

Configure Update and Return of License Reservation on Intersight PVA

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Introduction

This document describes the process of update and return of a license once Intersight Private Virtual Appliance (PVA) is installed. It does not cover the initial reservation process required during installation.

Prerequisites

Requirements

Cisco recommends that you have basic understanding of Intersight PVA.

Components Used

The information in this document is based on these software versions:

- Intersight PVA version 1.0.9-442
- Smart Software Licensing access

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Background Information

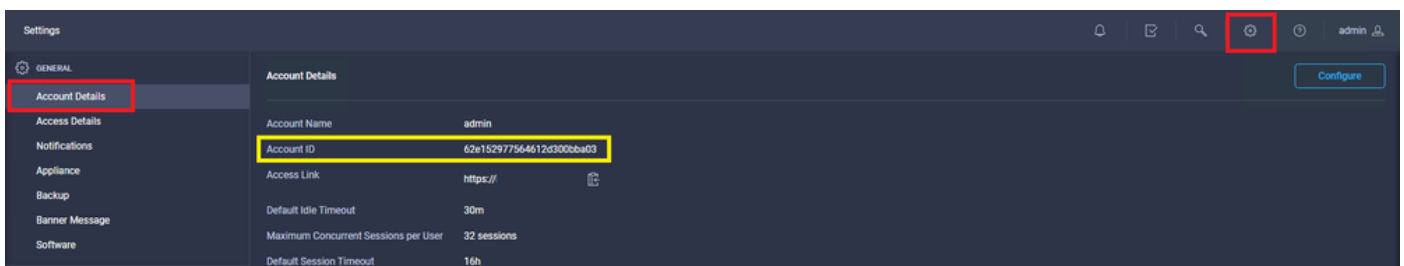
Intersight PVA is intended for environments where you operate data centers in a disconnected (air gap) mode. Hence, to install licenses you must use Specific License Reservation (SLR) which is a feature for highly secure networks. It provides a method for customers to deploy a Software License on a Device (Product Instance) without the need to communicate the usage information to Cisco.

Configure

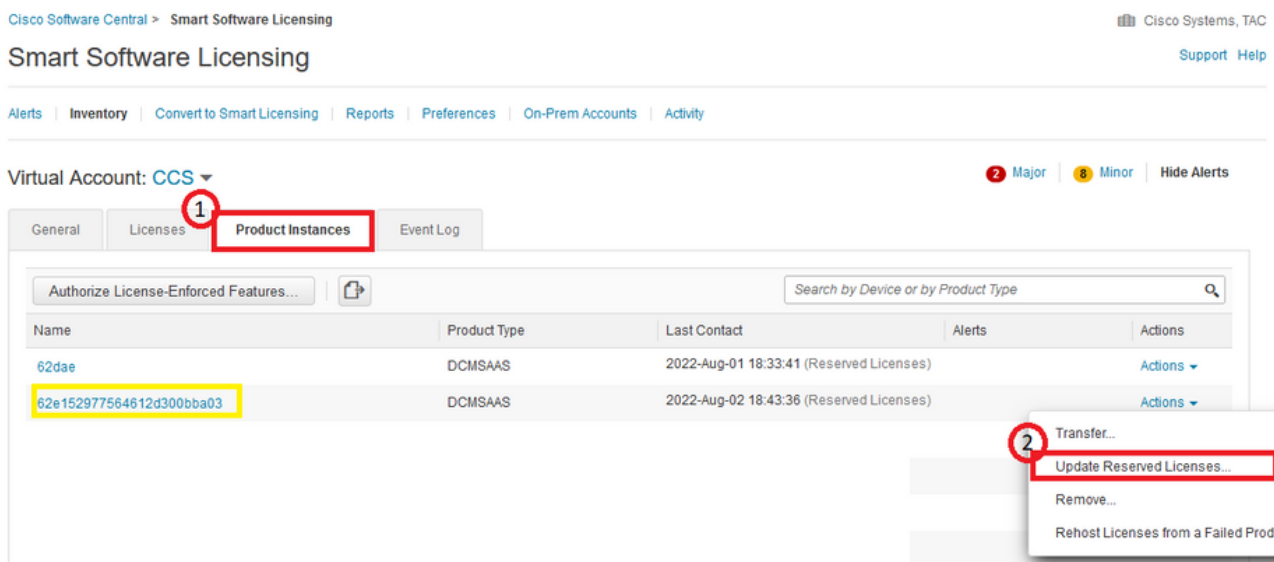
Update License Reservation

Log in to your [Cisco Smart Software Manager](#), navigate to the proper virtual account, select the **Product Instances** tab and identify your Account ID.

