify valid origin information and try again.
400	ExtensiveAndAllBothExist	A wildcard domain name and a domain name with an all. prefix cannot be both specified.	The error message returned because wildcard domain names and domain names that start with the string all. cannot exist at the same time.
400	CdnTypeNotSupportExtensiveDomain	Wildcard domain names are not supported.	The error message returned because wildcard domain names are not supported.
400	ExtensiveAndSpecificDomainConflict	The wildcard domain name overlaps a domain name at the same level.	The error message returned because the specified domain name is an exact match of an existing wildcard domain name at the same level. Specify another domain name.
400	InvalidResourceGroupId.Malformed	The specified ResourceGroupId is invalid.	The error message returned because the specified value of the ResourceGroupId parameter is invalid. Specify a valid value.

HttpCode	Error code	Error message	Description
400	DomainReserved	The root domain of your domain is reserved by another account. Submit a ticket to contact customer support.	The error message returned because the root domain of the specified domain name is used by another Alibaba Cloud account. If you want to add a domain name, submit a ticket.
400	InvalidDomainNameLevel	The alicdn.com domain supports a maximum of three levels of domain.	The error message returned because the specified domain name is not supported. DCDN supports only top-level, second-level, and third-level domain names.
400	TopLevelDomain.NotFound	The specified TopLevelDomain does not exist.	The error message returned because the specified top-level domain name does not exist.
400	EntityNotExists.ResourceGroup	The resource group does not exist.	The error message returned because the specified resource group does not exist.
400	EntityNotExist.ResourceGroup	The resource group does not exist.	The error message returned because the specified resource group does not exist.
400	InvalidStatus.ResourceGroup	The current status of the resource group does not support this operation.	The error message returned because the operation is not allowed when the resource group is in the current state.
400	NotInternationRealIdentity	Real-name registration is required for services offered in Mainland China.	The error message returned because you have not completed real-name verification that is required for purchasing or using Internet content services in mainland China.
400	InvalidSource.Port.Malformed	The source port is empty, or it is outside the range 0-65535.	The error message returned because the origin port number is not specified or the specified origin port number is invalid. Valid port range is 0 to 65535.
403	DcdnIpaServiceNotFound	The DCDN IPA service has not been activated.	The error message returned because the IPA service is not activated.
400	RecordCheckNotAvailable	The ICP filing interface is unavailable. Please try again later.	The error message returned because the operation for ICP filing is unavailable. Try again later.
400	IcpBlack	The domain is on the ICP blacklist.	The error message returned because the domain name is in the ICP filing blacklist that is provided by the Ministry of Industry and Information Technology (MIIT).
400	IspBlack	The domain is on the ISP blacklist.	The error message returned because the domain name is in the blacklist that is provided by Alibaba Cloud.
400	TopLevelDomain.Mismatch	The specified TopLevelDomain does not match webSiteType.	The error message returned because the specified top-level domain name does not match the domain name type.

For a list of error codes, visit the API Error Center.

16.9. BatchSetDcdnIpaDomainConfigs

Configures multiple domain names to be accelerated by IP Application Accelerator (IPA).

> **Note** The maximum number of times that users can call this operation per second is 20.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameter

Parameter	Type	Required	Example	Description
Action	String	Yes	BatchSetDcdnIpaDomainConfigs	The operation that you want to perform. Set the value to **BatchSetDcdnIpaDomainConfigs**.
DomainNames	String	Yes	example.com	The domain names accelerated by IPA. Separate multiple domain names with commas (,).
Functions	String	Yes	[{"functionArgs": [{"argName":"domain_name","argValue":"api.example.com"}],"functionName":"protogw"}]	The list of features. `[{"functionArgs": [{"argName":"Parameter name","argValue":"Parameter value"}],"functionName":"Feature name"}]`

Description

Name	Parameter
protogw: IPA	realip: configures IP passthrough for passing client IP addresses to origin servers. This parameter is required. Valid values: off: disables IP passthrough. toa: carries the real IP address of the client. The origin server must have the TCP Option Address (TOA) kernel module installed. You do not need to adjust your services. pp: carries the real IP address of the client. This method is supported by the open source version of NGINX. Make sure that other pieces of software of the origin server also support this method. port: specifies the service port. This parameter is required.

Response parameters

Parameter	Type	Sample response	Description
RequestId	String	0AEDAF20-4DDF-4165-8750-47FF9C1929C9	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=BatchSetDcdnIpaDomainConfigs
&DomainNames=example.com
&Functions=[{"functionArgs":[{"argName":"domain_name","argValue":"api..com"}],"functionName":"protogw"}]
&<Common request parameters>
```

Sample success responses

`XML` format

```
<BatchSetDcdnIpaDomainConfigsResponse>
      <RequestId>0AEDAF20-4DDF-4165-8750-47FF9C1929C9</RequestId>
</BatchSetDcdnIpaDomainConfigsResponse>
```

`JSON` format

```
{
  "RequestId": "0AEDAF20-4DDF-4165-8750-47FF9C1929C9"
}
```

Errors codes

HttpCode	Error code	Error message	Description
400	InvalidFunctions.Malformed	The specified Functions is invalid.	The error message returned because the specified configuration is not supported.
400	InvalidArgValue.Malformed	The specified ArgValue is invalid.	The error message returned because the specified value of the ArgValue parameter is invalid. Specify a valid value.
400	Invalid%s.ValueNotSupported	[%s] is not supported.	The error message returned because the specified value is not supported.
400	Invalid%s.Malformed	The specified ArgValue [%s] is invalid.	The error message returned because the specified value of the argValue parameter is invalid. Specify a valid value.
403	DcdnIpaServiceNotFound	The DCDN IPA service has not been activated.	The error message returned because the DCDN IPA service is not activated.

For a list of error codes, visit the API Error Center.

16.10. DescribeDcdnIpaUserDomains

Queries information about all domain names that are accelerated by IP Application Accelerator (IPA) in your account. You can filter domains by name or by state. Fuzzy match is supported when you filter domains by name.

> **Note** The maximum number of times that each user can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnIpaUserDomains	The operation that you want to perform. Set the value to **DescribeDcdnIpaUserDomains**.
PageSize	Integer	No	5	The number of domain names to return on each page. Maximum value: **500**. Default value: **20**. Valid values: an integer from **1** to **500**.

Parameter	Type	Required	Example	Description
PageNumber	Integer	No	1	The number of the page to return. Valid values: **1** to **100000**. Default value: **1**.
DomainName	String	No	example.com	The accelerated domain names. This parameter is used as a condition to filter domain names. Fuzzy match is supported.
DomainStatus	String	No	online	The status of the domain name. The value of this parameter is used as a condition to filter domain names.
DomainSearchType	String	No	fuzzy_match	The search method. Default value: fuzzy_match. Valid values: • **fuzzy_match**: fuzzy match • **pre_match**: prefix match • **suf_match**: suffix match • **full_match**: exact match
CheckDomainShow	Boolean	No	false	Specifies whether to display domain names that are under review, failed the review, or failed to be configured. Valid values: • **true**: Display domain names that are under review, failed the review, or failed to be configured. • **false**: Do not display domain names that are under review, failed the review, or failed to be configured.
ResourceGroupId	String	No	ResourceGroupId	The ID of the resource group.
FuncId	String	No	7	The ID of the feature. For example, a value of 7 specifies the feature of configuring an expiration rule for a specific directory.
FuncFilter	String	No	config	The status of the specified feature. Valid values: • config: The feature is enabled. • unconfig: The feature is disabled.
Tag.N.Key	String	No	1	The key of tag N. Valid values of N: 1 to 20. You can call the TagDcdnResources operation to set tags for domain names.
Tag.N.Value	String	No	1	The value of tag N. Valid values of N: 1 to 20.

Response parameters

Parameter	Type	Example	Description

Parameter	Type	Example	Description
Domains	Array of PageData		The array consists of multiple PageData parameters. The details about each accelerated domain name are included in a separate PageData parameter.
PageData			
Cname	String	example.com.*.com	The CNAME of the accelerated domain name.
Description	String	audit failed	The reason why the accelerated domain name failed the review.
DomainName	String	example.com	The accelerated domain names.
DomainStatus	String	online	The status of the accelerated domain name. Valid values: • **online**: The domain name is enabled. • **offline**: The domain name is disabled. • **configuring**: The domain name is being configured. • **configure_failed**: The domain name failed to be configured. • **checking**: The domain name is under review. • **check_failed**: The domain name failed the review.
GmtCreated	String	2015-10-28T09:32:51Z	The time when the accelerated domain name was created.
GmtModified	String	2015-10-28T11:05:52Z	The time when the accelerated domain name was last modified.
ResourceGroupId	String	abcd1234abcd1234	The ID of the resource group.
SSLProtocol	String	on	Indicates whether the HTTPS protocol is enabled. • **on**: The HTTPS protocol is enabled. • **off**: The HTTPS protocol is disabled.
Sandbox	String	normal	Indicates whether the accelerated domain name is in a sandbox.
Sources	Array of Source		The information about the origin server.
Source			
Content	String	*.aliyuncs.com	The address of the origin server.
Port	Integer	80	The port of the origin server.
Priority	String	20	The priority of the origin server if multiple origin servers are specified.

Parameter	Type	Example	Description
Type	String	The domain name of Object Storage Service (OSS)	The type of the origin server.
Weight	String	20	The weight of the origin server if multiple origin servers are specified.
PageNumber	Long	1	The page number of the returned page.
PageSize	Long	20	The number of domain names that was returned per page.
RequestId	String	AA75AADB-5E25-4970-B480-EAA1F5658483	The ID of the request.
TotalCount	Long	1	The total number of returned domain names.

Examples

Sample requests

```
https://dcdn.aliyuncs.com?&Action=DescribeDcdnIpaUserDomains&PageNumber=1&PageSize=5&DomainSearchType=fuzzy_match
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnIpaUserDomainsResponse>
  <PageNumber>1</PageNumber>
  <TotalCount>1</TotalCount>
  <PageSize>20</PageSize>
  <RequestId>AA75AADB-5E25-4970-B480-EAA1F5658483</RequestId>
  <Domains>
        <PageData>
              <DomainStatus>online</DomainStatus>
              <DomainName>example.com</DomainName>
              <GmtModified>2015-10-28T11:05:52Z</GmtModified>
              <GmtCreated>2015-10-28T09:32:51Z</GmtCreated>
              <Description>audit failed</Description>
              <ResourceGroupId>abcd1234abcd1234</ResourceGroupId>
              <Sources>
                    <Source>
                          <Content>xxx.aliyuncs.com</Content>
                          <Port>80</Port>
                          <Priority>20</Priority>
                          <Type>oss</Type>
                          <Weight>20</Weight>
                    </Source>
              </Sources>
        </PageData>
  </Domains>
</DescribeDcdnIpaUserDomainsResponse>
```

`JSON` format

```
{
    "PageNumber": 1,
    "TotalCount": 1,
    "PageSize": 20,
    "RequestId": "AA75AADB-5E25-4970-B480-EAA1F5658483",
    "Domains": {
        "PageData": [
            {
                "DomainStatus": "online",
                "DomainName": "example.com",
                "GmtModified": "2015-10-28T11:05:52Z",
                "GmtCreated": "2015-10-28T09:32:51Z",
                "Description": "audit failed",
                "ResourceGroupId": "abcd1234abcd1234",
                "Sources": {
                    "Source": [
                        {
                            "Content": "xxx.aliyuncs.com",
                            "Port": 80,
                            "Priority": "20",
                            "Type": "oss",
                            "Weight": "20"
                        }
                    ]
                }
            }
        ]
    }
}
```

Error codes

HttpCode	Error code	Error message	Description
400	InvalidPageNumber.ValueNotSupported	The specified value of PageNumber is not supported.	The error message returned because the value specified for the PageNumber parameter is invalid. Specify a valid value.
400	InvalidPageSize.ValueNotSupported	The specified value of PageSize is invalid.	The error message returned because the value specified for the PageSize parameter is invalid. Specify a valid value.
400	InvalidDomainStatus.ValueNotSupported	The specified value of DomainStatus is invalid.	The error message returned because the value specified for the DomainStatus parameter is invalid. Specify a valid value.
400	InvalidDomainName.Malformed	The specified DomainName is invalid.	The error message returned because the format of the domain name is invalid.
400	InvalidDomainSearchType.ValueNotSupported	The specified value of DomainSearchType is invalid.	The error message returned because the value specified for the DomainSearchType parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

16.11. DescribeDcdnIpaDomainDetail

Queries basic information about a specified domain name that is accelerated by IP Application Accelerator (IPA).

> **Note** The maximum number of times that users can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnIpaDomainDetail	The operation that you want to perform. Set the value to **DescribeDcdnIpaDomainDetail**.
DomainName	String	Yes	example.com	The accelerated domain names for which you want to query basic information. You can specify only one domain name in each request.

Response parameters

Parameter	Type	Example	Description
DomainDetail	Struct		The details about the accelerated domain name.
CertName	String	yourCertName	Indicates the name of the certificate if the HTTPS protocol is enabled.
Cname	String	example.com	The CNAME assigned to the domain name.
Description	String	audit failed	The description.
DomainName	String	example.com	The accelerated domain names.
DomainStatus	String	online	The status of the accelerated domain name. Valid values: • **online**: The domain name is enabled. • **offline**: The domain name is disabled. • **configuring**: The domain name is being configured. • **configure_failed**: The domain name failed to be configured. • **checking**: The domain name is under review. • **check_failed**: The domain name failed the review.
GmtCreated	String	2017-11-27T06:51:26Z	The time when the accelerated domain name was created.
GmtModified	String	2017-11-27T06:51:26Z	The time when the accelerated domain name was last modified.
ResourceGroupId	String	rg-acfmyuji4b6xxxx	The ID of the resource group.

Parameter	Type	Example	Description
SSLProtocol	String	on	Indicates whether the Security Socket Layer (SSL) certificate is enabled. Valid values: • **on**: The SSL certificate is enabled. • **off**: The SSL certificate is disabled.
SSLPub	String	SSLPub	Indicates the public key of the certificate if the HTTPS protocol is enabled.
Scope	String	overseas	The accelerated region. Valid values: • domestic: mainland China • overseas: global (excluding mainland China) • global: global
Sources	Array of Source		The information about the origin server.
Source			
Content	String	xxx.oss-cn-hangzhou.aliyuncs.com	The address of the origin server.
Enabled	String	online	The status of the origin server.
Port	Integer	80	The custom port. Valid values: **0** to **65535**.
Priority	String	50	The priority of the origin server if multiple origin servers are specified.
Type	String	oss	The type of the origin server. Valid values: • **ipaddr**: an IP address. • **domain**: a domain name. • **oss**: Object Storage Service (OSS) buckets are not supported.
Weight	String	10	The weight of the origin server if multiple origin servers are specified.
RequestId	String	09ABE829-6CD3-4FE0-AFEE-556113E29727	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnIpaDomainDetail
&DomainName=example.com
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnIpaDomainDetailResponse>
  <RequestId>09ABE829-6CD3-4FE0-AFEE-556113E29727</RequestId>
  <DomainDetail>
        <Cname>example.com.dcdn7mhp.com</Cname>
        <ResourceGroupId>rg-acfmyuji4b6xxxx</ResourceGroupId>
        <DomainStatus>online</DomainStatus>
        <DomainName>example.com</DomainName>
        <Sources>
              <Source>
                    <Enabled>online</Enabled>
                    <Port>80</Port>
                    <Type>oss</Type>
                    <Content>xxx.oss-cn-hangzhou.aliyuncs.com</Content>
                    <Priority>50</Priority>
                    <Weight>10</Weight>
              </Source>
        </Sources>
        <GmtModified>2017-11-27T06:51:26Z</GmtModified>
        <GmtCreated>2017-11-27T06:51:25Z</GmtCreated>
  </DomainDetail>
</DescribeDcdnIpaDomainDetailResponse>
```

`JSON` format

```
{
  "RequestId": "09ABE829-6CD3-4FE0-AFEE-556113E29727",
  "DomainDetail": {
    "Cname": "example.com.dcdn7mhp.com",
    "ResourceGroupId": "rg-acfmyuji4b6xxxx",
    "DomainStatus": "online",
    "DomainName": "example.com",
    "Sources": {
      "Source": [
        {
          "Enabled": "online",
          "Port": 80,
          "Type": "oss",
          "Content": "xxx.oss-cn-hangzhou.aliyuncs.com",
          "Priority": "50",
          "Weight": "10"
        }
      ]
    },
    "GmtModified": "2017-11-27T06:51:26Z",
    "GmtCreated": "2017-11-27T06:51:25Z"
  }
}
```

Error codes

For a list of error codes, visit the API Error Center.

16.12. DeleteDcdnIpaSpecificConfig

Deletes specific configurations of an accelerated domain name from IP Application Accelerator (IPA).

> **Note** The maximum number of times that users can call this operation per second is 10.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteDcdnIpaSpecificConfig	The operation that you want to perform. Set the value to **DeleteDcdnIpaSpecificConfig**.
ConfigId	String	Yes	50035**	The ID of the configuration. You can call the DescribeDcdnDomainConfigs operation to query configuration IDs.
DomainName	String	Yes	example.com	The accelerated domain name. You can specify only one domain name in each call.

Response parameters

Parameter	Type	Example	Description
RequestId	String	04F0F334-1335-436C-A1D7-6C044FE73368	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/? Action=DeleteDcdnIpaSpecificConfig
&ConfigId=50035**
&DomainName=example.com
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DeleteDcdnIpaSpecificConfigResponse>
        <RequestId>04F0F334-1335-436C-A1D7-6C044FE73368</RequestId>
</DeleteDcdnIpaSpecificConfigResponse>
```

`JSON` format

```
{
    "RequestId": "04F0F334-1335-436C-A1D7-6C044FE73368"
}
```

Error codes

HttpCode	Error code	Error message	Description
403	DcdnIpaServiceNotFound	The DCDN IPA service has not been activated.	The error message returned because the IPA service is not activated.
400	Invalid%s.ValueNotSupported	FunctionName [%s] is not supported.	The error message returned because the specified FunctionName parameter is not supported.

For a list of error codes, visit the API Error Center.

16.13. DescribeDcdnDomainProperty

Queries the protocol type of IP Application Accelerator (IPA).

> **Note** The maximum number of times that users can call this operation per second is 10.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different software development kits (SDKs).

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainProperty	The operation that you want to perform. Set the value to **DescribeDcdnDomainProperty**.
DomainName	String	Yes	example.com	The accelerated domain name that you want to query. You can specify only one domain name in each call.

Response parameters

Parameter	Type	Example	Description
DomainName	String	example.com	The accelerated domain name that is queried.
Protocol	String	udp	The name of the protocol. Valid values: • **udp**: User Datagram Protocol (UDP) • **tcp**: Transmission Control Protocol (TCP)
RequestId	String	34AB41F1-04A5-496F-8C8D-634BDBE6A9FB	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainProperty
&DomainName=example.com
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnDomainPropertyResponse>
  <RequestId>34AB41F1-04A5-496F-8C8D-634BDBE6A9FB</RequestId>
  <DomainName>example.com</DomainName>
  <Protocol>udp</Protocol>
</DescribeDcdnDomainPropertyResponse>
```

`JSON` format

```
{
  "RequestId": "34AB41F1-04A5-496F-8C8D-634BDBE6A9FB",
  "DomainName": "example.com",
  "Protocol": "udp"
}
```

Error codes

HttpCode	Error code	Error message	Description
404	InvalidDomain.NotFound	The specified domain does not exist.	The error message returned because the specified domain name does not exist.

For a list of error codes, visit the API Error Center.

16.14. DescribeDcdnDomainIpaBpsData

Queries monitoring information about bandwidth data of the Layer-4 accelerated network for one or more specified accelerated domain names. You can query data collected within the last 90 days.

