UCS Firmware Upgrade from UCS Central

Contents

Introduction

This document describes the steps to upgrade a individual domain from UCS Central.

Previously, users scheduled infrastructure firmware updates per domain group. Cisco UCS Central 1.5 onwards has changed that feature. Now, you schedule infrastructure firmware updates for specific domains, or domains assigned to a domain group, using maintenance groups and tags.

Components Used
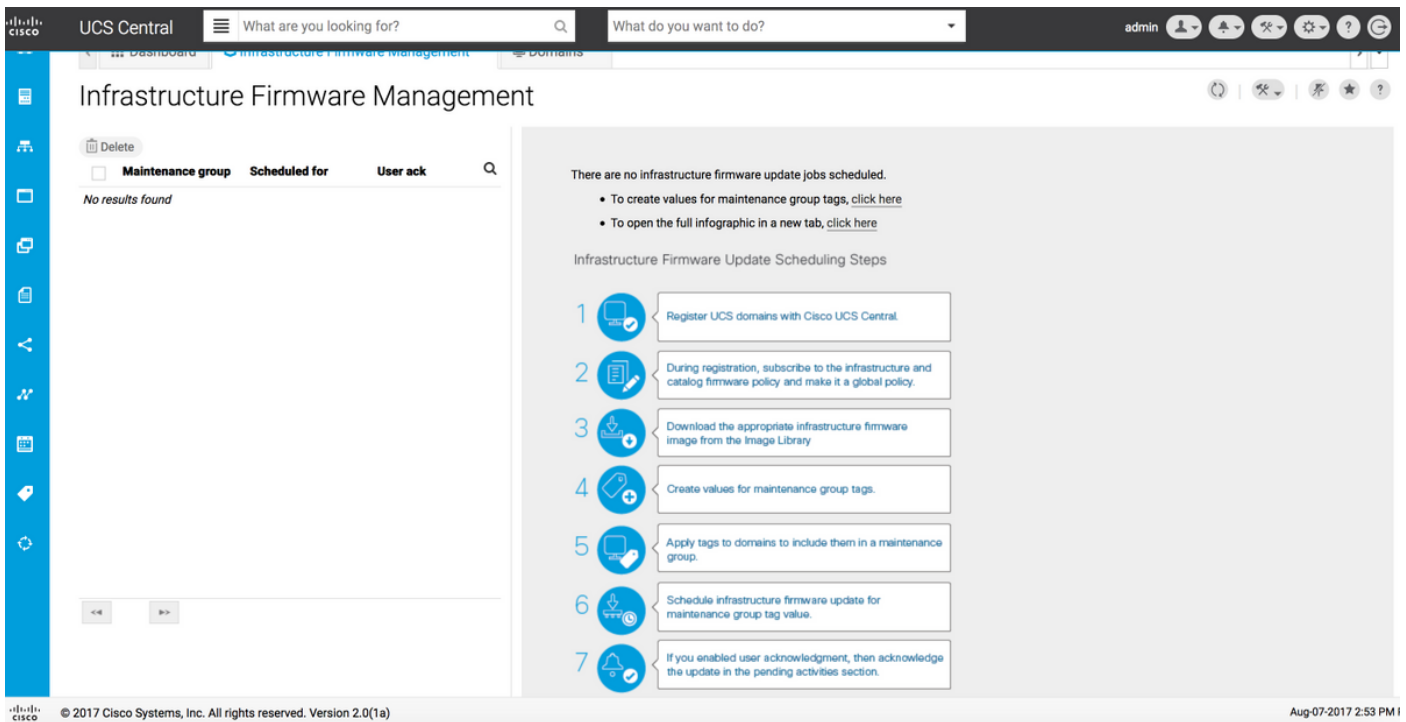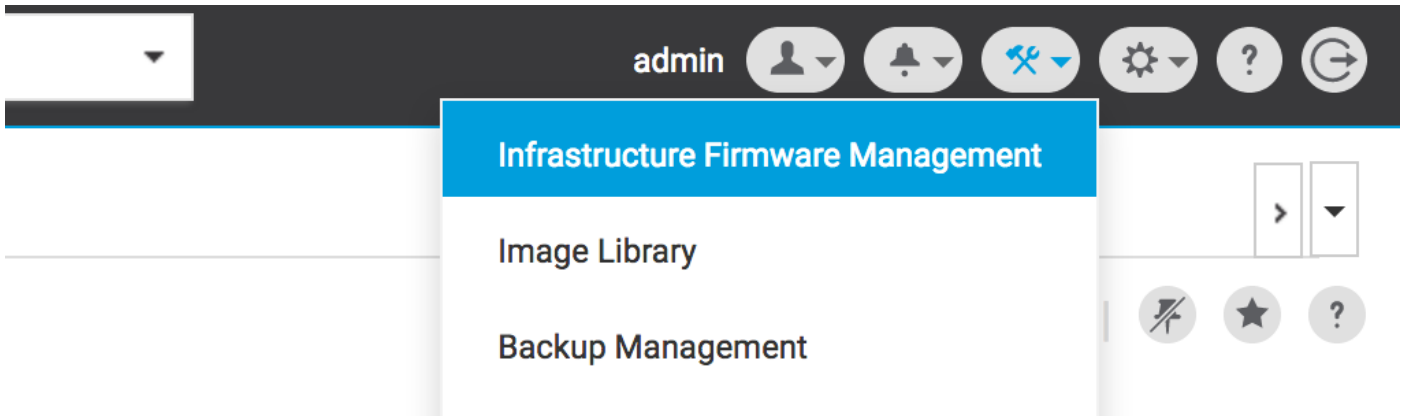
UCS Central 2.0(1a)

