

UCS Central 1.5 – Static ID Assignment in UI

Also Showing how to “Reference” the Statically Assigned ID’s back to a Global Pool

vNICs and vHBAs – Statically Assign, then resolve to a Global Pool

1. Start with a G-SP, and I am assuming it is previously “bound” to a G-SP Template.

The screenshot displays the Cisco UCS Central web interface for a G-MAC-2 Service Profile. The interface includes a navigation sidebar on the left with categories like Basic, Identifiers, Connectivity, FC Zones, Server, Storage, and Policies. The main content area shows the following details:

- Service Profile Template:** G-MAC-Template (Updating Template)
- Assigned Server:** <Not-Assigned>
- Overall Status:** Unassociated
- Config Errors:** 3
- Pending Changes:** NO
- Fault Summary:** Critical (0), Major (1), Minor (0), Warning (1)
- Critical Config Errors:**
 - There are not enough resources overall.
 - qualified-pool-without-binding
 - Missing IPv4 address
- Settings:**

| Settings | Value |
|--|----------|
| User Label | |
| Desired Power State On Association | ON |
| Compatibility Check On Migration Using Server Pool | Disabled |

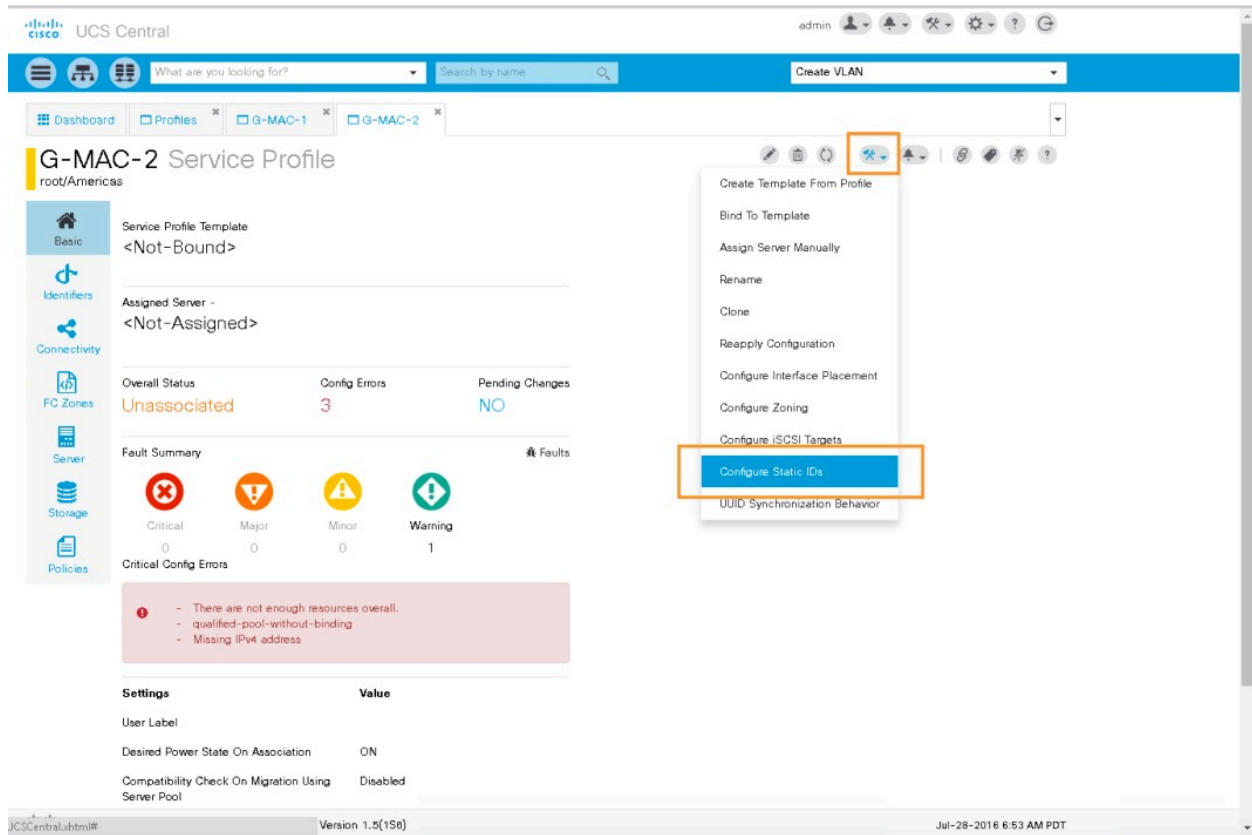
2. "unbind" the G-SP from the G-SP Template