> **Note**
> - Unit: bit/s.
> - If you do not set **StartTime** or **EndTime**, data collected within the last 24 hours is queried. If you set both **StartTime** and **EndTime**, data collected within the specified time range is queried.
> - The maximum number of times that users can call this operation per second is 100.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different software development kits (SDKs).

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainIpaBpsData	The operation that you want to perform. Set the value to **DescribeDcdnDomainIpaBpsData**.
DomainName	String	No	example.com	The accelerated domain names. Separate multiple domain names with commas (,). By default, all accelerated domain names are queried.
StartTime	String	No	2017-12-10T20:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0.
EndTime	String	No	2017-12-10T21:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0. **Note** The end time must be later than the start time.

Parameter	Type	Required	Example	Description
TimeMerge	String	No	1	Specify whether to automatically calculate the value of the **Interval** parameter. If you set the **TimeMerge** parameter to **1**, the value of the **Interval** parameter is automatically assigned based on the **StartTime** and **EndTime** parameters. You can specify this parameter or the **Interval** parameter.
Interval	String	No	300	The unit of time in which data is collected: seconds. The value varies based on the values of the **StartTime** and **EndTime** parameters. Valid values: • If the time range between StartTime and EndTime is less than 3 days, valid values are **300**, **3600**, and **86400**. Default value: **300**. • If the time range between StartTime and EndTime is from 3 to 31 days (31 days excluded), valid values are **3600** and **86400**. Default value: **3600**. • If the time range between StartTime and EndTime is 31 days or longer, the valid value is **86400**. Default value: **86400**.
FixTimeGap	String	No	false	Specify whether to implement padding with zeros. Valid values: • **true**: Yes • **false**: No
IspNameEn	String	No	Unicom	The name of the Internet service provider (ISP). If you do not set this parameter, all ISPs are queried. You can call the DescribeDcdnRegionAndIsp operation to query ISP names.
LocationNameEn	String	No	beijing	The name of the region. If you do not set this parameter, all regions are queried. You can call the DescribeDcdnRegionAndIsp operation to query region names.

Response parameters

Parameter	Type	Example	Description
BpsDataPerInterval	Array of DataModule		The bandwidth data that is collected for each interval.
DataModule			
IpaBps	Float	11288111	The bandwidth value. Unit: bit/s.
TimeStamp	String	2017-12-10T20:00:00Z	The timestamp of the data entry.

Parameter	Type	Example	Description
DataInterval	String	300	The time interval at which data is collected.
DomainName	String	example.com	The information about the accelerated domain name.
EndTime	String	2017-12-10T21:00:00Z	The end time.
RequestId	String	3C6CCEC4-6B88-4D4A-93E4-D47B3D92CF8F	The ID of the request.
StartTime	String	2017-12-10T20:00:00Z	The start time.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainIpaBpsData
&DomainName=example.com
&StartTime=2017-12-10T20:00:00Z
&EndTime=2017-12-10T21:00:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnDomainIpaBpsDataResponse>
      <BpsDataPerInterval>
            <DataModule>
                  <TimeStamp>2017-12-10T20:00:00Z</TimeStamp>
                  <IpaBps>11288111</IpaBps>
            </DataModule>
            <DataModule>
                  <TimeStamp>2017-12-10T20:05:00Z</TimeStamp>
                  <IpaBps>11288111</IpaBps>
            </DataModule>
      </BpsDataPerInterval>
      <DomainName>example.com</DomainName>
      <DataInterval>300</DataInterval>
      <RequestId>3C6CCEC4-6B88-4D4A-93E4-D47B3D92CF8F</RequestId>
      <StartTime>2017-12-10T20:00:00Z</StartTime>
      <EndTime>2017-12-10T21:00:00Z</EndTime>
</DescribeDcdnDomainIpaBpsDataResponse>
```

`JSON` format

```
{
    "BpsDataPerInterval": {
        "DataModule": [
            {
                "TimeStamp": "2017-12-10T20:00:00Z",
                "IpaBps": 11288111
            },
            {
                "TimeStamp": "2017-12-10T20:05:00Z",
                "IpaBps": 11288111
            }
        ]
    },
    "DomainName": "example.com",
    "DataInterval": "300",
    "RequestId": "3C6CCEC4-6B88-4D4A-93E4-D47B3D92CF8F",
    "StartTime": "2017-12-10T20:00:00Z",
    "EndTime": "2017-12-10T21:00:00Z"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because the StartTime and EndTime parameters must be set.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the specified end time is invalid. Specify the time in the ISO 8601 standard in yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the specified start time is not supported. Specify a valid value.

For a list of error codes, visit the API Error Center.

16.15. DescribeDcdnDomainIpaTrafficData

Queries the monitoring data of Layer 4 network traffic for one or more accelerated domain names. You can query data collected within the last 90 days.

> **Note**
> - If you do not set **StartTime** or **EndTime**, data collected within the last 24 hours is queried. If you set both **StartTime** and **EndTime**, data collected within the specified time range is queried.
> - The monitoring data is measured in bytes.
> - The maximum number of times that users can call this operation per second is 100.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different software development kits (SDKs).

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainIpaTrafficData	The operation that you want to perform. Set the value to **DescribeDcdnDomainIpaTrafficData**.
DomainName	String	No	example.com	The name of the accelerated domain name. You can specify one or more accelerated domain names. Separate them with commas (,). By default, all accelerated domain names that belong to your Alibaba Cloud account are queried.
StartTime	String	No	2017-12-10T20:00:00Z	The beginning of the time range to query. The time follows the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time is displayed in UTC+0.
EndTime	String	No	2017-12-10T21:00:00Z	The end of the time range to query. The time follows the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0. **Note** The end time must be later than the start time.
TimeMerge	String	No	1	Specify whether to automatically calculate the value of the **Interval** parameter. If you set the **TimeMerge** parameter to **1**, the value of the **Interval** parameter is automatically assigned based on the **StartTime** and **EndTime** parameters. You can set this parameter or the **Interval** parameter.
Interval	String	No	300	The time interval between the data entries returned. Unit: seconds. The valid values vary based on the values of the **StartTime** and **EndTime** parameters. Valid values: • If the time range between StartTime and EndTime is less than 3 days, valid values are **300**, **3600**, and **86400**. Default value: **300**. • If the time range between StartTime and EndTime is from 3 to 31 days (31 days excluded), valid values are **3600** and **86400**. Default value: **3600**. • If the time range between StartTime and EndTime is 31 days or longer, the valid value is **86400**. Default value: **86400**.
FixTimeGap	String	No	false	Specify whether to implement padding with zeros. Valid values: • **true**: Yes • **false**: No

Parameter	Type	Required	Example	Description
IspNameEn	String	No	unicom	The name of the Internet service provider (ISP) for Dynamic Route for CDN (DCDN). You can call the DescribeCdnRegionAndIsp operation to query the most recent ISP list. If you do not specify an ISP, all ISPs are queried.
LocationNameEn	String	No	beijing	The name of the region. You can call the DescribeCdnRegionAndIsp operation to query the most recent region list. If you do not specify a region, all regions are queried.

Response parameters

Parameter	Type	Example	Description
DataInterval	String	300	The time interval between the data entries returned. Unit: seconds.
DomainName	String	example.com	The accelerated domain name.
EndTime	String	2017-12-10T21:00:00Z	The end of the time range that was queried.
RequestId	String	B955107D-E658-4E77-B913-E0AC3D31693E	The ID of the request.
StartTime	String	2017-12-10T20:00:00Z	The beginning of the time range that was queried.
TrafficDataPerInterval	Array of DataModule		The monitoring data of network traffic that was collected at each interval.
DataModule			
IpaTraffic	Float	423304182	The total amount of network traffic.
TimeStamp	String	2017-12-10T20:00:00Z	The timestamp of the data returned.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainIpaTrafficData
&DomainName=example.com
&StartTime=2017-12-10T20:00:00Z
&EndTime=2017-12-10T21:00:00Z
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnDomainIpaTrafficDataResponse>
      <DomainName>example.com</DomainName>
      <DataInterval>300</DataInterval>
      <TrafficDataPerInterval>
            <DataModule>
                  <TimeStamp>2017-12-10T20:00:00Z</TimeStamp>
                  <IpaTraffic>423304182</IpaTraffic>
            </DataModule>
      </TrafficDataPerInterval>
      <RequestId>B955107D-E658-4E77-B913-E0AC3D31693E</RequestId>
      <StartTime>2017-12-10T20:00:00Z</StartTime>
      <EndTime>2017-12-10T21:00:00Z</EndTime>
</DescribeDcdnDomainIpaTrafficDataResponse>
```

`JSON` format

```
{
    "DomainName": "example.com",
    "DataInterval": "300",
    "TrafficDataPerInterval": {
        "DataModule": [
            {
                "TimeStamp": "2017-12-10T20:00:00Z",
                "IpaTraffic": 423304182
            }
        ]
    },
    "RequestId": "B955107D-E658-4E77-B913-E0AC3D31693E",
    "StartTime": "2017-12-10T20:00:00Z",
    "EndTime": "2017-12-10T21:00:00Z"
}
```

Error codes

HttpCode	Error code	Error message	Required
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because both the StartTime and EndTime parameters must be set.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the specified end time is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the specified end time is earlier than the specified start time.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the specified start time parameter is invalid.

For a list of error codes, visit the API Error Center.

16.16. DescribeDcdnDomainIpaConnData

Queries the number of IPA user connections.

Usage notes

- You can call this operation up to 10 times per second per account.
- If you do not set the **StartTime** or **EndTime** parameter, the request returns the data collected in the last 24 hours. If you set both the **StartTime** and **EndTime** parameters, the request returns the data collected within the specified time range.

- The minimum time granularity at which the data is queried is 5 minutes. The maximum time range for a single query is 31 days. The period within which historical data is available is 366 days. The data latency is no more than 10 minutes.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
DomainName	String	No	example1.com	The domain names accelerated by IPA. Separate multiple domain names with commas (,). **Note** If you do not specify this parameter, the merged data of all accelerated domain names is returned.
StartTime	String	No	2015-02-21T07:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
EndTime	String	No	2015-02-22T7:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. **Note** The end time must be later than the start time.
SplitBy	String	No	domain	Specifies how query results are grouped. By default, this parameter is empty. Valid values: • domain: Query results are grouped by accelerated domain name. • An empty string: Query results are not grouped.

Response parameters

Parameter	Type	Example	Description
ConnectionDataPerInterval	Array of DataModule		The number of user connections at each time interval.
DataModule			
Connections	Long	189095	The number of IPA user connections.
Domain	String	example1.com	The accelerated domain name.
TimeStamp	String	2022-02-21T15:00:00+08:00	The timestamp of the data returned.

Parameter	Type	Example	Description
EndTime	String	2015-02-22T15:00:00Z	The end of the time range during which data was queried.
RequestId	String	A2A1EEF8-043E-43A1-807C-BEAC18EA1807	The ID of the request.
StartTime	String	2015-02-21T15:00:00Z	The beginning of the time range during which data was queried.

Examples

Sample requests

```
http://dcdn.aliyuncs.com?Action=DescribeDcdnDomainIpaConnData
&StartTime=2015-02-21T07:00:00Z
&EndTime=2015-02-22T7:00:00Z
&SplitBy=domain
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnDomainIpaConnDataResponse>
  <RequestId>A2A1EEF8-043E-43A1-807C-BEAC18EA1807</RequestId>
  <StartTime>2015-02-21T15:00:00Z</StartTime>
  <EndTime>2015-02-22T15:00:00Z</EndTime>
  <ConnectionDataPerInterval>
        <TimeStamp>2022-02-21T15:00:00+08:00</TimeStamp>
        <domain>example1.com</domain>
        <Connections>189095</Connections>
  </ConnectionDataPerInterval>
  <ConnectionDataPerInterval>
        <TimeStamp>2022-02-21T15:05:00+08:00</TimeStamp>
        <domain>example2.com</domain>
        <Connections>194044</Connections>
  </ConnectionDataPerInterval>
</DescribeDcdnDomainIpaConnDataResponse>
```

`JSON` format

```
{
    "RequestId": "A2A1EEF8-043E-43A1-807C-BEAC18EA1807",
    "StartTime": "2015-02-21T15:00:00Z",
    "EndTime": "2015-02-22T15:00:00Z",
    "ConnectionDataPerInterval": [
        {
            "TimeStamp": "2022-02-21T15:00:00+08:00",
            "domain": "example1.com",
            "Connections": 189095
        },
        {
            "TimeStamp": "2022-02-21T15:05:00+08:00",
            "domain": "example2.com",
            "Connections": 194044
        }
    ]
}
```

Error codes

HttpCode	Error code	Error message	Description
400	InvalidStartTime.Malformed	The specified StartTime parameter is invalid.	The error message returned because the format of the StartTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the EndTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.
400	InvalidTimeRange	The time span between the StartTime and the EndTime cannot exceed 31 days.	The error message returned because the time range that is specified by the StartTime and EndTime parameters exceeds 31 days.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the value specified for the StartTime parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

17.EdgeScript

17.1. SetDcdnDomainStagingConfig

Specifies or modifies the domain name configuration in the canary environment.

> **Note** The maximum number of times that users can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	SetDcdnDomainStagingConfig	The operation that you want to perform. Set the value to **SetDcdnDomainStagingConfig**.
DomainName	String	Yes	example.com	The accelerated domain names. Separate multiple accelerated domain names with commas (,).
Functions	String	Yes	[{\"functionArgs\":[{\"argName\":\"enable\",\"argValue\":\"on\",\"argName\":\"pri\",\"argValue\":\"1\",\"argName\":\"rule\",\"argValue\":\"xxx\"}],\"functionName\":\"edge_function\"}]	The list of features. Specify the features in the following format: `[{"functionArgs":[{"argName":"parameter key","argValue":"parameter value"},{"argName":"xx","argValue":"xx"}],"functionName": feature name"}]` **Note** Separate multiple parameters with commas (,).

You can set multiple records for some features, such as the edge_function feature. To update a record, you can set the ConfigId (Long type) field to specify the configuration items that you want to modify. Syntax:

```
[{"functionArgs":[{"argName":"enable","argValue":"on"},{"argName":"pri","argValue":"1"},{"argName":"rule","argValue":"yyy"}],"ConfigId":123456,"functionName":"edge_function"}]
```

Description

All parameter values are of the string type.

Feature	Parameter

Feature	Parameter
edge_function: EdgeScript functions	Required parameters: rule: the domain-specific language (DSL) script. pri: the priority of the script. enable: specifies whether to enable the script. Valid values: on and off. Optional parameters: name: the name of the script. pos: specifies whether to execute the script at the start or end of the request processing pipeline. For the accelerated domain names of Dynamic Route for CDN (DCDN), only the value of head is supported. The value of foot is not supported. brk: After the script is matched, the subsequent scripts at the specified position are skipped. option: option control. grammar: grammar control. Valid values: null, es2, and js. jsmode: control of the JavaScript domain name whitelist. Valid values: redirect and bypass.

Response parameters

Parameter	Type	Example	Description
RequestId	String	04F0F334-1335-436C-A1D7-6C044FE73368	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/? Action=SetDcdnDomainStagingConfig
&DomainName=example.com
&Functions=[{\"functionArgs\":[{\"argName\":\"enable\",\"argValue\":\"on\",\"argName\":\"pri\",\"argValue\":\"1\"
,\"argName\":\"rule\",\"argValue\":\"xxx\"}],\"functionName\":\"edge_function\"}]
&<common request parameters>
```

Sample success responses

`XML` format

```
<SetDcdnDomainStagingConfigResponse>
  <RequestId>04F0F334-1335-436C-A1D7-6C044FE73368</RequestId>
</SetDcdnDomainStagingConfigResponse>
```

`JSON` format

```
{
    "RequestId": "04F0F334-1335-436C-A1D7-6C044FE73368"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	InvalidFunctionName.ValueNotSupported	%s	%s
400	InvalidArgName.ValueNotSupported	%s	The error message returned because %s is set to an invalid value.
400	InvalidArgValue.Malformed	%s	%s
400	InvalidRule.Malformed	%s	%s
400	ConfigurationConflicts	The staging environment has a configuration in effect. You cannot modify the production environment configuration.	The error message returned because the canary environment has a configuration in effect and you cannot modify the production environment configuration.
400	InvalidDomain.BelongToConfigGroup	The domain is bound to a configuration group. Modify the domain in the configuration group.	The error message returned because the domain name is bound to a configuration group. You must modify the domain name in the configuration group.

For a list of error codes, visit the API Error Center.

17.2. DescribeDcdnDomainStagingConfig

You can call this operation to query the environment configuration (phased release).

> **Note** The maximum number of times that users can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnDomainStagingConfig	The operation that you want to perform. Set the value to **DescribeDcdnDomainStagingConfig**.
DomainName	String	Yes	example.com	The name of the accelerated domain.
FunctionNames	String	Yes	aliauth	The names of the features to query. You can specify multiple features and separate them with commas (,).

Response parameters

Parameter	Type	Example	Description
DomainConfigs	Array		The configurations of accelerated domain names returned.
ConfigId	String	6295	The ID of the configuration.

Parameter	Type	Example	Description
FunctionArgs	Array		The descriptions of a feature.
ArgName	String	auth_type	The name of the configuration.
ArgValue	String	req_auth	The value of the configuration.
FunctionName	String	aliauth	The name of the feature.
Status	String	success	The status of the feature. Valid values: • success • testing • failed • configuring
RequestId	String	C80705BF-0F76-41FA-BAD1-5B59296A4E59	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=DescribeDcdnDomainStagingConfig
&DomainName=example.com
&FunctionNames=aliauth
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnDomainStagingConfigResponse>
  <RequestId>C80705BF-0F76-41FA-BAD1-5B59296A4E59</RequestId>
  <DomainConfigs>
        <Status>success</Status>
        <FunctionArgs>
              <ArgName>auth_type</ArgName>
              <ArgValue>req_auth</ArgValue>
        </FunctionArgs>
        <FunctionArgs>
              <ArgName>ali_auth_dual</ArgName>
              <ArgValue>on</ArgValue>
        </FunctionArgs>
        <ConfigId>6295</ConfigId>
        <FunctionName>aliauth</FunctionName>
  </DomainConfigs>
</DescribeDcdnDomainStagingConfigResponse>
```

`JSON` format

```
{
    "RequestId": "C80705BF-0F76-41FA-BAD1-5B59296A4E59",
    "DomainConfigs":  [{
            "Status": "success",
            "FunctionArgs": [
                {
                    "ArgName": "auth_type",
                    "ArgValue": "req_auth"
                },
                {
                    "ArgName": "ali_auth_dual",
                    "ArgValue": "on"
                }
            ],
            "ConfigId": 6295,
            "FunctionName": "aliauth"
    }]
}
```

Error codes

HttpCode	Error code	Error message	Description
400	Invalid%s.ValueNotSupported	FunctionName [%s] is not supported.	The error message returned because the specified configuration is not supported.

For a list of error codes, visit the API Error Center.

17.3. DeleteDcdnSpecificStagingConfig

You can call this operation to delete the configurations of an-accelerated domain name (phased release).

> **Note** The maximum number of times that users can call this operation per second is 20.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteDcdnSpecificStagingConfig	The operation that you want to perform. Set the value to **DeleteDcdnSpecificStagingConfig**.
ConfigId	String	Yes	2317	The ID of the configuration to be deleted. You can specify multiple configuration IDs and separate them with commas (,). You can call the DescribeDcdnDomainStagingConfig operation to query the environment configuration.
DomainName	String	Yes	example.com	The name of the accelerated domain. You can specify only one domain name.

