

UCS Central Registration and Troubleshooting

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Introduction

This document describes the steps to register Cisco Unified Computing System - UCS domains with UCS Central. Prior to UCS Central release 1.5, the registration could only happen from UCS Manager. Release 1.5 onwards, registration can be done from both UCS Central and UCS Manager.

Components Used

UCS Central 2.0(1a)

UCS Manager 3.1(3a)

All devices used are lab devices

Procedure

Registration Process from UCS Domain:

Launch UCS Manager and click on **Admin-> Communication Management-> UCS Central**.

Select **Register with UCS Central** .

The screenshot shows the UCS Manager interface. On the left is a navigation tree with categories: Equipment, Servers, LAN, SAN, VM, Storage, and Chassis. Under 'Communication Management', 'UCS Central' is selected. The main content area shows the breadcrumb 'All / Communication Management / UCS Central' and tabs for 'UCS Central', 'Providers', 'FSM', and 'Faults'. Under the 'Actions' section, there are two links: 'Register With UCS Central' and 'Unregister From UCS Central'.

Enter the **Hostname/ IP Address** and the **Shared Secret** of the UCS Central (Always a best practice to register UCS central using hostname, as IP address can be changed using the DNS entry, while the domain is registered) and click on **Ok** to start registration.

Policy Resolution Control can set while Registration. It can also be changed after Registration.

Register With UCS Central



Hostname/IP Address :

Shared Secret :

All Global

Policy Resolution Control

Infrastructure & Catalog Firmware :	<input checked="" type="radio"/> Local <input type="radio"/> Global	Determines whether the Capability Catalog and infrastructure firmware policy are defined locally or come from Cisco UCS Central.
Time Zone Management :	<input checked="" type="radio"/> Local <input type="radio"/> Global	Determines whether the time zone and NTP server settings are defined locally or comes from Cisco UCS Central.
Communication Services :	<input checked="" type="radio"/> Local <input type="radio"/> Global	Determines whether HTTP, CIM XML, Telenet, SNMP, web session limits, and Management Interfaces Monitoring Policy settings are defined locally or in Cisco UCS Central.
Global Fault Policy :	<input checked="" type="radio"/> Local <input type="radio"/> Global	Determines whether the Global Fault Policy is defined locally or in Cisco UCS Central.
User Management :	<input checked="" type="radio"/> Local <input type="radio"/> Global	Determines whether authentication and native domains, LDAP, RADIUS, TACACS+, trusted points, locales, and user roles are defined locally or in Cisco UCS Central.
DNS Management :	<input checked="" type="radio"/> Local <input type="radio"/> Global	Determines whether DNS servers are defined locally or in Cisco UCS Central.

Register With UCS Central



Hostname/IP Address :

Shared Secret :

All Global

Policy Resolution Control

Infrastructure & Catalog Firmware :	<input checked="" type="radio"/> Local <input type="radio"/> Global	Determines whether the Capability Catalog and infrastructure firmware policy are defined locally or come from Cisco UCS Central.
Time Zone Management :	<input checked="" type="radio"/> Local <input type="radio"/> Global	Determines whether the time zone and NTP server settings are defined locally or comes from Cisco UCS Central.
Communication Services :	<input checked="" type="radio"/> Local <input type="radio"/> Global	Determines whether HTTP, CIM XML, Telnet, SNMP, web session limits, and Management Interfaces Monitoring Policy settings are defined locally or in Cisco UCS Central.
Global Fault Policy :	<input checked="" type="radio"/> Local <input type="radio"/> Global	Determines whether the Global Fault Policy is defined locally or in Cisco UCS Central.
User Management :	<input checked="" type="radio"/> Local <input type="radio"/> Global	Determines whether authentication and native domains, LDAP, RADIUS, TACACS+, trusted points, locales, and user roles are defined locally or in Cisco UCS Central.
DNS Management :	<input checked="" type="radio"/> Local <input type="radio"/> Global	Determines whether DNS servers are defined locally or in Cisco UCS Central.

OK **Cancel**

Monitor the **FSM**(Finite State Machine) status to check the registration process.

