



CORMANT-CS9

New Features Training v9.2

April 2018

Topics Covered

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Summary of Key Changes

- Network Discovery has been added to CS Web
- MIB Files testing and upload
- Discovery Log tab has been added to monitor discovered devices
- SNMP Query function added in CS Web

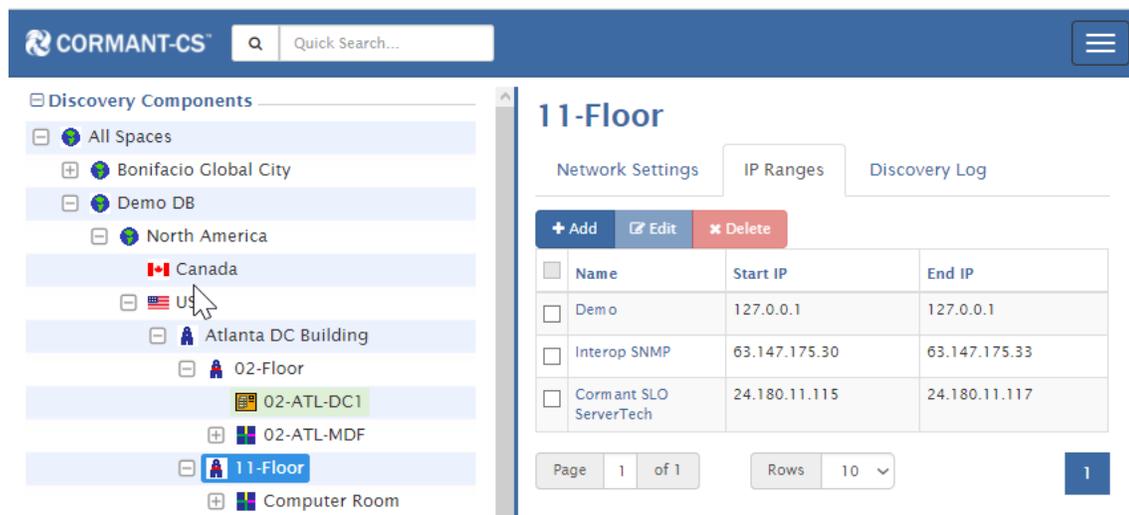
Training on New Features



Let's Get Started...

Network Discovery in v9.2

- Network Discovery or ND is back!
- This function allows you to discover devices within a range of network you have configured
 - Discovers devices in the network with either ping (ICMP) or SNMP-enable protocol
- There are a few configurations you will need to set up to use ND:
 1. Set the **Discovery Attribute Mappings**. This will allow you to map discovery fields such as uptime, mac addresses, to specific attribute in CS
 2. **Configure IP Range**. This is where you set the network range you'd like ND to discover



The screenshot shows the CORMANT-CS interface. On the left is a navigation tree under 'Discovery Components' with a tree structure: All Spaces > Bonifacio Global City > Demo DB > North America > Canada > US > Atlanta DC Building > 02-Floor > 02-ATL-DC1 > 02-ATL-MDF > 11-Floor > Computer Room. The '11-Floor' item is selected. The main content area is titled '11-Floor' and has three tabs: 'Network Settings', 'IP Ranges', and 'Discovery Log'. The 'IP Ranges' tab is active, showing a table with columns 'Name', 'Start IP', and 'End IP'. There are '+ Add', 'Edit', and 'Delete' buttons above the table. The table contains three rows of data. At the bottom, there is a pagination control showing 'Page 1 of 1' and 'Rows 10'.

Name	Start IP	End IP
Dem o	127.0.0.1	127.0.0.1
Interop SNMP	63.147.175.30	63.147.175.33
Cormant SLO ServerTech	24.180.11.115	24.180.11.117

*Once these two items are configured, you can run ND.

Network Discovery in v9.2

Discovery Attribute Mapping

- First thing to do with regards to Network Discovery in Cormant-CS is to map the 3 mandatory discovery attributes. The 3 required attributes are:
 - IP Address,
 - MAC Address
 - Last Update Date/Time.