Response parameters

Parameter	Type	Example	Description
RequestId	String	04F0F334-1335-436C-A1D7-6C044FE73368	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=DeleteDcdnSpecificStagingConfig
&DomainName=example.com
&ConfigId=2317
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DeleteDcdnSpecificStagingConfigResponse>
  <RequestId>04F0F334-1335-436C-A1D7-6C044FE73368</RequestId>
</DeleteDcdnSpecificStagingConfigResponse>
```

`JSON` format

```
{
    "RequestId": "04F0F334-1335-436C-A1D7-6C044FE73368"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	Invalid%s.ValueNotSupported	FunctionName [%s] is not supported.	The error message returned because the specified configuration is not supported.

For a list of error codes, visit the API Error Center.

17.4. PublishDcdnStagingConfigToProduction

Publishes the Dynamic Route for CDN (DCDN) configurations from the staging environment to the production environment.

> **Note** The maximum number of times that users can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	PublishDcdnStagingConfigToProduction	The operation that you want to perform. Set the value to **PublishDcdnStagingConfigToProduction**.
DomainName	String	Yes	example.com	The name of the accelerated domain. You can specify only one domain name.
FunctionName	String	Yes	aliauth	The name of the feature.

Parameter	Type	Required	Example	Description

Response parameters

Parameter	Type	Example	Description
RequestId	String	04F0F334-1335-436C-A1D7-6C044FE73368	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=PublishDcdnStagingConfigToProduction
&DomainName=example.com
&FunctionName=aliauth
&<Common request parameters>
```

Sample success responses

`XML` format

```
<PublishDcdnStagingConfigToProductionResponse>
  <RequestId>04F0F334-1335-436C-A1D7-6C044FE73368</RequestId>
</PublishDcdnStagingConfigToProductionResponse>
```

`JSON` format

```
{
    "RequestId": "04F0F334-1335-436C-A1D7-6C044FE73368"
}
```

Error codes

HttpCode	Error code	Error message	Description
404	StagingConfig.NotFound	The staging configuration does not exist.	The error message returned because the configuration does not exist in the staging environment.
400	StagingConfig.Failed	The rules for the staging environment are being configured. Try again later.	The error message returned because the rules for the staging environment are being configured.

For a list of error codes, visit the API Error Center.

17.5. RollbackDcdnStagingConfig

Rolls back the configurations from the staging environment to the production environment.

> **Note** The maximum number of times that users can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	RollbackDcdnStagingConfig	The operation that you want to perform. Set the value to **RollbackDcdnStagingConfig**.
DomainName	String	Yes	example.com	The name of the accelerated domain. You can specify only one domain name.
FunctionName	String	Yes	aliauth	The name of the feature.

Response parameters

Parameter	Type	Example	Description
RequestId	String	04F0F334-1335-436C-A1D7-6C044FE73368	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=RollbackDcdnStagingConfig
&DomainName=example.com
&FunctionNam=aliauth
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RollbackDcdnStagingConfigResponse>
  <RequestId>04F0F334-1335-436C-A1D7-6C044FE73368</RequestId>
</RollbackDcdnStagingConfigResponse>
```

`JSON` format

```
{
    "RequestId": "04F0F334-1335-436C-A1D7-6C044FE73368"
}
```

Error codes

HttpCode	Error code	Error message	Description
404	StagingConfig.NotFound	The staging configuration does not exist.	The error message returned because the configuration does not exist in the staging environment.

For a list of error codes, visit the API Error Center.

17.6. DescribeDcdnStagingIp

Queries valid virtual IP addresses (VIPs) in the staging environment.

> **Note** The maximum number of times that users can call this operation per second is 30.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameter

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnStagingIp	The operation that you want to perform. Set the value to **DescribeDcdnStagingIp**.

Response parameters

Parameter	Type	Sample response	Description
IPV4s	List	192.168.xx.xx","192.168.xx.xx	The data format that consists of IPv4 addresses.
RequestId	String	1B9E0E83-24AC-49F4-9EE0-BF5EB03E8381	The ID of the request.

Examples

Sample requests

```
https://dcdn.aliyuncs.com?&Action=DescribeDcdnStagingIp
&<Common request parameters>
```

Successful response examples

`XML` format

```
<DescribeDcdnStagingIpResponse>
  <IPV4s>
        <IPV4>192.168.xx.xx</IPV4>
        <IPV4>192.168.xx.xx</IPV4>
  </IPV4s>
  <RequestId>1B9E0E83-24AC-49F4-9EE0-BF5EB03E8381</RequestId>
</DescribeDcdnStagingIpResponse>
```

`JSON` format

```
{
     "IPV4s":{
          "IPV4":["192.168.xx.xx","192.168.xx.xx"]
              },
      "RequestId":"1B9E0E83-24AC-49F4-9EE0-BF5EB03E8381"
   }
```

Error codes

For a list of error codes, visit the API Error Center.

17.7. DescribeDcdnEsExceptionData

Queries the execution errors of scripts in EdgeScript (ES).

Note

- If you do not configure the StartTime or EndTime parameter, data collected over the last 24 hours is queried. If you configure both the StartTime and EndTime parameters, data collected within the specified time range is queried.
- You can call this operation up to 30 times per second.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnEsExceptionData	The operation that you want to perform. Set the value to **DescribeDcdnEsExceptionData**.
EndTime	String	Yes	2021-02-18T20:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0. **Note** The end time must be later than the start time.
RuleId	String	Yes	21289***	The ID of the script that you want to query. You can call the DescribeDcdnDomainConfigs operation to query script IDs.
StartTime	String	Yes	2021-02-17T20:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0.

Response parameters

Parameter	Type	Example	Description
Contents	Array of Content		The content of the script for which an error was reported.
Columns	List	time,401	The column names of the table that shows the errors of the script and the time of each data entry.
Name	String	401	The name of the table that shows the errors of the script.
Points	List	2021-02-18T19:05:00Z,0	The value of each column and the time of each data entry.
RequestId	String	87DA52FC-8E41-1E67-9B42-D3BF5C256FCD	The ID of the request.

Examples

Sample requests

```
https://dcdn.aliyuncs.com?Action=DescribeDcdnEsExceptionData&RuleId=21289654
&StartTime=2021-02-17T20:00:00Z
&RuleId=21289***
&EndTime=2021-02-18T20:00:00Z
```

Sample success responses

`XML` format

```
<DescribeDcdnEsExceptionDataResponse>
<RequestId>87DA52FC-8E41-1E67-9B42-D3BF5C256FCD</RequestId>
<content>
    <columns>time</columns>
    <columns>401</columns>
    <name>401</name>
    <points>
        <0>2021-02-18T19:07:00Z</0>
        <1>0</1>
    </points>
    <points>
        <0>2021-02-18T19:06:00Z</0>
        <1>0</1>
    </points>
    <points>
        <0>2021-02-18T19:05:00Z</0>
        <1>0</1>
    </points>
</content>
<content>
    <columns>time</columns>
    <columns>402</columns>
    <name>402</name>
    <points>
        <0>2021-02-18T19:07:00Z</0>
        <1>0</1>
    </points>
    <points>
        <0>2021-02-18T19:06:00Z</0>
        <1>0</1>
    </points>
    <points>
        <0>2021-02-18T19:05:00Z</0>
        <1>0</1>
    </points>
</content>
</DescribeDcdnEsExceptionDataResponse>
```

`JSON` format

```
{
    "RequestId": "87DA52FC-8E41-1E67-9B42-D3BF5C256FCD",
    "content": [
        {
            "columns": [
                "time",
                "401"
            ],
            "name": "401",
            "points": [
                [
                    "2021-02-18T19:07:00Z",
                    0
                ],
                [
                    "2021-02-18T19:06:00Z",
                    0
                ],
                [
                    "2021-02-18T19:05:00Z",
                    0
                ]
            ]
        },
        {
            "columns": [
                "time",
                "402"
            ],
            "name": "402",
            "points": [
                [
                    "2021-02-18T19:07:00Z",
                    0
                ],
                [
                    "2021-02-18T19:06:00Z",
                    0
                ],
                [
                    "2021-02-18T19:05:00Z",
                    0
                ]
            ]
        }
    ]
}
```


Error codes

For a list of error codes, visit the API Error Center.

17.8. DescribeDcdnEsExecuteData

Queries the execution status of scripts in EdgeScript (ES).

> **Note**
> - If you do not configure the StartTime or EndTime parameter, data collected over the last 24 hours is queried. If you configure both the StartTime and EndTime parameters, data collected within the specified time range is queried.
> - You can call this operation up to 30 times per second.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnEsExecuteData	The operation that you want to perform. Set the value to **DescribeDcdnEsExecuteData**.
EndTime	String	Yes	2021-02-18T20:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0. **Note** The end time must be later than the start time.
RuleId	String	Yes	21289***	The ID of the script that you want to query. You can call the DescribeDcdnDomainConfigs operation to query script IDs.
StartTime	String	Yes	2021-02-17T20:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0.

Response parameters

Parameter	Type	Example	Description
Contents	Array of Content		The content of the script.
Columns	List	time,Exception	The column names of the table that shows the status of the script and the time of each data entry.
Name	String	Exception	The name of the table that shows the status of the script.
Points	List	2021-02-18T19:05:00Z,8	The value of each column and the time of each data entry.
RequestId	String	87DA52FC-8E41-1E67-9B42-D3BF5C256FCD	The ID of the request.

Examples

Sample requests

```
https://dcdn.aliyuncs.com?Action=DescribeDcdnEsExecuteData&RuleId=21289654
&EndTime=2021-02-18T20:00:00Z
&RuleId=21289***
&StartTime=2021-02-17T20:00:00Z
&<Common request parameters>
```

Sample success responses

`XML` format


```
<DescribeDcdnEsExecuteDataResponse>
<RequestId>87DA52FC-8E41-1E67-9B42-D3BF5C256FCD</RequestId>
<content>
    <columns>time</columns>
    <columns>Exception</columns>
    <name>Exception</name>
    <points>
        <0>2021-02-18T19:07:00Z</0>
        <1>6</1>
    </points>
    <points>
        <0>2021-02-18T19:06:00Z</0>
        <1>6</1>
    </points>
    <points>
        <0>2021-02-18T19:05:00Z</0>
        <1>8</1>
    </points>
</content>
<content>
    <columns>time</columns>
    <columns>ExecutedAndHit</columns>
    <name>ExecutedAndHit</name>
    <points>
        <0>2021-02-18T19:07:00Z</0>
        <1>0</1>
    </points>
    <points>
        <0>2021-02-18T19:06:00Z</0>
        <1>0</1>
    </points>
    <points>
        <0>2021-02-18T19:05:00Z</0>
        <1>0</1>
    </points>
</content>
</DescribeDcdnEsExecuteDataResponse>
```


`JSON` format

```
{
    "RequestId": "87DA52FC-8E41-1E67-9B42-D3BF5C256FCD",
    "content": [
        {
            "columns": [
                "time",
                "Exception"
            ],
            "name": "Exception",
            "points": [
                [
                    "2021-02-18T19:07:00Z",
                    6
                ],
                [
                    "2021-02-18T19:06:00Z",
                    6
                ],
                [
                    "2021-02-18T19:05:00Z",
                    8
                ]
            ]
        } ,
        {
            "columns": [
                "time",
                "ExecutedAndHit"
            ],
            "name": "ExecutedAndHit",
            "points": [
                [
                    "2021-02-18T19:07:00Z",
                    0
                ],
                [
                    "2021-02-18T19:06:00Z",
                    0
                ],
                [
                    "2021-02-18T19:05:00Z",
                    0
                ]
            ]
        }
    ]
}
```


Error codes

For a list of error codes, visit the API Error Center.

18.Edge security

18.1. DescribeDcdnUserSecDrop

Queries the number of packets blocked by a specified security feature.

> **Note** The maximum number of times that users can call this operation per second is 50.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnUserSecDrop	The operation that you want to perform. Set the value to **DescribeDcdnUserSecDrop**.
Data	String	Yes	20201203	The date or month that you want to query. • If data is collected every day, set the date in the format of yyyymmdd, such as 20201203. • If data is collected every month, set the month in the format of yyyymm, such as 202012.
Metric	String	Yes	1day	The time interval at which data is collected. • If data is collected every day, the number of blocked packets on the specified day is calculated. • If data is collected every month, the number of blocked packets in the specified month is calculated.
SecFunc	String	Yes	waf	The security feature. Valid values: • waf: WAF • tmd: rate limiting • robot: bot traffic recognition • l4_dm_drop: domain name blocking on Layer 4

Response parameters

Parameter	Type	Example	Description
Drops	Integer	233023208	The number of packets that are blocked.
Msg	String	Found	Indicates whether the information is found. • Found: yes • Not Found: no
RequestId	String	4A1295C0-7A5C-4F27-8D70-C3A648E7037F	The ID of the request.

Parameter	Type	Example	Description
UuidStr	String	1day10811******6429wafDCDN	The character string that is concatenated based on the request parameters and is used to locate causes when data is not found.

Examples

Sample requests

```
http://cdn.aliyuncs.com?Action=DescribeDcdnUserSecDrop
&SecFunc=waf
&Metric=1day
&Data=20201203
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>4A1295C0-7A5C-4F27-8D70-C3A648E7037F</RequestId>
<Msg>Found</Msg>
<Drops>233023208</Drops>
<UuidStr>1day10811******6429wafDCDN</UuidStr>
```

`JSON` format

```
{
    "RequestId": "4A1295C0-7A5C-4F27-8D70-C3A648E7037F",
    "Msg": "Found",
    "Drops": 233023208,
    "UuidStr": "1day10811******6429wafDCDN"
}
```

Error codes

For a list of error codes, visit the API Error Center.

18.2. DescribeDcdnWafDomain

Queries domain names that have Web Application Firewall (WAF) enabled and the relevant information, including the status of the access control list (ACL), protection against HTTP flood attacks, domain name configuration, and service activation.

> **Note** The maximum number of times that users can call this operation per second is 150.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnWafDomain	The operation that you want to perform. Set the value to **DescribeDcdnWafDomain**.
RegionId	String	Yes	cn-hangzhou	The region where WAF is enabled.

Parameter	Type	Required	Example	Description
DomainName	String	No	example.com	The accelerated domain names. If you do not specify an accelerated domain name, all accelerated domain names are queried.

Response parameters

Parameter	Type	Example	Description
OutPutDomains	Array of OutPutDomain		The information about the accelerated domain name. Valid values:
AclStatus	Integer	1	The status of the ACL. • 0: disabled • 1: enabled
CcStatus	Integer	1	The status of protection against HTTP flood attacks. Valid values: • 0: disabled • 1: enabled
Domain	String	example.com	The domain names that have WAF enabled.
Status	Integer	1	The status of the domain name. Valid values: • 1: The domain name is added to WAF, or the domain name is valid • 10: The domain name is being added to WAF • 11: The domain name failed to be added to WAF
WafStatus	Integer	1	The status of WAF. Valid values: • 0: disabled • 1: enabled
RequestId	String	CB1A380B-09F0-41BB-802B-72F8FD6DA2FE	The ID of the request.
TotalCount	Integer	1	The number of accelerated domain names returned.

Examples

Sample requests

```
http://dcdn.aliyuncs.com?Action=DescribeDcdnWafDomain
&DomainName=example.com
&RegionId=cn-hangzhou
&<Common request parameters>|
```

Sample success responses

`XML` format

```
<TotalCount>1</TotalCount>
<OutputDomains>
    <AclStatus>1</AclStatus>
    <CcStatus>1</CcStatus>
    <Domain>example.com</Domain>
    <Status>1</Status>
    <WafStatus>1</WafStatus>
</OutputDomains>
<RequestId>CB1A380B-09F0-41BB-802B-72F8FD6DA2FE</RequestId>
```

`JSON` format

```
{
  "TotalCount": 1,
  "OutputDomains": [
    {
      "AclStatus": 1,
      "CcStatus": 1,
      "Domain": "example.com",
      "Status": 1,
      "WafStatus": 1
    }
  ],
  "RequestId": "CB1A380B-09F0-41BB-802B-72F8FD6DA2FE"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	InvalidParameter	The specified parameter is invalid.	The error message returned because a parameter is set to an invalid value.
400	InvalidDomainName	The specified DomainName is invalid.	The error message returned because DomainName is set to an invalid value. Specify a valid value.
404	InvalidDomain.NotFound	The specified domain does not exist.	The error message returned because the specified domain name does not exist.

For a list of error codes, visit the API Error Center.

18.3. DescribeDcdnSecFuncInfo

Creates an edge security drop-down list in the Dynamic Route for CDN (DCDN) console.

> **Note** The maximum number of times that users can call this operation per second is 50.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnSecFuncInfo	The operation that you want to perform. Set the value to **DescribeDcdnSecFuncInfo**.

Parameter	Type	Required	Example	Description
Lang	String	Yes	en	The language. Valid values: en and zh. Default value: en.
SecFuncType	String	Yes	RobotRuleName	The type of the drop-down list. Valid values: RobotRuleName and RobotObject.

Response parameters

Parameter	Type	Example	Description
Content	Array of Content		The parameters required by the code.
Label	String	ai_defense	The language (Chinese or English).
Value	String	ai_defense	The options in the drop-down list.
Description	String	OK	The description of HTTP responses.
HttpStatus	String	200	The HTTP status code.
RequestId	String	30A3A25A-86B3-4C1D-BAA8-12B8607A5CFD	The ID of the request.
RetCode	String	0	The return value for HTTP requests. • 0: OK. • Values other than 0: an error.

Example

Sample requests

```
http://cdn.aliyuncs.com?Action=DescribeDcdnSecFuncInfo
&SecFuncType=RobotRuleName
&Lang=en
&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>30A3A25A-86B3-4C1D-BAA8-12B8607A5CFD</RequestId>
<Content>
    <Label>ai_defense</Label>
    <Language>en</Language>
    <Value>ai_defense</Value>
</Content>
<Content>
    <Label>legal_spiders</Label>
    <Language>en</Language>
    <Value>legal_spiders</Value>
</Content>
<Content>
    <Label>threat_intelligence</Label>
    <Language>en</Language>
    <Value>threat_intelligence</Value>
</Content>
<Description>OK</Description>
<RetCode>0</RetCode>
<HttpStatus>200</HttpStatus>
```

`JSON` format

```
{
    "RequestId":"30A3A25A-86B3-4C1D-BAA8-12B8607A5CFD",
    "Content":[
     {
        "Label": "ai_defense",
        "Language": "en",
        "Value": "ai_defense"
      },
      {
        "Label": "legal_spiders",
        "Language": "en",
        "Value": "legal_spiders"
      },
      {
        "Label": "threat_intelligence",
        "Language": "en",
        "Value": "threat_intelligence"
      }
    ],
    "Description":"OK",
    "RetCode":"0",
    "HttpStatus":"200"
}
```

Error codes

For a list of error codes, visit the API Error Center.

18.4. DescribeDcdnUserSecDropByMinute

Queries the number of packets that are blocked by a security feature on the application layer during a specified time range.

> **Note** The maximum number of times that users can call this operation per second is 50.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnUserSecDropByMinute	The operation that you want to perform. Set the value to **DescribeDcdnUserSecDropByMinute**.
Lang	String	Yes	zh	The language. Valid values: en and zh. Default value: en
SecFunc	String	Yes	robot	The name of the security feature.
RuleName	String	No	robot_ai	The rule that was triggered.
Object	String	No	robot_fingerprint_ai	The object that triggered the rule.
DomainName	String	No	example.com	The domain name.
StartTime	String	No	2006-01-02T15:04:04Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0. Example: 2006-01-02T15:04:04Z.
EndTime	String	No	2006-01-02T15:05:04Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0. Example: 2006-01-02T15:05:04Z. **Note** The end time must be later than the start time.
PageSize	Long	No	2	The number of entries to return on each page. Maximum value: 100.
PageNumber	Long	No	10	The number of the page to return. Pages start from page 1.

Response parameters

Parameter	Type	Example	Description
Description	String	OK	The description of HTTP responses.
Len	Integer	2	The total number of entries returned.
PageNumber	Integer	10	The number of the returned page.
PageSize	Integer	2	The number of entries returned on each page.
RequestId	String	8143fA8A-B2B2-4915-538D-546B538D25FA	The ID of the request.
Rows	Array of Rows		The array returned.

Parameter	Type	Example	Description
Domain	String	example.com	The domain name.
Drops	Integer	264	The number of packets blocked within 5 minutes.
Object	String	Normal Mode	The object that triggered the rule.
RuleName	String	Normal Mode	The rule that is triggered.
SecFunc	String	robot	The security feature that blocked the packets.
TmStr	String	2021-01-31T15:04:04Z	The beginning of the time range that was queried. The time follows the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time is in UTC+0.
TotalCount	Integer	5738	The total number of entries returned.

Example

Sample requests