The screenshot displays the Cisco UCS Central web interface for the 'G-MAC-2 Service Profile'. The page shows the service profile template 'G-MAC-Template' with an 'Assigned Server' of '<Not-Assigned>'. The overall status is 'Unassociated' with 3 configuration errors and no pending changes. A fault summary indicates 1 major error, 0 minor errors, and 1 warning. A critical configuration error is listed: 'There are not enough resources overall. qualified-pool-without-binding. Missing IPv4 address'. The settings table is as follows:

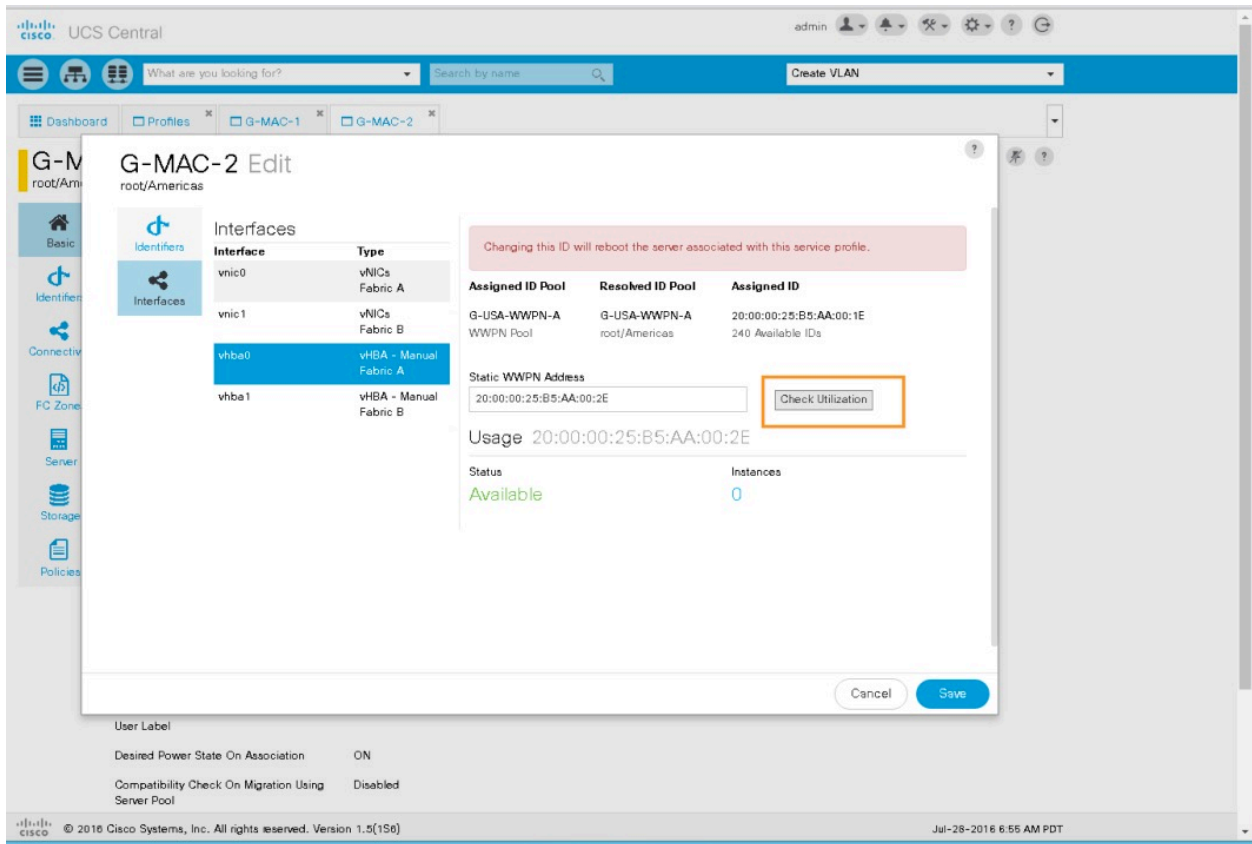
| Settings | Value |
|--|----------|
| User Label | |
| Desired Power State On Association | ON |
| Compatibility Check On Migration Using Server Pool | Disabled |