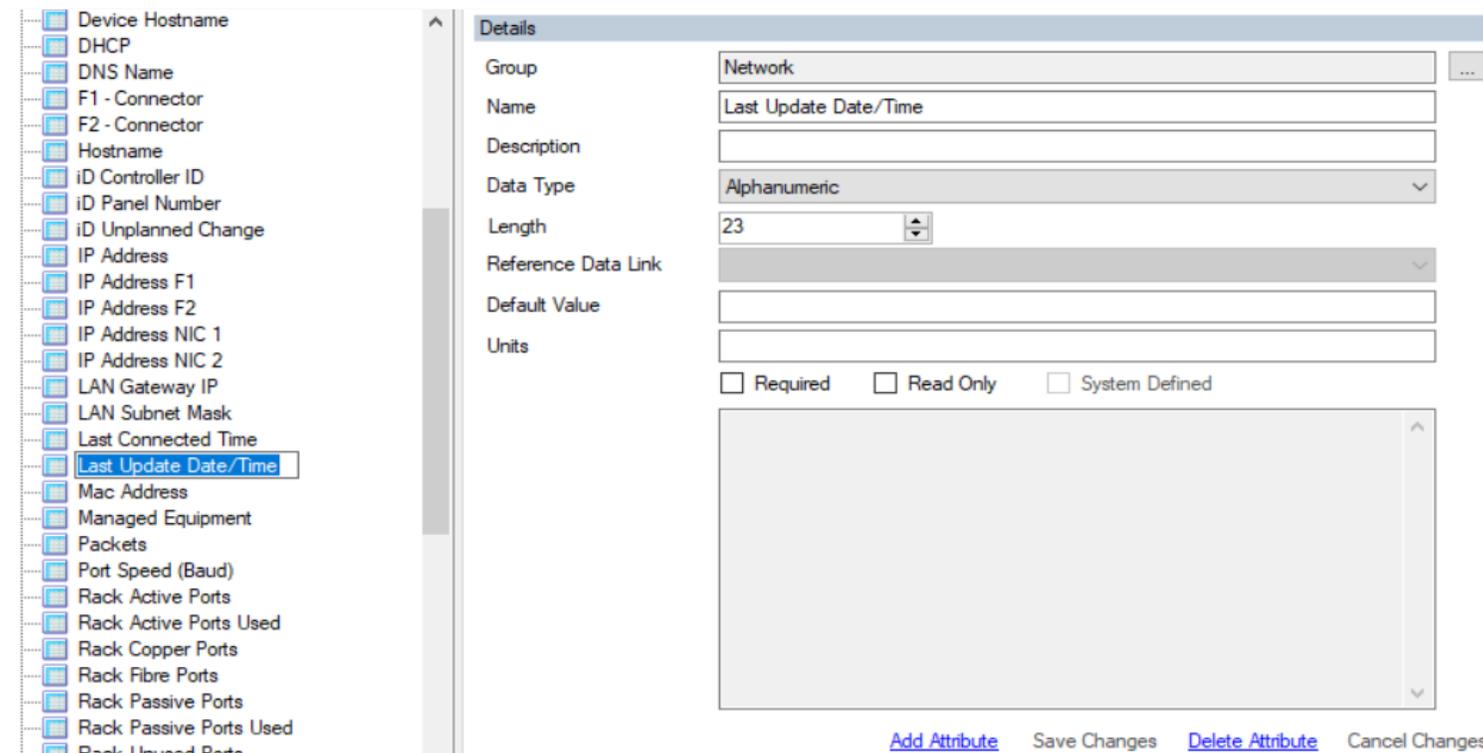
- If coming from older version of Cormant-CS, you will need to map **Last Update Date/Time** attribute. In the main menu, go to *Admin > Global Network Options > Discovery Attribute Mapping*

- Then follow below steps
 1. Open Cormant CS Client, click on **Configuration** then choose **Attributes**.
 2. Right-click on **Network** then choose **Add Attribute**.
 3. In the Name field, type-in **Last Update Date/Time**
 4. **Date Type** should be **Alphanumeric**. It can't be **Date** as Date does not allow **Time**.
 5. **Length** minimum is 23. Save changes.