```
http://cdn.aliyuncs.com?Action=DescribeDcdnUserSecDropByMinute
&SecFunc="robot"
&RuleName="robot_ai"
&Object="robot_fingerprint_ai"
&DomainName="example.com"
&StartTime="2006-01-02T15:04:04Z"
&EndTime="2006-01-02T15:05:04Z"
&PageSize=2
&PageNumber=10
&Lang="zh"
&<Common request parameters>
```

Sample success responses

`XML` format

```
<TotalCount>5738</TotalCount>
<PageSize>2</PageSize>
<PageNumber>10</PageNumber>
<Len>2</Len>
<Rows>
    <RuleName>Normal Mode</RuleName>
    <Object>Normal Mode</Object>
    <SecFunc>robot</SecFunc>
    <TmStr>2021-01-31T15:04:04Z</TmStr>
    <Domain>example.com</Domain>
    <Drops>164</Drops>
</Rows>
<Rows>
    <RuleName>Normal Mode</RuleName>
    <Object>Normal Mode</Object>
    <SecFunc>robot</SecFunc>
    <TmStr>2021-01-31T15:04:04Z</TmStr>
    <Domain>example.com</Domain>
    <Drops>264</Drops>
</Rows>
```

`JSON` format

```
{
    "TotalCount":5738,
    "PageSize": 2,
    "PageNumber": 10,
    "Len": 2,
    "Rows": [
        {
            "RuleName": "Normal Mode",
            "Object": "Normal Mode",
            "SecFunc": "robot",
            "TmStr": "2021-01-31T15:04:04Z",
            "Domain": "example.com",
            "Drops": 164
        },
        {
            "RuleName": "Normal Mode",
            "Object": "Normal Mode",
            "SecFunc": "robot",
            "TmStr": "2021-01-31T15:04:04Z",
            "Domain": "example.com",
            "Drops": 264
        }
    ],
    "Description": "OK",
    "RequestId": "8143fA8A-B2B2-4915-538D-546B538D25FA"
}
```

Error codes

For a list of error codes, visit the API Error Center.

18.5. DescribeDcdnBlockedRegions

Queries countries and regions that can be added to the blacklist.

> **Note** The maximum number of times that users can call this operation per second is 50.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameter

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnBlockedRegions	The operation that you want to perform. Set the value to **DescribeDcdnBlockedRegions**.
Language	String	Yes	zh	The language. Valid values: zh, en, and jp.

Response parameters

Parameter	Type	Example	Description
InfoList	Array of InfoItem		The information about the country or region.
InfoItem			
Continent	String	Middle East	The district to which the country or region belongs.
CountriesAndRegions	String	AE	The abbreviation of the name of the country or region.
CountriesAndRegionsName	String	United Arab Emirates	The name of the country or region.
RequestId	String	BFFCDFAD-DACC-484E-9BE6-0AF3B3A0DD23	The ID of the request.

Examples

Sample requests

```
https://dcdn.aliyuncs.com?Action=DescribeDcdnBlockedRegions&Language=zh&<Common request parameters>
```

Sample success responses

`XML` format

```
<RequestId>BFFCDFAD-DACC-484E-9BE6-0AF3B3A0DD23</RequestId>
<InfoList>
    <InfoItem>
        <Continent>Middle East</Continent>
        <CountriesAndRegionsName>United Arab Emirates</CountriesAndRegionsName>
        <CountriesAndRegions>AE</CountriesAndRegions>
    </InfoItem>
</InfoList>
```

`JSON` format

```
{
    "RequestId": "BFFCDFAD-DACC-484E-9BE6-0AF3B3A0DD23",
    "InfoList": {
        "InfoItem": {
            "Continent": "Middle East",
            "CountriesAndRegionsName": "United Arab Emirates",
            "CountriesAndRegions": "AE"
        }
    }
}
```

Error codes

HttpCode	Error code	Error message	Description
400	MissingParameter	You must specify ArgValue.	The error message returned because one or more required parameters are not set.
400	InvalidParameter	The specified parameter is invalid.	The error message returned because a parameter is set to an invalid value.

For a list of error codes, visit the API Error Center.

18.6. DescribeDcdnUserConfigs

Queries the configurations of security features.

Description

You can call this operation up to 30 times per second per account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnUserConfigs	The operation that you want to perform. Set the value to **DescribeDcdnUserConfigs**.
FunctionName	String	Yes	domain_business_control	The configuration that you want to query. Valid values: • domain_business_control: user configurations • bot_basic: the basic edition of bot traffic management, which supports authorized crawlers and provides threat intelligence • bot_Advance: the advanced edition of bot traffic management, which supports authorized crawlers and AI intelligent protection and provides threat intelligence

Response parameters

Parameter	Type	Example	Description
RequestId	String	06D29681-B7CD-4034-A8CC-28AFFA213539	The ID of the request.

Parameter	Type	Example	Description
Configs	Array of Config		The user configurations.
ArgValue	String	{\"scdn_allow\": [\"cc_rule\",\"ddos_dispatch\"]}	The value of the configuration. Valid values: • cc_rule: HTTP flood protection • ddos_dispatch: DDoS mitigation • edge_safe: application security on edge nodes • blocked_regions: region blacklist • http_acl_policy: precise access control • bot_manager: bot traffic management • ip_reputation: IP reputation library
ArgName	String	allow_function	The name of the configuration. The configuration that is specified by enterprise users and public service sectors.
FunctionName	String	domain_business_control	The configuration returned.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnUserConfigs
&FunctionName=domain_business_control
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnUserConfigsResponse>
    <RequestId>06D29681-B7CD-4034-A8CC-28AFFA213539</RequestId>
    <Configs>
        <FunctionName>domain_business_control</FunctionName>
        <ArgValue>{"scdn_allow":["cc_rule","ddos_dispatch"]}</ArgValue>
        <ArgName>allow_function</ArgName>
    </Configs>
</DescribeDcdnUserConfigsResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "06D29681-B7CD-4034-A8CC-28AFFA213539",
  "Configs" : [ {
    "FunctionName" : "domain_business_control",
    "ArgValue" : "{\"scdn_allow\":[\"cc_rule\",\"ddos_dispatch\"]}",
    "ArgName" : "allow_function"
  } ]
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidArgValue.Malformed	The specified ArgValue is invalid.	The error message returned because the value specified for the ArgValue parameter is invalid. Specify a valid value.
400	InvalidArgName.ValueNotSupported	%s	The error message returned because the value specified for the %s parameter is invalid.

For a list of error codes, visit the API Error Center.

18.7. WAF protection (new edition)

18.7.1. DescribeDcdnWafSpecInfo

Queries the version of Web Application Firewall (WAF) used in Dynamic Route for CDN.

Description

You can call this operation up to 20 times per second per account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnWafSpecInfo	The operation that you want to perform. Set the value to **DescribeDcdnWafSpecInfo**.

Response parameters

Parameter	Type	Example	Description
Edition	String	dcdnwaf_afterpay	The version of WAF.
RequestId	String	7281593a-f414-42c1-b7ba-2ce65e21cc00	The ID of the request.
SpecInfos	Array of RuleInfoItem		The supported types of protection policies and the configuration information of protection rules.
DefenseScene	String	custom_acl	The type of the protection policy. Valid values: • waf_group: basic web protection • custom_acl: custom • whitelist: whitelist
Configs	Array of ConfigItem		The configuration information of the protection rule.
Value	String	on	The value of the configuration expression of the protection rule.

Parameter	Type	Example	Description
Config	String	enable	The configuration code of the protection rule.
Expr	String	equal	The configuration expression of the protection rule.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnWafSpecInfo
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnWafSpecInfoResponse>
    <RequestId>7281593a-f414-42c1-b7ba-2ce65e21cc00</RequestId>
    <Edition>dcdnwaf_afterpay</Edition>
    <SpecInfos>
        <DefenseScene>custom_acl</DefenseScene>
        <Configs>
            <Config>enable</Config>
            <Expr>equal</Expr>
            <Value>on</Value>
        </Configs>
        <Configs>
            <Code>custom_rules_number</Code>
            <Expr>equal</Expr>
            <Value>20</Value>
        </Configs>
    </SpecInfos>
    <SpecInfos>
        <DefenseScene>waf_group</DefenseScene>
        <Configs>
            <Config>enable</Config>
            <Expr>equal</Expr>
            <Value>on</Value>
        </Configs>
    </SpecInfos>
    <SpecInfos>
        <DefenseScene>whitelist</DefenseScene>
        <Configs>
            <Config>enable</Config>
            <Expr>equal</Expr>
            <Value>on</Value>
        </Configs>
        <Configs>
            <Config>custom_rules_number</Config>
            <Expr>equal</Expr>
            <Value>20</Value>
        </Configs>
    </SpecInfos>
</DescribeDcdnWafSpecInfoResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "7281593a-f414-42c1-b7ba-2ce65e21cc00",
  "Edition" : "dcdnwaf_afterpay",
  "SpecInfos" : [ {
    "DefenseScene" : "custom_acl",
    "Configs" : [ {
      "Config" : "enable",
      "Expr" : "equal",
      "Value" : "on"
    }, {
      "Code" : "custom_rules_number",
      "Expr" : "equal",
      "Value" : "20"
    } ]
  }, {
    "DefenseScene" : "waf_group",
    "Configs" : [ {
      "Config" : "enable",
      "Expr" : "equal",
      "Value" : "on"
    } ]
  }, {
    "DefenseScene" : "whitelist",
    "Configs" : [ {
      "Config" : "enable",
      "Expr" : "equal",
      "Value" : "on"
    }, {
      "Config" : "custom_rules_number",
      "Expr" : "equal",
      "Value" : "20"
    } ]
  } ]
}
```

Error codes

For a list of error codes, visit the API Error Center.

18.7.2. DescribeDcdnWafScenes

Queries the information about the type of the protection policy that you use.

Description

You can call this operation up to 20 times per second per account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnWafScenes	The operation that you want to perform. Set the value to **DescribeDcdnWafScenes**.

Parameter	Type	Required	Example	Description
DefenseScenes	String	No	waf_group,custom_acl,whitelist	The types of the protection policies that you want to query. Separate multiple types with commas (,). Valid values: • waf_group: basic web protection • custom_acl: custom • whitelist: whitelist **Note** If you do not set this parameter, all types are queried.

Response parameters

Parameter	Type	Example	Description
RequestId	String	3D7BB13C-DD84-5654-A835-B8E1385DE274	The ID of the request.
DefenseScenes	Array of DefenseSceneItem		The types of the protection policies.
PolicyCount	Integer	10	The total number of policies of this type that were configured.
RuleCount	Integer	12	The total number of protection rules that were configured in this type of the policy.
DefenseScene	String	waf_group	The type of the protection policy, which is the same as the DefenseScenes parameter in request parameters.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnWafScenes
&DefenseScenes=waf_group,custom_acl,whitelist
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnWafScenesResponse>
    <DefenseScenes>
        <DefenseScene>waf_group</DefenseScene>
        <RuleCount>12</RuleCount>
        <PolicyCount>10</PolicyCount>
    </DefenseScenes>
    <DefenseScenes>
        <DefenseScene>custom_acl</DefenseScene>
        <RuleCount>5</RuleCount>
        <PolicyCount>10</PolicyCount>
    </DefenseScenes>
    <DefenseScenes>
        <DefenseScene>whitelist</DefenseScene>
        <RuleCount>5</RuleCount>
        <PolicyCount>10</PolicyCount>
    </DefenseScenes>
    <requestId>3D7BB13C-DD84-5654-A835-B8E1385DE274</requestId>
</DescribeDcdnWafScenesResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "DefenseScenes" : [ {
    "DefenseScene" : "waf_group",
    "RuleCount" : 12,
    "PolicyCount" : 10
  }, {
    "DefenseScene" : "custom_acl",
    "RuleCount" : 5,
    "PolicyCount" : 10
  }, {
    "DefenseScene" : "whitelist",
    "RuleCount" : 5,
    "PolicyCount" : 10
  } ],
  "requestId" : "3D7BB13C-DD84-5654-A835-B8E1385DE274"
}
```

Error codes

For a list of error codes, visit the API Error Center.

18.7.3. DescribeDcdnWafDomains

Queries the accelerated domain names that are protected by Web Application Firewall (WAF). Fuzzy search is supported.

Description

You can call this operation up to 20 times per second per account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnWafDomains	The operation that you want to perform. Set the value to **DescribeDcdnWafDomains**.
QueryArgs	String	No	{"DomainName":"example.com"}	The query conditions. You can filter domain names by name. Fuzzy match is supported `QueryArgs={"DomainName":"Accelerated domain name"}`
PageNumber	Integer	No	1	The number of the page to return. Valid values: **1** to **100000**. Default value: **1**.
PageSize	Integer	No	20	The number of domain names to return per page. Valid values: an integer from **1** to **500**. Default value: **20**.

Response parameters

Parameter	Type	Example	Description
PageSize	Integer	20	The number of domain names returned per page, which is the same as the PageSize parameter in request parameters.
RequestId	String	153ca2cd-3c01-44be-b408-64dbc6c88630	The ID of the request.
PageNumber	Integer	1	The page number of the returned page, which is the same as the PageNumber parameter in request parameters.
TotalCount	Integer	15	The total number of protected domain names.
Domains	Array of DomainItem		The protected domain names.
DomainName	String	example.com	The protected domain name.
PolicyCount	Integer	3	The number of protection policies that were configured for the protected domain name.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnWafDomains
&QueryArgs={"DomainName":"example.com"}
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnWafDomainsResponse>
    <RequestId>153ca2cd-3c01-44be-b408-64dbc6c88630</RequestId>
    <TotalCount>15</TotalCount>
    <Domains>
        <DomainName>example.com</DomainName>
        <PolicyCount>3</PolicyCount>
    </Domains>
    <Domains>
        <DomainName>example2.com</DomainName>
        <policyCount>3</policyCount>
    </Domains>
    <PageNumber>1</PageNumber>
    <PageSize>20</PageSize>
</DescribeDcdnWafDomainsResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "153ca2cd-3c01-44be-b408-64dbc6c88630",
  "TotalCount" : 15,
  "Domains" : [ {
    "DomainName" : "example.com",
    "PolicyCount" : 3
  }, {
    "DomainName" : "example2.com",
    "policyCount" : 3
  } ],
  "PageNumber" : 1,
  "PageSize" : 20
}
```

Error codes

For a list of error codes, visit the API Error Center.

18.7.4. DescribeDcdnWafPolicyDomains

Queries the accelerated domain names that are protected by a specified Web Application Firewall (WAF) protection policy.

Description

You can call this operation up to 20 times per second per account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnWafPolicyDomains	The operation that you want to perform. Set the value to **DescribeDcdnWafPolicyDomains**.
PolicyId	Long	Yes	100001	The ID of the protection policy. You can specify only one ID in each request.

Parameter	Type	Required	Example	Description
PageNumber	Integer	No	1	The number of the page to return. Valid values: **1** to **100000**. Default value: **1**.
PageSize	Integer	No	20	The number of domain names to return per page. Valid values: an integer from **1** to **500**. Default value: **20**.

Response parameters

Parameter	Type	Example	Description
PageSize	Integer	20	The number of domain names returned per page, which is the same as the PageSize parameter in request parameters.
RequestId	String	153ca2cd-3c01-44be-b480-64dbc6c88630	The ID of the request.
PageNumber	Integer	1	The page number of the returned page, which is the same as the PageNumber parameter in request parameters.
TotalCount	Integer	2	The total number of domain names returned.
Domains	Array of DomainItem		The accelerated domain names.
DomainName	String	example.com	The accelerated domain name that was protected by the specified protection policy.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnWafPolicyDomains
PolicyId=100001
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnWafPolicyDomainsResponse>
    <RequestId>153ca2cd-3c01-44be-b480-64dbc6c88630</RequestId>
    <PageNumber>1</PageNumber>
    <PageSize>20</PageSize>
    <TotalCount>2</TotalCount>
    <Domains>
        <DomainName>example.com</DomainName>
    </Domains>
    <Domains>
        <DomainName>example2.com</DomainName>
    </Domains>
</DescribeDcdnWafPolicyDomainsResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "153ca2cd-3c01-44be-b480-64dbc6c88630",
  "PageNumber" : 1,
  "PageSize" : 20,
  "TotalCount" : 2,
  "Domains" : [ {
    "DomainName" : "example.com"
  }, {
    "DomainName" : "example2.com"
  } ]
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidParameter	The specified parameter is invalid.	The error message returned because the specified parameter value is invalid.

For a list of error codes, visit the API Error Center.

18.7.5. CreateDcdnWafPolicy

Creates a Web Application Firewall (WAF) protection policy.

Description

- You can call this operation up to 20 times per second per account.
- Alibaba Cloud Dynamic Route for CDN (DCDN) supports POST requests.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateDcdnWafPolicy	The operation that you want to perform. Set the value to **CreateDcdnWafPolicy**.
PolicyName	String	Yes	policy_test	The name of the protection policy. The name can be up to 64 characters in length and can contain letters, digits, and underscores (_).
PolicyType	String	Yes	default	Specifies whether to set the current policy as the default policy. Valid values: • default: sets the current policy as the default policy. • custom: does not set the current policy as the default policy.

Parameter	Type	Required	Example	Description
PolicyStatus	String	Yes	on	The status of the protection policy. Valid values: • on: enabled • off: disabled
DefenseScene	String	Yes	waf_group	The type of the WAF protection policy. Valid values: • waf_group: basic web protection • custom_acl: custom • whitelist: whitelist

Response parameters

Parameter	Type	Example	Description
PolicyId	Long	10000001	The ID of the protection policy that you created.
RequestId	String	CB1A380B-09F0-41BB-A198-72F8FD6DA2FE	The ID of the request.

Examples

Sample requests

```
curl -XPOST 'https://dcdn.aliyuncs.com/?Action=CreateDcdnWafPolicy
&PolicyName=policy_test
&PolicyType=default
&PolicyStatus=on
&DefenseScene=waf_group
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<CreateDcdnWafPolicyResponse>
    <PolicyId>10000001</PolicyId>
    <RequestId>CB1A380B-09F0-41BB-A198-72F8FD6DA2FE</RequestId>
</CreateDcdnWafPolicyResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "PolicyId" : 10000001,
  "RequestId" : "CB1A380B-09F0-41BB-A198-72F8FD6DA2FE"
}
```

Error codes

HTTP status code	Error code	Error message	Description

HTTP status code	Error code	Error message	Description
400	InvalidParameter	The specified parameter is invalid.	The error message returned because the specified parameter value is invalid.
400	Policy.DefaultExisted	The default policy is existed in specified defense scene.	The error message returned because the default policy already exists for the specified protection scenario.
400	PolicyName.AlreadyExists	The specified policy name already exists.	The error message returned because the specified policy name already exists.
500	InternalError	An internal error occurred; please try again later.	The error message returned because an internal error occurred. Try again later. If the error persists, submit a ticket.