The 'Unbind From Template' option is highlighted in a dropdown menu, indicating the action to be taken to unbind the service profile from its template.

- Once you “un-bind” the G-SP, the option to Statically-Assign ID’s now shows in the tools-icon drop-down.



5. Click “Check Utilization” to verify that the newly assigned Static WWPN is “available” in the system, and not “in-use” by another G-SP. Once confirmed, click “Save”.



- Within the G-SP, go to the Connectivity Tab and check the newly assigned WWPN on the vHBA. Notice that the “Resolved ID Pool” has no value, resolution shown. At this point, this ID is purely “Statically Assigned”, so now let’s resolve the ID back to a Global Pool. I am assuming a Global Pool already exists including the format for the statically assigned IDs.

The screenshot displays the configuration for the G-MAC-2 Service Profile. The left sidebar contains navigation tabs: Basic, Identifiers, Connectivity (selected), FC Zones, Server, Storage, and Policies. The main content area is divided into several sections:

- Connectivity:** Shows settings for LAN, SAN, and Dynamic Connectivity. All are currently set to '<Not-Assigned>'. Management VLAN is also '<Not-Assigned>'. A note indicates 'Resolved On Association From UCS'.
- Interfaces Table:**

| Interfaces | Type | Order |
|------------------------------|----------------------------------|-------------|
| vnic0 1 VLANs | vNICs Fabric A | Unspecified |
| vnic1 1 VLANs | vNICs Fabric B | Unspecified |
| vhba0 G-SAN-PROD-A | vHBA - Manual Fabric A | Unspecified |
| vhba1 G-SAN-PROD-B | vHBA - Manual Fabric B | Unspecified |
- vhba0 vHBA - Manual Fabric A Settings:**
 - Settings:** Fabric ID: A; Template Name: Fabric-A; Redundancy Peer vHBA: root/Americas; Persistent Binding: Disabled; Max. Data Field Size: 2048 Bytes.
 - ID Pools:**

| Assigned ID Pool | Resolved ID Pool | Assigned ID |
|---------------------------|------------------|--------------------------------------|
| G-USA-WWPN-A WWPN Pool | ? | 20:00:00:25:B5:AA:00:2E Static ID |
 - Policy:**

| | Assigned | Resolved |
|----------------------|----------------|----------------|
| FC Adapter | global-default | global-default |
| QoS | <Not-Assigned> | root |
| Statistics Threshold | global-default | global-default |

- Click the "Reset" Icon, and then click "Reset" on the pop-up. This action will resolve the statically assigned ID to a pool (if the pool exists). **Please be patient...this could take up to 10 seconds.**

The screenshot shows the Cisco G-MAC-2 Service Profile configuration page. A dialog box titled "Reset ID From Pool" is open, displaying the following text:

Reset ID operation will release currently assigned ID and assign a new ID from the selected pool only if currently assigned ID is no longer available in the selected pool.

Reset ID operation may reboot the server associated with this service profile.

Proceed to **reset ID** from pool?