Network Discovery in v9.2

Discovery Attribute Mapping

> This is where you create/update required ND attribute/s



The screenshot displays the 'Discovery Attribute Mapping' configuration window. On the left, a list of attributes is shown, with 'Last Update Date/Time' selected. The right pane, titled 'Details', shows the configuration for this attribute:

- Group:** Network
- Name:** Last Update Date/Time
- Description:** (Empty field)
- Data Type:** Alphanumeric
- Length:** 23
- Reference Data Link:** (Empty dropdown)
- Default Value:** (Empty field)
- Units:** (Empty field)
- Required:** **Read Only:** **System Defined:**

At the bottom of the window, there are four buttons: [Add Attribute](#), [Save Changes](#), [Delete Attribute](#), and [Cancel Changes](#).

Network Discovery in v9.2

Discovery Attribute Mapping

- Next, map the other mandatory discovery attributes. **IP address** is already mapped by default so no need map it. The other one is **Mac Address** discovery attribute mapped to **Mac Address** attribute.

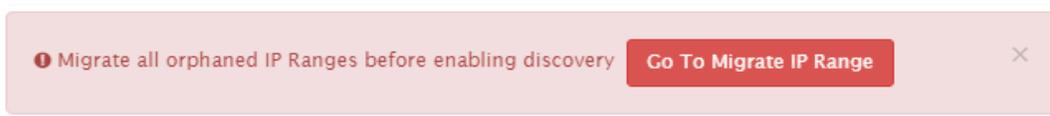
- Follow below steps
 1. In the main menu, go to *Admin > Global Network Options > Discovery Attribute Mapping*
 2. Click on Mac Address, Select an Attribute pop-up will appear.
 3. In the search bar, type-in Mac and Mac Address will become available in the list.
 4. Tick the check box next to it to select it then click OK.

- Repeat same steps above to map **Last Discovered Date/Time**, map it to **Last Update Date/Time**.

Network Discovery in v9.2

Configuration of IP Ranges

- After the 3 required attributes are mapped, set the IP range of items to be discovered.
- In the Web main menu, go to *Admin > Discovery Options*
- If the warning below appears, click on **Go to Migrate IP Range** then proceed to **Migrate IP Range** page.



- To configure IP Ranges:
 1. In the main menu, go to *Admin > Discovery Options > IP Ranges*
 2. Go to and highlight the Space where you want to add IP Ranges.
 3. Click **ADD**
 4. Fill the Name, Start IP, End IP, and the SNMP Community Strings.
 5. Click **OK** to save changes.

Global Network Options

Template/OID Mapping MIB Files Discovery Attribute Mapping **Migrate IP Ranges**

[Link](#) [Delete IP Range and Related Snmp Info](#)

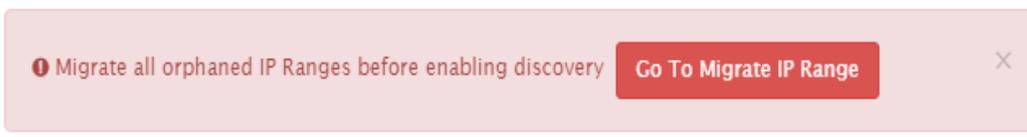
<input type="checkbox"/>	Name	Start IP	End IP
<input checked="" type="checkbox"/>	Demo	127.0.0.1	127.0.0.1
<input checked="" type="checkbox"/>	Interop SNMP	63.147.175.30	63.147.175.33
<input checked="" type="checkbox"/>	Cormant SLO ServerTech	24.180.11.115	24.180.11.117

Page 1 of 1 Rows 10

Network Discovery in v9.2

Migration of IP Ranges

- You may migrate your pre-defined IP Ranges here. Cormant-CS will ask you to complete this process when it detects that you have configured IP ranges from your previous Cormant CS version.