For a list of error codes, visit the API Error Center.

18.7.6. DescribeDcdnWafPolicies

Queries the details of the Web Application Firewall (WAF) protection policies that you configured.

Description

You can call this operation up to 20 times per second per account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnWafPolicies	The operation that you want to perform. Set the value to **DescribeDcdnWafPolicies**.

Parameter	Type	Required	Example	Description
QueryArgs	String	No	{"PolicyNameLlike":"test_policy"}	The query conditions. The value is a string in the JSON format. Format: `QueryArgs={"PolicyIds":"The ID of the proteuleIds":"Thection policy","R range of protection rule IDs","PolicyNameLike":"The name of the protection policy","DomainNames":"The protected domain names","PolicyType":"default","Defense Scenes":"waf_group","PolicyStatus":"on","OrderBy":"GmtModified","Desc":"false"}` **Note** If you do not set this parameter, all protection policies are queried.
PageNumber	Integer	No	1	The number of the page to return. Valid values: **1** to **100000**. Default value: **1**.
PageSize	Integer	No	20	The number of protection policies to return per page. Valid values: an integer from **1** to **500**. Default value: **20**.

Fields in the QueryArgs parameter

Field	Type	Required	Example	Description
PolicyIds	string	No	10000001,10000002	The IDs of protection policies. Separate multiple IDs with commas (,). Only exact search is supported.
RuleIds	string	No	20000001,20000055	The IDs of protection rules. Separate multiple IDs with commas (,). Only exact search is supported.

Field	Type	Required	Example	Description
PolicyNameLike	string	No	policy_test	The name of the protection policy. Fuzzy search is supported. The name can be up to 64 characters in length and can contain letters, digits, and underscores (_).
DomainNames	string	No	example.com	The protected domain names. You can specify up to 50 domain names. Separate multiple domain names with commas (,). Only exact search is supported.
PolicyType	string	No	default	Specifies whether the protection policy is the default policy. Valid values: default: The protection policy is the default policy. custom: The protection policy is not the default policy.
DefenseScenes	string	No	custom_acl	The types of the protection policies. Separate multiple types with commas (,). Only exact search is supported. Valid values: waf_group: basic web protection custom_acl: custom whitelist: whitelist
PolicyStatus	string	No	on	The status of the policy. on: enabled off: disabled
OrderBy	string	No	GmtModified	Specifies a field that is used to sort query results. Valid values: GmtModified, PolicyId, PolicyName, and PolicyStatus.

Field	Type	Required	Example	Description
Desc	Boolean	No	false	The display order of the query results. Default value: false. true: reverse chronological order false: chronological order

Response parameters

Parameter	Type	Example	Description
PageSize	Integer	20	The number of protection policies returned per page. Valid values: an integer from **1** to **500**. Default value: **20**.
RequestId	String	153ca2cd-3c01-44be-2e83-64dbc6c88630	The ID of the request.
PageNumber	Integer	1	The page number of the returned page. Valid values: **1** to **100000**. Default value: **1**.
TotalCount	Integer	15	The total number of protection policies.
Policies	Array of PolicyItem		The protection policies.
PolicyStatus	String	on	The status of the protection policy, which is the same as the PolicyStatus field in the QueryArgs parameter in request parameters.
DefenseScene	String	custom_acl	The type of the protection policy, which is the same as the DefenseScenes field in the QueryArgs parameter in request parameters.
DomainCount	Integer	22	The number of domain names that use this protection policy.
PolicyName	String	policy_test	The name of the protection policy.
PolicyId	Long	100001	The ID of the protection policy.
RuleCount	Long	9	The number of protection rules in this protection policy.
GmtModified	String	2021-12-29T17:08:45Z	The time when the protection policy was modified. The time follows the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time is displayed in UTC.
PolicyType	String	default	Indicates whether this protection policy is the default policy, which is the same as the PolicyType field in the QueryArgs parameter in request parameters.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeDcdnWafPolicies
&QueryArgs={"PolicyNameLIike":"test_policy"}
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnWafPoliciesResponse>
    <RequestId>153ca2cd-3c01-44be-2e83-64dbc6c88630</RequestId>
    <TotalCount>15</TotalCount>
    <Policies>
        <GmtModified>2021-12-29T17:08:45Z</GmtModified>
        <PolicyId>100001</PolicyId>
        <PolicyName>policy_test</PolicyName>
        <PolicyType>default</PolicyType>
        <PolicyStatus>on</PolicyStatus>
        <DomainCount>22</DomainCount>
        <RuleCount>9</RuleCount>
        <DefenseScene>custom_acl</DefenseScene>
    </Policies>
    <Policies>
        <GmtModified>2021-12-29T17:09:45Z</GmtModified>
        <PolicyId>100002</PolicyId>
        <PolicyName>policy_test2</PolicyName>
        <PolicyType>custom</PolicyType>
        <PolicyStatus>off</PolicyStatus>
        <DomainCount>25</DomainCount>
        <RuleCount>10</RuleCount>
        <DefenseScene>waf_group</DefenseScene>
    </Policies>
    <PageNumber>1</PageNumber>
    <PageSize>20</PageSize>
</DescribeDcdnWafPoliciesResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "153ca2cd-3c01-44be-2e83-64dbc6c88630",
  "TotalCount" : 15,
  "Policies" : [ {
    "GmtModified" : "2021-12-29T17:08:45Z",
    "PolicyId" : 100001,
    "PolicyName" : "policy_test",
    "PolicyType" : "default",
    "PolicyStatus" : "on",
    "DomainCount" : 22,
    "RuleCount" : 9,
    "DefenseScene" : "custom_acl"
  }, {
    "GmtModified" : "2021-12-29T17:09:45Z",
    "PolicyId" : 100002,
    "PolicyName" : "policy_test2",
    "PolicyType" : "custom",
    "PolicyStatus" : "off",
    "DomainCount" : 25,
    "RuleCount" : 10,
    "DefenseScene" : "waf_group"
  } ],
  "PageNumber" : 1,
  "PageSize" : 20
}
```

Error codes

For a list of error codes, visit the API Error Center.

18.7.7. DescribeDcdnWafPolicy

Queries the details of a protection policy.

Description

You can call this operation up to 20 times per second per account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnWafPolicy	The operation that you want to perform. Set the value to **DescribeDcdnWafPolicy**.
PolicyId	Long	Yes	1000001	The ID of the protection policy. You can specify only one ID in each request.

Response parameters

Parameter	Type	Example	Description
RequestId	String	66A98669-CC6E-4F3E-80A6-3014697B11AE	The ID of the request.

Parameter	Type	Example	Description
Policy	Object		The information about the protection policy.
PolicyStatus	String	on	The status of the protection policy. Valid values: • on • off
DefenseScene	String	waf_group	The type of the protection policy. Valid values: • waf_group: basic web protection • custom_acl: custom • whitelist: whitelist
DomainCount	Integer	22	The number of domain names that use the protection policy.
PolicyName	String	policy_test	The name of the protection policy.
PolicyId	Long	100001	The ID of the protection policy.
RuleCount	Long	9	The number of protection rules in the protection policy.
GmtModified	String	2021-12-29T17:08:45Z	The time when the protection policy was modified. The time follows the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time is displayed in UTC.
PolicyType	String	default	Indicates whether the current policy is the default policy. Valid values: • default: The current policy is the default policy. • custom: The current policy is not the default policy.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnWafPolicy
&PolicyId=1000001
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnWafPolicyResponse>
    <Policy>
        <GmtModified>2021-12-29T17:08:45Z</GmtModified>
        <PolicyId>100001</PolicyId>
        <PolicyName>policy_test</PolicyName>
        <PolicyType>default</PolicyType>
        <PolicyStatus>on</PolicyStatus>
        <DomainCount>22</DomainCount>
        <RuleCount>9</RuleCount>
        <DefenseScene>waf_group</DefenseScene>
    </Policy>
    <RequestId>66A98669-CC6E-4F3E-80A6-3014697B11AE</RequestId>
</DescribeDcdnWafPolicyResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "Policy" : {
    "GmtModified" : "2021-12-29T17:08:45Z",
    "PolicyId" : 100001,
    "PolicyName" : "policy_test",
    "PolicyType" : "default",
    "PolicyStatus" : "on",
    "DomainCount" : 22,
    "RuleCount" : 9,
    "DefenseScene" : "waf_group"
  },
  "RequestId" : "66A98669-CC6E-4F3E-80A6-3014697B11AE"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidParameter	The specified parameter is invalid.	The error message returned because the specified parameter value is invalid.

For a list of error codes, visit the API Error Center.

18.7.8. ModifyDcdnWafPolicy

Changes the name or the status of a protection policy.

Description

- You can call this operation up to 20 times per second per account.
- Alibaba Cloud Dynamic Route for CDN (DCDN) supports POST requests.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyDcdnWafPolicy	The operation that you want to perform. Set the value to **ModifyDcdnWafPolicy**.
PolicyId	Long	Yes	1000001	The ID of the protection policy that you want to modify. You can specify only one ID in each request.
PolicyName	String	No	policy_test	The new name of the protection policy. **Note** You must specify PolicyName or PolicyStatus.
PolicyStatus	String	No	on	The new status of the protection policy. Valid values: • **on** • **off** **Note** You must specify PolicyName or PolicyStatus.

Response parameters

Parameter	Type	Example	Description
RequestId	String	CB1A380B-09F0-41BB-C730-72F8FD6DA2FE	The ID of the request.

Examples

Sample requests

```
curl -XPOST 'https://dcdn.aliyuncs.com/?Action=ModifyDcdnWafPolicy
&PolicyId=1000001
&PolicyName=policy_test
&PolicyStatus=on
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ModifyDcdnWafPolicyResponse>
    <RequestId>CB1A380B-09F0-41BB-C730-72F8FD6DA2FE</RequestId>
</ModifyDcdnWafPolicyResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "CB1A380B-09F0-41BB-C730-72F8FD6DA2FE"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidParameter	The specified parameter is invalid.	The error message returned because the specified parameter value is invalid.
400	Policy.NotExist	The specified policy does not exist.	The error message returned because the specified protection policy does not exist.
400	PolicyName.AlreadyExists	The specified policy name already exists.	The error message returned because the specified policy name already exists.
500	InternalError	An internal error occurred; please try again later.	The error message returned because an internal error occurred. Try again later. If the error persists, submit a ticket.

For a list of error codes, visit the API Error Center.

18.7.9. DeleteDcdnWafPolicy

Deletes a protection policy.

Description

- You can call this operation up to 20 times per second per account.
- Alibaba Cloud Dynamic Route for CDN (DCDN) supports POST requests.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteDcdnWafPolicy	The operation that you want to perform. Set the value to **DeleteDcdnWafPolicy**.
PolicyId	Long	Yes	1000001	The ID of the protection policy that you want to delete. You can specify only one ID in each request.

Response parameters

Parameter	Type	Example	Description
RequestId	String	CB1A380B-09F0-41BB-B084-72F8FD6DA2FE	The ID of the request.

Examples

Sample requests

```
curl -XPOST 'https://dcdn.aliyuncs.com/?Action=DeleteDcdnWafPolicy
&PolicyId=1000001
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DeleteDcdnWafPolicyResponse>
    <RequestId>CB1A380B-09F0-41BB-B084-72F8FD6DA2FE</RequestId>
</DeleteDcdnWafPolicyResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "CB1A380B-09F0-41BB-B084-72F8FD6DA2FE"
}
```

Error codes

HTTP status code	Error codes	Error message	Description
400	InvalidParameter	The specified parameter is invalid.	The error message returned because the specified parameter value is invalid.
400	Policy.NotExist	The specified policy does not exist.	The error message returned because the specified protection policy does not exist.
400	Policy.DeleteForbidden	The specified policy is forbidden to delete.	The error message returned because the specified policy cannot be deleted.
500	InternalError	An internal error occurred; please try again later.	The error message returned because an internal error occurred. Try again later. If the error persists, submit a ticket.

For a list of error codes, visit the API Error Center.

18.7.10. DescribeDcdnWafDomainDetail

Queries the information about the protection policy of a domain name.

Description

You can call this operation up to 20 times per second per account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnWafDomainDetail	The operation that you want to perform. Set the value to **DescribeDcdnWafDomainDetail**.
DomainName	String	Yes	example.com	The accelerated domain name. You can specify only one domain name in each request.

Response parameters

Parameter	Type	Example	Description
RequestId	String	153ca2cd-3c01-44be-82C0-64dbc6c88630	The ID of the request.
Domain	Object		The information about the accelerated domain name.
DomainName	String	example.com	The accelerated domain name.
DefenseScenes	Array of DefenseSceneItem		The information about the protection policy.
DefenseScene	String	waf_group	The type of the protection policy. Valid values: • waf_group: basic web protection • custom_acl: custom • whitelist: whitelist
PolicyId	Long	10000002	The ID of the protection policy.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnWafDomainDetail
&DomainName=example.com
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnWafDomainDetailResponse>
    <RequestId>153ca2cd-3c01-44be-82c0-64dbc6c88630</RequestId>
    <Domain>
        <DomainName>example.com</DomainName>
        <DefenseScenes>
            <DefenseScene>waf_group</DefenseScene>
            <PolicyId>10000002</PolicyId>
        </DefenseScenes>
        <DefenseScenes>
            <DefenseScene>custom_acl</DefenseScene>
            <PolicyId>10000001</PolicyId>
        </DefenseScenes>
    </Domain>
</DescribeDcdnWafDomainDetailResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "153ca2cd-3c01-44be-82c0-64dbc6c88630",
  "Domain" : {
    "DomainName" : "example.com",
    "DefenseScenes" : [ {
      "DefenseScene" : "waf_group",
      "PolicyId" : 10000002
    }, {
      "DefenseScene" : "custom_acl",
      "PolicyId" : 10000001
    } ]
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidParameter	The specified parameter is invalid.	The error message returned because the specified parameter value is invalid.

For a list of error codes, visit the API Error Center.

18.7.11. DescribeDcdnWafRules

Queries the details of the protection rules that you configured.

Description

You can call this operation up to 20 times per second per account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnWafRules	The operation that you want to perform. Set the value to **DescribeDcdnWafRules**.

Parameter	Type	Required	Example	Description
QueryArgs	String	No	{"RuleIds":"100001,200002"}	The query conditions. The value is a string in the JSON format. Format: `QueryArgs={"PolicyIds":"The range of protection policy IDs","RuleIds":"The range of protection rule IDs","RuleNameLike":"The name of the protection rule","DomainNames":"The protected domain names","DefenseScenes":"waf_group","RuleStatus":"on","OrderBy":"GmtModified","Desc":"false"}` **Note** If you do not specify this parameter, all protection rules are queried.
PageNumber	Integer	No	1	The number of the page to return. Valid values: **1** to **100000**. Default value: **1**.
PageSize	Integer	No	20	The number of protection rules to return per page. Valid values: an integer from **1** to **500**. Default value: **20**.

Fields in the QueryArgs parameter

Field	Type	Required	Example	Description
PolicyIds	string	No	10000001,10000100	The range of protection policy IDs. Separate multiple IDs with commas (,). Only exact search is supported.
RuleIds	string	No	100001,200002	The range of protection rule IDs. Separate multiple IDs with commas (,). Only exact search is supported.
RuleNameLike	string	No	rule_1	The name of the protection policy. Fuzzy search is supported. The name can be up to 64 characters in length and can contain letters, digits, and underscores (_).

Field	Type	Required	Example	Description
DomainNames	string	No	example.com	The protected domain names. You can specify up to 50 domain names. Separate multiple domain names with commas (,). Only exact search is supported.
DefenseScenes	string	No	custom_acl	The types of the protection policies. Separate multiple types with commas (,). Only exact search is supported. Valid values: waf_group: basic web protection custom_acl: custom whitelist: whitelist
RuleStatus	string	No	on	The status of the policy. Valid values: on off
OrderBy	string	No	GmtModified	The field that is used to sort query results. Valid values: GmtModified, RuleName, RuleStatus, RuleId, and PolicyId.
Desc	Boolean	No	false	The display order of the query results. Default value: false. true: reverse chronological order false: chronological order

Response parameters

Parameter	Type	Example	Description
PageSize	Integer	20	The number of protection rules returned per page, which is the same as the PageSize parameter in request parameters.
RequestId	String	66A98669-CC6E-4F3E-80A6-3014697B11AE	The ID of the request.
PageNumber	Integer	1	The page number of the returned page, which is the same as the PageNumber parameter in request parameters.
TotalCount	Integer	121	The total number of protection rules.

Parameter	Type	Example	Description
Rules	Array of RuleItem		The information about protection rules.
RuleStatus	String	on	The status of the protection rule, which is the same as the RuleStatus field in the QueryArgs parameter.
DefenseScene	String	custom_acl	The type of the protection policy, which is the same as the DefenseScenes field in the QueryArgs parameter.
PolicyId	Long	200001	The ID of the protection policy.
GmtModified	String	2021-12-29T17:08:45Z	The time when the protection rule was modified. The time follows the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time is displayed in UTC.
RuleId	Long	100001	The ID of the protection rule.
RuleName	String	rule_1	The name of the protection rule.
RuleConfig	String	{\"action\":\"monitor\",\"actionExternal\":\"{}\",\"ccStatus\":1,\"conditions\":[{\"key\":\"URL\",\"opValue\":\"eq\",\"targetKey\":\"request_uri\",\"values\":\"/example\"},{\"key\":\"Header\",\"opValue\":\"eq\",\"subKey\":\"trt\",\"targetKey\":\"header.trt\",\"values\":\"3333\"}],\"effect\":\"service\",\"name\":\"aaa333\",\"origin\":\"custom\",\"ratelimit\":{\"interval\":5,\"status\":{\"code\":404,\"count\":2,\"stat\":{\"mode\":\"count\",\"value\":2.0}},\"target\":\"remote_addr\",\"threshold\":2,\"ttl\":1800}}	The configuration information about the protection rule.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnWafRules
&QueryArgs={"RuleIds":"100001,200002"}
&PageNumber=1
&PageSize=20
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnWafRulesResponse>
    <TotalCount>121</TotalCount>
    <Rules>
        <GmtModified>2021-12-29T17:08:45Z</GmtModified>
        <PolicyId>200001</PolicyId>
        <RuleId>100001</RuleId>
        <RuleName>rule_1</RuleName>
        <RuleStatus>on</RuleStatus>
        <RuleConfig>{"action":"monitor","actionExternal":"{}","ccStatus":1,"conditions":[{"key":"URL","opValue":"
eq","targetKey":"request_uri","values":"/example"},{"key":"Header","opValue":"eq","subKey":"trt","targetKey":"hea
der.trt","values":"3333"}],"effect":"service","name":"aaa333","origin":"custom","ratelimit":{"interval":5,"status
":{"code":404,"count":2,"stat":{"mode":"count","value":2.0}},"target":"remote_addr","threshold":2,"ttl":1800}}</R
uleConfig>
        <DefenseScene>custom_acl</DefenseScene>
    </Rules>
    <Rules>
        <GmtModified>2021-12-19T17:08:45Z</GmtModified>
        <PolicyId>200001</PolicyId>
        <RuleId>200002</RuleId>
        <RuleStatus>off</RuleStatus>
        <RuleConfig>{"action":"block"}</RuleConfig>
        <DefenseScene>waf_group</DefenseScene>
    </Rules>
    <PageNumber>1</PageNumber>
    <PageSize>20</PageSize>
    <RequestId>66A98669-CC6E-4F3E-80A6-3014697B11AE</RequestId>
</DescribeDcdnWafRulesResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "TotalCount" : 121,
  "Rules" : [ {
    "GmtModified" : "2021-12-29T17:08:45Z",
    "PolicyId" : 200001,
    "RuleId" : 100001,
    "RuleName" : "rule_1",
    "RuleStatus" : "on",
    "RuleConfig" : "{\"action\":\"monitor\",\"actionExternal\":\"{}\",\"ccStatus\":1,\"conditions\":[{\"key\":\"U
RL\",\"opValue\":\"eq\",\"targetKey\":\"request_uri\",\"values\":\"/example\"},{\"key\":\"Header\",\"opValue\":\"
eq\",\"subKey\":\"trt\",\"targetKey\":\"header.trt\",\"values\":\"3333\"}],\"effect\":\"service\",\"name\":\"aaa3
33\",\"origin\":\"custom\",\"ratelimit\":{\"interval\":5,\"status\":{\"code\":404,\"count\":2,\"stat\":{\"mode\":
\"count\",\"value\":2.0}},\"target\":\"remote_addr\",\"threshold\":2,\"ttl\":1800}}",
    "DefenseScene" : "custom_acl"
  }, {
    "GmtModified" : "2021-12-19T17:08:45Z",
    "PolicyId" : 200001,
    "RuleId" : 200002,
    "RuleStatus" : "off",
    "RuleConfig" : "{\"action\":\"block\"}",
    "DefenseScene" : "waf_group"
  } ],
  "PageNumber" : 1,
  "PageSize" : 20,
  "RequestId" : "66A98669-CC6E-4F3E-80A6-3014697B11AE"
}
```

Error codes

For a list of error codes, visit the API Error Center.

18.7.12. BatchDeleteDcdnWafRules

Deletes multiple Web Application Firewall (WAF) protection rules at a time.

Description

- You can call this operation up to 20 times per second per account.
- Alibaba Cloud Dynamic Route for CDN (DCDN) supports POST requests.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	BatchDeleteDcdnWafRules	The operation that you want to perform. Set the value to **BatchDeleteDcdnWafRules**.
RuleIds	String	Yes	20000001,20000002	The IDs of the protection rules that you want to delete. Separate multiple IDs with commas (,).

Response parameters

Parameter	Type	Example	Description
RequestId	String	CB1A380B-09F0-41BB-802B-72F8FD6DA2FE	The ID of the request.

Examples

Sample requests

```
curl -XPOST 'https://dcdn.aliyuncs.com/?Action=BatchDeleteDcdnWafRules
&RuleIds=20000001,20000002
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<BatchDeleteDcdnWafRulesResponse>
    <RequestId>CB1A380B-09F0-41BB-802B-72F8FD6DA2FE</RequestId>
</BatchDeleteDcdnWafRulesResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "CB1A380B-09F0-41BB-802B-72F8FD6DA2FE"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidParameter	The specified parameter is invalid.	The error message returned because the specified parameter value is invalid.
500	InternalError	An internal error occurred; please try again later.	The error message returned because an internal error occurred. Try again later. If the error persists, submit a ticket.