Buttons: Cancel, Reset

An orange arrow labeled "Reset" Icon points to a small "Reset" icon in the "Assigned ID" field of the "Assigned ID Pool" table.

| Assigned ID Pool | Resolved ID Pool | Assigned ID |
|---------------------------|------------------|--------------------------------------|
| G-USA-WWPN-A WWPN Pool | | 20:00:00:25:B5:AA:00:2E Static ID |

| Policy | Assigned | Resolved |
|----------------------|----------------|----------------|
| FC Adapter | global-default | global-default |
| QoS | <Not-Assigned> | root |
| Statistics Threshold | global-default | global-default |

8. The previous Statically Assigned ID should now be properly referencing a Global ID Pool.

The screenshot shows the configuration page for a vHBA interface in Cisco UCS Manager. The interface is named 'vhba0' and is of type 'vHBA - Manual'. The 'Assigned ID' field is highlighted with an orange box, and an orange arrow points to it from a text annotation that reads 'ID is now properly referencing a Global Pool.'

| Assigned ID Pool | Resolved ID Pool | Assigned ID |
|---------------------------|---------------------------------|--|
| G-USA-WWPN-A WWPN Pool | G-USA-WWPN-A ☑ root/Americas | 20:00:00:25:B5:AA:00:2E ☑ 240 Available IDs |

9. Repeat this exercise for All PCIe (vNIC/vHBA) Interfaces.

UUID – Statically Assign, then resolve to a Global Pool

10. UUIDs have a slightly different procedure than the previous PCIe (vNIC/vHBA) interfaces. “Un-Bind” the G-SP from the G-SP Template.

The screenshot displays the Cisco UCS Central web interface for the 'G-MAC-2 Service Profile'. The interface includes a navigation sidebar on the left with categories like Basic, Identifiers, Connectivity, FC Zones, Server, Storage, and Policies. The main content area shows the 'Service Profile Template' section for 'G-MAC-Template' with an 'Assigned Server' of '<Not-Assigned>'. A 'Fault Summary' section indicates 3 configuration errors and 1 warning. A 'Critical Config Errors' section lists three errors: 'There are not enough resources overall.', 'qualified-pool-without-binding', and 'Missing IPv4 address'. A 'Settings' table is visible at the bottom.

| Settings | Value |
|--|----------|
| User Label | |
| Desired Power State On Association | ON |
| Compatibility Check On Migration Using | Disabled |
| Server Pool | |

The context menu is open, showing options such as 'Create Template From Profile', 'Unbind From Template' (highlighted), 'Assign Server Manually', 'Rename', 'Clone', 'Reapply Configuration', 'Configure Zoning', 'Configure iSCSI Targets', and 'UUID Synchronization Behavior'.

11. Select, Configure Static IDs.

The screenshot displays the UCS Central interface for a G-MAC-2 Service Profile. The main content area shows the profile's status as 'Unassociated' with 3 configuration errors and 1 warning. A dropdown menu is open, highlighting the 'Configure Static IDs' option. The interface includes a navigation sidebar on the left and a settings table at the bottom.

Service Profile Template: <Not-Bound>

Assigned Server: <Not-Assigned>

Overall Status: Unassociated

Config Errors: 3

Pending Changes: NO

Fault Summary:

| Critical | Major | Minor | Warning |
|----------|-------|-------|---------|
| 0 | 0 | 0 | 1 |

Critical Config Errors:

- There are not enough resources overall.
- qualified-pool-without-binding
- Missing IPv4 address

Settings Table:

| Settings | Value |
|--|----------|
| User Label | |
| Desired Power State On Association | ON |
| Compatibility Check On Migration Using Server Pool | Disabled |

12. Edit the new Static UUID, and Check Availability. Then Save.

UCS Central admin

What are you looking for? Search by name Create VLAN

Dashboard Profiles G-MAC-1 G-MAC-2

G-MAC-2 Edit

root/Americas

Identifiers

UUID dc81c8de-3b00-11e5-0000-00000000001e

Interfaces

ID Pool

In-Band Management IP (IPv4)

Out-of-Band Management IP (IPv4)

In-Band Management IP (IPv6)

IQN

WWNN 20:00:00:25:B5:00:00:0E

ID Pool

Changing this ID will reboot the server associated with this service profile.