- To migrate pre-defined IP ranges, simply click on the **Go To Migrate IP Range** button or in the main menu go to Admin > Global Network Options > Migrate IP Ranges then follow below steps.
 1. Check the IP ranges that you wish to migrate.
 2. Once checked, click on the Link button.
 3. Highlight the Space where you want to migrate the selected IP Range(s) then hit OK.
 4. Repeat above steps if you have remaining IP Ranges.

Global Network Options

Template/OID Mapping MIB Files Discovery Attribute Mapping **Migrate IP Ranges**

🔗 Link ✖ Delete IP Range and Related Snmp Info

<input type="checkbox"/>	Name	Start IP	End IP
<input checked="" type="checkbox"/>	Demo	127.0.0.1	127.0.0.1
<input checked="" type="checkbox"/>	Interop SNMP	63.147.175.30	63.147.175.33
<input checked="" type="checkbox"/>	Cormant SLO ServerTech	24.180.11.115	24.180.11.117

Page 1 of 1 Rows 10

Network Discovery in v9.2

Discovering Devices via SNMP or ICMP

- You are now ready to discover via either ICMP or SNMP
- In the main menu, go to *Admin > Discovery Options*
 1. Browse **Discovery Components** in the left pane and highlight the component you wish to discover devices from.
 2. Click **Edit** button.

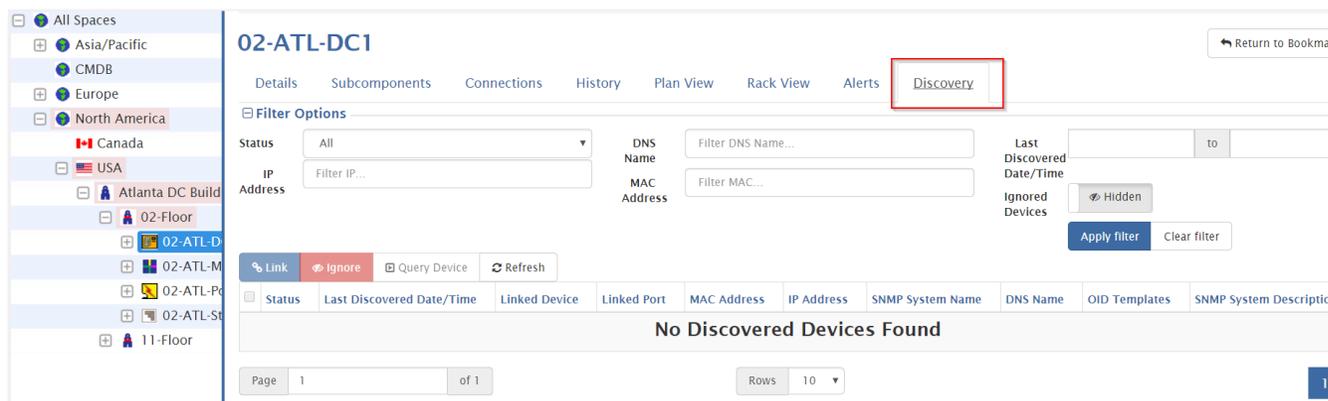


3. Switch both **Allow ICMP queries** and **Allow SNMP queries** to **On**
4. Type in Discovery Interval and the Query timeout.
 - ✓ To automatically discover devices, switch **On Auto Discovery**.
 - ✓ To manually start discovering devices click the **Run** button.

Network Discovery in v9.2

Discovering Devices via SNMP

- To check the status of discovery, click on **Discovery Log** tab. The status can be determined via **Action Type** column which will tell if the process is **START** or **FINISH**.
- When the status is Finish, click the **Space** name on the **Discovery** table to automatically direct you to the component on the asset tree. It will also automatically open the discovery tab to show discovered devices
- Click on the Discovery tab, this is where you will see the discovered devices.



