

# Alibaba Cloud Domains

## **Domain name management**

**Issue: 20200218**

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## Document conventions

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

Style	Description	Example
<b>{}</b> or <b>{a b}</b>	<b>This format is used for a required value, where only one item can be selected.</b>	switch { <i>active</i>   <i>stand</i> }



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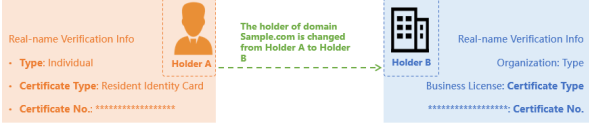
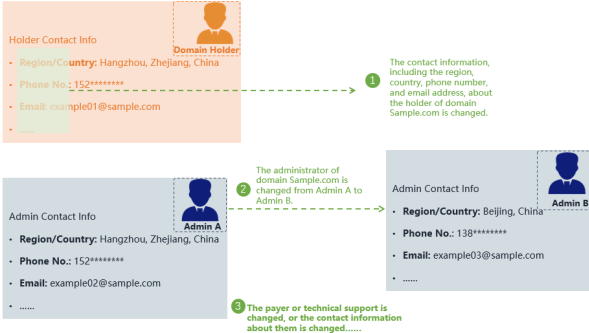
# 1 Change domain information

## 1.1 Transfer a domain to a new holder

If the domain name holder changes due to domain trading or other reasons, you must transfer the domain name to the actual holder as soon as possible. This topic describes how to transfer domain names to a new holder in different scenarios and the considerations that you must pay close attention to.

Differences between domain holder changes and other situations

The holder of the domain name was Person A. Due to certain reasons, such as domain trading and ICP filing, the actual holder of the domain name became Person B. In this case, the domain name must be officially transferred to Person B. The holder of the domain name remains the same, but the contact information about the holder has changed. In this case, only the domain name information needs to be updated. For more information, see [Modify domain name information](#). After a domain name is transferred to a new holder, the domain name remains under the same Alibaba Cloud account.

Scenario	Operation	Related topic
<p><b>The holder of a domain name changes:</b></p>  <p>The holder of domain Sample.com is changed from Holder A to Holder B.</p>	<p><b>Transfer the domain name to the actual holder</b></p>	<ul style="list-style-type: none"> <li>• <a href="#">Transfer one domain name</a></li> <li>• <a href="#">Transfer multiple domain names simultaneously</a></li> </ul>
<p><b>The holder of a domain name remains the same, but the contact information about the holder has changed:</b></p>  <p>The contact information, including the region, country, phone number, and email address, about the holder of domain Sample.com is changed.</p> <p>The administrator of domain Sample.com is changed from Admin A to Admin B.</p> <p>The payer or technical support is changed, or the contact information about them is changed.....</p>	<p><b>Modify domain name information</b></p>	<p><a href="#">Modify domain name information</a></p>

## Verification time

After a domain name is transferred to a new holder, the verification process takes three to five business days. Verification is required in the following scenarios:

- Transfer multiple domain names to the same new holder that provides a registrant profile that has already passed the real-name verification process:
  - The real-name verification process of transferring common domain names typically takes less time.
  - Transferring CNNIC domain names, such as .cn, .中国, and .公司 domain names, to a new holder who provides a registrant profile that has passed the real-name verification process requires less verification information. However, The China Internet Network Information Center (CNNIC) must verify all domain and real-name verification information. The verification process typically takes three to five business days.
- Transfer a domain name to a new holder who provides a registrant profile that has passed the real-name verification process:

To transfer one domain name to a new holder, select the registrant profile, enter the certificate number, and then submit the information for verification. The verification process typically takes three to five business days.

- Holders of special domain names such as .gov.cn cannot be changed online. The verification time varies depending on the actual situation.

**Note:**

It takes about three business days to synchronize verification results to the Ministry of Industry and Information Technology (MIIT) database. After a domain name is transferred to you, we recommend that you wait three business days before you apply for an ICP filing. Otherwise, your application may be declined.