For a list of error codes, visit the API Error Center.

18.7.13. ModifyDcdnWafPolicyDomains

Changes the accelerated domain names that are bound to a protection policy.

Description

- You can call this operation up to 20 times per second per account.
- Alibaba Cloud Dynamic Route for CDN (DCDN) supports POST requests.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyDcdnWafPolicyDomains	The operation that you want to perform. Set the value to **ModifyDcdnWafPolicyDomains**.
PolicyId	Long	Yes	1000001	The ID of the protection policy. You can specify only one ID in each request.
BindDomains	String	No	example.com,example2.com	The domain names that you want to bind to the protection policy. You can specify up to 50 domain names. Separate multiple domain names with commas (,).
UnbindDomains	String	No	example3.com	The domain names that you want to unbind from the protection policy. You can specify up to 50 domain names. Separate multiple domain names with commas (,).

Response parameters

Parameter	Type	Example	Description
RequestId	String	CB1A380B-09F0-41BB-2B35-72F8FD6DA2FE	The ID of the request.

Examples

Sample requests

```
curl -XPOST 'https://dcdn.aliyuncs.com/?Action=ModifyDcdnWafPolicyDomains
&PolicyId=1000001
&BindDomains=example.com,example2.com
&UnbindDomains=example3.com
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ModifyDcdnWafPolicyDomainsResponse>
    <RequestId>CB1A380B-09F0-41BB-2B35-72F8FD6DA2FE</RequestId>
</ModifyDcdnWafPolicyDomainsResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "CB1A380B-09F0-41BB-2B35-72F8FD6DA2FE"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidParameter	The specified parameter is invalid.	The error message returned because the specified parameter value is invalid.
400	Policy.NotExist	The specified policy does not exist.	The error message returned because the specified protection policy does not exist.
400	DomainBindAndUnbind.Overlapped	The specified bind and unbind domain names overlap.	The error message returned because the specified domain names that you want to bind and unbind are the same.
500	InternalError	An internal error occurred; please try again later.	The error message returned because an internal error occurred. Try again later. If the error persists, submit a ticket.

For a list of error codes, visit the API Error Center.

18.7.14. ModifyDcdnWafRule

Changes the name, status, or configurations of a protection rule.

Description

- You can call this operation up to 20 times per second per account.
- Alibaba Cloud Dynamic Route for CDN (DCDN) supports POST requests.
- You must configure at least one of the **RuleStatus**, **RuleName** and **RuleConfig** parameters.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyDcdnWafRule	The operation that you want to perform. Set the value to **ModifyDcdnWafRule**.
RuleId	Long	Yes	200001	The ID of the protection rule. You can specify only one ID in each request.
RuleStatus	String	No	off	The new status of the protection rule. Valid values: • **on** • **off**
RuleName	String	No	test	The new name of the protection rule.
RuleConfig	String	No	{\"origin\":\"custom\",\"conditions\":[{\"opValue\":\"eq\",\"key\":\"URL\",\"values\":\"/example\"},{\"opValue\":\"eq\",\"key\":\"Header\",\"values\":\"3333\",\"subKey\":\"trt\"}],\"actionExternal\":{},\"action\":\"monitor\",\"ccStatus\":1,\"ratelimit\":{\"target\":\"remote_addr\",\"interval\":\"5\",\"threshold\":\"2\",\"effect\":\"rule\",\"status\":{\"code\":\"404\",\"count\":\"2\"},\"ttl\":\"1800\"}}'	The new configurations of the protection rule. **Note** After you modify the configurations of the protection rule, the previous configurations are overwritten.

Response parameters

Parameter	Type	Example	Description
RequestId	String	CB1A380B-09F0-41BB-3C2B-72F8FD6DA2FE	The ID of the request.

Examples

Sample requests

```
curl -XPOST 'http(s)://dcdn.aliyuncs.com/?Action=ModifyDcdnWafRule
&RuleId=200001
&RuleStatus=off
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ModifyDcdnWafRuleResponse>
    <RequestId>CB1A380B-09F0-41BB-3C2B-72F8FD6DA2FE</RequestId>
</ModifyDcdnWafRuleResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "CB1A380B-09F0-41BB-3C2B-72F8FD6DA2FE"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidParameter	The specified parameter is invalid.	The error message returned because the specified parameter value is invalid.
400	Rule.NotExist	The specified rule does not exist.	The error message returned because the specified protection rule does not exist.
400	RuleConfigs.Malformed	The specified RuleConfigs format is invalid.	The error message returned because the format of the specified RuleConfigs parameter is invalid.
400	RuleName.AlreadyExists	Rule name already exists in specified policy.	The error message returned because the rule name already exists in the specified policy.
500	InternalError	An internal error occurred; please try again later.	The error message returned because an internal error occurred. Try again later. If the error persists, submit a ticket.

For a list of error codes, visit the API Error Center.

18.7.15. DescribeDcdnWafRule

Queries the details of a specified protection rule.

Description

You can call this operation up to 20 times per second per account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnWafRule	The operation that you want to perform. Set the value to **DescribeDcdnWafRule**.
RuleId	Long	Yes	1000001	The ID of the protection rule. You can specify only one ID in each request.

Response parameters

Parameter	Type	Example	Description
RequestId	String	66A98669-CC6E-4F3E-80A6-3014697B11AE	The ID of the request.
Rule	Object		The information about the protection rule.
RuleStatus	String	on	The status of the protection rule. Valid values: • on • off
DefenseScene	String	custom_acl	The type of the protection policy. Valid values: • waf_group: basic web protection • custom_acl: custom • whitelist: whitelist
PolicyId	Long	200001	The ID of the protection policy.
GmtModified	String	2021-12-29T17:08:45Z	The time at which the protection rule was modified. The time follows the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time is displayed in UTC.
RuleId	Long	100001	The ID of the protection rule.
RuleName	String	rule_1	The name of the protection rule.
RuleConfig	String	{\"action\":\"monitor\",\"actionExternal\":\"{}\",\"ccStatus\":1,\"conditions\":[{\"key\":\"URL\",\"opValue\":\"eq\",\"targetKey\":\"request_uri\",\"values\":\"/example\"},{\"key\":\"Header\",\"opValue\":\"eq\",\"subKey\":\"trt\",\"targetKey\":\"header.trt\",\"values\":\"3333\"}],\"effect\":\"service\",\"name\":\"aaa333\",\"origin\":\"custom\",\"ratelimit\":{\"interval\":5,\"status\":{\"code\":404,\"count\":2,\"stat\":{\"mode\":\"count\",\"value\":2.0}},\"target\":\"remote_addr\",\"threshold\":2,\"ttl\":1800}}	The configurations of the protection rule.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnWafRule
&RuleId=1000001
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnWafRuleResponse>
    <Rule>
        <GmtModified>2021-12-29T17:08:45Z</GmtModified>
        <PolicyId>200001</PolicyId>
        <RuleId>100001</RuleId>
        <RuleName>rule_1</RuleName>
        <RuleStatus>on</RuleStatus>
        <RuleConfig>{"action":"monitor","actionExternal":"{}","ccStatus":1,"conditions":[{"key":"URL","opValue":"
eq","targetKey":"request_uri","values":"/example"},{"key":"Header","opValue":"eq","subKey":"trt","targetKey":"hea
der.trt","values":"3333"}],"effect":"service","name":"aaa333","origin":"custom","ratelimit":{"interval":5,"status
":{"code":404,"count":2,"stat":{"mode":"count","value":2.0}},"target":"remote_addr","threshold":2,"ttl":1800}}</R
uleConfig>
        <DefenseScene>custom_acl</DefenseScene>
    </Rule>
    <RequestId>66A98669-CC6E-4F3E-80A6-3014697B11AE</RequestId>
</DescribeDcdnWafRuleResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "Rule" : {
    "GmtModified" : "2021-12-29T17:08:45Z",
    "PolicyId" : 200001,
    "RuleId" : 100001,
    "RuleName" : "rule_1",
    "RuleStatus" : "on",
    "RuleConfig" : "{\"action\":\"monitor\",\"actionExternal\":\"{}\",\"ccStatus\":1,\"conditions\":[{\"key\":\"U
RL\",\"opValue\":\"eq\",\"targetKey\":\"request_uri\",\"values\":\"/example\"},{\"key\":\"Header\",\"opValue\":\"
eq\",\"subKey\":\"trt\",\"targetKey\":\"header.trt\",\"values\":\"3333\"}],\"effect\":\"service\",\"name\":\"aaa3
33\",\"origin\":\"custom\",\"ratelimit\":{\"interval\":5,\"status\":{\"code\":404,\"count\":2,\"stat\":{\"mode\":
\"count\",\"value\":2.0}},\"target\":\"remote_addr\",\"threshold\":2,\"ttl\":1800}}",
    "DefenseScene" : "custom_acl"
  },
  "RequestId" : "66A98669-CC6E-4F3E-80A6-3014697B11AE"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidParameter	The specified parameter is invalid.	The error message returned because the specified parameter value is invalid.

For a list of error codes, visit the API Error Center.

18.7.16. DescribeDcdnWafPolicyValidDomains

Queries the domain names that can be bound to a custom protection policy.

Description

You can call this operation up to 20 times per second per account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnWafPolicyValidDomains	The operation that you want to perform. Set the value to **DescribeDcdnWafPolicyValidDomains**.
DefenseScene	String	Yes	custom_acl	The type of the Web Application Firewall (WAF) protection policy. Valid values: • waf_group: basic web protection • custom_acl: custom • whitelist: whitelist
DomainNameLike	String	No	example.com	The protected domain name. Fuzzy search is supported.
PageNumber	Integer	No	1	The number of the page to return. Valid values: **1** to **100000**. Default value: **1**.
PageSize	Integer	No	20	The number of domain names to return per page. Valid values: an integer from **1** to **500**. Default value: **20**.

Response parameters

Parameter	Type	Example	Description
PageSize	Integer	20	The number of domain names returned per page, which is the same as the PageSize parameter in request parameters.
RequestId	String	153ca2cd-3c01-44be-52c6-64dbc6c88630	The ID of the request.
PageNumber	Integer	1	The page number of the returned page, which is the same as the PageNumber parameter in request parameters.
TotalCount	Integer	2	The total number of domain names returned.
Domains	Array of DomainItem		The information about the protected domain names.
PolicyName	String	test1	The name of the protection policy.
PolicyId	Long	1000001	The ID of the protection policy.
DomainName	String	example.com	The protected domain name.

Parameter	Type	Example	Description
PolicyType	String	default	Indicates whether the protection policy is the default policy. Valid values: • default: The protection policy is the default policy. • custom: The protection policy is not the default policy.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnWafPolicyValidDomains
&DefenseScene=custom_acl
&DomainNameLike=example.com
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnWafPolicyValidDomainsResponse>
    <RequestId>153ca2cd-3c01-44be-52c6-64dbc6c88630</RequestId>
    <TotalCount>2</TotalCount>
    <Domains>
        <DomainName>example.com</DomainName>
        <PolicyId>1000001</PolicyId>
        <PolicyName>test1</PolicyName>
        <PolicyType>default</PolicyType>
    </Domains>
    <Domains>
        <DomainName>example2.com</DomainName>
        <PolicyId>1000002</PolicyId>
        <PolicyName>test2</PolicyName>
        <PolicyType>custom</PolicyType>
    </Domains>
    <PageNumber>1</PageNumber>
    <PageSize>20</PageSize>
</DescribeDcdnWafPolicyValidDomainsResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "153ca2cd-3c01-44be-52c6-64dbc6c88630",
  "TotalCount" : 2,
  "Domains" : [ {
    "DomainName" : "example.com",
    "PolicyId" : 1000001,
    "PolicyName" : "test1",
    "PolicyType" : "default"
  }, {
    "DomainName" : "example2.com",
    "PolicyId" : 1000002,
    "PolicyName" : "test2",
    "PolicyType" : "custom"
  } ],
  "PageNumber" : 1,
  "PageSize" : 20
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidParameter	The specified parameter is invalid.	The error message returned because the specified parameter value is invalid.

For a list of error codes, visit the API Error Center.

18.7.17. BatchSetDcdnWafDomainConfigs

Sets the protection status of multiple domain names at a time.

Description

- You can call this operation up to 20 times per second per account.
- Alibaba Cloud Dynamic Route for CDN (DCDN) supports POST requests.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	BatchSetDcdnWafDomainConfigs	The operation that you want to perform. Set the value to **BatchSetDcdnWafDomainConfigs**.
DomainNames	String	Yes	example.com,example2.com	The protected domain names for which you want to change the protection status. You can specify up to 50 domain names. Separate multiple domain names with commas (,).
DefenseStatus	String	Yes	on	The protection status of the domain name. Valid values: • on • off

Response parameters

Parameter	Type	Example	Description
RequestId	String	CB1A380B-09F0-41BB-3C82-72F8FD6DA2FE	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=BatchSetDcdnWafDomainConfigs
&DomainNames=example.com,example2.com
&DefenseStatus=on
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<BatchSetDcdnWafDomainConfigsResponse>
    <RequestId>CB1A380B-09F0-41BB-3C82-72F8FD6DA2FE</RequestId>
</BatchSetDcdnWafDomainConfigsResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "CB1A380B-09F0-41BB-3C82-72F8FD6DA2FE"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidParameter	The specified parameter is invalid.	The error message returned because the specified parameter value is invalid.
500	InternalError	An internal error occurred; please try again later.	The error message returned because an internal error occurred. Try again later. If the error persists, submit a ticket.

For a list of error codes, visit the API Error Center.

18.7.18. DescribeDcdnWafFilterInfo

Queries the information about match conditions in a custom protection rule, such as the match fields, logical characters, and match content.

Description

You can call this operation up to 20 times per second per account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnWafFilterInfo	The operation that you want to perform. Set the value to **DescribeDcdnWafFilterInfo**.
DefenseScenes	String	No	custom_acl	The type of the protection policy. Separate multiple types with commas (,). Valid values: • waf_group: basic web protection • custom_acl: custom • whitelist: whitelist **Note** If you do not specify this parameter, all types are returned.

Parameter	Type	Required	Example	Description
Language	String	Yes	cn	The language of the returned information. Default value: English. Valid values: • en: English • cn: Simplified Chinese

Response parameters

Parameter	Type	Example	Description
RequestId	String	153ca2cd-3c01-44be-204c-64dbc6c88630	The ID of the request.
Content	Array of FilterInfo		The returned information.
DefenseScene	String	custom_acl	The type of the protection policy, which is the same as the DefenseScenes parameter in request parameters.
Fields	Array of Field		The information about the match condition.
ExtendField	String	Custom Header	The description of the match field. If this parameter is not returned or if this parameter is empty, the match field does not have a description.
MatchField	String	Header	The match field.
LogicalSymbol	Array of Logic		The information about the logical symbol.
Type	String	multi	The number of match contents that you can specify. Valid values: • multi: You can specify multiple match contents. • single: You can specify only a match content. • none: You cannot specify a match content.
Symbol	String	match-one	The logical symbol that is passed to the backend.
Tip	String	You can enter up to 50 tips. Press the Enter key.	The tips that are displayed in the match content.
MaxLength	Integer	50	The maximum number of match contents that you can specify. The value of this parameter varies based on the value of the Type parameter. Valid values: • If the value of the Type parameter is **multi**, the value of this parameter is the maximum number of match contents. • If the value of the Type parameter is **single**, the value of this parameter is 1. • If the value of the Type parameter is **none**, the value of this parameter is 0.
Description	String	Equal to one of multiple values.	The logical symbol that is displayed in the Dynamic Route for CDN (DCDN) console.

