Alibaba Cloud

Finplus API Reference

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C-J Alibaba Cloud

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Document conventions

Style	Description	Example
A 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.
O 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.
C) 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.
⑦ Note	A note indicates supplemental instructions, best practices, tips, and other content.	Onte: 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 listinstanceid 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}

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1.SPI reference

1.1. SPI security scheme

To publish a third-party software as a service (SaaS) product in Alibaba Cloud Marketplace, an independent software vendor (ISV) must define relevant SPI operations. By providing these operations, the ISV can obtain purchase information and activate the SaaS product for customers. Security verification is required for each SPI call. This topic describes the security scheme for SPI operations.

Target products

This security scheme is applicable to all SaaS products that are produced in SPI mode.

Security scheme

Security verification is required for each SPI call. A token is provided in each call. An ISV must verify the token after receiving it.

To generate a token, obtain all parameters except the token parameter from the HTTP GET request, arrange the parameters in alphabetical order to obtain a string, suffix the string with the security key of the ISV, and then encrypt the final string in MD5.

- ? Note
 - 1. Alibaba Cloud Market place may add specific parameters when calling an operation. Therefore, you must obtain all parameters except the token parameter from the HTTP GET request and generate a token based on the preceding rules. Then, check whether the generated token is the same as the value of the token parameter provided by Alibaba Cloud Market place.
 - 2. As an ISV, you can log on to the ISV portal of Alibaba Cloud Marketplace and view your security key on the **Overview** page.

Alibaba Cloud Market place may add specific parameters when calling an operation. Therefore, you must obtain all parameters except the token parameter from the HTTP GET request and generate a token based on the preceding rules. Then, check whether the generated token is the same as the value of the token parameter provided by Alibaba Cloud Market place.

Example

Request: http://www.isvwebsite.com?p1=1&p2=2&p3=3&token=xxxx

Token: "p1=1&p2=2&p3=3&key=isvkey".toMD5()

1.2. createInstance

After a customer purchases and pays for a software as a service (SaaS) product, Alibaba Cloud Market place calls this operation to instruct the independent software vendor (ISV) to create an SaaS instance.

- You must return a unique instance ID for each SaaS instance that is created. Alibaba Cloud Marketplace must provide the instance ID when calling other SPI operations, for example, the operations for renewing the subscription and notifying the ISV of instance expiration.
- We recommend that you use the value of the orderBizId parameter provided by Alibaba Cloud

Market place as the instance ID.

- Do not block this operation. If it takes a long period of time to create an instance, you can use a queue to buffer the requests, set the instance ID to 0, and then return the instance ID immediately. If the instance fails to be created, set the instance ID to 0. In this case, Alibaba Cloud Marketplace calls this operation again until a non-zero instance ID is returned.
- This operation may be called multiple times. If it is called repeatedly, make sure that the same instance ID is returned for a single instance.

Request parameters

Parameter	Required	Туре	Description
token	Yes	String	The token for security verification.
action	Yes	String	The operation that you want to perform. Set the value to createInstance.
aliUid	Yes	String	The unique ID of the Alibaba Cloud account that purchases the SaaS product.
orderBizId	Yes	String	The business ID in Alibaba Cloud Marketplace.
orderld	Yes	String	The ID of the order in Alibaba Cloud Marketplace.
product Code	Yes	String	The code of the SaaS product.
skuld	Yes	String	The SKU ID of the SaaS product.
trial	Yes	Boolean	Specifies whether the SaaS product is purchased in trial use mode.
expiredOn	No	DateTime	The time when the SaaS product expires, in the yyyy-MM-dd HH:mm:ss format.
template	No	String	The ID of the template. This parameter is applicable to template- type products for building sites.

Response parameters

Parameter	Required	Туре	Field	Description
instanceld	Yes	String	N/A	The unique ID of the SaaS instance provided by the ISV.
			name	The hostname of the server.
			ір	The IP address of the server.
			innerlp	The private IP address of the server.
			username	The account for logging on to the server.
			password	The password for logging on to the server.
		JSON	cname	The canonical domain name (CNAME) of the server.
hostInfo	No		tempDomain	The temporary domain name of the server.
			ftpUsername	The username for logging on to the FTP server.
			ftpPassword	The password for logging on to the FTP server.
		region	The information about the IDC where the server resides.	
			beianInfo	The information about the ICP filing.

Parameter	Required	Туре	Field	Description
			databaseInfo	The information about the database.
		JSON	frontEndUrl	The URL of the front-end system.
			adminUrl	The URL of the back-end system.
appInfo	No		username	The username of the administrator.
αρριπο			password	The password of the administrator.
			authUrl	The URL for logging on the SaaS product without authentication.
info	No	JSON	N/A	The custom key- value pair.

