



Xopero Cloud Management API documentation

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Authorization

Some requests must be authorized, authorization is done by adding an 'Authorization' header to the request with a value 'Bearer <authorization_token>'.

Token can be generated by [Create API token](#) endpoint.

For security reasons, we recommend that authorization tokens be replaced every 15 minutes.

Global objects

License

<i>id</i>	<i>Identifier of license</i>	<i>guid</i>
<i>quantity</i>	<i>Quantity of license</i>	<i>int</i>
<i>name</i>	<i>Name of license</i>	<i>string</i>

Storage

<i>id</i>	<i>Identifier of storage (parameter should be empty, while we are creating new storage)</i>	<i>guid</i>
<i>capacity</i>	<i>Capacity of a storage (in bytes)</i> 1 GB = 1073741824 bytes	<i>ulong</i>
<i>type</i>	<i>Type of a storage.</i> <i>The parameter value should be always set to 1</i> CloudS3Storage - 1	<u>Enum<EStorageType></u>
<i>status</i>	<i>Status of a storage</i>	<u>Enum<EStorageStatus></u>

Responses from API

If the request to the API was successful, the **Error** field will be **null**, otherwise if request ended up with an error, the Error field will be [ErrorCodedException](#) object

ErrorCodedException

<i>errorCode</i>	<i>Error code in <u>Enum<ErrorCode></u></i>	<u>Enum<ErrorCode></u>
<i>errorMessage</i>	<i>Error message</i>	<i>string or null</i>

Service

Service:name	Service name	string
Service:type	Service type enum	Enum<ServiceType>
Service:subscriptionPeriod	Subscription period enum	Enum<SubscriptionPeriod>
Service:licenses	Array containing license objects parameters	Licenses[]
Service:storages [optional]	Array containing storage objects parameters	Storages[]
Service:email [optional]	Admin e-mail (for default it's customer e-mail address)	string
Service:password [optional]	Admin password (if not provided, it will be generated and sent to e-mail)	string
Service:validTo [optional] [Required] if service type is TimeLimited	The date when the service is to be automatically disabled.	dateTime
Service:isTrial [optional]	Indicating whether service is trial service	boolean
Service:region	<p>Service should start in one of the selected region. The service will be launched only in one (currently the least loaded) of the selected regions.</p> <p>Partner must have access to selected regions when creating service</p> <p><u>If you want to give the service access to try start in more regions, this is done by a logical sum, e.g. if the client have access to the regions XoperoAsia (4) and XoperoAmerica (2) set the region parameter = 6</u></p>	Enum<ERegion>
Service:trialLength [optional]	<p>If service is trial service, this parameter indicates how many days trial should be active (minimum 1 day, maximum 30 days)</p> <p>If the parameter is empty, but service is set to trial mode, for default it will gain 30 trial days.</p>	int

GetCompanyResult

<i>address</i>	<i>Company billing address</i>	<i>string</i>
<i>country</i>	<i>Company country name</i>	<i>string</i>
<i>name</i>	<i>Company name</i>	<i>string</i>
<i>Id</i>	<i>Company identifier</i>	<i>guid</i>
<i>Owner</i>	<i>Company owner email address</i>	<i>string</i>
<i>Type</i>	<i>Company type</i>	<u>Enum<CompanyType></u>
<i>AddressExt</i>	<i>Company billing address</i>	<i>string</i>
<i>IsTrusted</i>	Indicating whether the company uses its own pool or the parent's pool	boolean
<i>TaxId</i>	Company tax identifier	string
<i>TrialsEnabled</i>	Indicating whether the customer company have access to issue trial licenses	boolean

Definitions

Subscription periods

Subscription - A service period whose expiration date is extended at the first day of each month to the next billing period (falls on the last day of the month).

TimeLimited - The service is created with an expiration date.

LifeTime - A service that is created only in the trial. This service is valid for lifetime after approval by the Distributor.

Stripe

Xopero Stripe - A payment and service maintenance model closely related to Stripe. It is dedicated directly to end users and operates fully as a standard subscription model. A service period whose expiration date is extended at the end of each month to the next billing period (falls on the last day of the month). From the XMS panel, the user is taken to the purchase screen, where he selects the licenses he is interested in. After confirming the selection, the user is taken to the stripe payment screen, where the user enters data (including credit card data, which is used later to recharge for subsequent billing periods).