Parameter	Type	Example	Description
Regexp	Object		The information about the regular expression.
Pattern	String	^\S+$	The regular expression.
ErrMsg	String	The field cannot be left empty.	The error message returned because no items match the regular expression.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnWafFilterInfo
&Language=cn
&DefenseScenes=custom_acl
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnWafFilterInfoResponse>
    <RequestId>153ca2cd-3c01-44be-204c-64dbc6c88630</RequestId>
    <Content>
        <DefenseScene>custom_acl</DefenseScene>
        <Fields>
            <ExtendField>Custom Header</ExtendField>
            <MatchField>Header</MatchField>
            <LogicalSymbol>
                <Type>multi</Type>
                <Symbol>match-one</Symbol>
                <Tip>You can enter up to 50 tips. Press the Enter key.</Tip>
                <MaxLength>50</MaxLength>
                <Description>Equal to one of multiple values.</Description>
                <Regexp>
                    <Pattern>^\S+$</Pattern>
                    <ErrMsg>The field cannot be left empty.</ErrMsg>
                </Regexp>
            </LogicalSymbol>
        </Fields>
    </Content>
</DescribeDcdnWafFilterInfoResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "153ca2cd-3c01-44be-204c-64dbc6c88630",
  "Content" : [ {
    "DefenseScene" : "custom_acl",
    "Fields" : [ {
      "ExtendField" : "Custom Header",
      "MatchField" : "Header",
      "LogicalSymbol" : [ {
        "Type" : "multi",
        "Symbol" : "match-one",
        "Tip" : "You can enter up to 50 tips. Press the Enter key.",
        "MaxLength" : 50,
        "Description" : "Equal to one of multiple values.",
        "Regexp" : {
          "Pattern" : "^\\S+$",
          "ErrMsg" : "The field cannot be left empty."
        }
      } ]
    } ]
  } ]
}
```

Error codes

For a list of error codes, visit the API Error Center.

18.7.19. BatchCreateDcdnWafRules

Creates Web Application Firewall (WAF) protection rules.

Description

You can call this operation up to 20 times per second per account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	BatchCreateDcdnWafRules	The operation that you want to perform. Set the value to **BatchCreateDcdnWafRules**.
PolicyId	Long	Yes	1000001	The ID of the protection policy.

Parameter	Type	Required	Example	Description
RuleConfigs	String	Yes	{"name":"ttttt","action":"monitor","conditions":[{"key":"URL","opValue":"match-one","values":"1,2,3,4,5"},{"key":"Header","opValue":"contain-one","subKey":"testheader","values":"6,7,8,9,10"}],"ratelimit":{"target":"header","interval":10,"threshold":5,"ttl":1800,"subKey":"testheadercc","status":{"code":"502","count":5}},"ccStatus":"on","effect":"rule","status":"on"}	The configurations of the protection rule.

Fields in the RuleConfigs parameter

The fields in the RuleConfigs parameter vary based on the type of the protection policy whose ID is specified by the PolicyId parameter.

waf_group

You can configure only one rule for a protection policy of the waf_group type.

Field	Type	Required	Example	Description
name	string	Yes	on	The name of the protection rule. The name can be up to 64 characters in length and can contain letters, digits, and underscores (_).
status	string	No	on	Specifies whether to enable the protection rule. Default value: on. Valid values: on and off.
action	string	Yes	block	The action that is performed when the rule is triggered. block: blocks requests. monitor: monitors requests.

Sample code for waf_group

```
[
  {
"Name":"Web_1",
"status": "on",
 "action": "block"
  }
]
```

custom_acl

Field	Type	Required	Example	Description
name	string	Yes	acl_1	The name of the protection rule. The name can be up to 64 characters in length and can contain letters, digits, and underscores (_).
status	string	No	on	Specifies whether to enable the protection rule. Default value: on. Valid values: on and off.
conditions	Condition	Yes	[{"key": "URI", "subKey": "","opValue": "contain", "values": "/login.php" }]	The trigger condition. For more information, see **Table 1 Fields in the Conditions parameter**.
ccStatus	string	Yes	off	Specifies whether to enable rate limiting. Default value: on. Valid values: on and off.
rateLimit	RateLimit	No	{ "target": "Header", "subKey": "User-Agent", "interval": 5, "threshold": 2, "ttl": 1800}	The rules of rate limiting. If you set ccStatus to on, you must configure this parameter. For more information, see **Table 2 Fields in the rateLimit parameter**.
effect	string	No	service	The scope in which the rate limiting blacklist takes effect. If you set ccStatus to on, you must configure this field. rule: takes effect for the current rule. service: takes effect globally.

Field	Type	Required	Example	Description
action	string	Yes	block	The action that is performed when the rule is triggered. deny: blocks requests. js: performs JavaScript verification. monitor: monitors requests.

Table 1 Fields in the Conditions parameter

Field	Type	Required	Example	Description
Key	string	Yes	Query String Parameter	The match field. For more information, see DescribeDcdnWafFilterInfo.
subKey	string	No	action	The match subfield. For more information, see DescribeDcdnWafFilterInfo.
opValue	String	Yes	eq	The logical symbol. For more information, see DescribeDcdnWafFilterInfo.
values	String	No	js	The match content. Separate multiple values with commas (,). For more information, see DescribeDcdnWafFilterInfo.

Table 2 Fields in the rateLimit parameter

Field	Type	Required	Example	Description

Field	Type	Required	Example	Description
target	string	Yes	Header	The statistical field of rate limiting. IP: calculates the frequency at which requests are sent from a specified IP address. Header: calculates the frequency of requests that contain the specified header. Query String Parameter: calculates the frequency of requests that contain the specified parameter. Cookie Name: calculates the frequency of requests that contain the specified cookie. Session: calculates the frequency of requests that are transmitted over a specified session.
subKey	string	No	User-Agent	The subfield of the target field. If you set target to Header, Query String Parameter, or Cookie Name, you must configure subKey.
Interval	Integer	Yes	5	The statistical interval. Valid values: 5 to 1800. Unit: seconds.
threshold	Integer	Yes	2	The trigger threshold of rate limiting. Valid values: 2 to 500000.
ttl	Integer	Yes	1800	The validity period of the blacklist. Valid values: 60 to 86400. Unit: seconds.
status	RateLimitStatus	No	{"code": "404", "ratio": 10}	The information about the HTTP status code. For more information, see **Table 3 Fields in the RateLimitStatus parameter**.

Table 3 Fields in the RateLimitStatus parameter

Field	Type	Required	Example	Description
codet	string	Yes	404	The HTTP status code.
ratio	Integer	No	10	The proportion (%) of HTTP status codes. Valid values: 1 to 100. You can configure only one of the ratio and count fields.
count	Integer	No	10	The number of times that the HTTP status code that was returned. Valid values: 2 to 50000. You can configure only one of the ratio and count fields.

Sample code for custom_acl

```
[
  // Access control
  {
    "name": "acl_1",
    "status": "off",
    "conditions":
    [
      {
        "key": "Query String Parameter",
        "subKey": "action",
        "opValue": "eq",
        "values": "js"
      }
    ],
    "ccStatus": "off",
    "action": "js"
  },
  // Rate limiting
  {
    "name": "cc_1",
    "status": "on",
   "conditions":
    [
      {
        "key": "URI",
        "subKey": "",
        "opValue": "contain",
        "values": "/login.php"
      },
      {
        "key": "IP",
        "subKey": "",
        "opValue": "ip-contain",
        "values": "1.1.1.1,1.1.1.0/24"
      }
    ],
    "ccStatus": "on",
    "ratelimit":
    {
      "target": "Header",
      "subKey": "User-Agent",
      "interval": 5,
      "threshold": 2,
      "ttl": 1800,
      "status":
      {
        "code": "404",
        "ratio": 10
      }
    },
    "effect": "service",
    "action": "deny"
  }
]
```

whitelist

Field	Type	Required	Example	Description

Field	Type	Required	Example	Description
name	string	Yes	on	The name of the protection rule. The name can be up to 64 characters in length and can contain letters, digits, and underscores (_).
status	string	No	on	Specifies whether to enable the protection rule. Default value: on. Valid values: on and off.
conditions	Condition	Yes	[{ "key": "Http-Method","subKey": "","opValue": "match-one", "values": "GET,POST,DELETE" }]	The trigger condition of the rule. For more information, see **Table 1 Fields in the Conditions parameter**.
tags	String	Yes	["waf_group", "custom_acl"]	The types of the protection policies.
regularTypes	String	No	[["sqli", "xss","code_exec", "crlf", "lfilei", "rfilei", "webshell","vvip", "other"]	The type of the regular expression. If the value of the tags field contains waf_group, you can specify this field. Valid values: ["sqli", "xss", "code_exec", "crlf", "lfilei", "rfilei", "webshell", "vvip", and "other"].
regularRules	String	No	["100001", "100002", "100003"]	The regular expression. If the value of the tags field contains waf_group, you can specify this field. You can configure only regularRules or regularTypes. The value must be a string that consists of six digits.

Sample code for whitelist:

```
[
  // Skip all protection policies.
  {
    "name": "wl_all",
    "status": "on",
```

```
    "conditions":
    [
      {
        "key": "Http-Method",
        "subKey": "",
        "opValue": "match-one",
        "values": "GET,POST,DELETE"
      }
    ],
    "tags":
    [
      "waf_group",
      "custom_acl"
    ]
  },
  // Skip the ID of the rule that is specified in waf_group.
  {
    "name": "wl_waf_id",
    "status": "off",
    "conditions":
    [
      {
        "key": "Cookie Name",
        "subKey": "cdn-sec",
        "opValue": "prefix-match",
        "values": "a7sdsa9dsa8d8sa"
      },
      {
        "key": "Referer",
        "subKey": "",
        "opValue": "none",
        "values": ""
      }
    ],
    "tags":
    [
      "waf_group"
    ],
    "regularRules":
    [
      "100001",
      "100002",
      "100003"
    ]
  },
  {
  // Skip the type of rules that is specified in waf_group.
    "name": "wl_waf_type",
    "status": "on",
   "conditions":
   [
      {
        "key": "Query String",
        "subKey": "",
        "opValue": "exists",
        "values": ""
      }
   ],
    "tags":
    [
      "waf_group"
    ],
    "regularTypes":
    [
      "sqli",
      "xss",
```

```
      "code_exec",
      "crlf",
      "lfilei",
      "rfilei",
      "webshell",
      "vvip",
      "other"
    ]
  }
]
```

Response parameters

Parameter	Type	Example	Description
RequestId	String	CB1A380B-09F0-41BB-280B-72F8FD6DA2FE	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=BatchCreateDcdnWafRules
&PolicyId=1000001
&RuleConfigs={"name":"ttttt","action":"monitor","conditions":[{"key":"URL","opValue":"match-one","values":"1,2,3,
4,5"},{"key":"Header","opValue":"contain-one","subKey":"testheader","values":"6,7,8,9,10"}],"ratelimit":{"target"
:"header","interval":10,"threshold":5,"ttl":1800,"subKey":"testheadercc","status":{"code":"502","count":5}},"ccSt
atus":"on","effect":"rule","status":"on"}
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<BatchCreateDcdnWafRulesResponse>
    <RequestId>CB1A380B-09F0-41BB-280B-72F8FD6DA2FE</RequestId>
</BatchCreateDcdnWafRulesResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "CB1A380B-09F0-41BB-280B-72F8FD6DA2FE"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidParameter	The specified parameter is invalid.	The error message returned because the specified parameter value is invalid.
400	Policy.NotExist	The specified policy does not exist.	The error message returned because the specified protection policy does not exist.
400	RuleConfigs.Malformed	The specified RuleConfigs format is invalid.	The error message returned because the format of the specified RuleConfigs parameter is invalid.

HTTP status code	Error code	Error message	Description
400	RuleName.AlreadyExists	Rule name already exists in specified policy.	The error message returned because the rule name already exists in the specified policy.
400	Rule.QuantityOverflow	Rules are overflowed quantity in specified policy.	The error message returned because the maximum number of rules that can be configured in the specified policy has been reached.
500	InternalError	An internal error occurred; please try again later.	The error message returned because an internal error occurred. Try again later. If the error persists, submit a ticket.

For a list of error codes, visit the API Error Center.

18.7.20. DescribeDcdnWafService

Queries the information about Dynamic Route for CDN (DCDN) Web Application Firewall (WAF), including the time when WAF is enabled, edition of WAF, current status of WAF, billing method for requests, and billing method for rules.

Description

You can call this operation up to 20 times per second per account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnWafService	The operation that you want to perform. Set the value to **DescribeDcdnWafService**.

Response parameters

Parameter	Type	Example	Description
Status	String	Normal	The status of WAF. Valid values: • Normal • WaitForExpire • Expired • Released
RequestBillingType	String	dcdn_waf_req	The billing method for requests.
Edition	String	dcdnwaf_afterpay	The edition of WAF.
RequestId	String	4A95CA90-E0F2-1BF6-99E0-8C1510CAF649	The ID of the request.
OpeningTime	String	2021-09-26T16:00:00Z	The time when WAF was enabled.

Parameter	Type	Example	Description
RuleBillingType	String	dcdn_waf_rule	The billing method for rules. You are charged for the number of SeCUs.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnWafService
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnWafServiceResponse>
    <RequestId>4A95CA90-E0F2-1BF6-99E0-8C1510CAF649</RequestId>
    <RuleBillingType>dcdn_waf_rule</RuleBillingType>
    <OpeningTime>2022-01-13T02:30:55Z</OpeningTime>
    <RequestBillingType>dcdn_waf_req</RequestBillingType>
    <Edition>dcdnwaf_afterpay</Edition>
    <Status>Normal</Status>
</DescribeDcdnWafServiceResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "4A95CA90-E0F2-1BF6-99E0-8C1510CAF649",
  "RuleBillingType" : "dcdn_waf_rule",
  "OpeningTime" : "2022-01-13T02:30:55Z",
  "RequestBillingType" : "dcdn_waf_req",
  "Edition" : "dcdnwaf_afterpay",
  "Status" : "Normal"
}
```

Error codes

For a list of error codes, visit the API Error Center.

18.7.21. DescribeUserDcdnWafStatus

Queries whether Dynamic Route for CDN (DCDN) Web Application Firewall (WAF) is enabled and whether you have overdue payments for WAF.

Usage notes

You can call this operation up to 30 times per second per account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeUserDcdnWafStatus	The operation that you want to perform. Set the value to DescribeUserDcdnWafStatus.

Response parameters

Parameter	Type	Example	Description
Enabled	Boolean	true	Specifies whether DCDN WAF is enabled. • true • false
InDebt	Boolean	false	Indicates whether you have overdue payments. • true • false
InDebtOverdue	Boolean	false	Indicates whether the grace period for your overdue payments expired. • true • false
OnService	Boolean	true	Indicates whether WAF is available. • true • false
RequestId	String	9F51E9C3-728F-4E35-952D-0ED87A06A8A1	The ID of the request.

Examples

Sample requests

```
https://dcdn.aliyuncs.com?&Action=DescribeUserDcdnWafStatus
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeUserDcdnWafStatusResponse>
  <Enabled>true</Enabled>
  <InDebtOverdue>false</InDebtOverdue>
  <InDebt>false</InDebt>
  <OnService>true</OnService>
  <RequestId>9F51E9C3-728F-4E35-952D-0ED87A06A8A1</RequestId>
</DescribeUserDcdnWafStatusResponse>
```

`JSON` format

```
{
    "Enabled": true,
    "InDebtOverdue": false,
    "InDebt": false,
    "OnService": true,
    "RequestId": "9F51E9C3-728F-4E35-952D-0ED87A06A8A1"
}
```

Error codes

For a list of error codes, visit the API Error Center.

18.7.22. DescribeDcdnWafGeoInfo

Queries the countries and regions can be added to the blacklist of Web Application Firewall?

Usage notes

You can call this operation up to 20 times per second per account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Language	String	Yes	cn	The language of the information to return. Valid values: • cn: Chinese • en: English

Response parameters

Parameter	Type	Example	Description
Content	Array of GeoInfo		The type of information about the country or region.
Continents	Array of Continents		The information about the country or region.
Name	String	China	The district to which the country or region belongs.
Regions	Array of Regions		The region information.
Name	String	Beijing	The name of the country or region.
Value	String	110000	The code of the country or region.
Type	String	CN	The type of the region. • CN: China • Other: outside China
RequestId	String	66A98669-CC6E-4F3E-80A6-3014697B11AE	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeDcdnWafGeoInfo
&Language=cn
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnWafGeoInfoResponse>
  <RequestId>66A98669-CC6E-4F3E-80A6-3014697B11AE</RequestId>
  <Content>
        <Type>CN</Type>
        <Continent>
              <Name> China </Name>
              <Regions>
                    <Name> Beijing </Name>
                    <Value>110000</Value>
              </Regions>
              <Regions>
                    <Name>Taiwan (China)</Name>
                    <Value>TW</Value>
              </Regions>
        </Continent>
  </Content>
  <Content>
        <Type>Other</Type>
        <Continent>
              <Name>Europe</Name>
              <Regions>
                    <Name>Principality of Andorra</Name>
                    <Value>AD</Value>
              </Regions>
              <Regions>
                    <Name>Albania</Name>
                    <Value>AL</Value>
              </Regions>
        </Continent>
        <Continent>
              <Name>Asia (except China)</Name>
              <Regions>
                    <Name>United Arab Emirates</Name>
                    <Value>AE</Value>
              </Regions>
              <Regions>
                    <Name>Afghanistan</Name>
                    <Value>AF</Value>
              </Regions>
        </Continent>
  </Content>
</DescribeDcdnWafGeoInfoResponse>
```

`JSON` format

```
{
    "RequestId": "66A98669-CC6E-4F3E-80A6-3014697B11AE",
    "Content": [
        {
            "Type": "CN",
            "Continent": [
                {
                    "Name": "China",
                    "Regions": [
                        {
                            "Name": "Beijing",
                            "Value": "110000"
                        },
                        {
                            "Name": "Taiwan (China)",
                            "Value": "TW"
                        }
                    ]
                }
            ]
        },
        {
            "Type": "Other",
            "Continent": [
                {
                    "Name": "Europe",
                    "Regions": [
                        {
                            "Name": "Principality of Andorra",
                            "Value": "AD"
                        },
                        {
                            "Name": "Albania",
                            "Value": "AL"
                        }
                    ]
                },
                {
                    "Name": "Asia (except China)",
                    "Regions": [
                        {
                            "Name": "United Arab Emirates",
                            "Value": "AE"
                        },
                        {
                            "Name": "Afghanistan",
                            "Value": "AF"
                        }
                    ]
                }
            ]
        }
    ]
}
```


Error codes

For a list of error codes, visit the API Error Center.

18.7.23. DescribeDcdnWafUsageData

Queries the usage data of Web Application Firewall (WAF).

Usage notes

- You can call this operation up to 10 times per second per account.
- The minimum time granularity for a query is 5 minutes. The maximum time span for a query is 31 days. The time period within which historical data is available for a query is 90 days.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnWafUsageData	The operation that you want to perform. Set the value to **DescribeDcdnWafUsageData**.
DomainName	String	No	example.com	The domain name that you want to query. If you do not specify an accelerated domain name, all accelerated domain names are queried by default.
StartTime	String	No	2018-09-30T16:00:00Z	The beginning of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
EndTime	String	No	2018-10-01T16:00:00Z	The end of the time range to query. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. **Note** The end time must be later than the start time.
Interval	String	No	300	The time granularity for a query. Unit: seconds. The time granularity varies with the maximum time range per query. Valid values: 300 (5 minutes), 3600 (1 hour), and 86400 (1 day).
SplitBy	String	No	domain	Specifies how query results are grouped. By default, this parameter is empty. Valid values: • domain: Query results are grouped by accelerated domain name. • An empty string: Query results are not grouped.

Response parameters

Parameter	Type	Example	Description
EndTime	String	2018-10-01T16:00:00Z	The end of the time range during which data was queried.
StartTime	String	2018-09-30T16:00:00Z",	The beginning of the time range during which data was queried.

Parameter	Type	Example	Description
RequestId	String	CB1A380B-09F0-41BB-802B-72F8FD6DA2FE	The ID of the request.
WafUsageData	Array of WafUsageDataItem		The WAF information about the accelerated domain name.
WafUsageDataItem			
ObserveCnt	Long	300	The number of monitored requests.
Domain	String	example.com	The accelerated domain name.
BlockCnt	Long	300	The number of blocked requests.
AccessCnt	Long	600	The number of allowed requests.
TimeStamp	String	2018-09-30T16:00:00Z	The timestamp of the data returned.
SecCu	Long	50	The number of used SeCUs.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/?Action=DescribeDcdnWafUsageData
&DomainName=example.com
&StartTime=2018-09-30T16:00:00Z
&EndTime=2018-10-01T16:00:00Z
&Interval=300
&SplitBy=domain
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDcdnWafUsageDataResponse>
    <RequestId>CB1A380B-09F0-41BB-802B-72F8FD6DA2FE</RequestId>
    <WafUsageData>
        <TimeStamp>2018-09-30T16:00:00Z</TimeStamp>
        <Domain>example.com</Domain>
        <SecCu>50</SecCu>
        <AccessCnt>600</AccessCnt>
        <BlockCnt>300</BlockCnt>
        <ObserveCnt>300</ObserveCnt>
    </WafUsageData>
    <WafUsageData>
        <TimeStamp>2018-09-30T16:05:00Z</TimeStamp>
        <Domain>example.com</Domain>
        <SecCu>50</SecCu>
        <AccessCnt>600</AccessCnt>
        <BlockCnt>300</BlockCnt>
        <ObserveCnt>300</ObserveCnt>
    </WafUsageData>
</DescribeDcdnWafUsageDataResponse>
```

