# **Configure and Claim a Standalone C-Series Server in Intersight after Motherboard Replacement**

## Contents

Introduction
Prerequisites
Requirements
Components Used
Related Products
Background Information
Problem: New RMA Server Is Not Claimed in Intersight and Original Failed Server is Claimed
Solution
Basic Verification for Device Claim Issues
Cisco Intersight General Network Connectivity Requirements
Related Information

## Introduction

This document describes how to configure and claim a standalone C-Series server in Cisco Intersight after the motherboard has been replaced.

## Prerequisites

## Requirements

Cisco recommends that you have knowledge of these topics:

- Cisco Integrated Management Controller (CIMC)
- Cisco Intersight
- Cisco C-Series Servers

## **Components Used**

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

- Cisco C240-M5 4.1(3d)
- Cisco Intersight Software as a Service (SaaS)

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.

## **Related Products**

This document can also be used with these hardware and software versions:

- C-Series M4 3.0(4) and later
- C-Series M5 3.1 and later
- C-Series M6 4.2 and later
- S-Series M5 4.0(4e) and later

Note: For a comprehensive list of supported hardware and software, reference these links: <u>Intersight Supported PIDs</u> and <u>Intersight Supported Systems.</u>

## **Background Information**

- The most common use case for this document is when a C-Series was claimed to Cisco Intersight and the motherboard is replaced by Return Material Authorization (RMA). Anytime an RMA occurs the original server needs to be unclaimed and the new server needs to be claimed in Cisco Intersight.
- This document assumes the original C-Series server was claimed successfully before the motherboard RMA, and there are no configuration or network issues that would contribute to a failed claim process.
- You can unclaim targets directly from the Cisco Intersight Portal or from the Device Connector of the endpoint itself, it is recommended to unclaim targets from Cisco Intersight Portal.
- If a target is directly unclaimed from its Device Connector and not the Intersight Portal, it shows the target within Cisco Intersight as unclaimed. The endpoint also needs to be manually unclaimed from Cisco Intersight.
- The original C-Series server likely displays status as Not Connected in Cisco Intersight. This can vary based on the reason why the motherboard needs replacement.

# **Problem: New RMA Server Is Not Claimed in Intersight and Original Failed Server is Claimed**

If a standalone C-Series server has been claimed in Cisco Intersight the server Serial Number (SN) becomes paired with Cisco Intersight. If the claimed server requires a motherboard replacement due to a failure or any other reason, the original server needs to be unclaimed and the new server needs to be claimed in Cisco Intersight. The C-Series SN changes with the motherboard RMA.

# Solution

Unclaim the C-Series server from Cisco Intersight that needs replacement. Configure the new servers CIMC, and Device Connector, and Claim the new server to Cisco Intersight.

Step 1. If you have any **Resource Groups** defined follow this step, if not, proceed to Step 1.1. Launch Cisco Intersight and click **System > Settings > Admin > Targets** and locate your server that needs replacement. Make a note of any **Resource Groups** that are non-default, as shown in this image.

= the Intersight	l∰ System ∨	Q Search	000 ¢1	48 Q (0 1100 (A 523)	0	۹
<ul> <li>Settings</li> <li>Admin</li> <li>Targets</li> <li>Software Repository</li> </ul>	License subscription data is not found in Cisco Software Central. Please make sure, Account, License compliance status will continue to be updated, but some licensing may be out of sync with Cisco Software Central. Go to Licensing     Targets     Comparison C	your Cisco ID User Account has access to the Smart g details such as expiration details and purchased counts				×
Audit Logs Sessions Licensing	Details Claimed Time S minutes ago Claimed By Jdellipa@cisco.com Connector Version 1.0.11-3273 Product ID UCSC-C220-MSSX Access Mode Allow Control Organizations default jdefault jdefa			Events Alarms Active Acknowledged No Alarms	No Alarms	

Step 1.1. Navigate to Admin > Targets. Select the box for the target(s) that are to be replaced and unclaimed and click the Trash Can Icon > Unclaim as shown in this image.