Enums

ERegion

<i>XoperoEMEA</i>	1
<i>XoperoAmerica</i>	2
<i>XoperoAsia</i>	4
<i>GitProtectEmea</i>	32
<i>GitProtectAmerica</i>	64
<i>GitProtectAsia</i>	128

SubscriptionPeriod

<i>Subscription</i>	1
<i>TimeLimited</i>	2
<i>Lifetime</i>	3

ServiceType

<i>SaaS</i>	1
<i>On-Premise</i>	2

ESettlementMode

<i>Trial</i>	0
<i>PoolSeatDays</i>	1
<i>GitHubMarketplace</i>	2
<i>PaymentApi</i>	3
<i>AtlassianMarketplace</i>	4

EServiceStatus

<i>Unknown (probably just created)</i>	0
<i>Awaiting (for initialization)</i>	1
<i>Open</i>	2
<i>Closed</i>	3
<i>Migration (temporary disabled)</i>	4
<i>Suspended</i>	5
<i>Removing</i>	6
<i>Removed</i>	7

EContainerStatus

<i>NotInitialized</i>	0
<i>Created</i>	1
<i>LicenseSubmitted</i>	2
<i>LicenseAssigned</i>	3
<i>Destroyed</i>	4
<i>Destroying</i>	5
<i>Suspending</i>	6

EStorageStatus

<i>Awaiting</i>	0
<i>Open</i>	1
<i>Closed</i>	2
<i>ToClose</i>	6
<i>Closing</i>	7

CompanyType

<i>MspPartner</i>	0
<i>Customer</i>	1
<i>Distributor</i>	3
<i>Operator</i>	4

EStorageType

<i>Undefined</i>	0
<i>CloudS3Storage</i>	1

Error codes

Error code	Simplified error name		Error code	Simplified error name
0	Unknown		31	Company out of scope
1	Invalid request		32	Cannot modify service
2	Invalid username or password		33	Licenses mutually exclusive
5	Service not found		40	One time password required
6	Wrong service type		41	One time password is invalid
7	Storage not found		42	User already exists
8	Invalid password		43	Out of regions (The service cannot be created in a region to which the partner does not have access)
9	User not found		50	Not allowed username
11	License not found		51	Not allowed user email
12	Access denied		57	Company identifier cannot be empty guid
13	Not authorized		61	Argument is empty guid
15	Invalid email format		64	Company has not got company features
16	Password too short		68	Invalid company type
17	Company not exists		77	License quantity is too low
18	Resource pool exhausted		111	Company has limited storage
20	Service name empty		117	Service already exists for this user
22	Trials are disabled		118	Customer has no privilege to create service
23	Date from past			
27	Company name too short			
29	Only on-premises allowed			
30	Only customer can create service			

Create API token

Allows to obtain an API key (authorization token) based on email and password.

Request URL	https://one.xopero.com/api/token	
Request method	POST	
Parameters	Parameter description	Type
<i>email</i>	<i>E-mail address</i>	<i>string</i>
<i>password</i>	<i>Password</i>	<i>string</i>
<i>oneTimePassword</i> [required for accounts with OTP enabled]	<i>One-time password (for 2FA enabled accounts)</i>	<i>string</i>
Example method body	<pre>{ "email": "string", "password": "string" }</pre>	

Example response:

```
{
  "result": {
    "accessToken":
      "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6IjdiNmEzMGIzLTg3NzQtNGU2My05O",
      "validTo": "2022-09-01T16:48:25Z"
  },
  "isSuccess": true,
  "error": null
}
```

Create user with service **[Authorization required]**

Allows to create user with service in scope of current partner

Response from API contains created service guid.

For cloud service you can check service status using [Check cloud service status endpoint](#)

Request URL	https://one.xopero.com/api/companies/unified_creation	
Request method	POST	
Parameters	Parameter description	Type
<i>name</i>	<i>Customer name</i>	<i>string</i>
<i>owner</i>	<i>Customer e-mail address</i>	<i>string</i>
<i>Address [optional]</i>	<i>First line of customer address</i>	<i>string</i>
<i>addressExt [optional]</i>	<i>Second line of customer address</i>	<i>string</i>
<i>taxId [optional]</i>	<i>Tax ID</i>	<i>string</i>
<i>trialsEnabled [optional]</i>	<i>Indicating whether the customer company have access to issue trial licenses</i>	<i>boolean</i>
<i>isTrusted [optional]</i>	<i>Indicating whether the client company uses its own pool or the parent's pool</i>	<i>boolean</i>
<i>region</i>	<p>Indicating for which region customer will gain access (can contain multiple value)</p> <p>Partner must have access to selected regions when creating customer</p> <p><u>If you want to give the user access to more regions, this is done by a logical sum, for example, e.g. if the client is to have access to the regions XoperoAsia (4) and XoperoAmerica (2) set the region parameter = 6</u></p>	Enum<ERegion>
<i>stripeEnabled [optional]</i>	<p>Indicating whether the customer can settle with Xopero stripe</p>	<i>boolean</i>
<i>Service [object]</i>	Object containing service parameters	Service