UUID dc81c8de-3b00-11e5-0000-00000000001e

| Assigned ID Pool | Resolved ID Pool | Assigned ID |
|--------------------|-----------------------------|---|
| G-USA-UUID UUID | G-USA-UUID root/Americas | dc81c8de-3b00-11e5-0000-00000000001e 240 Available IDs |

Static UUID

dc81c8de-3b00-11e5-0000-00000000002e

Check Utilization

Usage dc81c8de-3b00-11e5-0000-00000000002e

Status Available Instances 0

Changed the UUID ending in "1e" to "2e". Check Availability!, then Save.

Cancel Save

User Label

Desired Power State On Association ON

Compatibility Check On Migration Using Disabled

Server Pool

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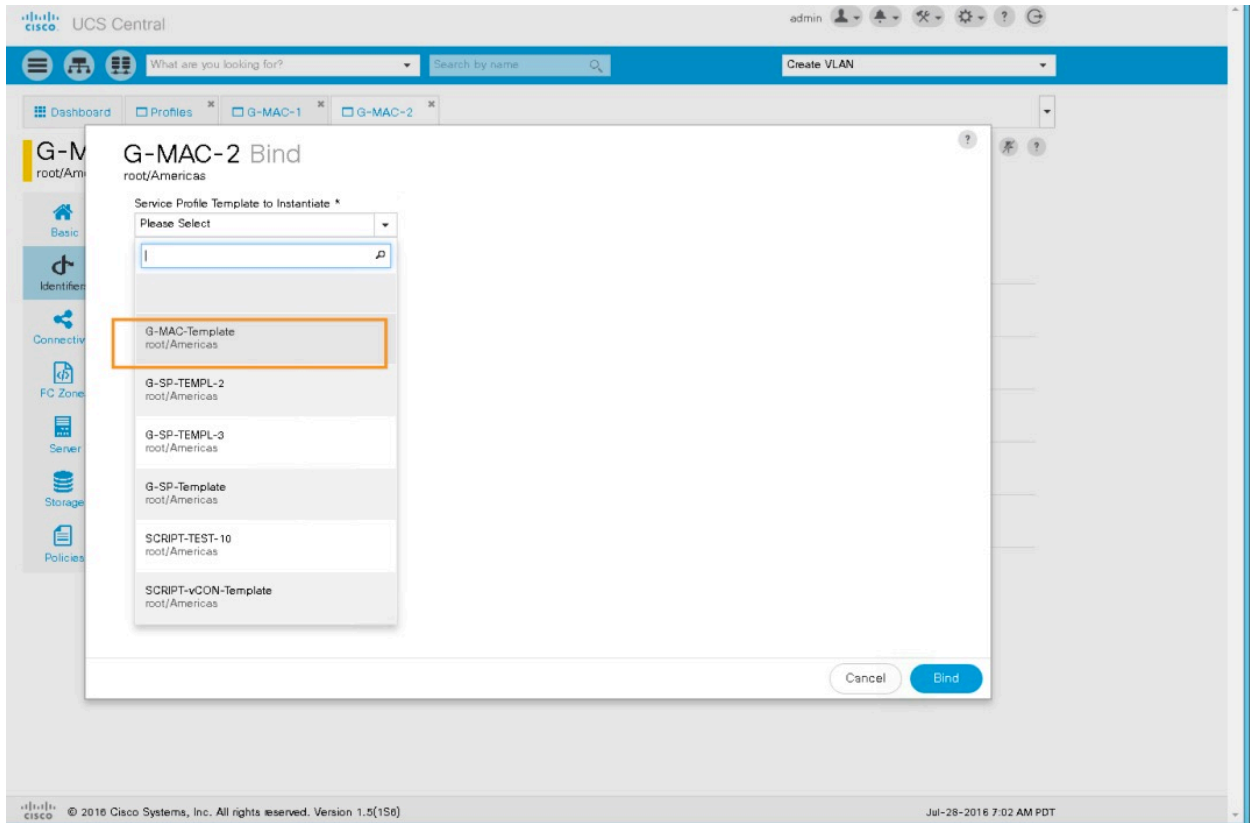
13. Go to the G-SP, and click the Identifiers Tab. Notice the newly assigned Static UUID. Also notice there is no Resolved Global Pool.

