



Software Licensing Operations

How to Locate the Universal Device Identifier (UDI)

List of Products

- [Intrusion Prevention System \(IPS\)](#)
- [Cisco Unified Communications](#)
- [FirePOWER](#)
- [Integrated Services Routers \(ISR G2\)](#)
- [Email & Web Security \(formerly IronPort\)](#)
- [Unified Computing System \(UCS\)](#)
- [Identity Services Engine \(ISE\)](#)
- [Integrated Services Routers \(4300\)](#)
- [Prime Infrastructure \(formerly Network Control System\)](#)
- [Adaptive Security Appliance \(ASA\)](#)
- [Multilayer Director Switch \(MDS\)](#)
- [Cloud Services Router](#)
- [Aggregation Services Router](#)

(Click on the desired product to go directly to that section)

Intrusion Prevention System (IPS)

The following steps are for the IPS Service License 4270/4300/4500 Series, AIM-IPS-K9, or Version 6.1+

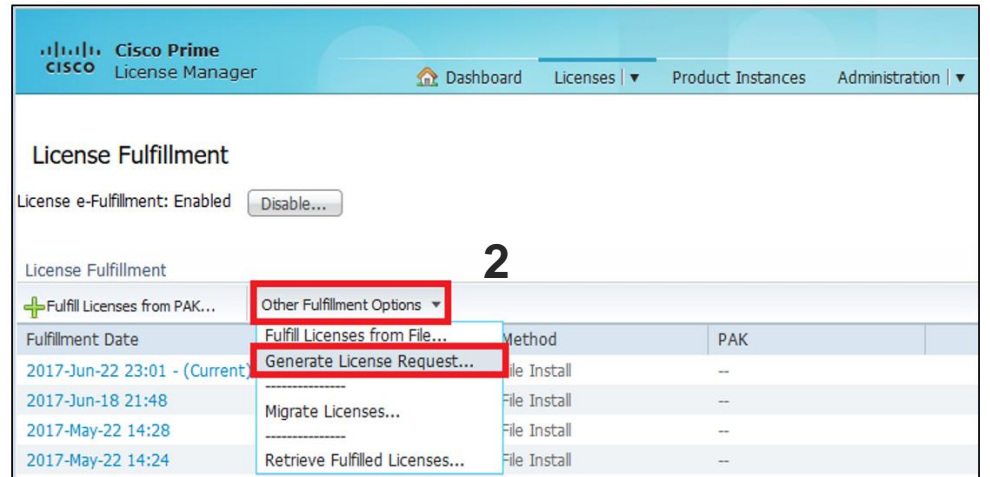
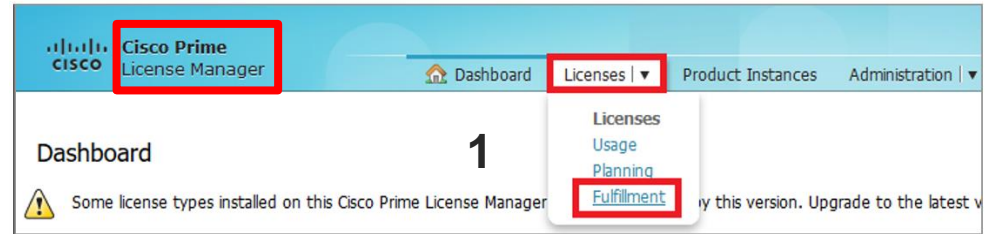
1. The Universal Device Identifier (UDI) consists of the version, Product ID (Platform) and Serial Number (SN). This can all be found in the **sh ver** command
2. The IPS UDI is a combination of the PID + SN. To locate the UDI, provide the output of either **sh ver**, **show ver**, or **show license udi** commands from the IPS

```
martin-4255# sh ver
Application Partition:
Cisco Intrusion Prevention System, Version 7.1(11)E4
Host:
  Realm Keys          key1.0
Signature Definition:
  Signature Update    9990.0          2017-07-25
OS Version:          2.6.29.1
Platform:            IPS-4255-K9
Serial Number:       JMX0916LOBD
Licensed, expires:   29-Oct-2017 UTC
Sensor up-time is 199 days.
```