All / Communication Management / UCS Central

UCS Central Providers **FSM** Faults

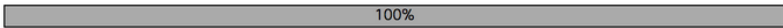
UCS Central Registration Policy Resolution Control

FSM Status : **Success**

Description :

Current FSM Name : **Register Fsm**

Completed at : **2017-08-18T13:02:42Z**

Progress Status :  100%

Remote Invocation Result : **Not Applicable**

Remote Invocation Error Code : **None**

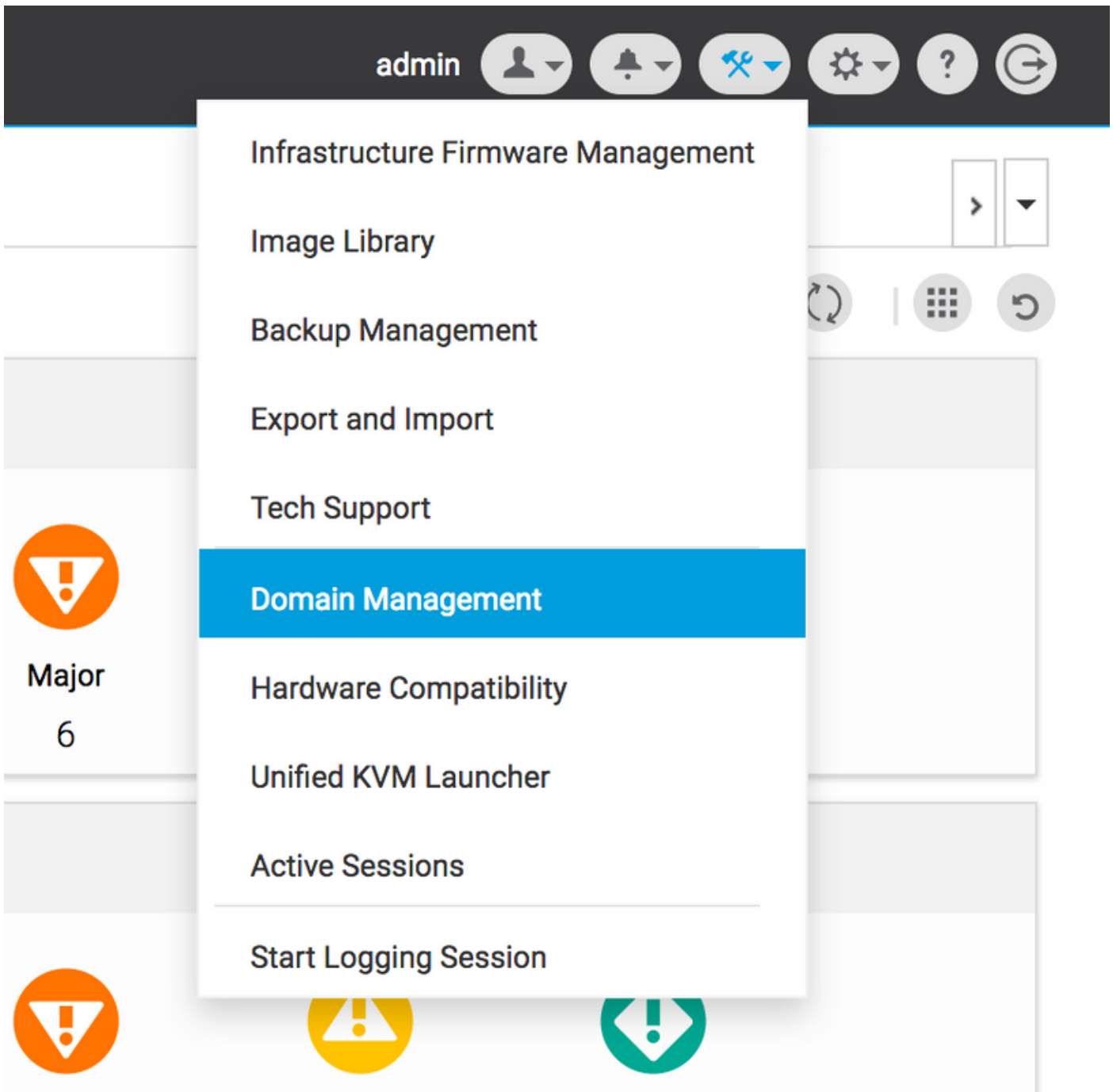
Remote Invocation Description :