## Materials required to change domain holders

The previous holder does not need to provide identity documents or certificates. The new holder must provide the required materials for real-name verification. For more information, see [#unique\\_6](#).

## Transfer one domain name

1. Log on to the [Alibaba Cloud Domains console](#).

2. On the Domain Names page, find and click the target domain name to go to the Basic Information page.
3. In the left-side navigation pane, choose Info Modification > Registrant Info Modification.
4. Enter the information about the new domain holder, or select a registrant profile that has passed the real-name verification process.
5. Select the I have read, understood and accepted Alibaba Cloud International Website Domain Name Service Agreement. check box, and then click Save.
6. Follow the instructions to transfer the domain name to the new holder.

Transfer multiple domain names simultaneously

1. Log on to the [Alibaba Cloud Domains console](#).
2. In the left-side navigation pane, choose Bulk Operations > Common Bulk Operation > Info Modification, or Bulk Operations > CNNIC Bulk Operation > Info Modification.
3. On the Bulk Operations page, enter the domain names that you want to transfer to a new holder. Select the Registrant Info check box, and then select a registrant profile that has passed the real-name verification process.
4. Obtain a verification code to complete email verification.
5. Select the I have read, understood and accepted Alibaba Cloud International Website Domain Name Service Agreement. check box, and then click Submit.
6. Follow the instructions to transfer the specified domain names to the new holder.

## 1.2 Modify domain name information

In case of any changes to your domain name information, including changes to your registrant's email address or phone number, or the administrative contact, you must modify the domain name information promptly to ensure that the information is accurate. This topic describes how to modify domain name information.

Procedure

1. Log on to the [Domain console](#).
2. On the Domain Name List page, find the target domain name, and click Manage in the Action column.

3. Go to the Basic Information page. In the left-side navigation pane, choose Information Modification and modify the registrant information such as the name, address, and email address. Click Next.
4. Select a verification method. If you use the modified email address of the registrant for verification, click Get Verification Code next to the email address.
5. Enter the verification code received at the email address, and click OK.

After the domain name information is successfully modified, Alibaba Cloud will send a notification to the original and new email addresses respectively.

Modify registration information of internationalized domain names

**Scenario:** The information of an international domain name changes or is incorrect

According to the *rules* of the Internet Corporation for Assigned Names and Numbers (ICANN) and regulations of the domain name registration agreement, Alibaba Cloud, as a domain name registrar, will send notifications on domain registration information updates to registrants' email addresses. You need to check the domain information promptly. In the event of any changes to or errors in the domain information, update the domain information as soon as possible to ensure that your domain name information is correct.

**Impact of failure to update domain name information promptly**

If your domain name information is incorrect or fails to be updated promptly, you may miss important notifications about the domain name, which may endanger your domain name. According to the provisions on domain name registration, if you provide false or invalid registration information or fail to update your registration information promptly, your domain name may be deleted.

**Conditions for modifying the registration information of internationalized domain names**

- Internationalized domain names must be registered at Alibaba Cloud.
- NSI internationalized domain names must be managed at Alibaba Cloud.

**Information and procedure for modification**

The registration information of internationalized domain names that can be modified includes the information of the registrant, administrative contact, billing contact, and technical contact. For more information about how to modify the

registration information of internationalized domain names, see [Modify domain name information](#).

## 1.3 Change the DNS server for a domain name

If a domain name is registered at Alibaba Cloud, Alibaba Cloud's Domain Name System (DNS) server is used by default. You can follow this topic to change the default Alibaba Cloud DNS server for a domain name to your registered DNS server or a third-party DNS server.

### Prerequisites

**You have your own DNS server or use a third-party DNS server.**

### Procedure

1. Log on to the [Domain console](#).
2. On the Domain Name List page, find the target domain name, and click Manage in the Action column.
3. On the Basic Information page, choose DNS Modification from the left-side navigation pane.
4. Click Change DNS Server.
5. Modify, add, or delete DNS server information, and then click OK.