Cisco Unified Communications

Generate a license request from Prime License Manager (PLM) with the following steps:

1. Log in to PLM and select **Licenses** → **Fulfillment**
2. On the **Licenses Fulfillment** page, under **Other Fulfillment Options**, select **Generate License Request**



Cisco Unified Communications (continued)

3. The **License Request** and **Next Steps** window appears. Copy the selected text or click **Save** as a file on your computer
4. Go to the License Registration Portal to register the license(s) and receive the the license file via email
5. Go back to PLM to install the license file

License Request and Next Steps

1. Copy the selected text below to your clipboard or [Save it to a file to your PC.](#)

```
gwsE8A094PSPm39A8QtS0AAAB3AHQFAAAAMQB1BQAAAUBUAdgJUcmFuc2FjdGlvb  
klEAAAAABUAdwIxNTAzMjY0NzEyMTAwAAAAAD8AdQUAAAAQAHYCU2VydmVYSUQ  
AAAAAKAB3AjAyMzY3N2VjZjExYjY2Q5ZjMyYjU1Yzg0ODg5NTBiAAAAAsAegAAAA  
AAAAAGwCAAkNpc2NvIFN5c3RibXMsIEluYy4AAAAACwCmAAAAABcAAAAoAK0FA  
AAACwCuAAAAAQAAAAALAK8AAAAABQAAAAAsAAAAAAsAAAAAAsAAAAAAsAAAAA  
AAAAALAM4AAAAAAsA0gAAAAAAAFwDTCyuCRtQNawvjITpIU88Z3jY=
```
2. Register your Licenses
Go to the [Cisco License Registration](#) site, enter your PAK and upload the License Request file in order to receive your license file via email.
3. Install your Licenses
Once you have received the license file, come back to Cisco Prime License Manager to install it.

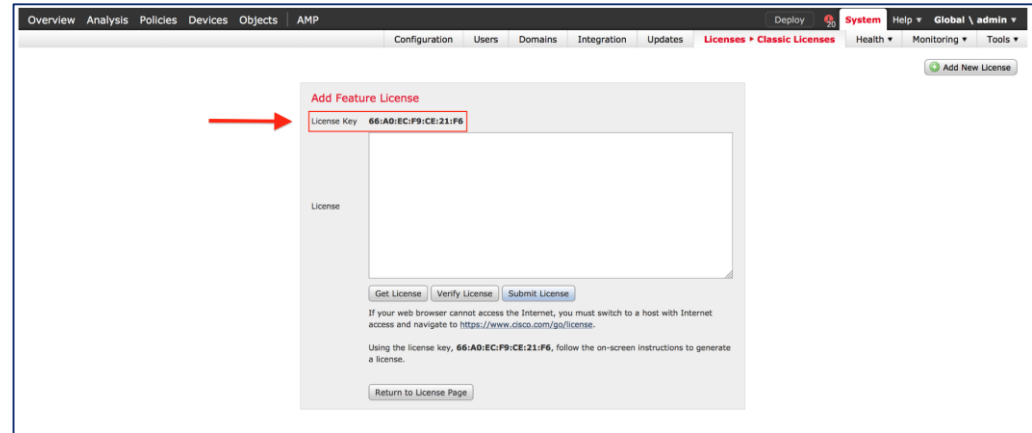
[Close](#)

FirePOWER – Perpetual and Term

All SourceFire, FirePOWER, FireSIGHT Licenses are node-locked to the **License-Key** of the Defense Center; Model No. + MAC_ID of the DC.

The following steps are for **Sourcefire Software Version 5.1 and above**:

1. Log in to Defense Center with Administrator privileges
2. Select **System → Licenses**
3. Click on **Add New License**. The **Add Feature License** page appears
4. The License Key of the Defense Center will be displayed. The 1st two numbers before the colon are the **Model number** and the remaining part is the **MAC_ID**



Integrated Services Routers (ISR G2)

Use the chassis label Serial Number (SN) as the UDI.

```
R1# sh license udi
Device# PID          SN          UDI
-----
*0    CISCO2921/K9      FHK1428F0HQ  CISCO2921/K9:FHK1428F0HQ
R1#
```

Email & Web Security (IronPort – Software Bundles)

To obtain the the Virtual License Number (VLN) for any Virtual Device, type **showlicense** in the command line or Command Line Interface (CLI) line.