=	cisco Intersight	ADMIN > Targets	۵ 📴 ۲	🖸 🔍 🧿 🎯 James Delli Paoli 🕰
<u>00o</u>	MONITOR			Claim a New Target
	OPERATE ^			
	Servers Chassis Fabric Interconnects	Add Filter  Connection X Connected 1	Vendor	1 items found 10 → per page K < 1 of 1 > > □
**	HyperFlex Clusters			
×	Profiles Policies Pools	Name         Status           CSeries-Claim-Original-MB         INot Connected           Image: Selected 1 of 1         Show Selected         Unselect All	Unclaim Target From Intersight Target device corresponding stats from your intensight account. The endpoint will retain its configures settings. Are you sure you want to unclaim?	Claimed By Product ID \$
Ţ	ADMIN ^ Targets		Cancel	

Step 2. Connect a Keyboard Video Monitor (KVM) to the newly replaced server (skip this step if CIMC has already been configured). At the Cisco splash screen on bootup select F8 to configure CIMC. Configure the appropriate Network Interface Card (NIC) Properties for your environment and press F10 to Save. Insert physical cables to the server and its connected device based on the NIC Properties used for management.

Note: Step 2. illustrates and describes a local setup of the CIMC with a connected KVM directly to a C240-M5. The initial CIMC setup can also be done remotely with DHCP. Please reference the proper Installation Guide for your server model and choose which Initial CIMC Setup is best for you.



Step 3. Launch CIMC Graphical User Interface (GUI) and navigate to Admin > Device Connector. If Device Connector is disabled, choose Turn On. Once it is enabled select Settings.

**Tip**: In the CIMC GUI navigate to Chassis > Summary and compare the Firmware Version to confirm the minimum firmware requirements are met to be claimed by Cisco Intersight. Use this link to verify the minimum requirements for your specific server model: Intersight Supported Systems. If the firmware does not meet the minimum requirements to be claimed, run a Host Upgrade Utility (HUU) on the server, see here: Cisco Host Upgrade Utility Process.

	↔ Cisco Integrated Management Controller	🐥 🔽 admin(
	n / Admin / Device Connector 🔺	Refresh   Host Power   Launch vKVM   Pir
Chassis •	The Device Connector is an embedded management controller that enables the capabilities of Cisco In	tersight, a cloud-based management platform. For detailed information about configuring the device connec
Compute		
Networking •	Cisco Intersight™ provides Intelligent cloud-based infrastructure management with embedded analytics for the Cisco United Computing System™ (Cisco UCS®) and Cisco HyperFlex® platforms.	
Storage +	This platform offers an intelligent level of management that enables IT organizations to analyze, simplify, and automate their environments in more advanced ways than the prior generation of tools.	
Admin 👻	Turn on the Device Connector to enable Intersight Management.	
User Management	Tum On	
Networking		
Communication Services		Device Connector
Security Management		
Event Management		
Firmware Management		
Utilities		
Device Connector		

8005 X1		COF TREE Refresh   Hest Power   Launc	h vKVM   Ping   CIMC I	Reboot   Locato	r LED   🕲
Chassis	•	nent controller that enables the capabilities of Cisco Intersight, a cloud-based management platform. For detailed information about configuring th	e device connector, please vi	sit Help Center	
Compute				Settings	C Refresh
Networking	Þ	ACCESS MODE ALLOW CONTROL	Device ID		
Storage			10212-02408		Ē
Admin	×				
User Management		Internet Intersight			
Networking					
Communication Services					
Security Management		s successful but device is still not claimed. To claim the device open Cises Intersicht create a new account and follow the midance or Open			
Event Management		Device for existing account. Intersight			
Firmware Management					
Utilities					
Device Connector					

Step 3.1. Navigate to Admin > Device Connector > Settings > DNS Configuration and configure the appropriate DNS Server and select Save as shown in this image.

js			
ral			
Configuration	Configure DNS settings for IMC Software		
Configuration	Domain Nome		
Configuration	Domain Name	©	
cate Manager	DNS Server		
ction	1411/22619	⊙ +	
icate Manager	DNS Server	o. +	

Step 3.2. Navigate to Admin > Device Connector > Settings > NTP Configuration. Configure the NTP Server address per the environment and select Save as shown in this image.

n / Admin / Device Connector *			Refresh   Host Power   Launch vKVM   Ping   CIMC Reboot   Locator LED			0
he Device Connector is an emb	edded management controller that enables the capabilities of	Cisco Intersight, a cloud-based managem	ent platform. For detaile	ed information about configuring th	e device connector, please visit Help Center	_
Settings						×
General						
DNS Configuration	Configure NTP settings for IMC Software					
NTP Configuration	NTP Server					
Proxy Configuration	10000	0	+			
Certificate Manager						
Connection					Cancel Save	