#### Note:

After the DNS server is changed, resolution may take effect in up to 48 hours.

## 2 Renew domain names

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### 2.1 Domain name renewal

**Domain name renewal allows you to extend the validity period of your registered domain name. To ensure that your domain name can run normally, you can renew the domain name before it expires.**

#### Procedure

- 1. Log on to the [Alibaba Cloud Domains console](#).**
- 2. Find the domain name to be renewed, and then click Renew in the Actions column.**  
**To concurrently renew multiple domain names, select the domain names to be renewed, and then click Bulk Renew under the domain name list.**
- 3. On the Cart page that appears, select the domain name to be renewed, and then click Bulk Purchase.**
- 4. On the Order Confirmation page that appears, select the renewal period, and then click Pay.**
- 5. On the Payment page that appears, click Pay.**

**The following video shows a domain name renewal procedure.**

## 3 Redeem a domain name

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When a domain name is in the redemption grace period, you can contact the registrar to redeem the domain name at a higher price before the end of the redemption grace period. This topic describes the procedure for redeeming a domain name.

### Background

Generally, you have a 30-day renewal grace period after your domain name expires at Alibaba Cloud. If the domain name is not renewed within the renewal grace period, the domain name enters into the redemption grace period. If you want to redeem the domain name in the redemption grace period, you must pay a higher price.

### Procedure

To redeem a domain name, follow these steps:

1. Log on to the [Domain console](#).
2. On the Domain Name List page, click the To Be Redeemed tab.
3. Find the target domain name and click Redeem in the Action column.
4. Follow the instructions to complete the redemption.

To make sure that your domain name can be used properly, renew your domain name before it expires. This prevents you from having to pay extra for redemption. For more information about renewal, see [Renew a domain name](#).

The following video shows how to redeem a domain name.

## 4 Create registrant profile templates

Domain name registration, transfer, and trading require a registrant profile, including the registrant type, contact email, phone number, and address. Alibaba Cloud Domain allows you to create templates to manage registrant profiles.

We recommend that you decide the registrant of the domain name, create a registrant profile, and complete the real-name authentication process before you register, transfer, or trade a domain name.

### Template description

Alibaba Cloud Domain allows you to create two types of templates: common templates and CNNIC templates. You can use these templates to register domain names and change registrants.

Template type	Scenario	Notes
Common template	You can use a common template to register domain names, transfer domain names, and change registrants. This template cannot be applied to domain names that use the following top-level domains: .cn, .中国, .公司, and .网络.	The email address of the registrant must be verified after a common template is created. Otherwise, you cannot use the template to register a domain name.
CNNIC template	You can use a CNNIC template to register domain names, transfer domain names, and change registrants. This template can only be applied to domain names that use the following top-level domains: .cn, .中国, .公司, and .网络. You can also use a CNNIC template to complete the real-name authentication process.	<ul style="list-style-type: none"> <li>The email address of the registrant must be verified after a CNNIC template is created. Otherwise, you cannot use the template to register a domain name.</li> <li>You must complete the real-name authentication process after a CNNIC template is created. Otherwise, .cn, .中国, .公司, and .网络 domain names that you have registered using the template will be in Serverhold status and become inaccessible.</li> </ul>



## Create a common template

**You can create a common template on the Registrant Profiles page in the console or when you register a domain name.**

**You must select a template when you register a domain name. If you have not created a template, perform the following steps to create a common template in the Alibaba Cloud Domain console.**

- 1. Log on to the [Alibaba Cloud Domain console](#) and click Registrant Profiles.**
- 2. Click Common template and then click Create Registrant Profile in the upper-right corner.**
- 3. Enter all required information and click Save.**



**Note:**

**The information that you entered must be complete, real, and legal.**

- 4. Verify the email address**

**After you create a common template, click Verify Now to verify the email address of the registrant. You must provide a real and valid email address as ICANN requires.**

**On the Registrant Profiles page, you can perform the following operations on an existing template:**

- Set as default:** sets the template as the default template for registering domain names.
- Delete:** deletes the template.
- View:** displays details of the registrant.