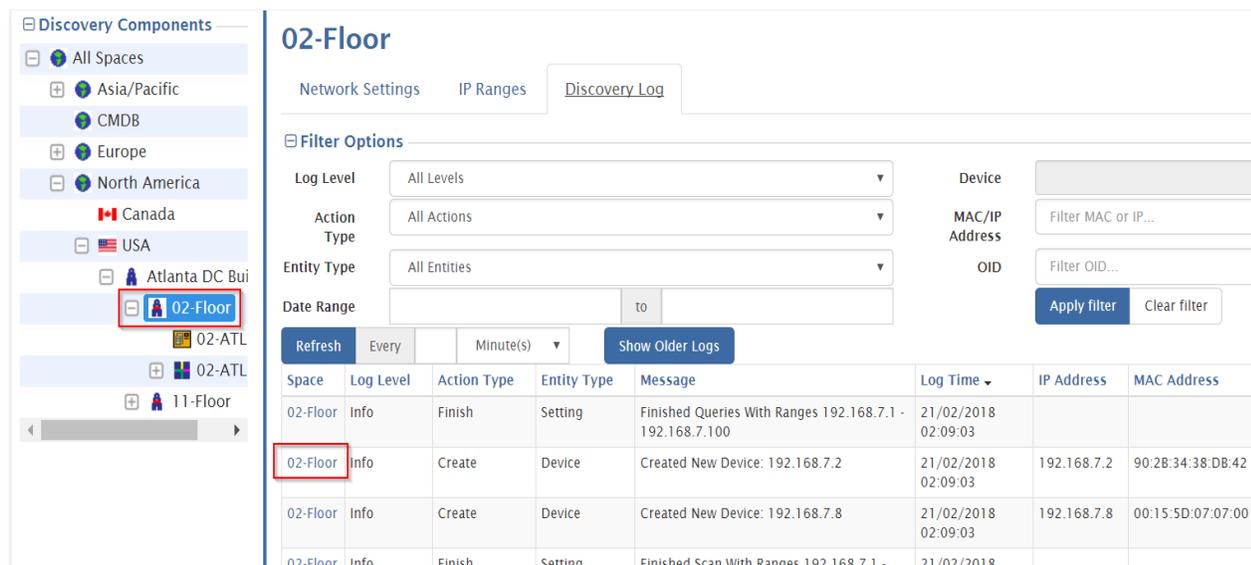
The screenshot displays the 'Discovery Log' for the space '02-ATL-DC1'. The 'Discovery' tab is highlighted in red. The interface includes a left sidebar with a tree view, a top navigation bar with tabs (Details, Subcomponents, Connections, History, Plan View, Rack View, Alerts, Discovery), and a main content area with filter options and a table. The table currently shows 'No Discovered Devices Found'.

Network Discovery in v9.2

Adding Discovered Equipment

➤ To add discovered equipment to CS components, go to **Discovery Log** of the space where you run or configured **Auto Discovery**. In below example is 2nd floor of Atlanta DC Building

1. In the main menu, go to *Admin > Discovery Options* then go to the corresponding space.
2. Under the **Space** column, click on the space link. (**02-Floor** in this example)



02-Floor

Network Settings IP Ranges Discovery Log

Filter Options

Log Level: All Levels
 Action Type: All Actions
 Entity Type: All Entities
 Date Range: [] to []
 Device: []
 MAC/IP Address: Filter MAC or IP...
 OID: Filter OID...
 [Apply filter] [Clear filter]

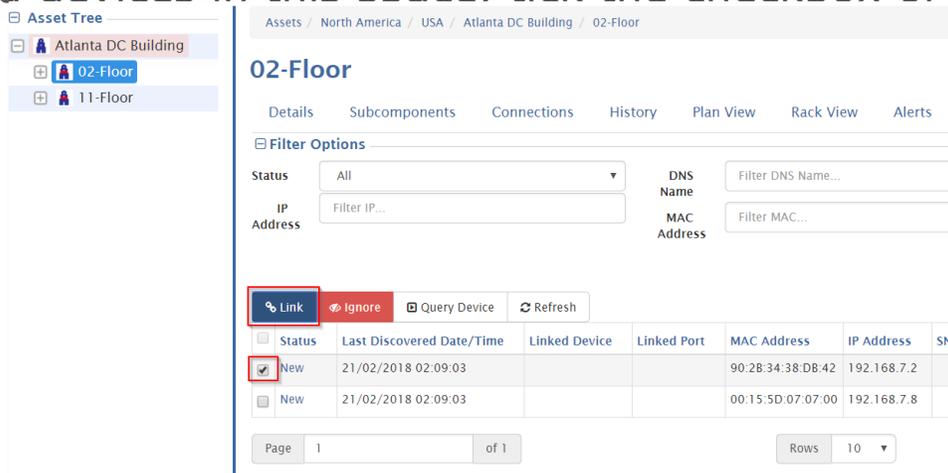
Refresh Every [] Minute(s) [Show Older Logs]