Tip: In order to identify your Account ID on Intersight, navigate to **Settings > General > Account Details**



From the **Actions** drop-down menu, select **Update Reserved Licenses**.



The **Update License Reservation** wizard appears.

Step 1. Select Licenses

Shows the reservation made in the past. On this page, you can update the reservation quantity. In this example, we update the license to a quantity of 3.

Note: After you update the license reserve count, the **Next** button is grayed out until you click anywhere on the screen.

The screenshot shows the 'Update License Reservation' dialog box at Step 1: Select Licenses. The progress bar indicates Step 1 is active, Step 2 is next, and Step 3 is final. The 'Product Instance Details' section shows Product Type: DCMSAAS and SUVI: 62e152977564612d300bba03. Under 'Licenses to Reserve', there is a radio button selected for 'Reserve a specific license'. A table lists licenses with columns for License, Expires, Purchased, Available, and Reserve. The 'Reserve' column for the Level 2 license has a red box around the value '3'. At the bottom right, there are 'Cancel' and 'Next' buttons.

License	Expires	Purchased	Available	Reserve
Level2 Supports substitution				
Intersight Private Virtual Appliance - AD <small>Intersight Private Virtual Appliance - Advantage</small>	2022-Oct-31	3	0	3
Level 3				
Intersight Private Virtual Appliance - ES <small>Intersight Private Virtual Appliance - Essentials</small>	-	1	0	0

Step 2. Review and Confirm

Verify the license tier and quantity is correct, then select **Generate Authorization Code**.

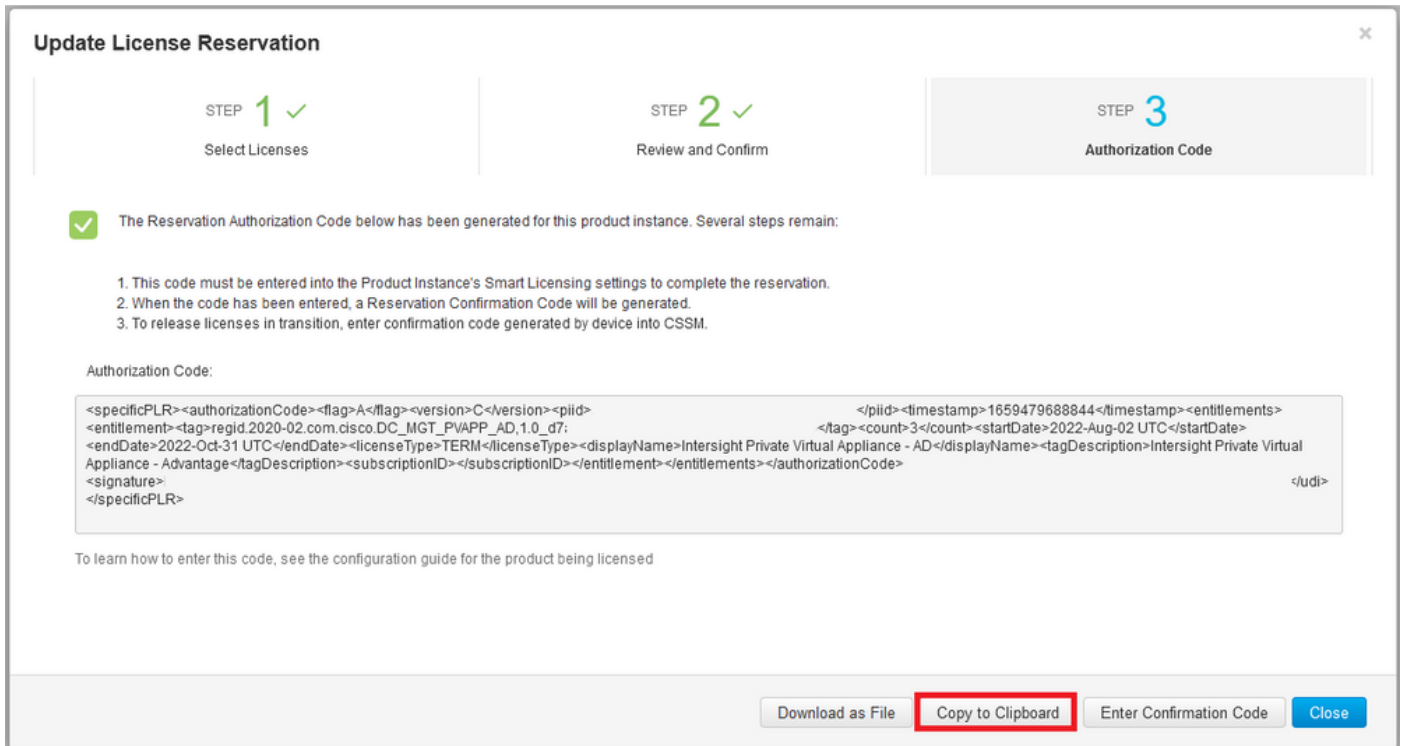
The screenshot shows the 'Update License Reservation' dialog box at Step 2: Review and Confirm. The progress bar indicates Step 1 is complete, Step 2 is active, and Step 3 is final. The 'Product Instance Details' section shows Product Type: DCMSAAS and SUVI: 62e152977564612d300bba03. Under 'Licenses to Reserve', a table lists licenses with columns for License, Expires, and Quantity to Reserve. The 'Quantity to Reserve' for the Level 2 license is 3. At the bottom right, there are 'Cancel', 'Back', and 'Generate Authorization Code' buttons.