⊖ Step Sequence

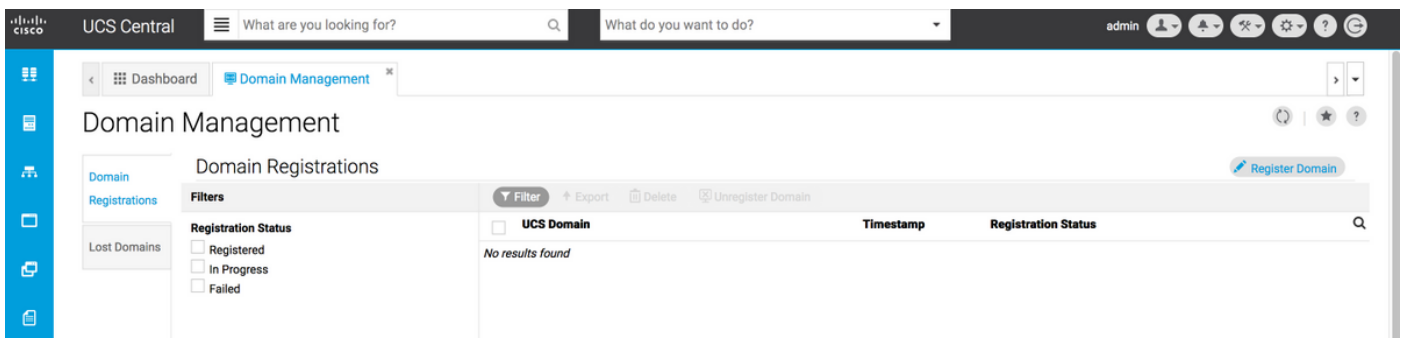
Order	Name	Description	Status	Timestamp	Retried
1	Register Fsm Execute	Register FSM Execute(FS...	Success	2017-08-18T13:02:42Z	2

Registration Process from UCS Central:

Launch UCS Central and click on **System tools** and go to **Domain Management**.



Click on **Register Domain** at the right hand corner.



Enter the UCS Domain **Hostname/IP Address** and the Admin **User Name** and **Password**. Select the **Hostname/IP Address** of UCS Central and click on **Register**. (Always a best practice to register UCS central using hostname as IP address can be changed using the DNS entry, while the domain is registered).

Domain to UCS Central Register



- Policy
- Resolution
- Control

UCS Central System Profile - Date & Time

In addition, if HTTPS is supported on the Domain, it must be enabled in order to register with UCS Central.

UCS Domain Hostname/IP Address *

ucsdomain.cisco.com

UCS Domain User Name *

admin

UCS Domain Password

Registration Hostname/IP address from UCS Central

hk-central-2

Cisco best practice is to register UCS Domains to UCS Central using the Fully Qualified Domain Name (FQDN). If you register the UCS Domain to UCS Central using an IP address and later change the IP address of UCS Central, you will need to unregister and re-register the UCS Domain to UCS Central.

[UCS Central System Profile - DNS](#)

Cancel

Register

The FSM status can be monitored from the **Configuration Status** tab.

Register Domain

Filter Export Delete Unregister Domain

<input type="checkbox"/>	UCS Domain	Timestamp	Registration Status	Q
<input type="checkbox"/>	172.16.16.153	17-Aug-2017 3:42:05 PM	In Progress Configuration Status	

Troubleshooting Common Registration Issues:

Scenario 1: Admin password for UCS Domain is wrong when registering domain from UCS Central.

Fix: Correct the admin password and try the registration again.