To obtain the Serial Number for for Physical or Hardware devices, the customer needs to issue the **Version** command.

```
alvaro-lab03.lab (SERVICE)> showlicense
```

Virtual License

```
=====
vln                VLNESA36764778
begin_date         Wed Feb 01 18:13:13 2017 GMT
end_date           Sat Sep 04 18:13:12 2021 GMT
company            STATE BOARD COLLEGES
seats              1
country            US
serial             29010
issue              1c9ee224fd2446fead5266f6bc098b8d
license_version    1.1
```

```
alvaro-lab03.lab (SERVICE)>
```

```
gators.calo.cisco.com>
```

```
version
```

Current Version

```
=====
UDI: C190 VA0 FCH1947V2Z3
Name: C190
Product: Cisco C190 Email Security Appliance
Model: C190
Version: 11.0.0-266
Build Date: 2017-08-28
Install Date: 2017-08-28 11:23:33
Serial #: CC46D65916B2-FCH1947V2Z3
BIOS: C220M4.2.0.4a.0.STBU1
RAID: 24.7.0-004
RAID Status: Optimal
RAID Type: 1
BMC: 2.00
gators.calo.cisco.com>
```

Unified Computing System (UCS) 6100 Series Fabric Interconnect

The Host ID, also known as the Serial Number (SN), can be obtained by typing **show license host-id** in the Command Line Interface (CLI).

The Universal Device Identifier (UDI) is the portion after the = in the Host ID, as highlighted on the right.

```
UCS-A# connect local-mgmt
```

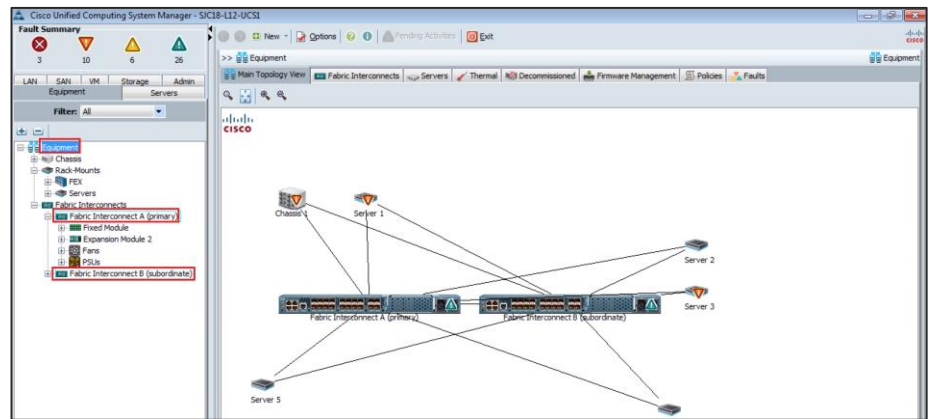
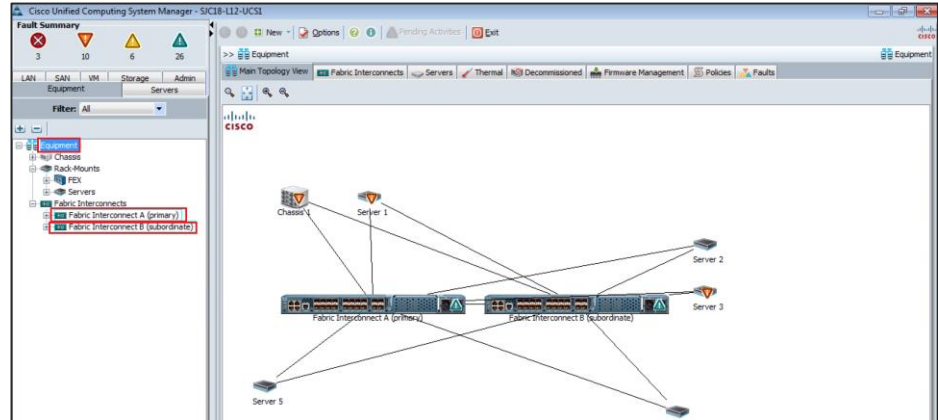
```
UCS-A(local-mgmt)# show license host-id
```

```
License hostid: VDH=FLC12121212
```

Unified Computing System (UCS) 6100 Series Fabric Interconnect (continued)

The Host ID, also known as the Serial Number (SN), is obtained through the following steps in the General tab of the Cisco UCS Manager Graphic User Interface (GUI).