## Create a CNNIC template

**You can create a CNNIC template on the Registrant Profiles page in the console, or when you register a .cn domain name.**

**You must select a template when you register a domain name. If you have not created a template, perform the following steps to create a CNNIC template in the Alibaba Cloud Domain console.**

- 1. Log on to the [Alibaba Cloud Domain console](#) and click Registrant Profiles.**
- 2. Click CNNIC template and then click Create Registrant Profile in the upper-right corner.**

### 3. Select a registrant type, enter all required information, and click Save.



**Note:**

**The information that you entered must be complete, real, and legal.**

### 4. Verify the email address

After you create a CNNIC template, click **Verify Now** to verify the email address of the registrant. You must provide a real and valid email address as ICANN requires.

### 5. Real-name authentication

After you create a CNNIC template, you must complete the real-name authentication process for the CNNIC template. For more information, see [Real-name authentication for .cn templates](#).

On the Registrant Profiles page, you can perform the following operations on an existing template:

- **Set as default:** sets the template as the default template for registering domain names.
- **Delete:** deletes the template.
- **View:** displays details of the registrant.

## 5 Verify the email address of a domain holder

The Internet Corporation for Assigned Names and Numbers (ICANN) requires that domain holder information on WHOIS must be valid and complete. The email address of a domain holder must be valid. Therefore, Alibaba Cloud verifies the email address of every domain holder. If the email address fails verification, the domain name will be in the ClientHold status, and the domain name cannot be resolved correctly. This topic describes how to verify the email address of a domain holder.

### Procedure

1. Log on to the [Alibaba Cloud Domains console](#).
2. In the left-side navigation pane, click **Email Verification**. Enter the email address in the **Verify new email address** field, and click **Submit**. A verification message is sent to the email address.



#### Note:

You can enter up to 100 email addresses at a time. Enter one email address per row.

The screenshot shows the 'Email Verification' page in the Alibaba Cloud Domains console. On the left, a sidebar contains navigation items: 'Domain Names', 'Bulk Operations', 'Registrant Profiles', 'Domain Transfers-In', 'Email Verification' (highlighted with a red box and a '1'), 'Change Log', and 'My Downloads'. The main content area features a yellow tip: 'Tip: According to the requirements of ICANN policies, domain name registration information must be truthful and accurate. The email address of the domain name holder must actually exist. To help you more easily register and manage domain names, we have added an email verification function. Once you use this function to verify your email address, you will not have to reverify it during subsequent domain name registration and management. [Learn More](#)'. Below the tip is a text input field labeled 'Verify new email address:' with a red circle '2' next to it. Below the input field is the text 'Up to 100 Email addresses are added each time.' and a red circle '3' next to a blue 'Submit' button. At the bottom, there is a search bar with fields for 'Email address:', 'Time added:', 'Verification status:' (set to 'All'), and buttons for 'Reset' and 'Search'.

3. Sign in to your email account to confirm the verification.



#### Note:

After you receive the verification email, you must confirm the verification within three days.

**4. After the email address is verified, its status becomes Verification successful on the Email Verification page.**

Email Verification


Tip: According to the requirements of ICANN policies, domain name registration information must be truthful and accurate. The email address of the domain name holder must actually exist. To help you more easily register and manage domain names, we have added an email verification function. Once you use this function to verify your email address, you will not have to reverify it during subsequent domain name registration and management. [Learn More](#)

Verify new email address:

Up to 100 Email addresses are added each time.