License	Expires	Quantity to Reserve
Level 2		
Intersight Private Virtual Appliance - AD <small>Intersight Private Virtual Appliance - Advantage</small>	2022-Oct-31	3

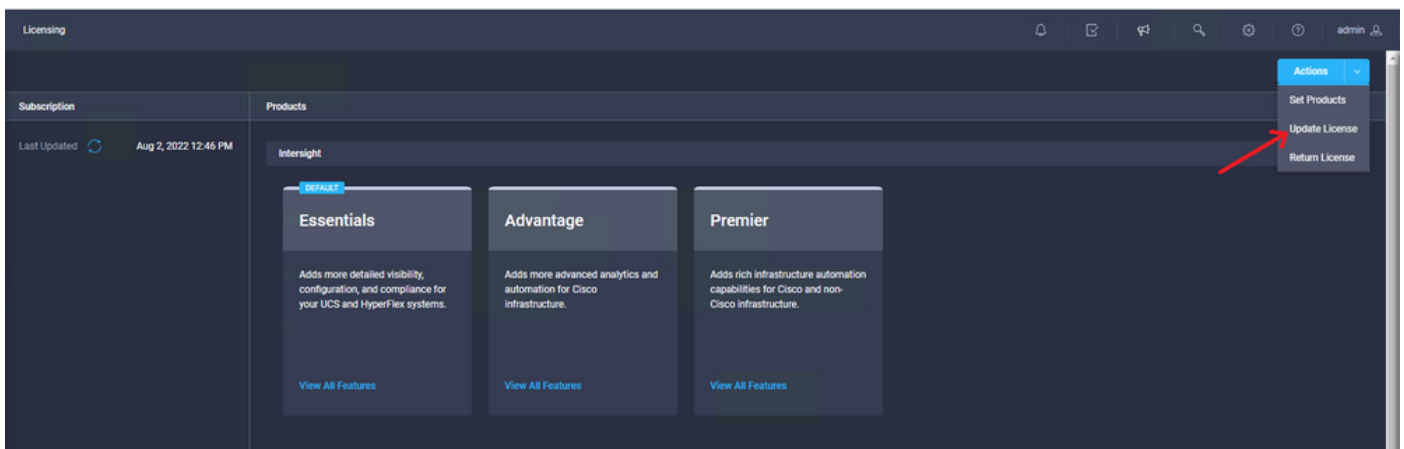
Step 3. Authorization Code

From this page, you must copy the Authorization Code in order to generate the Confirmation Code

to complete the update. It can take a few minutes for the confirmation code to be generated. So, once you have the Authorization Code, you can then close the wizard as shown in this.



Log in to your Intersight PVA and navigate to **Settings > Licensing**. From the **Actions** drop-down menu, select **Update License**.



Paste the Reservation Code that you obtain from the Smart Licensing portal and then select **Generate Reservation Confirmation Code**. Once Intersight provides the code, copy it to the clipboard.



Step 1

Update License

Update the license information for your appliance.

- 1 Obtain Reservation Authorization Code from [Cisco Smart Software Manager](#) to generate Reservation Confirmation Code.

Reservation Authorization Code *


```
<specificPLR><authorizationCode><flag>A</flag>  
<version>C</version><piid>  
  </piid>
```


Generate Reservation Confirmation Code

Reservation Confirmation Code

- 1 Use Reservation Confirmation Code in [Cisco Smart Software Manager](#) to complete the license update.

Actions

 Download

 Copy To Clipboard

Go back to the Smart Licensing portal on the **Product Instances** tab, identify again your Account ID, and from the **Actions** drop-down menu, select **Enter Confirmation Code** as shown in this image.

Smart Software Licensing

[Support](#) [Help](#)[Alerts](#) | [Inventory](#) | [Convert to Smart Licensing](#) | [Reports](#) | [Preferences](#) | [On-Prem Accounts](#) | [Activity](#)

Virtual Account: CCS ▾

2 Major | 9 Minor | [Hide Alerts](#)

General | Licenses | **Product Instances** | Event Log

Authorize License-Enforced Features...