Step 3.3. Optionally configure a proxy if necessary to reach Cisco Intersight. Navigate to Admin > Device Connector > Settings > Proxy Configuration > Enable Proxy. Configure the Proxy Hostname/IP and the Proxy Port and select

### Save.

#### Admin / Device Connector 🔺

### Refresh | Host Power | Launch vKVM | Ping | CIMC Reboot | Locator LED | @

The Device Connector is an embedded management controller that enables the capabilities of Cisco Intersight, a cloud-based management platform. For detailed information about configuring the device connector, please visit Help Center

ttings			
ieneral			
NS Configuration	Configure proxy settings		
ITP Configuration	Enable Proxy		
roxy Configuration	Proxy Hostname/IP *	Proxy Port *	* 0
ertificate Manager			1 - 65535
Connection	Authentication		
		Cancel	Save

Step 4. Select Admin > Device Connector and copy the Device ID and Claim Code. Copy both to a notepad or text file for later use.

		🐥 🔽 - C-Series-Reclaim-New-RMA-MB 🌣
Chassis	Admin / Device Connector ★	Refresh   Host Power   Launch vKVM   Ping   CIMC Reboot   Locator LED   🖉 🕚
Compute	The Device Connector is an embedded management controller that enables the capabilities of Cisco Intersight, a cloud ba Help Center	ased management platform. For detailed information about configuring the device connector, please visit
Networking +	Device Connector	③ Settings   〇 Refresh
Storage	ACCESS MODE - ALLOW CONTROL	Device ID
Admin •	····· <u>\</u>	
Networking Communication Services	Device Connector Internet	Intersight
Security Management	🔔 Not Claimed	
Event Management	The connection to the Cisco Intersight Portal is successful, but device is still not claimed. To claim the device open Cisc	to Intersight, create a new Open
Firmware Management	account and follow the guidance or go to the Targets page and click Claim a New Device for existing account, 10.11-2299	Intensight
Device Connector		

Step 5. Launch Cisco Intersight and navigate to Admin > Targets > Claim a New Target > Cisco UCS Server (Standalone) > Start. Enter the Device ID and Claim Code that was copied from the CIMC GUI, select any Resource Groups that apply and choose Claim.

Ξ	cisco Intersight	ADMIN > Targets Q G Ø James Delli Paoli &
<u>00o</u>	MONITOR	Claim a New Target
Ŷ	OPERATE ^	
	Servers	
	Chassis	
	Fabric Interconnects	Connection X Top Targe X Vendor
	HyperFlex Clusters	NO DATA AVAILABLE NO TYPES NO DATA AVAILABLE
×	CONFIGURE ^	
	Profiles	Name Status Type Target ID Claimed Time Claimed By Product ID
	Policies	
	Pools	
ø	ADMIN ^	
	Targets	
=	disco Intersight	System ✓ Q Search ⊘ (©1) ⊄1 48 Q (0 1000 (A 528)
6	Settings	Lineare substatistics data is not found in Cleas Software Control Diarce main sure usur Cleas ID Linear Leavest has seened to the Diarce
0	Admin	Account, License compliance status will continue to be updated, but some licensing details such as expiration details and purchased counts may be upd such with Cicco Software Central Co to Licensing
	Tamets	und as acts the unit size second as a restant.

	idellipa-example-ord	up	jdellipa-example-org	1 1992 2 1997 <sup>-</sup> (* 1953 - 1	
	Name		G	10 items found 10 v per page C 1 of 1 Description	0
	Resource Groups Select resource gro	sups, if required. This is not mandatory, sin	ce by default, the claimed target	t will be added to "All" type resource groups.	
ions	Device ID *	Claim Code *			0
	General				

**Note**: Resource groups are not mandatory, by default, claimed targets will be grouped into the All resource group. If the replaced server was not previously part of any Resource Group, disregard the selection and choose Claim.