Space	Log Level	Action Type	Entity Type	Message	Log Time	IP Address	MAC Address
02-Floor	Info	Finish	Setting	Finished Queries With Ranges 192.168.7.1 - 192.168.7.100	21/02/2018 02:09:03		
02-Floor	Info	Create	Device	Created New Device: 192.168.7.2	21/02/2018 02:09:03	192.168.7.2	90:28:34:38:DB:42
02-Floor	Info	Create	Device	Created New Device: 192.168.7.8	21/02/2018 02:09:03	192.168.7.8	00:15:5D:07:07:00
02-Floor	Info	Finish	Setting	Finished Scan With Ranges 192.168.7.1 -	21/02/2018		

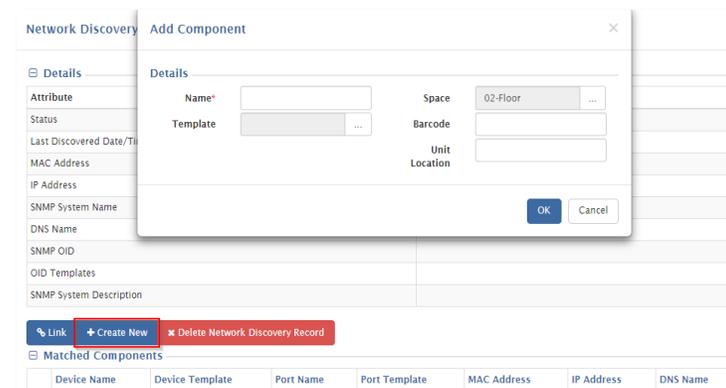
Network Discovery in v9.2

Adding Discovered Equipment continued...

- Here you can see the discovered devices in this space. tick the checkbox of the device you want to add then click on Link button.



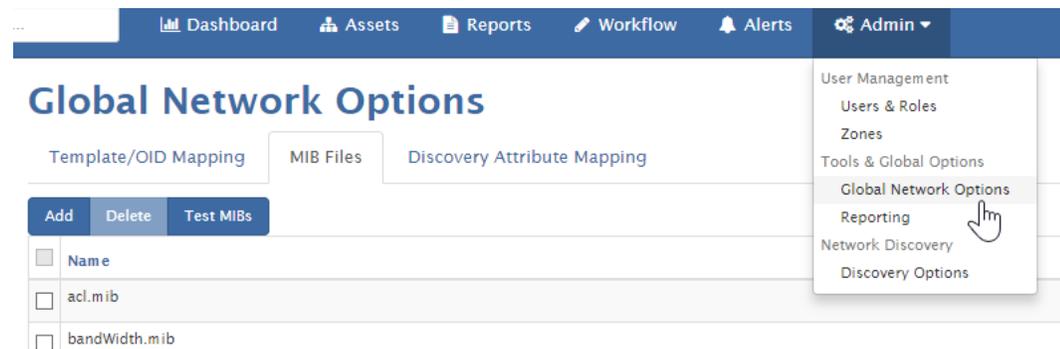
- Another page will pop-up containing the details of discovered equipment. You can also link a component even there is no matched component/port in asset tree. You can either manually link it by selecting a port, or you can create a new component and link it to the port of the created component