1. From the **Navigation** pane, click the **Equipment** tab
2. Expand **Equipment** → **Fabric Interconnects**
3. Click on the Fabric Interconnect node you want to obtain the Host ID
4. In the **Work** pane, click the **General** tab
5. In the **Properties** area, the **Host ID** is listed in the **Serial Number** field



Unified Computing System (UCS) 6100 Series Fabric Interconnect (continued)

6. In the Work pane, click the General tab
7. In the Properties area, the Host ID is listed in the Serial Number field

The screenshot displays the Cisco Unified Computing System Manager (UCSM) interface for a Fabric Interconnect A (primary). The interface is divided into several sections:

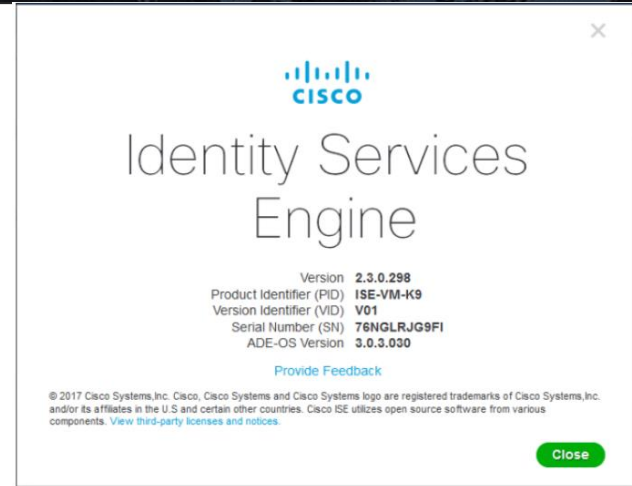
- Fault Summary:** Shows overall status as **Operable**, Thermal as **Ok**, Ethernet Mode as **End Host**, FC Mode as **End Host**, Admin Evac Mode as **Off**, and Oper Evac Mode as **Off**.
- Physical Display:** Shows a visual representation of the hardware components, including ports and fans.
- Properties:** Lists key information:
 - Name: A
 - Product Name: Cisco UCS 6120XP
 - Vendor: Cisco Systems, Inc.
 - Revision: 0
 - Available Memory: 0.963 (GB)
 - Total Memory: 3.451 (GB)
- Part Details:** Includes expandable sections for Local Storage Information, Access, High Availability Details, VLAN Port Count, and FC Zone Count.
- Firmware:** Shows the Boot-loader Version as v1.5.0(11/30/10).

Identity Services Engine (ISE)

The preferred method (top image) to locate the Universal Device Identifier (UDI), also known as the Serial Number, is by typing either **sh udi** (as shown) or **show udi** in the Command Line Interface (CLI).

An alternate method (bottom image) is to go to the **Policy Administration Point (PAP)** and click **About**.

```
Failed to log in 3 time(s)
Last failed login on Fri Mar 31 13:53:50 2017 from 10.0.11.189
ise1/admin# sh udi
SPID: ISE-VM-K9
VPID: V01
Serial: ANDUDRKR8GL
ise1/admin#
```



Integrated Service Routers (ISR 4300)

The Universal Device Identifier (UDI) is obtained by typing either **sh license udi** (as shown) or **show license udi** in the Command Line Interface (CLI).

Please note: using the chassis label Serial Number (SN) will NOT work.

```
ISR4451# sh license udi
SlotID  PID          SN          UDI
-----
*6      ISR4451-X/K9    FOC16150HBN  ISR4451-X/K9:FOC16150HBN

ISR4451#
```

Prime Infrastructure (formerly Network Control System)

From the server, the Universal Device Identifier (UDI), which is both the Product Identifier (PID) and Serial Number (SN), is available under the **Administration / Dashboards / System Monitoring Dashboard**.