Example method body

```
{
  "Name": "trialClient",
  "Owner": "example@example.com",
  "Address": null,
  "AddressExt": null,
  "TaxId": null,
  "TrialsEnabled": false,
  "StripeEnabled": false,
  "Region": 1,

  "Service":{
    "Name": "trialService",
    "Type": 2,
    "SubscriptionPeriod": 0,
    "Licenses":[
      {
        "Id": "00000000-0000-0000-0000-000000000000",
        "Quantity": 5
      }
    ],
    "IsTrial": true,
    "Region": 1
  }
}
```

Example response:

```
{
  "result": "00000000-0000-0000-0000-000000000000",
  "isSuccess": true,
  "error": null
}
```

Response explanation:

Parameters	Parameter description	Type
<i>result</i>	<i>Identifier of created service in guid format</i>	<i>string</i>

Convert trial service to full **[Authorization required]**

Allows to convert trial service to full service

Request URL	https://one.xopero.com/api/services/{id:guid}	
Request method	PATCH	
Parameters	Parameter description	Type
id [from route]	Identifier of service	guid
licenses	Array of license objects	Licenses []
Example method body	<pre>{ "IsTrial": false, "Licenses":[{ "Id": "00000000-0000-0000-0000-000000000000", "Quantity": 55 }] }</pre>	

Example response:

```
{
  "isSuccess": true,
  "error": null
}
```

Get detailed information about the service **[Authorization required]**

Request URL	https://one.xopero.com/api/services/{id:guid}	
Request method	GET	
Parameters	Parameter description	Type
<i>id [from route]</i>	<i>Identifier of service</i>	<i>guid</i>

Example response:

```
{
  "result": {
    "id": "00000000-0000-0000-0000-000000000000",
    "name": "canConvert?",
    "type": 2,
    "status": 2,
    "containerStatus": 0,
    "cloudUrl": null,
    "validFrom": "2022-08-25T15:59:18.11512",
    "validTo": null,
    "trialValidTo": "2022-09-24T15:59:18.11512",
    "createdAt": "2022-08-25T15:59:18.127938",
    "lastModificationAt": "2022-08-25T15:59:18.127939",
    "deletedAt": null,
    "userRequiresActivation": false,
    "serviceRequiresActivation": false,
    "storages": [
      {
        "id": "00000000-0000-0000-0000-000000000000",
        "capacity": 107374182400,
        "status": 0,
        "type": 0
      }
    ],
    "licenses": [
      {
        "id": "00000000-0000-0000-0000-000000000000",
        "icon": null,
        "name": "Virtual Agent per Socket",
        "features": [5],
        "quantity": 55
      }
    ],
    "activationKey": null,
    "subscriptionPeriod": 0,
    "runningMode": 1
  },
  "isSuccess": true,
  "error": null
}
```

Response explanation:

Parameters	Parameter description	Type
<i>id</i>	<i>Identifier of service</i>	<i>guid</i>
<i>name</i>	<i>Name of service</i>	<i>string</i>
<i>type</i>	<i>Service type enum</i>	<i>Enum<ServiceType></i>
<i>status</i>	<i>Service status enum</i>	<i>Enum<EServiceStatus></i>
<i>containerStatus</i>	<i>Container status of cloud service enum</i>	<i>Enum<EContainerStatus></i>
<i>cloudUrl</i>	<i>If service is cloud, this parameter contains URL link to service</i>	<i>string</i>
<i>validFrom</i>	<i>Service valid from</i>	<i>DateTime (UTC)</i>
<i>validTo [nullable]</i>	<i>Service valid to</i>	<i>DateTime (UTC)</i>
<i>trialValidTo [nullable]</i>	<i>Service trial valid to</i>	<i>DateTime (UTC)</i>
<i>createdAt</i>	<i>Service creation date</i>	<i>DateTime (UTC)</i>
<i>lastModificationAt</i>	<i>Service last modification date</i>	<i>DateTime (UTC)</i>
<i>deletedAt [nullable]</i>	<i>Date of service removal</i>	<i>DateTime (UTC)</i>
<i>userRequiresActivation</i>	<i>Indicating if user require activation</i>	<i>boolean</i>
<i>serviceRequiresActivation</i>	<i>Indicating if service require activation</i>	<i>boolean</i>
<i>storages</i>	<i>Array containing storage objects parameters</i>	<i>Storages[]</i>
<i>licenses</i>	<i>Array containing license objects parameters</i>	<i>Licenses[]</i>
<i>activationKey</i>	<i>If service type is On-Premise, this property contains activation key (SN)</i>	<i>string</i>
<i>subscriptionPeriod</i>	<i>Subscription period enum</i>	<i>Enum<SubscriptionPeriod></i>
<i>runningMode</i>	<i>Running mode enum</i>	<i>Enum<ESettlementMode></i>