UCS Manager 3.1(3a)

All devices used are lab devices

Configure

You can trigger infrastructure firmware updates on one domain, multiple domains, or domains belonging to a domain group, based on the product family. For example, you could update the infrastructure firmware on all of the Cisco UCS Mini systems, and not update any of the blade servers. Another example is that you could update all maintenance groups on the west coast, but none on the east coast. The following is an overview of the initial steps needed.
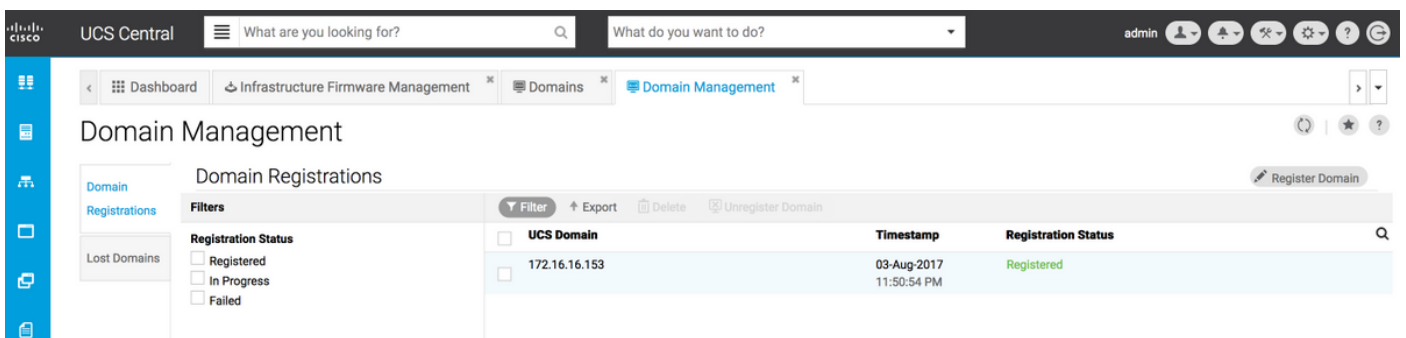
Procedure

Click on the tools icon from UCS Central to launch the **Infrastructure Firmware Management.** The steps for the firmware upgrade are listed.