Name	Product Type	Last Contact	Alerts	Actions
	DCMSAAS	2022-Aug-01 18:33:41 (Reserved Licenses)		Actions ▾
62e152977564612d300bba03	DCMSAAS	2022-Aug-08 05:09:58 (Reserved Licenses)		Actions ▾

- Transfer...
- Update Reserved Licenses...
- Enter Confirmation Code...**
- Remove...
- Rehost Licenses from a Failed Product...

Copy or upload the code here for the update to be effective and select the **OK** button to complete the update process as shown in this image.

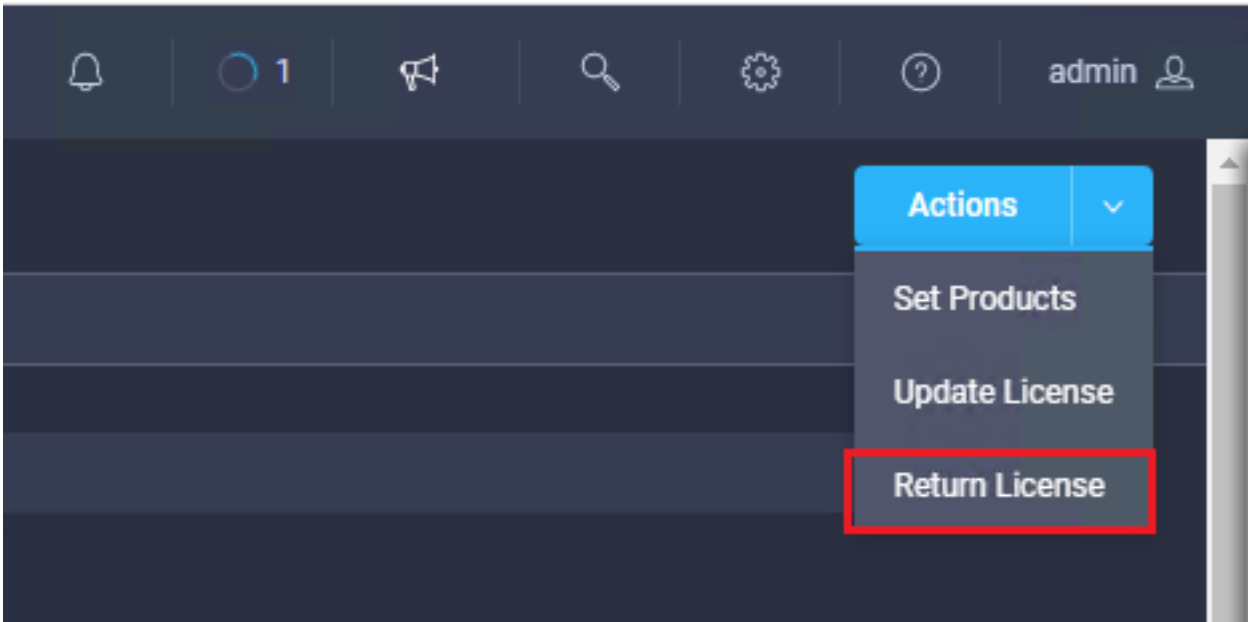
Enter Confirmation Code ✕

To complete the pending License Reservation, enter the Reservation Confirmation Code that was generated by the Product Instance after the Reservation Authorization Code was installed.

• Reservation Confirmation Code:

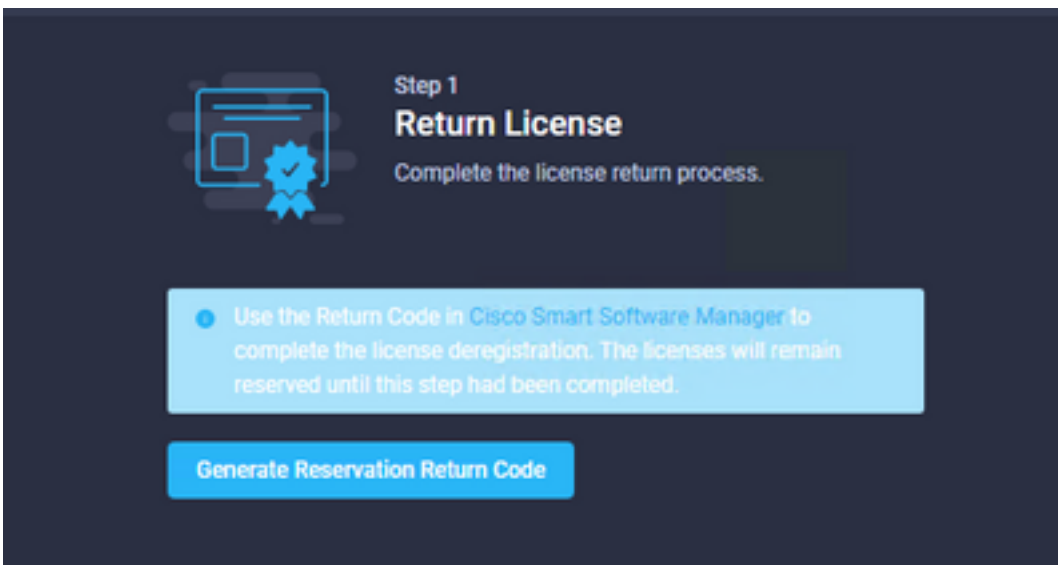
Return License Reservation

On Intersight, navigate to **Settings > Licensing**. From the **Actions** drop-down, select **Return License** as shown in this image.



From the new windows that show up, select **Generate Return Code**.

Caution: The generation of a return code deregisters immediately license from Intersight PVA.



Select **Generate** to acknowledge the alert on the pop-up window.



WARNING! Your appliance license will be deregistered

If you generate Reservation Return Code, your appliance will be deregistered immediately. The Reservation Return Code must be entered into Cisco Smart Software Manager in order to release the licenses to be used by other products.