Get list of licenses available for partner / distributor **[Authorization required]**

Request URL	https://one.xopero.com/api/v2/licenses	
Request method	GET	
Parameters	Parameter description	Type
<i>companyId</i> [from query]	<i>Identifier of company</i> (can be retrieved from Get company list)	<i>guid</i>

Example response:

```
{
  "result": {
    "itemCount": 12,
    "items": [
      {
        "id": "00000000-0000-0000-0000-000000000000",
        "name": "GitProtect Enterprise",
        "icon": "fab fa-git-alt",
        "licenseType": 2000,
        "maxQuantity": 16666666666,
        "quantity": 0,
        "premiumSupportActivated": false,
        "features": [7, 3]
      },
      {
        "id": "00000000-0000-0000-0000-000000000000",
        "name": "JIRA",
        "icon": null,
        "licenseType": 2002,
        "maxQuantity": 16666666666,
        "quantity": 0,
        "premiumSupportActivated": false,
        "features": [6]
      }
    ]
  },
  "isSuccess": true,
  "error": null
}
```


Check cloud service status

Request URL	https://one.xopero.com/api/cloud/progress/{id:guid}	
Request method	GET	
Parameters	Parameter description	Type
<i>id [from query]</i>	<i>Identifier of cloud service</i>	<i>guid</i>

Example response:

```
{
  "result": {
    "instanceCreated": true,
    "instanceUrl": "00000000-0000-0000-0000-000000000000.sin.xopero.com"
  },
  "isSuccess": true,
  "error": null
}
```

Response explanation:

Parameters	Parameter description	Type
<i>instanceCreated</i>	<i>True if the cloud service has started, otherwise false</i>	<i>boolean</i>
<i>instanceUrl</i>	<i>InstanceUrl will be returned after container assignation.</i>	<i>string</i>

Get company list [Authorization required]

Retrieves list of Companies in user scope

Request URL	https://one.xopero.com/api/Companies
Request method	GET

Example response:

```
{
  "result": {
    "itemCount": 2,
    "items": [
      {
        "id": "00000000-0000-0000-0000-000000000000",
        "type": 1,
        "name": "example company",
        "address": null,
        "addressExt": null,
        "country": "",
        "taxId": null,
        "trialsEnabled": true,
        "isTrusted": true,
        "owner": "example@example.com"
      },
      {
        "id": "00000000-0000-0000-0000-000000000000",
        "type": 1,
        "name": "example company2",
        "address": "Herberta 3",
        "addressExt": null,
        "country": "Poland",
        "taxId": null,
        "trialsEnabled": false,
        "isTrusted": false,
        "owner": "example2@example.com"
      }
    ]
  },
  "isSuccess": true,
  "error": null
}
```

Response explanation:

Parameters	Parameter description	Type
<i>itemCount</i>	<i>Number of items in the list</i>	<i>int</i>
<i>items</i>	<i>Array of GetCompanyResult[]</i>	GetCompanyResult[]
<i>id</i>	<i>Company identifier</i>	<i>guid</i>
<i>type</i>	Company type	Enum<CompanyType>
<i>name</i>	<i>Company name</i>	<i>string</i>
<i>address</i>	<i>Company billing address</i>	<i>string</i>
<i>addressExt</i>	<i>Company billing address</i>	<i>string</i>
<i>country</i>	<i>Company billing country</i>	<i>string</i>
<i>taxId</i>	<i>Company tax identifier</i>	<i>string</i>
<i>trialsEnabled</i>	<i>Indicating whether the customer company have access to issue trial licenses</i>	<i>boolean</i>
<i>isTrusted</i>	<i>Indicating whether the client company uses its own pool or the parent's pool</i>	<i>boolean</i>
<i>owner</i>	<i>Company owner email address</i>	<i>string</i>