Step 6. Navigate to Admin > Targets. A successful claim shows the Status > Connected, as shown in this image.

	cisco Intersight	ADMIN > Targets	🗘 🗖 1 🛛 🖓 🖓 💮 🖉 James Delit Pacoli 🖉
<u>00o</u>	MONITOR		Claim a New Target
ø	OPERATE ^	× AllTangarta ⊙ +	
	Servers		G Export 1 Nema Jourd 19 - per page 16 C 1 of 1 2 3
	Chatse Fabric Interconnects	Connection 2 Top Targets by Types 2 Vendor	Ø
	HyperFlex Clusters	Connected 1     1 * Standalma MS Server 1     1 * Clean Systems, Inc. 1	
×	CONFIGURE ^		
	Profiles	Name Blatus Type Target D Claimed Time	Claimed By Product ID §
	Policies	Connected Standalone MS Server INCERCENT 15V9 S minutes ago	jółfipagcisco.com
	Poola		
Ţ	ADMIN ^		
	Targets		

# **Basic Verification for Device Claim Issues**



**Note**: For a comprehensive list of Error Conditions and Remediations refer to this link: <u>Device</u> Connector Error Conditions and Remediation Steps.

Device Connector Connection Status Descriptions	Device Connector Connection Status Explanations	Possible Remediations
Claimed	The connection to the Cisco Intersight platform is successful and you have claimed the connection.	N/A
Not Claimed	The connection to the Cisco Intersight platform is successful, but not the endpoint is yet to be claimed.	You can claim an unclaimed connection through Cisco Intersight.
Administratively Disabled	Indicates that the Intersight management/Device Connector has been disabled on the endpoint.	Enable the Device Connector on the endpoint.
DNS Misconfigured	DNS has been configured incorrectly in CIMC or not configured at all.	Indicates none of the DNS name servers configured on the system are reachable. Please verify you have entered valid IP addresses for the DNS name servers.
Intersight DNS Resolve Error	DNS is configured but unable to resolve the DNS name of Intersight.	Check this link to see if Intersight is undergoing maintenance: <u>Intersight Status</u> . If Intersight is operational this likely indicates that the DNS name of the Intersight service is not resolved.
UCS Connect Network Error	Indicates the invalid network configurations.	Check and confirm: MTU is correct from end-to-end, Port 443 and 80 are allowed, Firewall allows all physical and virtual IPs, DNS and NTP are configured on the endpoint.
Certificate Validation Error	The endpoint refuses to establish a connection to the Cisco Intersight platform because the certificate	Expired or not yet valid certificate: Verify NTP is properly configured and device time is synchronized

-	
presented by the Cisco Intersight platform is invalid.	with Coordinated Universal Time. Verify DNS is properly configured. If a transparent web proxy is in use verify the certificate has not expired.
	The certificate name presented by the web server does not match the DNS name of Intersight service: Verify DNS is properly configured
	Contact your web proxy administrator to verify the transparent web proxy is
	configured correctly. Specifically, the name of the certificate presented by the web proxy must match the DNS name of the Intersight service (svc.intersight.com).
	The certificate has been issued by an untrusted Certificate Authority (CA): Verify DNS is properly configured. Contact your web administrator or infosec to verify the transparent web proxy is configured correctly. Specifically, the name of the certificate presented by the web proxy must match the DNS name of the Intersight service.

## **Cisco Intersight General Network Connectivity Requirements**

- A network connection to the Intersight platform is established from the Device Connector in the endpoint
- Check if a firewall is introduced between the managed target and Intersight, or if the rules for a current firewall have changed. This could cause end-to-end connection issues between the endpoint and Cisco Intersight. If the rules are changed, ensure that the changed rules permit traffic through the firewall.
- If you use an HTTP proxy to route traffic out of your premises, and if you have made changes to the HTTP proxy server configuration, ensure that you change the device connector configuration to reflect the changes. This is required because Intersight does not automatically detect HTTP proxy servers.
- Configure DNS and resolve the DNS name. The Device Connector must be able to send DNS requests to a DNS server and resolve DNS records. The Device Connector must be able to resolve svc.intersight.com to an IP address.
- Configure NTP and validate that the device time is properly synchronized with a time server.

Note: For a comprehensive list of Intersight Connectivity Requirements reference Intersight Network Connectivity Requirements.

# **Related Information**

- <u>Cisco Intersight Getting Started Claim Targets</u>
- <u>Cisco Intersight SaaS Supported Systems</u>
- <u>Cisco Intersight SaaS Supported PIDs</u>
- <u>Cisco Intersight Network Connectivity Requirements</u>
- <u>Cisco Intersight Training Videos</u>
- Cisco bug ID <u>CSCvw76806</u> A standalone C-Series server can fail to successfully claim in Cisco Intersight if its device connector version is less than 1.0.9.
- <u>Technical Support & Documentation Cisco Systems</u>