Sample requests

```
http://www.isvwebsite.com?
```

token=097a56e26a93c874140bbcdf403f3f60&action=createInstance&aliUid=123123323&orderId=10000
1&orderBizId=1&productCode=cmjj000123&skuId=sku-1

Sample responses

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```
{
"instanceId": "1",
"hostInfo": {
        "name": "linux server",
        "ip": "127.0.0.1",
        "username": "root",
        "password":"root password"
},
"appInfo": {
        "frontEndUrl":"http://yourdomain.com/",
        "adminUrl":"http://yourdomain.com/admin",
        "username":"admin",
        "password": "admin password"
},
"info": {
        "key1": "my custom info"
}
}
```

1.3. renewInstance

After a customer renews the subscription of a software as a service (SaaS) product, Alibaba Cloud Marketplace calls this operation to instruct the independent software vendor (ISV) to update the expiration time of the SaaS instance for the customer.

Parameter	Required	Туре	Description
action	Yes	String	The operation that you want to perform. Set the value to renewInstance.
instanceld	Yes	String	The ID of the SaaS instance.
orderld	Yes	String	The ID of the order in Alibaba Cloud Marketplace.
expiredOn	Yes	DateTime	The time when the SaaS product expires, in the yyyy-MM-dd HH:mm:ss format.
token	Yes	String	The token for security verification.

Request parameters

Response parameters

Parameter	Required	Туре	Description
success	Yes	Boolean	Indicates whether the operation was successful.

Sample requests

http://www.isvwebsite.com?token=9b7dfb7b363fb2380896f24a34a9d6c9&action=renewInstance&insta nceId=1&orderId=205060317920890&expiredOn=2013-01-01 01:01:01

Sample responses

{"success":"true"}

1.4. upgradeInstance

After a customer upgrades a software as a service (SaaS) product, Alibaba Cloud Market place calls this operation to instruct the independent software vendor (ISV) to upgrade the SaaS instance to the target SKU. The expiration time of the SaaS instance remains unchanged after the upgrade.

Request parameters

Parameter	Required	Туре	Description
action	Yes	String	The operation that you want to perform. Set the value to upgradeInstance.
instanceld	Yes	String	The ID of the SaaS instance.
skuld	Yes	String	The ID of the target SKU.
token	Yes	String	The token for security verification.

Response parameters

Parameter	Required	Туре	Description
success	Yes	Boolean	Indicates whether the operation was successful.

Sample requests

http://www.isvwebsite.com?token=9b7dfb7b363fb2380896f24a34a9d6c9&action=upgradeInstance&ins tanceId=1&skuId=cmgj00001

Sample responses

{"success":"true"}

1.5. expiredInstance

After a customer's Software as a Service (SaaS) product expires, Alibaba Cloud Marketplace calls this operation to instruct the independent software vendor (ISV) to freeze the specified SaaS instance.

Request parameters

Parameter	Required	Туре	Description
action	Yes	String	The operation that you want to perform. Set the value to expiredInstance.
instanceld	Yes	String	The ID of the SaaS instance.
token	Yes	String	The token for security verification.

Response parameters

Parameter	Required	Туре	Description	
success	Yes	Boolean	Indicates whether the operation was successful.	

Sample requests

http://www.isvwebsite.com?token=f5304f56329e1c672a0799df61bbe888&action=expiredInstance&ins
tanceId=1

Sample responses

{"success":"true"}

1.6. releaseInstance

After a customer releases a software as a service (SaaS) product, Alibaba Cloud Market place calls this operation to instruct the independent software vendor (ISV) to delete the specified SaaS instance.

Request parameters

Parameter	Required	Туре	Description
action	Yes	String	The operation that you want to perform. Set the value to releaseInstance.
instanceld	Yes	String	The ID of the SaaS instance.
token	Yes	String	The token for security verification.

Response parameters

Parameter	Required	Туре	Description
success	Yes	Boolean	Indicates whether the operation was successful.

Sample requests

http://www.isvwebsite.com?token=920704d52c2f0db89fd5d472f2819ec3&action=releaseInstance&ins tanceId=1

Sample responses

{"success":"true"}

1.7. verify

Alibaba Cloud Market place calls this operation to log on to the back-end system of the independent software vendor (ISV) without authentication.

After an SaaS instance is produced, a customer may need to log on to the back-end system of the ISV without authentication. Alibaba Cloud Marketplace uses the value of the authUrl field in the appInfo parameter returned by the createInstance operation and the request parameters of the verify operation to assemble a URL for logging on to the back-end system without authentication. After the ISV receives the verify request URL, the ISV verifies that the token is valid and the timestamp meets the constraints. Then, the ISV allows the customer to log on to the back-end system without authentication.

Request parameters

Parameter	Required	Туре	Description

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Parameter	Required	Туре	Description
action	Yes	String	The operation that you want to perform. Set the value to verify.
instanceld	Yes	String	The ID of the SaaS instance.
timeStamp	Yes	String	The current time, in the yyyy-MM-dd HH:mm:ss format.
token	Yes	String	The token for security verification.

Sample requests

http://www.isvwebsite.com?token=920704d52c2f0db89fd5d472f2819ec3&action=verify&instanceId=1
&timeStamp=2013-01-01 01:01:01