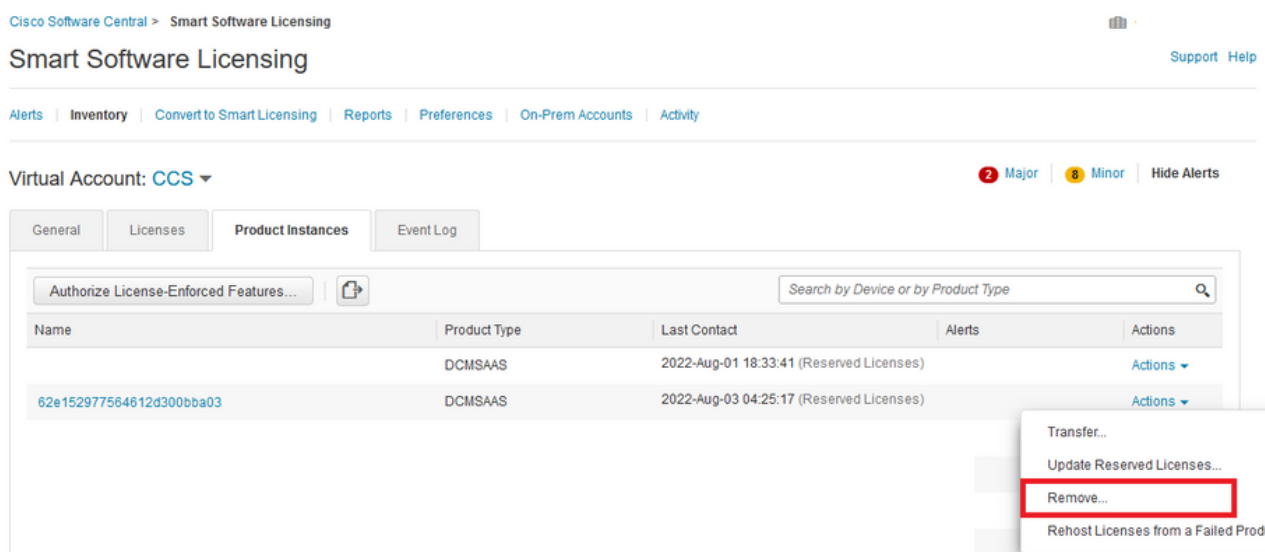
Cancel

Generate

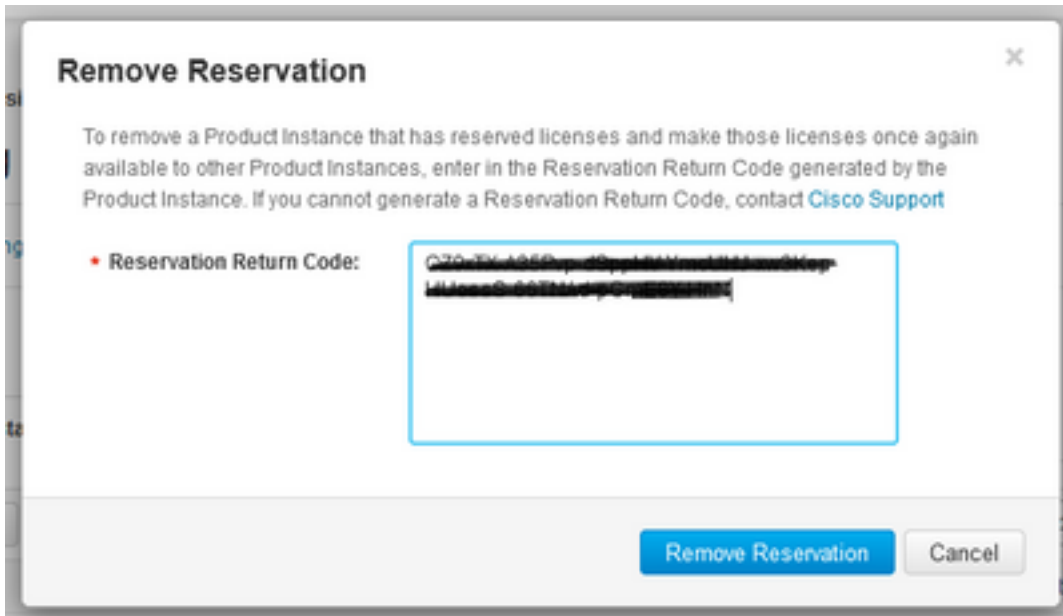
It can take a few minutes for the Return Code to be generated.. Once it shows up, copy it or download it.



Log in to your [Cisco Smart Software Manager](#), navigate to the proper virtual account and select the **Product Instances** tab and identify your Account ID. From the **Actions** drop-down, select **Remove...**



Enter the **Reservation Return Code** and select **Remove Reservation** as shown in this image.



This step deletes the Intersight Account ID from your Product Instances and makes the licenses available again to other instances.

Troubleshoot

This section provides information you can use in order to troubleshoot your configuration.

Intersight Fails to generate a Reservation Confirmation Code

When Intersight fails to generate a Reservation Code, verify all services are running.

SSH to the Intersight PVA and log in with your admin account. From the default menu, select option 4.

```
inter.mxsvlab.com - PuTTY
Intersight Appliance Maintenance Shell [Tue Aug 9 12:48:42 2022]
No change in deployment size during install. Current running deployment size is
Medium.

Installation complete
~~~~~
Diagnostics                                Configuration
[1] Ping a host                            [a] Show current network configuration
[2] Traceroute a host                       [b] Configure network settings
[3] Run connectivity test ←                 [c] Restart services installation
                                           [d] Run Debug shell (Cisco TAC only)
                                           [e] Configure Logon Banner
                                           [f] Generate and Upload Tech Support

Maintenance
[4] Show system services status
[5] Restart system services
[6] Reboot virtual appliance node

[.] Exit
~~~~~
Choice #1->4
System Services:
Running 101 Pending 0 Error 0 Total 101

Intersight Appliance Maintenance Shell [Tue Aug 9 12:49:04 2022]
No change in deployment size during install. Current running deployment size is
Medium.
```

If after the first time it fails, the next tries automatically fail, use the **Restart system services** (option 5). This process can take several minutes and you must monitor with option 4 until all services came up.

Intersight Fails to Generate a Return Code

When Intersight fails to generate Return Code, navigate to [https://\[FQDN\]/apidocs/introduction/overview/](https://[FQDN]/apidocs/introduction/overview/) and select **API Reference** tab.

Search for **license/LicenseReservationOps** resource and use API call **GET /api/v1/license/LicenseReservationOps**.

From the output verify {"**GenerateReturnCode**": **status**}, if it is **false**, try again to generate Return code.

API Reference v1.0.11-7078

GET Read a 'licenseLicenseReservationOps' resource.

Parameters

- \$filter (string)** query: Filter criteria for the resources to return. A URI with a \$filter query option identifies a subset of the entries from the collection of Entries. The subset is determined by selecting only the Entries that satisfy the predicate expression specified by the \$filter option. The expression language that is used in \$filter queries supports references to properties and literals. The literal values can be strings enclosed in single quotes, numbers and boolean values (true or false).
- \$orderby (string)** query: Determines what properties are used to sort the collection of resources.
- \$top (integer)** query: Specifies the maximum number of resources to return in the response.
- \$skip (integer)** query: Specifies the number of resources to skip in the response.
- \$select (string)** query: Specifies a subset of properties to return.
- \$expand (string)** query: Specify additional attributes or related resources to return in addition to the primary resources.
- \$apply (string)** query: Specify one or more transformation operations to perform aggregation on the resources. The transformations are processed in order with the output from a transformation being used as input for the subsequent