Step 1 Make sure that the UCS Domain is registered with UCS Central.

See the *Cisco UCS Central Getting Started Guide* for more information.

Step 2 During registration**,** make sure policy resolution for **Infrastructure & Catalog Firmware** is set as global.

Policy resolution from UCS Central

Policy resolution from UCS Manager

Step 3 Download the appropriate infrastructure firmware image from the **Image Library**.
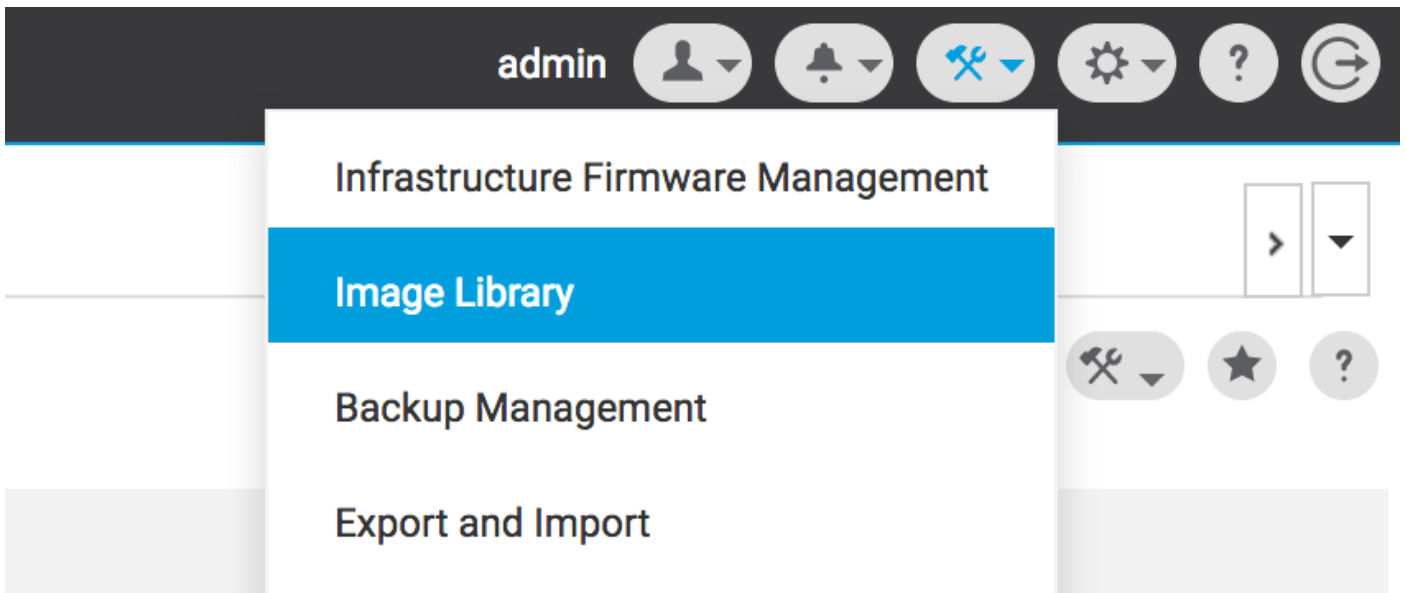
It can be downloaded manually using Import firmware bundle option
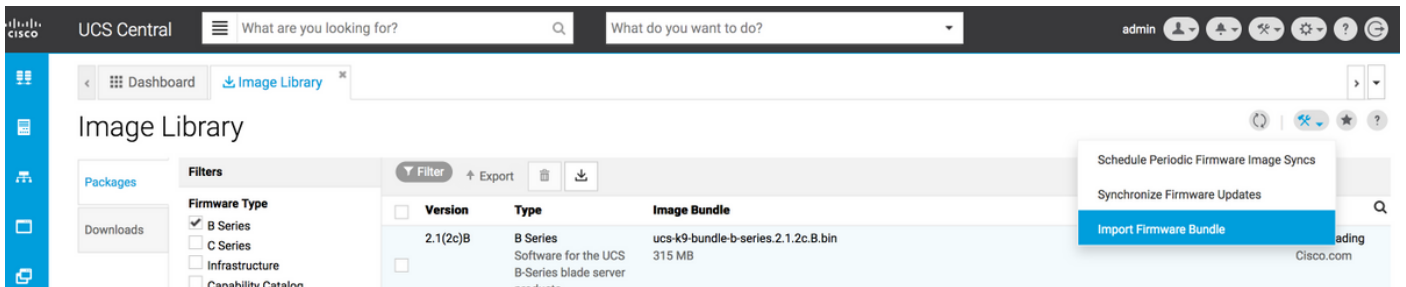
The image can be downloaded directly downloaded from Cisco.com, if the user credentials are set in Cisco.com Account.