Email address:  Time added:  Verification status: All

<input type="checkbox"/> Email address	Time added(UTC)	Verification status	Operation
<input type="checkbox"/> @qq.com	Jan 13, 2020 02:56:17	Verification successful	Delete ( Reverification required after deletion )

 **Note:**

- **You can delete a verified email address. When you delete a verified email address, a verification code is sent to the phone number associated with your Alibaba Cloud account. The verification code is required to confirm the deletion.**
- **A deleted email address must be verified again by Alibaba Cloud before it can be reused as the email address of a domain holder.**

For more information, see [#unique\\_15](#).

## 6 Use RAM in Domain Name

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### 6.1 Overview

This document briefly introduces Resource Access Management (RAM) for domain name resources. If you do not need RAM, skip this section.

After you activate Alibaba Cloud domain name service, you have full permission to do operations on your Alibaba Cloud account resources by default. By enabling the RAM service, you can grant permissions for accessing and managing domain name resources under the Alibaba Cloud account to RAM users, that is, subusers.

For security purposes, we highly recommend that you [enable MFA service](#) for your sub-account to apply identity verification.

Before using RAM to grant permissions and access domain name resources, make sure that you have read the [RAM product documentation](#) and [API reference](#) carefully.

### 6.2 Resource Access Management

This document introduces Resource Access Management (RAM).

If you have more than one domain name under your account, and more than one user needs to manage those domain names, the following problems exist when these users share your account key:

- The shared key has a high risk of leakage.
- You are prone to security risks caused by misoperations because you cannot control other users' access permissions.

RAM is a resource access control service provided by Alibaba Cloud. You can manage your users with RAM, such as employees, systems, or applications, and you can also manage user permissions to control user access to specified resources in your account.

RAM can help you manage user permissions and control user access to specified resources. For example, you can apply one of the following authorization policies to a group to enhance security control:

- **Aliyundomainfullaccess** - Permission for managing domain names. This is the highest-level permission. The authorized sub-account is permitted to manage the domain name resources under the master account.

```
{
  "Statement": [
    # {
    #   "Action": "domain:*",
    #   "Effect": "Allow",
    #   "Resource": "*"
    # }
  ],
  "Version": "1"
}
```

- **Permission for managing a specific domain name.** The authorized sub-account is permitted to manage the resources of a specific domain name.

```
{
  "Version": "1",
  "Statement": [
    {
      "Action": [
        "domain:DomainInfoModification",
        "domain:DomainTransferInOperation",
        "domain:DnsModification",
        "domain:SecuritySetting",
        "domain:RealNameVerificationOperation",
        "domain:DomainTransferOutOperation",
        "domain:DnsHostModification",
        "domain:RegistrantProfileOperation",
        "domain:DomainGroupOperation",
        "domain:EmailVerificationOperation",
        "domain:DomainInfoModification"
      ],
      "Resource": "acs:domain:*:*:domain/example.com",
      "Effect": "Allow"
    },
    {
      "Action":
        "domain:Query*",
      "Resource": "acs:domain:*:*:*",
      "Effect": "Allow"
    }
  ]
}
```

- **AliyunDomainReadOnlyAccess** - Permission for accessing domain names in a read-only state. The authorized sub-account is permitted to view but not manage the domain name resources under the master account.

```
{
  "Version": "1",
  "Statement": [
    {
      "Action": [
        "domain:Query*"
      ],

```

```

    "Resource": "acs:domain:*:*:*",
    "Effect": "Allow"
  }
]
}

```

For more information about RAM, see [RAM product documentation](#).

## 6.3 Domain actions that can be authorized

This document describes the domain actions that can be authorized.

Authorized resources can carry out the following domain actions through RAM.