REST Client

GET /api/v1/licenseLicenseReservationOps

Response Text

```

1 {
2   "ObjectType": "license.LicenseReservationOp.List",
3   "Results": [
4     {
5       "Account": {
6         "ClassId": "mo.NoRef",
7         "Moid": "62e152977564612d300bba0",
8         "ObjectType": "iam.Account",
9         "Link": "https://com/api/v1/iam/Accounts/",
10        },
11      "AccountMoid": "62e152977564612d300bba0",
12      "Ancestors": [],
13      "AuthCode": "<specificPLR>authorizationCode<flagAc/<flag>version<C/<version>plid:2",
14      "AuthCodeInstalled": true,
15      "ClassId": "license.LicenseReservationOp",
16      "ConfirmCode": "",
17      "CreateTime": "2022-07-27T15:34:46.459Z",
18      "DomainGroupMoid": "",
19      "GenerateRequestCode": true,
20      "GenerateReturnCode": false,
21      "ModTime": "2022-08-09T12:59:29.652Z",
22      "Moid": "62e152977564612d300bba0",
23      "ObjectType": "license.LicenseReservationOp",
24      "Owners": [
25        {
26          "Moid": "62e152977564612d300bba0"
27        }
28      ],
29      "PermissionResources": [],
30      "RequestCode": "",
31      "ReturnCode": "",
32      "SharedScope": "",
33      "Tags": []
34    }
35  ]
36 }

```

If GenerateReturnCode is set to **True** and Intersight fails to generate it, copy the MOID and use API Call **POST /api/v1/license/LicenseReservationOps/{Moid}**.

Paste the MOID on the required field and set **{ "GenerateReturnCode": false }**. Wait until it completes with **200 Success**.

API Reference v1.0.11-7078

POST Update a 'licenseLicenseReservationOps' resource.

Parameters

- Moid (string)** path: The unique Moid identifier of a resource instance.
- If-Match (string)** header: For methods that apply server-side changes, and in particular for PUT, If-Match can be used to prevent the lost update problem. It can check if the modification of a resource that the user wants to upload will not override another change that has been done since the original resource was fetched. If the request cannot be fulfilled, the 412 (Precondition Failed) response is returned. When modifying a resource using POST or PUT, the If-Match header must be set to the value of the resource ModTime property after which no lost update problem should occur. For example, a client send a GET request to obtain a resource, which includes the ModTime property. The ModTime indicates the last time the resource was created or modified. The client then sends a POST or PUT request with the If-Match header set to the ModTime property of the resource as obtained in the GET request.

REST Client

POST /api/v1/licenseLicenseReservationOps/{Moid}

(Moid) *

62e15b*

1 { "GenerateReturnCode": false }

Send 200 Success

Response Text

```

1 {
2   "Moid": "62e152977564612d300bba0",
3   "ObjectType": "license.LicenseReservationOp",
4   "ClassId": "license.LicenseReservationOp",
5   "CreateTime": "2022-07-27T15:34:46.459Z",
6   "ModTime": "2022-08-09T14:34:58.604334024Z",
7   "Tags": [],
8   "Owners": [
9     {
10      "Moid": "62e152977564612d300bba0"
11    }
12  ],
13  "SharedScope": "",
14  "AccountMoid": "62e152977564612d300bba0",
15  "DomainGroupMoid": "62e152977564612d300bba0",
16  "Ancestors": [],
17  "PermissionResources": [],
18  "AuthCode": "<specificPLR>authorizationCode<flagAc/<flag>version<C/<version>plid:2",
19  "AuthCodeInstalled": true,
20  "ConfirmCode": "",
21  "GenerateRequestCode": true,
22  "GenerateReturnCode": false
23 }

```

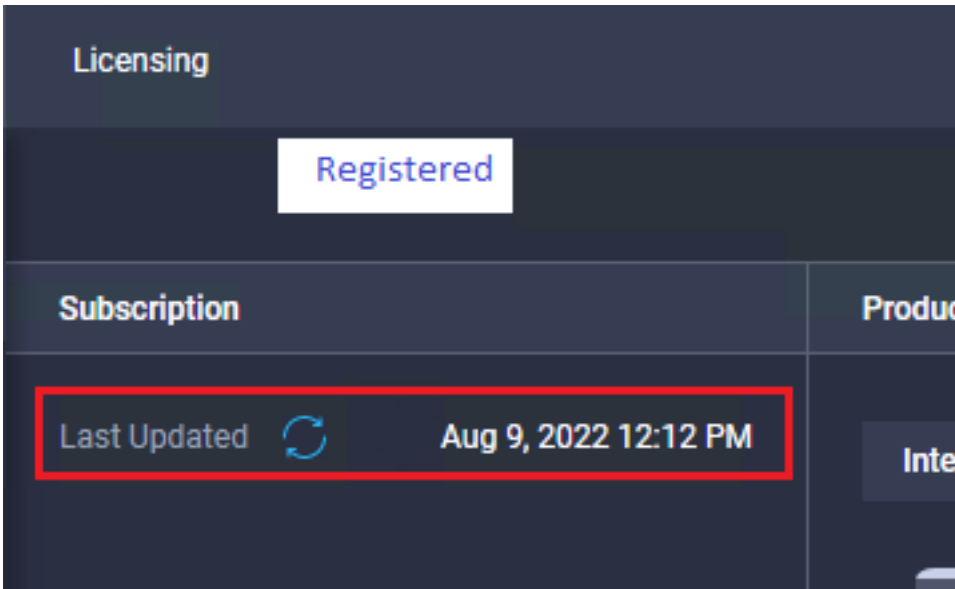
Refresh Intersight PVA and try again to generate the Return Code.