Step 4 Create **Maintenance Group Tag.**

Maintenance Group Tag can be applied per domain group

Maintenance Group Tag Create

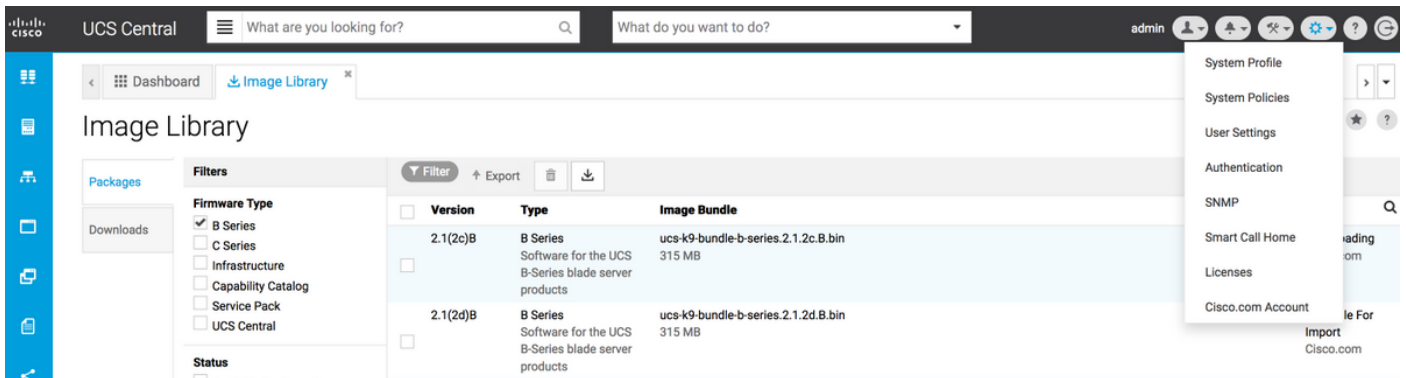Domains must be tagged with a Maintenance Group tag to schedule an infrastructure firmware update. When you create a Maintenance Group tag in this dialog, all selected domains are tagged with it.

Maintenance Group Tag Value *

Tag

Select how to apply tags to Domains

[By Domain Group] [Manually]

The Maintenance Group tag applies to all existing domains within the Domain Group. It will not be applicable to any new domains that get added further to the domain group. If you select to include sub-domain groups, the Maintenance Group tag also applies to all sub-domain groups.

Domain Group

NA-6200   ▼

☑ Include all Sub-Domain Groups

[Cancel] [Create]

Maintenance Group Tag can be applied per domain. We will apply to the domain individually.

Maintenance Group Tag Create

Domains must be tagged with a Maintenance Group tag to schedule an infrastructure firmware update. When you create a Maintenance Group tag in this dialog, all selected domains are tagged with it.