The screenshot shows the Cisco UCS Central interface for the 'G-MAC-2 Service Profile' under the 'root/Americas' context. The 'Identifiers' tab is active, displaying a table with the following data:

| Identity | Assigned ID Pool | Resolved ID Pool | Assigned ID |
|----------------------------------|-----------------------------|-----------------------------|---|
| UUID | <Not-Assigned> UUID Pool | ? | dc81c8de-3b00-11e5-0000-00000000002e Static ID |
| In-Band Management IP (IPv4) | <Not-Assigned> IPv4 Pool | | |
| Out-of-Band Management IP (IPv4) | G-MGMT-IP IPv4 Pool | | ⌘ |
| In-Band Management IP (IPv6) | <Not-Assigned> IPv6 Pool | | :: |
| IQN | <Not-Assigned> IQN Pool | | |
| WWNN | G-USA-WWNN WWNN Pool | G-USA-WWNN root/Americas | 20:00:00:25:B5:00:00:0E ⌘ 240 Available IDs |

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14. In order to Resolve the Statically Assigned UUID to a Global Pool, Bind the G-SP back to a G-SP Template (Template would have to reference the Global Pool).



- Once "Bound" back to a G-SP Template, then notice and click on the Reset Icon, and confirm Reset on the pop-up.

The screenshot displays the Cisco UCS Central web interface. The main view is for the 'G-MAC-2 Service Profile' under the 'root/Americas' organization. A table lists various identities and their associated ID pools and assigned IDs. A red box highlights the 'Reset' icon (a square with a circular arrow) next to the 'Assigned ID' for the 'UUID' identity. A dialog box titled 'Reset ID From Pool' is overlaid on the screen, containing the following text:

Reset ID operation will release currently assigned ID and assign a new ID from the selected pool only if currently assigned ID is no longer available in the selected pool.

Reset ID operation may reboot the server associated with this service profile.

Proceed to **reset ID** from pool?

The dialog has 'Cancel' and 'Reset' buttons at the bottom.

| Identity | Assigned ID Pool | Resolved ID Pool | Assigned ID |
|----------------------------------|-----------------------------|------------------|---|
| UUID | G-USA-UUID UUID Pool | | dc81c8de-3b00-11e5-0000-00000000002e Static ID |
| In-Band Management IP (IPv4) | <Not-Assigned> IPv4 Pool | | |
| Out-of-Band Management IP (IPv4) | G-MGMT-IP IPv4 Pool | | |
| In-Band Management IP (IPv6) | <Not-Assigned> IPv6 Pool | | |
| IQN | <Not-Assigned> IQN Pool | | |
| WWNN | G-USA-WWNN WWNN Pool | | 0:00:00:25:85:00:00:0E 40 Available IDs |