Verify

Use this section in order to confirm that your configuration works properly.

In order to verify if your Intersight has a reservation assigned, your licensing tab on Intersight must

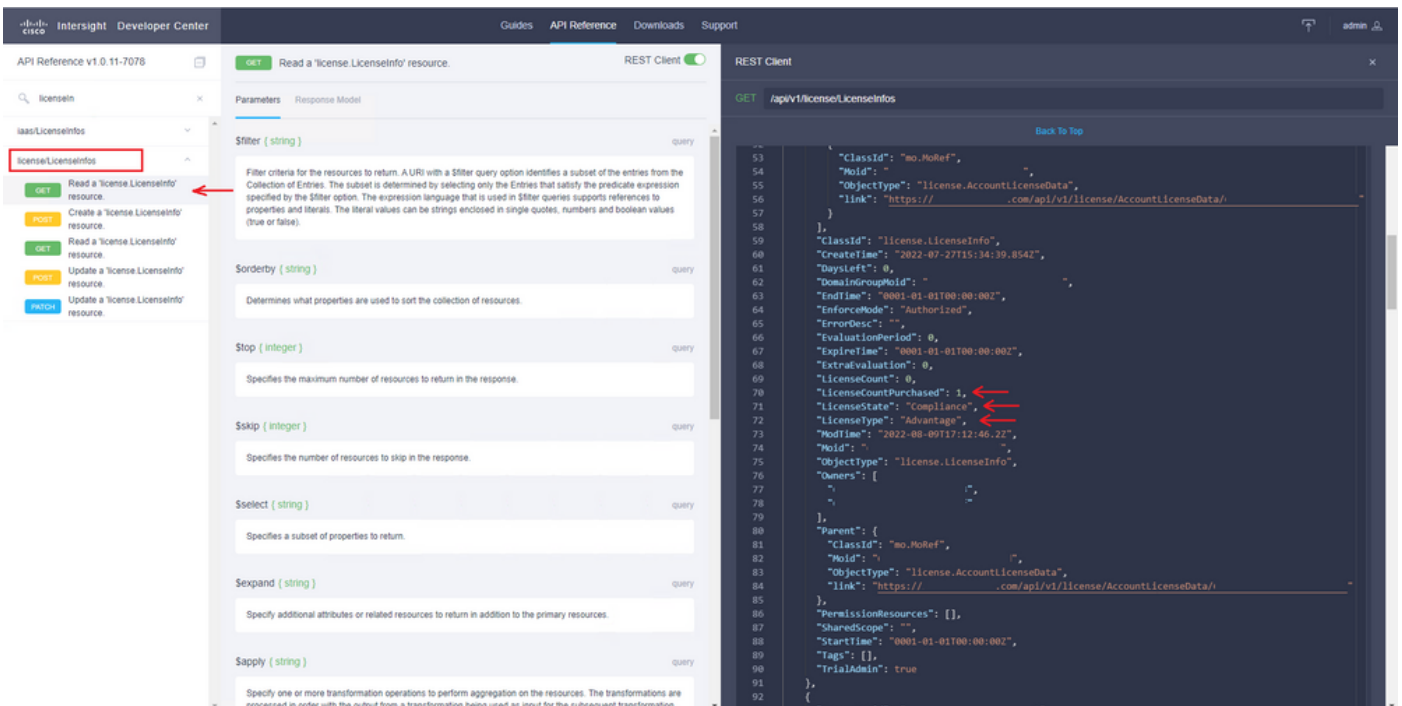
show **Last Updated** date.



To verify more details of your reservation such as tiers or quantity, you can check it directly on your Smart Portal or with API Call :

GET /api/v1/license/LicenseInfos.

In this scenario, our reservation has only one Advantage license.



Related Information

- [Licensing Requirements for Intersight Virtual Appliance](#)
- [Technical Support & Documentation - Cisco Systems](#)