Maintenance Group Tag Value *

Tag

Select how to apply tags to Domains

[By Domain Group] [Manually]

➕ 🗑️

Filters		Domain	Hardware	Configuration	Status	🔍
Domain Group	☑	ANF-UCSPR06 root 172.16.16.153	UCS-FI-6248UP Fabric A, B (HA) 1 Chassis 0 FEX 3 Blades 0 Rack Mounts	UCS 6100/6200 Series FI 3.1(3a)A 3.1(3)SP0(Default) FW Set Startup	OK Fault Level: Major	
☐ Ungrouped						
☐ root						
Platform						
☐ UCS 6100/6200 Series FI						
☐ UCS Mini 6300 Series FI						
☐ UCS 6300 Series FI						

[Cancel] [Create]

You can verify if the Tag created has Tag Type as Maintenance Group under **Tag Management**.
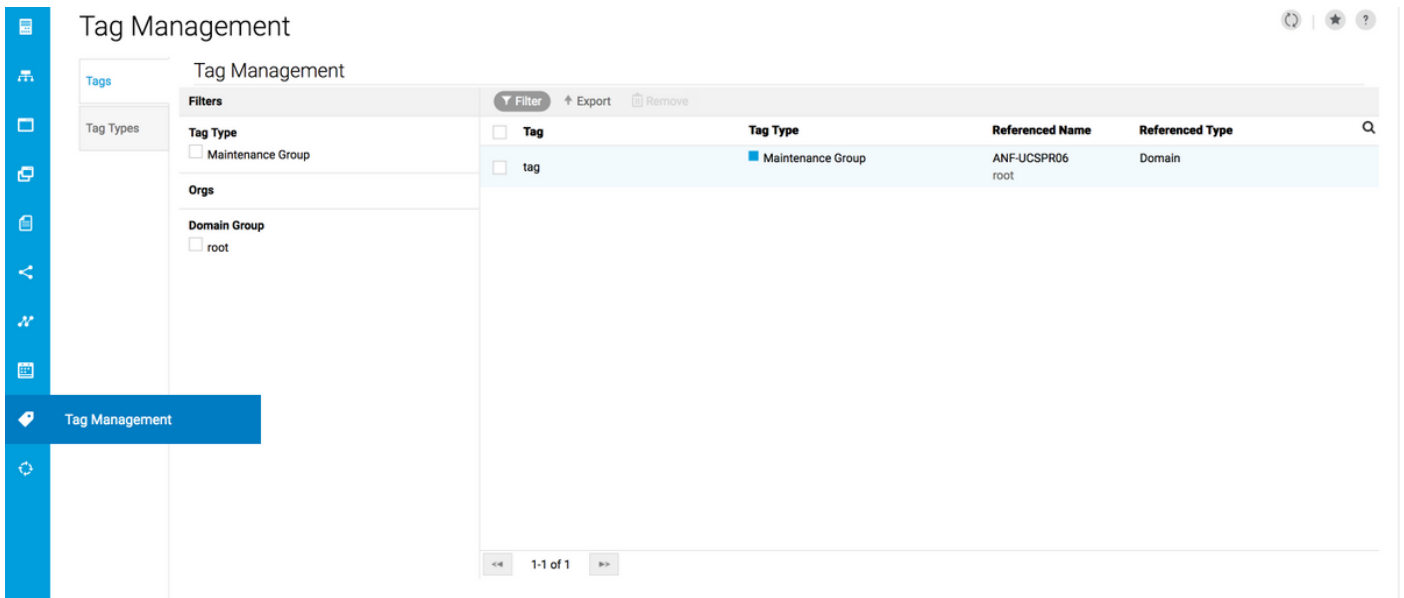
Step 5 Domain will have the newly created tag