FSM Status from UCS Central

Domain Registrations Configuration Status



System FSM Name
Registration Fail

Status
Registration Fail

Progress Status
 10%

[FSM Details](#)

Current Stage Name	Stage Status	Retries	Time Stamp
Authorizing Admin Credentials	Failed	1	17-Aug-2017 3:40:54 PM

Order	Name	Description	Timestamp	Retries	Status
3	Remote Domain Reg Check Status			0	Skipped
2	Remote Domain Reg Push Shared Secret			0	Skipped
1	Authorizing Admin Credentials	Authorizing the admin credentials against the remote domain(FSM-STAGE:sam:dme:PolicyControlEpOpRemoteDomainReg:Registration)	17-Aug-2017 3:40:54 PM	1	Failed

[Close](#)

Scenario 2: UCS Central and UCS Domain time is not synced.

Fix: Sync the time on UCS Central and UCS Domain and try the registration again.

Refer to **Forced Time Sync in UCS Manager** in the link below to correct the time.

https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-central/GUI-User-Guides/Operations/b_UCSC_Ops_Guide_2_0/b_UCSC_Ops_Guide_2_0_chapter_01100.html

FSM Status from UCS Manager

FSM Status : **In Progress**
 Description :
 Current FSM Name : **Repair Cert**
 Completed at :
 Progress Status :
 Remote Invocation Result : **Resource Unavailable**
 Remote Invocation Error Code : **5**
 Remote Invocation Description : **UCSM and UCS Central time is not synchronized. Retrying...**

⊖ Step Sequence

Order	Name	Description	Status	Timestamp	Retried
1	Repair Cert Verify Guid	verifying GUID of UCS Ce...	In Progress	2017-08-17T22:41:53Z	1
2	Repair Cert Unregister		Pending		0
3	Repair Cert Clean Old Data		Pending		0
4	Repair Cert Request		Pending		0
5	Repair Cert Verify		Pending		0

Scenario 3: Wrong shared secret is entered while Registration from UCS Domain.

Fix: Enter the right shared secret and try the registration again.

Refer to **Resetting the Shared Secret** in the link below to change the shared secret.

https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-central/install-upgrade/2-0/b_Cisco_UCSC_Install_and_Upgrade_Guide_2_0/b_Cisco_UCSC_Install_and_Upgrade_Guide_2_0_chapter_0101.html#task_8299DFA4853049068C7E384F5E8FF493

FSM Status from UCS Manager

UCS Central Providers **FSM** Faults

UCS Central Registration Policy Resolution Control

FSM Status : **Fail**
 Description :
 Current FSM Name : **Repair Cert**
 Completed at : **2017-08-17T22:45:38Z**
 Progress Status :
 Remote Invocation Result : **Failure**
 Remote Invocation Error Code : **5**
 Remote Invocation Description : **shared secret mismatch**

⊖ Step Sequence

Order	Name	Description	Status	Timestamp	Retried
1	Repair Cert Verify Guid	verifying GUID of UCS Ce...	In Progress	2017-08-17T22:43:10Z	2
2	Repair Cert Unregister		Pending		0
3	Repair Cert Clean Old Data		Pending		0
4	Repair Cert Request		Pending		0
5	Repair Cert Verify		Pending		0

Scenario 4: UCS Central cannot communicate with UCS Manager during registration

Fix: Ensure that there is no firewall blocking communication between UCSM and UCS Central over 443.

FSM Status from UCS Manager

All / Communication Management / UCS Central

UCS Central Providers **FSM** Faults

UCS Central Registration Policy Resolution Control

FSM Status : **In Progress**
 Description :
 Current FSM Name : **Repair Cert**
 Completed at :
 Progress Status :
 Remote Invocation Result : **Not Applicable**
 Remote Invocation Error Code : **None**
 Remote Invocation Description :

⊖ Step Sequence

Order	Name	Description	Status	Timestamp	Retried
1	Repair Cert Verify Guid	verifying GUID of UCS Ce...	In Progress	2017-08-17T22:49:34Z	1
2	Repair Cert Unregister		Pending		0
3	Repair Cert Clean Old Data		Pending		0
4	Repair Cert Request		Pending		0
5	Repair Cert Verify		Pending		0

Save Changes Reset Values