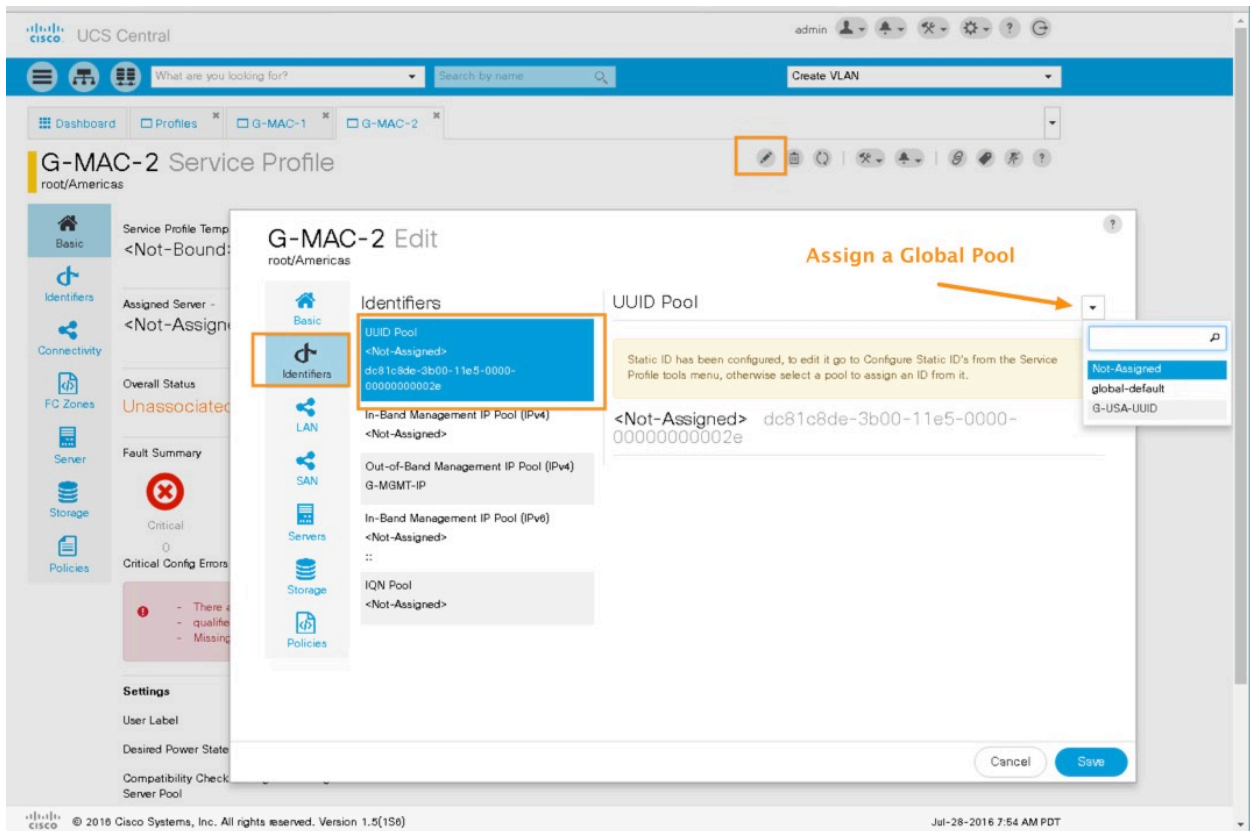
16. UUID is now properly referencing a Global Pool.

The screenshot displays the Cisco UCS Central interface for configuring a G-MAC-2 Service Profile. The interface includes a navigation sidebar on the left with categories like Basic, Identifiers, Connectivity, FC Zones, Server, Storage, and Policies. The main content area shows a table of configuration parameters. The 'UUID' row is highlighted with an orange box, indicating that the UUID is now properly referencing a Global Pool.

| Identity | Assigned ID Pool | Resolved ID Pool | Assigned ID |
|----------------------------------|-----------------------------|-----------------------------|---|
| UUID | G-USA-UUID UUID Pool | G-USA-UUID root/Americas | dc81c8de-3b00-11e5-0000-00000000002e 240 Available IDs |
| In-Band Management IP (IPv4) | <Not-Assigned> IPv4 Pool | | |
| Out-of-Band Management IP (IPv4) | G-MGMT-IP IPv4 Pool | | |
| In-Band Management IP (IPv6) | <Not-Assigned> IPv6 Pool | | |
| IQN | <Not-Assigned> IQN Pool | | |
| WWNN | G-USA-WWNN WWNN Pool | G-USA-WWNN root/Americas | 20:00:00:25:B5:00:00:0E 240 Available IDs |

Alternatively, if not binding the G-SP back to a G-SP Template.