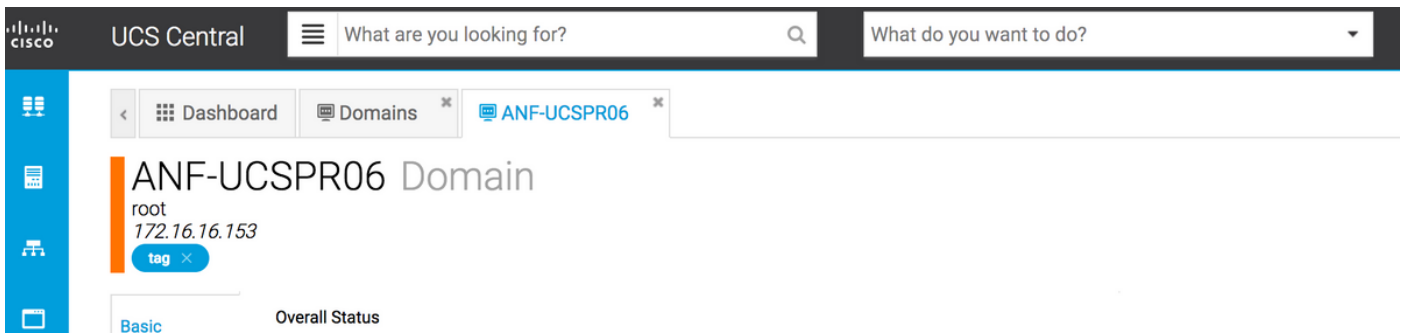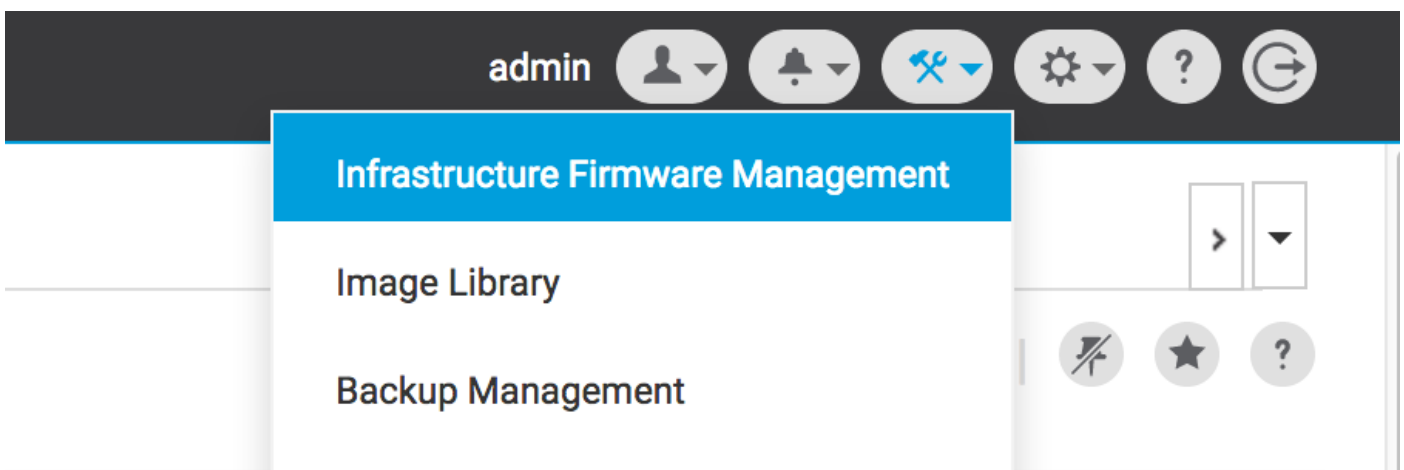**Step 6** Launch the **Infrastructure Firmware Management** from the tools Icon.

Infrastructure Firmware Management

Select the tag for the Maintenance group, the Infrastructure firmware version & the calalog version.