The screenshot displays the 'Administration / Dashboards / System Monitoring Dashboard' interface. The 'System Information' section is expanded, showing various system details. The UDI section is highlighted with a red box, containing the following information:

UDI	
Product Identifier	PRIME-NCS-VAPL
Serial Number	pi-test b2c08990-c781-11e6-87a0-005056b26d88
Version Identifier	3.2.0.0.258

Other visible system information includes:

- Current Time:** Fri Aug 18 00:03:52 IST 2017
- Operating system:** Red Hat Enterprise Linux Server release 6.7 (Santiago)
- Architecture:** x86_64
- Server Up Time:** 43 days, 07:31:13 Hours
- Application Up Time:** 42 days, 07:41:41 Hours
- Kernel Version:** Linux version 2.6.32-696.1.1.el6.x86_64 (mockbuild@x86-027.build.eng.bos.redhat.com) (gcc version 4.4.7 20120313 (Red Hat 4.4.7-18) (GCC)) #1 SMP Tue Mar 21 12:19:18 EDT 2017
- Configuration:**
 - Domain Name: cisco.com
 - Host Name: pi-test
 - Default Gateway: 10.197.67.65
 - DNS Server(s): 171.70.168.183
 - NTP Host(s): ntp.est.cisco.com
- CPU:** Number of Cores 16 (Intel(R)Xeon(R)CPU E5620@2.40GHz)
- Memory:** Installed Physical RAM 15.57 GB, Configured Swap Space 15.62 GB

Adaptive Security Appliance (ASA)

The Serial Number of the ASA Chassis in all other ASA models (5505 and 5510) is obtained using the **show inventory** command in the CLI.

```
CUST-FW# show inventory
Name: "Chassis", DESCR: "ASA 5515-X with SW 6 GE Data 1 GE Mgmt AC"
PID: ASA5515 , VID: V01 SN: FGL1635407L <---- This is the CHASSIS Serial Number
```

MDS 9000, Nexus 5000, and Nexus 7000 Switches

The Host ID Serial Number (SN) is obtained by typing the **show license host-id** in the Command Line Interface (CLI).

The Universal Device Identifier (UDI) is the portion after the = in the Host ID, as highlighted on the right.

```
ca-9506# show license host-id  
License hostid: VDH=FOX0713037X
```

Cloud Services Router

The Universal Device Identifier (UDI) can be obtained by typing **show license udi** in the Command Line Interface (CLI).

```
CSRUUT3# show license udi
UDI: PID:CSR1000V,SN:9U90PWKJZSZ
```

Aggregation Services Router 920

The Universal Device Identifier is a combination of the Product Identifier (PID) and Serial Number (SN) and is obtained by typing **show license udi** in the Command Line Interface (CLI).

```
R1#sh license udi
```

SlotID	PID	SN	UDI
0	ASR-920-12CZ-A	CAT1903U0G1	ASR-920-12CZ-A:CAT1903U0G1

Resources

This slide deck and Excel file are available on the **User Guides/FAQ** tab from the [License Registration Portal \(LRP\) Help page](#).



The screenshot shows the Cisco License Registration Portal interface. The top navigation bar includes the Cisco logo and links for Products & Services, Support, How to Buy, Training & Events, and Partners. Below the navigation bar, the page title is "Product License Registration". A secondary navigation bar contains "Video Tutorials" and "User Guides/FAQ", with the latter being highlighted by a red box. The main content area is titled "License Registration Portal User Guides" and lists several links: "License Registration Portal - Introduction to New User Interface", "License Registration Portal Basic User Guide (ENG) | (CHN) | (FR) | (JPN) | (SPN) | (POR)", "Locate the Universal Product Identifier (UDI) - PDF", "Locate the Universal Product Identifier (UDI) - Excel", "How to find a Mac Address for Cisco Meeting Server and (legacy) Acano X products", "Add a Device to your Device Table", "Email & Web Security (formerly IronPort) License User Guide", "UBR 10K License Transfer Guide", "CMTS (UBR 10K) License Management", and "Frequently Asked Questions". The "Locate the Universal Product Identifier (UDI) - PDF" and "Locate the Universal Product Identifier (UDI) - Excel" links are highlighted with a red box.