Authentication action	Description	API
Query common domain name information (QueryCommonInfo)	Query the domain name list under the current account.	<a href="#">QueryDomainList</a>
	Query a domain name under the current account.	<a href="#">QueryDomainByInstanceId</a>
	Query the contact information of a domain name.	<a href="#">QueryContactInfo</a>
	Verify the contact information.	<a href="#">VerifyContactField</a>
Query domain name logs (QueryChangeLog)	Queries operation logs.	<a href="#">QueryChangeLogList</a>
Query domain name task (QueryDomainTask)	Query the domain name task list.	<a href="#">QueryTaskList</a>
	Query the task history list of a domain name task.	<a href="#">QueryTaskInfoHistory</a>
	Query the detail list of a domain name task.	<a href="#">QueryTaskDetailList</a>
	Query the detail history list of a domain name task.	<a href="#">QueryTaskDetailHistory</a>
	Query the task detail list of completed domain name tasks.	<a href="#">PollTaskResult</a>

Authentication action	Description	API
<b>Modify domain name information (DomainInfoModification)</b>	<b>Submit a single task for modifying domain name information.</b>	<i>SaveSingleTaskForUpdatingContactInfo</i>
	<b>Submit a batch task for modifying domain name information.</b>	<i>SaveBatchTaskForModifyingDomainDns</i>
	<b>Submit a batch task for modifying domain name information by new registrant.</b>	<i>SaveBatchTaskForUpdatingContactInfoByNewContact</i>
	<b>Submit a single task for deleting a DNSHost.</b>	<b>SaveSingleTaskForDeletingDnsHost</b>
<b>Query email token (QueryEmailVerification)</b>	<b>Query email token</b>	<i>ListEmailVerification</i>
<b>Operations related to email token (EmailVerificationOperation)</b>	<b>Verify an email token.</b>	<i>DeleteEmailVerification</i>
	<b>Verify an email token.</b>	<i>VerifyEmail</i>
	<b>Re-send an email token.</b>	<i>ResendEmailVerification</i>
	<b>Send the list of email tokens.</b>	<i>SubmitEmailVerification</i>
<b>Query the information related to transferring in a domain name (QueryDomainTransferIn)</b>	<b>Check if it is permitted to transfer in a domain name .</b>	<i>CheckTransferInFeasibility</i>
	<b>Query the information related to transferring in a domain name by instance Id.</b>	<i>QueryTransferInByInstanceId</i>
	<b>Query the list of domain names transferred in.</b>	<i>QueryTransferInList</i>
<b>Email token for transferring in a domain name (TransferInCheckMailToken)</b>	<b>Email token for transferring in a domain name.</b>	<i>TransferInCheckMailToken</i>
<b>Transfer in a domain name (DomainTransferInOperation)</b>	<b>Re-enter the authorization code for transferring in a domain name.</b>	<i>TransferInReenterTransferAuthorizationCod</i>



Authentication action	Description	API
	Re-fetch the WHOIS email for transferring in a domain name.	<i>TransferInRefetchWhoisEmail</i>
	Re-send the email token for transferring in a domain name.	<i>TransferInResendMailToken</i>
	Cancel a single task for transferring in a domain name.	<i>SaveSingleTaskForCancelingTransferIn</i>
Query the information related to transferring out a domain name ( <i>QueryDomainTransferOut</i> )	Query the information related to transferring out a domain name.	<i>QueryTransferOutInfo</i>
Transfer out a domain name ( <i>DomainTransferOutOperation</i> ).	Cancel a single task for transferring out a domain name.	<i>SaveSingleTaskForCancelingTransferOut</i>
	Submit a single task for querying transfer authorization code.	<i>SaveSingleTaskForQueryingTransferAuthorizationCode</i>
Modify the DNSHost of a domain name ( <i>DnsHostModification</i> )	Submit a single task for creating a DNSHost.	<i>SaveSingleTaskForCreatingDnsHost</i>
	Submit a single task for modifying a DNSHost.	<i>SaveSingleTaskForModifyingDnsHost</i>
	Submit a single task for synchronizing a DNSHost.	<i>SaveSingleTaskForSynchronizingDnsHost</i>
Query the DNSHost of a domain name ( <i>DnsHostQuery</i> )	Query the DNSHost of a domain name	<i>QueryDnsHost</i>
Domain name DNS settings ( <i>DnsModification</i> )	Submit a batch task for modifying DNS.	<i>SaveBatchTaskForModifyingDomainDns</i>
Security settings ( <i>SecuritySetting</i> )	Submit a single task for transfer prohibition lock.	<i>SaveSingleTaskForTransferProhibitionLock</i>
	Submit batch task for transfer prohibition locks.	<i>SaveBatchTaskForTransferProhibitionLock</i>