17. Keep the G-SP "unbound". Statically assign the UUID in the G-SP as previous. Edit the G-SP and choose to assign the UUID to a Global Pool.



18. Now, you can see and use the “Reset Icon” to properly reference the Static ID back to a Global Pool.

The image displays two screenshots of the Cisco UCS Central web interface. The top screenshot shows the configuration page for the 'G-MAC-2 Service Profile' under the 'Identifiers' tab. A table lists various identifiers and their assigned pools. The 'Assigned ID' field for the 'Static ID' is highlighted with an orange box, and an orange arrow points to a 'Reset Icon' (a square with a circular arrow) next to it. The text 'Click Reset Icon' is written in orange above the icon.

The bottom screenshot shows the same configuration page, but with a 'Reset ID From Pool' dialog box open. The dialog box contains the following text:

Reset ID From Pool

Reset ID operation will release currently assigned ID and assign a new ID from the selected pool only if currently assigned ID is no longer available in the selected pool.

Reset ID operation may reboot the server associated with this service profile.

Proceed to **reset ID** from pool?

Buttons: Cancel, Reset

19. Previously assigned Static UUID is now referencing a Global Pool

The screenshot displays the Cisco UCS Central interface for the 'G-MAC-2 Service Profile'. The 'Identity' section is expanded, showing a table of assigned and resolved ID pools. The 'UUID' row is highlighted with an orange box, indicating that the 'Resolved ID Pool' is 'G-USA-UUID' and the 'Assigned ID' is 'dc81c8de-3b00-11e5-0000-0000000002e'.

| Identity | Assigned ID Pool | Resolved ID Pool | Assigned ID |
|----------------------------------|-----------------------------|-----------------------------|--|
| UUID | G-USA-UUID UUID Pool | G-USA-UUID root/Americas | dc81c8de-3b00-11e5-0000-0000000002e 240 Available IDs |
| In-Band Management IP (IPv4) | <Not-Assigned> IPv4 Pool | | |
| Out-of-Band Management IP (IPv4) | G-MGMT-IP IPv4 Pool | | |
| In-Band Management IP (IPv6) | <Not-Assigned> IPv6 Pool | | :: |
| IQN | <Not-Assigned> IQN Pool | | |
| WWNN | G-USA-WWNN WWNN Pool | G-USA-WWNN root/Americas | 20:00:00:25:B5:00:00:0E 240 Available IDs |

20. Important to allow “Configuring” to properly complete. Be patient throughout the change process, it may take up to 10-seconds for processing to complete.

UCS Central

admin

What are you looking for? Search by name

What do you want to do?

Dashboard Profiles G-MAC-2

G-MAC-2 Service Profile

root/Americas

Configuring...

| Identity | Assigned ID Pool | Resolved ID Pool | Assigned ID |
|----------------------------------|-----------------------------|-----------------------------|--|
| UUID | G-USA-UUID UUID Pool | G-USA-UUID root/Americas | dc81c8de-3b00-11e5-0000-0000000002e 240 Available IDs |
| In-Band Management IP (IPv4) | <Not-Assigned> IPv4 Pool | | |
| Out-of-Band Management IP (IPv4) | G-MGMT-IP IPv4 Pool | | |
| In-Band Management IP (IPv6) | <Not-Assigned> IPv6 Pool | | |
| IQN | <Not-Assigned> IQN Pool | | |
| WWNN | G-USA-WWNN WWNN Pool | G-USA-WWNN root/Americas | 20:00:00:25:B5:00:00:0E 240 Available IDs |

Important: Be patient, and allow configuring to complete.

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