`JSON` format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "CB1A380B-09F0-41BB-802B-72F8FD6DA2FE",
  "WafUsageData" : [ {
    "TimeStamp" : "2018-09-30T16:00:00Z",
    "Domain" : "example.com",
    "SecCu" : 50,
    "AccessCnt" : 600,
    "BlockCnt" : 300,
    "ObserveCnt" : 300
  }, {
    "TimeStamp" : "2018-09-30T16:05:00Z",
    "Domain" : "example.com",
    "SecCu" : 50,
    "AccessCnt" : 600,
    "BlockCnt" : 300,
    "ObserveCnt" : 300
  } ]
}
```

Error codes

HttpCode	Error code	Error message	Description
400	MissingTimeParameter	The StartTime and EndTime must be both specified.	The error message returned because no value is specified for the StartTime or EndTime parameter.
400	InvalidStartTime.Malformed	The specified StartTime parameter is invalid.	The error message returned because the format of the StartTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Malformed	The specified EndTime is invalid.	The error message returned because the format of the EndTime parameter is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.
400	InvalidEndTime.Mismatch	The specified EndTime is earlier than the StartTime.	The error message returned because the end time is earlier than the start time.
400	InvalidStartTime.ValueNotSupported	The specified StartTime is invalid.	The error message returned because the value specified for the StartTime parameter is invalid. Specify a valid value.

For a list of error codes, visit the API Error Center.

19.Tag management

19.1. TagDcdnResources

Attaches one or more tags to the specified resources.

> **Note** The maximum number of times that users can call this operation per second is 100.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer automatically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	TagDcdnResources	The operation that you want to perform. Set the value to **TagDcdnResources**.
ResourceId.N	RepeatList	Yes	example.com	The ID of the resource. Valid values of N: **1** to **50**.
ResourceType	String	Yes	DOMAIN	The type of the resource. Set the value to **DOMAIN**.
Tag.N.Key	String	Yes	env	The key of the tag. Valid values of N: **1** to **20**.
Tag.N.Value	String	No	value	The value of the tag. Valid values of N: **1** to **20**.

Response parameters

Parameter	Type	Example	Description
RequestId	String	97C68796-EB7F-4D41-9D5B-12B909D76508	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/? Action=TagDcdnResources
&ResourceId.1=example.com
&ResourceType=DOMAIN
&Tag.1.Key=env
&Tag.1.Value=''
&<Common request parameters>
```

Sample success responses

`XML` format

```
<TagDcdnResourcesResponse>
  <RequestId>97C68796-EB7F-4D41-9D5B-12B909D76508</RequestId>
</TagDcdnResourcesResponse>
```

`JSON` format

```
{
"RequestId":"97C68796-EB7F-4D41-9D5B-12B909D76508"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	InvalidRegionId.Malformed	The specified RegionId is invalid.	The error message returned because the specified value of the RegionId parameter is invalid.
400	Resource.NotExist	The resource does not exist.	The error message returned because the specified resource does not exist.
400	TagKeyIsInvalid	The specified TagKey is invalid.	The error message returned because the specified value of the TagKey parameter is invalid.
400	TooManyTags	You have entered too many tags.	The error message returned because the maximum number of tags has been reached. Specify another value.
400	TagValueIsInvalid	The specified TagValue is invalid.	The error message returned because the specified value of the TagValue parameter is invalid. Specify another value.
400	TagKeyDuplicated	The specified TagKey is duplicated.	The error message returned because the specified TagKey parameter already exists.
400	TagIsInvalid	The number of Tag exceeds 20.	The error message returned because the number of tags exceeds 20.
400	ResourceIdIsInvalid	The number of ResourceId exceeds 50.	The error message returned because the number of resource IDs exceeds 50.
400	SystemTagIsInvalid	The number of System Tag exceeds 50.	The error message returned because the number of system tags exceeds 50.
400	CustomTagIsInvalid	The number of Custom Tag exceeds 20.	The error message returned because the number of custom tags exceeds 20.

For a list of error codes, visit the API Error Center.

19.2. DescribeDcdnTagResources

Queries the tags of one or more resources.

> **Note** The maximum number of times that users can call this operation per second is 10.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnTagResources	The operation that you want to perform. Set the value to **DescribeDcdnTagResources**.

Parameter	Type	Required	Example	Description
ResourceId.N	RepeatList	Yes	example.com	The ID of resource N. Valid values of N: **1** to **50**.
ResourceType	String	Yes	DOMAIN	The type of the resource. Set the value to **DOMAIN**.
Tag.N.Key	String	No	env	The key of tag N. Valid values of N: **1** to **20**.
Tag.N.Value	String	No	product	The value of tag N. Valid values of N: **1** to **20**.

Response parameters

Parameter	Type	Example	Description
RequestId	String	34AB41F1-04A5-496F-8C8D-634BDBE6A9FB	The ID of the request.
TagResources	Array of TagResource		The resource tags.
ResourceId	String	example.com	The ID of the resource.
Tag	Array of Tag		The tags.
Key	String	env	The key of the tag.
Value	String	product	The value of the tag.

Examples

Sample requests

```
https://dcdn.aliyuncs.com/?Action=DescribeDcdnTagResources
&ResourceId.1=example.com
&ResourceType=DOMAIN
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnTagResourcesResponse>
  <TagResources>
        <ResourceId>example.com</ResourceId>
        <Tag>
              <Value>product</Value>
              <Key>env</Key>
        </Tag>
  </TagResources>
  <RequestId>34AB41F1-04A5-496F-8C8D-634BDBE6A9FB</RequestId>
</DescribeDcdnTagResourcesResponse>
```

`JSON` format

```
{
  "TagResources": [
    {
      "ResourceId": "example.com",
      "Tag": [
        {
          "Value": "product",
          "Key": "env"
        }
      ]
    }
  ],
  "RequestId": "34AB41F1-04A5-496F-8C8D-634BDBE6A9FB"
}
```

Error codes

For a list of error codes, visit the API Error Center.

19.3. DescribeDcdnUserTags

Queries the tags of the current user.

> **Note** The maximum number of times that users can call this operation per second is 100.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates a sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnUserTags	The operation that you want to perform. Valid values: **DescribeDcdnUserTags**.

Response parameters

Parameter	Type	Example	Description
RequestId	String	34AB41F1-04A5-496F-8C8D-634BDBE6A9FB	The ID of the request.
Tags	Array of Tag		The tags.
Key	String	region	The key of the returned tag.
Value	List	hangzhou	The value of the returned tag.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/? Action=DescribeDcdnUserTags
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnUserTagsResponse>
  <Tags>
        <Key>env</Key>
        <Value>product</Value>
        <Value>pre</Value>
        <Value>daily</Value>
  </Tags>
  <Tags>
        <Key>region</Key>
        <Value>hangzhou</Value>
  </Tags>
  <RequestId>34AB41F1-04A5-496F-8C8D-634BDBE6A9FB</RequestId>
</DescribeDcdnUserTagsResponse>
```

`JSON` format

```
{
  "Tags": [
    {
      "Key": "env",
      "Value": [
        "product",
        "pre",
        "daily"
      ]
    },
    {
      "Key": "region",
      "Value": [
        "hangzhou"
      ]
    }
  ],
  "RequestId": "34AB41F1-04A5-496F-8C8D-634BDBE6A9FB"
}
```

Error codes

For a list of error codes, visit the API Error Center.

19.4. UntagDcdnResources

Detaches one or more tags from the specified resources.

> **Note** The maximum number of times that users can call this operation per second is 100.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UntagDcdnResources	The operation that you want to perform. Set the value to **UntagDcdnResources**.

Parameter	Type	Required	Example	Description
ResourceId.N	RepeatList	Yes	example.com	The ID of the resource. Valid values of N: **1** to **50**.
ResourceType	String	Yes	DOMAIN	The type of the resource. Set the value to **DOMAIN**.
TagKey.N	RepeatList	No	env	The key of the tag. Valid values of N: **1** to **20**.
All	Boolean	No	false	Specifies whether to delete all tags. Valid values: • **true**: yes. • **false**: no. The default value is **false**.

Response parameters

Parameter	Type	Example	Description
RequestId	String	97C68796-EB7F-4D41-9D5B-12B909D76508	The ID of the request.

Examples

Sample requests

```
http(s)://dcdn.aliyuncs.com/? Action=UntagDcdnResources
&ResourceId.1=example.com
&ResourceType=DOMAIN
&TagKey.1=env
&<Common request parameters>
```

Sample success responses

`XML` format

```
<UntagDcdnResourcesResponse>
  <RequestId>97C68796-EB7F-4D41-9D5B-12B909D76508</RequestId>
</UntagDcdnResourcesResponse>
```

`JSON` format

```
{
"RequestId":"97C68796-EB7F-4D41-9D5B-12B909D76508"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	TagIsInvalid	The number of Tag exceeds 20.	The error message returned because the number of tags exceeds 20.
400	ResourceIdIsInvalid	The number of ResourceId exceeds 50.	The error message returned because the number of resource IDs exceeds 50.

For a list of error codes, visit the API Error Center.

20.Tool management

20.1. DescribeDcdnIpInfo

Checks whether a specified IP address is assigned to an Alibaba Cloud Dynamic Route for CDN (DCDN) node.

> **Note** The maximum number of times that users can call this operation per second is 50.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDcdnIpInfo	The operation that you want to perform. Set the value to **DescribeDcdnIpInfo**.
IP	String	Yes	10.10.10.10	The IP address. You can specify only one IP address.

Response parameters

Parameter	Type	Example	Description
DcdnIp	String	True	Indicates whether the specified IP address is assigned to an Alibaba Cloud DCDN node. • True: The specified IP address is assigned to an Alibaba Cloud DCDN node. • False: The specified IP address is not assigned to an Alibaba Cloud DCDN node.
ISP	String	China Telecom	The Internet service provider (ISP) to which the specified IP address belongs.
IspEname	String	telecom	The name of the ISP.
Region	String	China-Guizhou-Guiyang	The region to which the specified IP address belongs.
RegionEname	String	China-Guizhou-guiyang	The name of the region.
RequestId	String	1B1D0EE7-9559-489D-BC4E-279495EB8FB8	The ID of the request.

Examples

Sample requests

```
http://dcdn.aliyuncs.com/?Action=DescribeDcdnIpInfo
&IP=10.10.10.10
&<Common request parameters>
```

Sample success responses

`XML` format

```
<DescribeDcdnIpInfoResponse>
  <RegionEname>China-Guizhou-guiyang</RegionEname>
  <Region>China-Guizhou-Guiyang</Region>
  <IspEname>telecom</IspEname>
  <RequestId>1B1D0EE7-9559-489D-BC4E-279495EB8FB8</RequestId>
  <ISP>China Telecom</ISP>
  <DcdnIp>True</DcdnIp>
</DescribeDcdnIpInfoResponse>
```

`JSON` format

```
{
    "RegionEname": "China-Guizhou-guiyang",
    "Region": "China-Guizhou-Guiyang",
    "IspEname": "telecom",
    "RequestId": "1B1D0EE7-9559-489D-BC4E-279495EB8FB8",
    "ISP": "China Telecom",
    "DcdnIp": "True"
}
```

Error codes

For a list of error codes, visit the API Error Center.

21.Terraform

21.1. Terraform overview

Terraform is an open source tool that supports automatic resource orchestration. Terraform allows you to preview, configure, and manage basic cloud infrastructure and resources in a secure and efficient manner. Terraform supports a variety of cloud service providers.

What is Terraform?

HashiCorp Terraform is an infrastructure as code (IaC) tool that supports automatic orchestration. Terraform allows you to manage IT resources by writing code. The easy-to-use CLI of Terraform allows you to deploy configuration files in Alibaba Cloud or other supported clouds and control the versions of the configuration files. Terraform allows you to define infrastructure resources such as VMs, storage accounts, and network interfaces in configuration files that describe cloud resource topologies.

Terraform is a highly scalable tool that supports new infrastructure by using providers. Terraform allows you to use a simple template language to define, preview, and deploy cloud infrastructure in Alibaba Cloud. You can use Terraform to create, modify, and delete cloud resources, such as Elastic Compute Service (ECS), Virtual Private Cloud (VPC), Alibaba Cloud CDN, ApsaraDB RDS, and Server Load Balancer (SLB) resources.

Terraform is a powerful DevOps tool that greatly reduces the management costs of infrastructure. It provides competitive advantages and benefits to cope with the growing complexity of business architectures, infrastructure, and resources. As cloud computing develops, Terraform is favored by an increasing number of cloud service providers and software service providers. Terraform has provided more than 100 providers and provisioners and supports up to 15 backend types.

Alibaba Cloud is the first cloud service provider in the Chinese mainland to integrate Terraform with its services. The Alibaba Cloud Provider (terraform-provider-alicloud) provides 163 resources and 113 data sources and covers 35 Alibaba Cloud services, including computing, storage, networking, load balancing, CDN, container, middleware, access control, and database services. This meets the requirements of many big customers in cloud deployment automation.

Alibaba Cloud provides developers with a variety of out-of-the-box modules and examples of services in categories such as computing, storage, networking, middleware, and database services. Feel free to contribute your own modules.

Benefits

Terraform provides the following benefits:

- Multi-cloud infrastructure deployment

  Terraform is ideal for multi-cloud scenarios in which similar infrastructure is deployed on Alibaba Cloud, other clouds, or data centers. Terraform allows developers to use the same tools and similar configuration files to manage infrastructure resources that are built on clouds of different providers.

- Automatic infrastructure management

  Terraform can be used to create configuration file templates to repeatedly define, provision, and configure ECS resources in a predictable manner. This reduces human errors during deployment or management operations. Terraform can deploy the same template multiple times to create identical development, test, and production environments.

- Infrastructure as Code

  In Terraform, you can use code to manage and maintain resources. You can use Terraform to save the status of infrastructure, track changes to system (IaC) components, and share the configuration with others.

- Reduced development costs

  You can develop and deploy environments on demand, and make assessments before system changes are made. This helps you reduce development costs.

Use scenarios

For more information, see Scenarios.

References

- Terraform Alibaba provider
- Terrafrom Alibaba github
- Terraform Registry Alibaba Modules

- Terraform Alicloud Cdn

21.2. Terraform terms

This topic describes the terms that are related to Terraform, such as configuration, provider, resource, data source, state, backend, and provisioner.

Configuration: the definition and description of an infrastructure.

Infrastructure as code (IaC): The term "code" refers to the definition and description of the infrastructure resources. Code is used to define resources to be managed. The code that is used to define resources is stored in a file whose extension is `tf`. The file can be loaded and parsed by Terraform. This file is called a Terraform template or a Terraform configuration.

Terraform supports the following resource types:

- Resource: a newly created resource object.
- Data source: provides information about and attributes of existing resources.

Provider: a component that supports infrastructure management.

Terraform allows you to create, update, view, and delete infrastructure resources such as VMs, network resources, containers, and storage resources. You can also use Terraform to manage physical machines. For example, you can use Terraform to install software and deploy applications.

A provider is a backend driver that directly interacts with OpenAPI. Terraform manages infrastructures by using providers. Each infrastructure provider requires a unique Terraform provider for management. Terraform provides more than 160 types of providers. Terraform supports most cloud service providers. The provider for Alibaba Cloud is `alicloud`.

Terraform supports the following resource types:

- Resource: a newly created resource object.
- Data source: provides information about and attributes of existing resources.

Resource: used to manage infrastructure resources and services.

In Terraform, a specific service is called a resource. For example, a resource can be an Elastic Compute Service (ECS) instance, a Virtual Private Cloud (VPC) network, or a Server Load Balancer (SLB) instance. Each resource contains a set of attribute fields that are used to describe a resource or a service. These fields store the metadata of a resource or a service, including the instance name, instance type, VPC CIDR block, and vSwitch CIDR block.

The syntax for defining a resource is simple: use the `resource` keyword.

Data source: used to query infrastructure resources and services.

O&M engineers or systems need to frequently query resources. For example, they may need to query zones in a region, instance types supported in a zone, images supported in a region, or the number of machines that belong to? the current account. This information helps developers determine subsequent operations. In addition, when you create a Terraform template, only some parameters used by a resource are static variables. Other parameters or variables may vary based on the resource that you configure. If you create an ECS instance, you must specify an image ID and an instance type. But the template may be updated at any time. If you specify the image ID and instance type in the code, you have to update the code when the template is changed.

In Terraform, data sources are used to query resources. If you use a data source to query resources, the query result contains dynamic variables. The value of a variable is determined only after the query is performed.

You can declare a data source by using the `data` keyword.

State: a database that stores resource relationships and attributes.

Terraform stores all resources it created or managed in its own database. This database is not a regular database such as a MySQL or Redis database. Instead, it is a file named `terraform.tfstate`. This file is also called a state file. By default, the state file is stored in the local directory where Terraform commands are executed. The `state` file is important. If it is damaged, Terraform determines that the resource is damaged or needs to be rebuilt (cloud resources are not affected). When Terraform runs a command, Terraform compares the state file with the template in the directory. If the state file is different from the template, Terraform creates a new resource or modifies the existing resource based on the template until the state file is the same as the template. Therefore, Terraform can be considered a stateful service.

When you collaborate with others, you must copy both the template and the `state` file. This increases the maintenance cost. To solve this issue, Terraform allows you to store the `state` file on a remote server, such as an `Object Storage Service (OSS)` bucket or `Consul`. Then, engineers who collaborate with you can copy the `state` file from the remote server.

Backend: a backend defines where Terraform stores the state file.

After Terraform creates a resource, Terraform stores the resource attributes in the `state` file, which can be stored on a local or remote server. A backend defines where the `state` file is stored.

Backends include local backends and remote backends. By default, local backends are used? Remote backends are of a variety of types. Terraform provides 13 types of remote backends, including OSS. Remote backends help you reduce the maintenance cost of the `state` file and improve the security of sensitive data when you need to collaborate with others.

Provisioner: used to perform specific actions on machines.

A provisioner is typically used to perform actions on a local or remote machine. For example, the `local-exec` provisioner runs commands on local machines. The `chef` provisioner installs, configures, and runs the Chef client on remote machines. The `remote-exec` provisioner logs on to and runs commands on remote machines.

Provisioners are used together with providers. Providers are used to create and manage resources and provisioners are used to perform actions on the machines.

For more terms that are related to Terraform, see .

21.3. Install and configure Terraform

Before you can use the simple template language of Terraform to define, preview, and deploy cloud infrastructure, you must install and configure Terraform.

Background information

Terraform is a highly scalable tool that supports new infrastructure by using providers. Terraform allows you to use a simple template language to define, preview, and deploy cloud infrastructure in Alibaba Cloud. You can use Terraform to create, modify, and delete cloud resources, such as Elastic Compute Service (ECS), Virtual Private Cloud (VPC), Alibaba Cloud CDN, ApsaraDB RDS, and Server Load Balancer (SLB) resources.

Terraform consists of the following components:

- Terraform CLI: the command-line interface of Terraform.
- Terraform providers: used to interface cloud resources with Terraform. Providers are developed and provided by cloud service providers. For more information about Terraform providers, see Provider.

References

- For more information about how to download Terraform, see Install and configure Terraform in the local PC and Use Terraform in Cloud Shell.
- For more information about how to use Terraform, see What is Terraform?