Authentication action	Description	API
	Submit a single task for update prohibition lock.	<a href="#">SaveSingleTaskForUpdateProhibitionLock</a>
	Submit batch task for update prohibition locks.	<a href="#">SaveBatchTaskForUpdateProhibitionLock</a>
Operations related to registrant profile (RegistrantProfileOperation)	Create or save registrant profile of a domain name.	<a href="#">SaveRegistrantProfile</a>
	Create or save the specified registrant profile of a domain name.	<a href="#">DeleteRegistrantProfile</a>
Query registrant profile (QueryRegistrantProfile).	Query registrant profile in your account.	<a href="#">QueryRegistrantProfiles</a>
Acknowledge task result (AcknowledgeTaskResult)	Acknowledge task result.	<a href="#">AcknowledgeTaskResult</a>

## 6.4 Domain resource types that can be authorized

This document describes the domain resource types that can be authorized.

The following table lists the domain resource types that can be authorized through RAM.

Resource type	Description in authorization policy	Description
Domain	acs:domain:*:\$accountid:* acs:domain:*:\$accountid:domain/\$domainName	Authorize a sub-account to manage your domain names. Includes the permission to modify domain name information, apply for name verification, configure DNS settings, configure security settings and transfer domain name.

## 6.5 Domain API Authentication Rules

This document describes domain API authentication rules.

DNS API authentication rules for access to the main account resources by sub-accounts.

When a RAM user requests access to the Domain resources of the primary account by using the Domain APIs, the Domain backend sends a request to RAM to perform the request authentication. This authentication ensures that the resource owner indeed has granted access to these resources to the caller.

For each Domain API, the resources need to be checked are determined by the involved resources and the semantics of the API. The following table lists the authentication rules for each API.

Table 6-1: Resource level authorization

API	Authorization action	Authorization Resource
<i>SaveSingleTaskForUpdatingContactInfo</i>	<b>domain:DomainInfoModification</b>	<b>acs:domain:*\$accountid:domain/\$domainName</b>
<i>SaveBatchTaskForUpdatingContactInfo</i>		<b>acs:domain:*\$accountid:domain/\$domainName</b>
<b>SaveBatchTaskForUpdatingContactInfoByNewContact</b>		<b>acs:domain:*\$accountid:domain/\$domainName</b>
<i>TransferInReenterTransferAuthorizationCode</i>	<b>domain:DomainTransferInOperation</b>	<b>acs:domain:*\$accountid:domain/\$domainName</b>
<i>TransferInRefetchWhoisEmail</i>		<b>acs:domain:*\$accountid:domain/\$domainName</b>
<i>TransferInResendMailToken</i>		<b>acs:domain:*\$accountid:domain/\$domainName</b>
<i>SaveSingleTaskForCancelingTransferIn</i>		<b>acs:domain:*\$accountid:domain/\$domainName</b>
<i>SaveSingleTaskForCancelingTransferOut</i>	<b>domain:DomainTransferOutOperation</b>	<b>acs:domain:*\$accountid:domain/\$domainName</b>
<i>SaveSingleTaskForQueryingTransferAuthorizationCode</i>		<b>acs:domain:*\$accountid:domain/\$domainName</b>