Infrastructure Firmware Update

Infrastructure Firmware Update Schedule

Maintenance group *
tag

Infrastructure firmware version

UCS 6100/6200 Series Fabric Interconnect
2.2(8g)A
☐ UCS 6100/6200 Series Service Pack

UCS Mini 6300 Series Fabric Interconnect
None
☐ UCS Mini 6300 Series Service Pack

UCS 6300 Series Fabric Interconnect
None
☐ UCS 6300 Series Service Pack
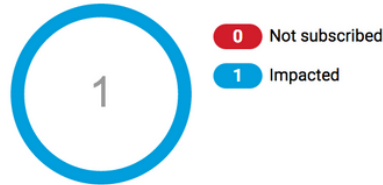
Catalog version
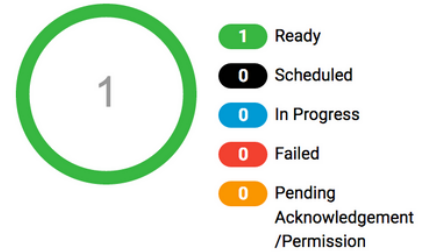None

Force Deploy
| Enabled | **Disabled** |

Evacuation
| Enabled | **Disabled** |

Settings	Value
Catalog Version	
Force Deploy	Disabled
Evacuation	Disabled

Impacted domains

- **0** Not subscribed
- **1** Impacted

(1)

Firmware status

- **1** Ready
- **0** Scheduled
- **0** In Progress
- **0** Failed
- **0** Pending Acknowledgement /Permission

(1)

Impacted Domains

Domain	Current Version	Firmware Status	Domain Status	🔍
ANF-UCSPR06 UCS 6100/6200 Series FI	3.1(3a)A 3.1(3)SP0(Default)	Ready	OK	

Cancel   **Schedule**

Select whether the update requires **User acknowledgment** in the User acknowledgement required to install field. If it is Enabled, you must manually acknowledge the update request before the domain is updated. In this case we have set it as enabled.
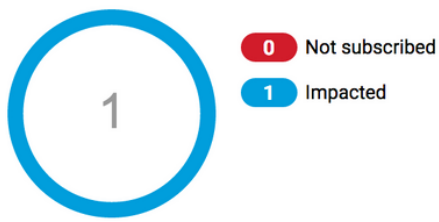
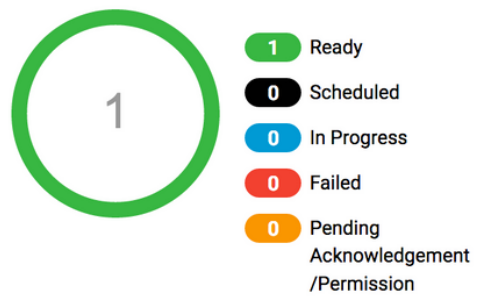## User acknowledgement required to install

| **Enabled** | Disabled |

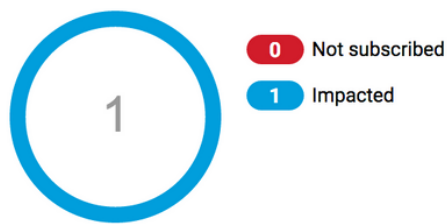Monitor the **Impacted domains and** wait for the Pending Acknowledgement to get set to **1.**
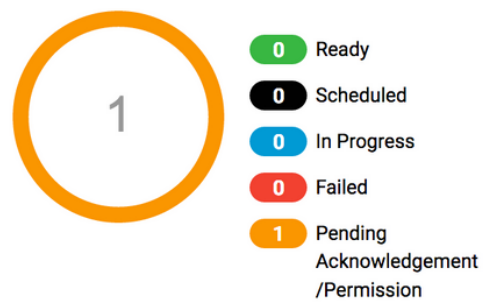
Impacted domains

0	Not subscribed
1	Impacted

Firmware status

1	Ready
0	Scheduled
0	In Progress
0	Failed
0	Pending Acknowledgement /Permission

Impacted domains

0	Not subscribed
1	Impacted

Firmware status

0	Ready
0	Scheduled
0	In Progress
0	Failed
1	Pending Acknowledgement /Permission

Impacted Domains

Step 7 Under the **Pending Activites,** you can acknowledge the **Pending Acknowledgement** status to begin the upgrade.