API	Authorization action	Authorization Resource
<i>SaveSingleTaskForModifyingDnsHost</i>	<b>domain:DnsHostModification</b>	<b>acs:domain:*\$accountid:domain/\$domainName</b>
<i>SaveSingleTaskForCreatingDnsHost</i>		<b>acs:domain:*\$accountid:domain/\$domainName</b>
<i>SaveSingleTaskForSynchronizingDnsHost</i>		<b>acs:domain:*\$accountid:domain/\$domainName</b>
<b>SaveSingleTaskForDeletingDnsHost</b>		<b>acs:domain:*\$accountid:domain/\$domainName</b>
<i>SaveBatchTaskForModifyingDomain</i>	<b>domain:DnsModification</b>	<b>acs:domain:*\$accountid:domain/\$domainName</b>
<i>SaveSingleTaskForTransferProhibitionLock</i>	<b>domain:SecuritySetting</b>	<b>acs:domain:*\$accountid:domain/\$domainName</b>
<i>SaveBatchTaskForTransferProhibitionLock</i>		<b>acs:domain:*\$accountid:domain/\$domainName</b>
<i>SaveSingleTaskForUpdateProhibitionLock</i>		<b>acs:domain:*\$accountid:domain/\$domainName</b>
<i>SaveBatchTaskForUpdateProhibitionLock</i>		<b>acs:domain:*\$accountid:domain/\$domainName</b>

Table 6-2: Operation Level authorization

API	Authorization action	Authorization Resource
<i>QueryDomainList</i>	<b>domain:QueryCommoInfo</b>	<b>acs:domain:*\$accountid:*</b>
<i>QueryDomainByInstanceId</i>		<b>acs:domain:*\$accountid:*</b>
<i>QueryContactInfo</i>		<b>acs:domain:*\$accountid:*</b>
<i>VerifyContactField</i>		<b>acs:domain:*\$accountid:*</b>
<i>QueryTaskList</i>	<b>domain:QueryDomainTask</b>	<b>acs:domain:*\$accountid:*</b>
<i>QueryTaskInfoHistory</i>		<b>acs:domain:*\$accountid:*</b>
<i>QueryTaskDetailList</i>		<b>acs:domain:*\$accountid:*</b>

API	Authorization action	Authorization Resource
<a href="#">QueryTaskDetailHistory</a>		acs:domain:*\$accountid:*
<a href="#">PollTaskResult</a>		acs:domain:*\$accountid:*
<a href="#">QueryChangeLogList</a>	domain:QueryChangeLog	acs:domain:*\$accountid:*
<a href="#">QueryTransferInByInstanceId</a>	domain:QueryDomainTransferIn	acs:domain:*\$accountid:*
<a href="#">QueryTransferInList</a>		acs:domain:*\$accountid:*
<a href="#">CheckTransferInFeasibility</a>		acs:domain:*\$accountid:*
<a href="#">TransferInCheckMailToken</a>	domain:TransferInCheckMailToken	acs:domain:*\$accountid:*
<a href="#">QueryTransferOutInfo</a>	domain:QueryDomainTransferOut	acs:domain:*\$accountid:*
<a href="#">QueryDnsHost</a>	domain:QueryDnsHost	acs:domain:*\$accountid:*
<a href="#">QueryRegistrantProfiles</a>	domain:QueryRegistrantProfile	acs:domain:*\$accountid:*
<a href="#">ListEmailVerification</a>	domain:QueryEmailVerification	acs:domain:*\$accountid:*
<a href="#">AcknowledgeTaskResult</a>	domain:AcknowledgeTaskResult	acs:domain:*\$accountid:*
<a href="#">SaveRegistrantProfile</a>	domain:RegistrantProfileOperation	acs:domain:*\$accountid:*
<a href="#">DeleteRegistrantProfile</a>		acs:domain:*\$accountid:*
<a href="#">DeleteEmailVerification</a>	domain:EmailVerificationOperation	acs:domain:*\$accountid:*
<a href="#">VerifyEmail</a>		acs:domain:*\$accountid:*
<a href="#">ResendEmailVerification</a>		acs:domain:*\$accountid:*

API	Authorization action	Authorization Resource
<i>SubmitEmailVerification</i>		<b>acs:domain:*\$accountid:*</b>

Table 6-3: Service level authorization

API	Authorization action	Authorization Resource
*	<b>domain:*</b>	<b>acs:domain:*\$accountid:*</b>