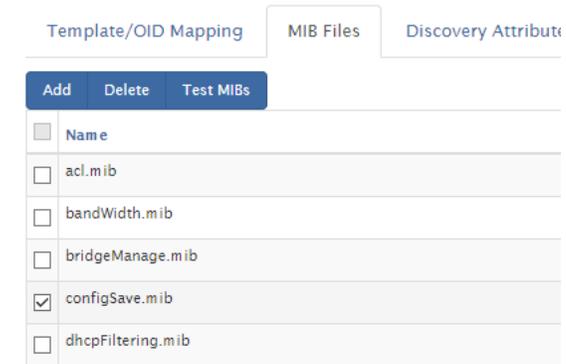
Network Discovery in v9.2

Global Network Settings

- Another feature in ND is the ability to upload MIB files. This is done under Global Network Options from Admin module



Global Network Options



- Click on the **MIB Files** tab and you can either **Add**, **Delete** and even **Test MIB** files before uploading.
- CS performs dependency checks when adding and deleting MIBs as some MIB files have pre-requisite MIBs to properly work

Network Discovery in v9.2

Space-based ND Settings

- You can configure CS' Network Discovery behavior per Space and/or Data Center
 1. Under Admin Module > Network Settings, you can set the following
 2. Enable/Disable SNMP Queries and ICMP
 3. Allow Automatic Discovery – meaning you won't need to execute or click Run discovery. Note that this is taxing to network resource so, once you have discovered all items, it is recommended that this is turned off
 4. And toggle SNMP queries
 5. You can also set the interval of Network Discovery and I suggest minimum of 10minutes. And the Query Time out settings should be set between 1000 ms to 2000ms

Demo DB

Network Settings | IP Ranges | Discovery Log

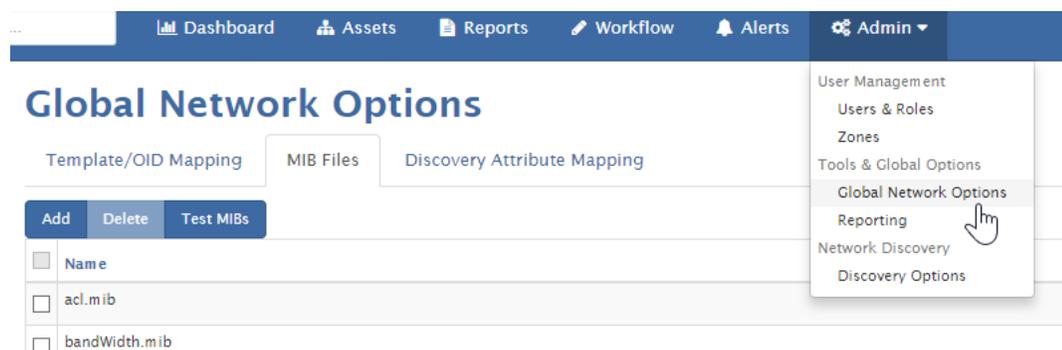
Discovery Options

Allow ICMP queries	<input checked="" type="checkbox"/>	Allow SNMP queries	<input checked="" type="checkbox"/>
Auto Discovery	<input type="checkbox"/>	Auto update linked components	<input type="checkbox"/>
Discovery interval (min)	<input type="text" value="0"/>	Query Timeout (ms)	<input type="text" value="0"/>

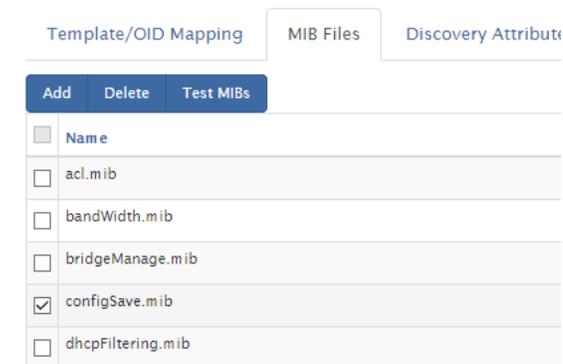
Network Discovery in v9.2

Network Discovery Settings Summary

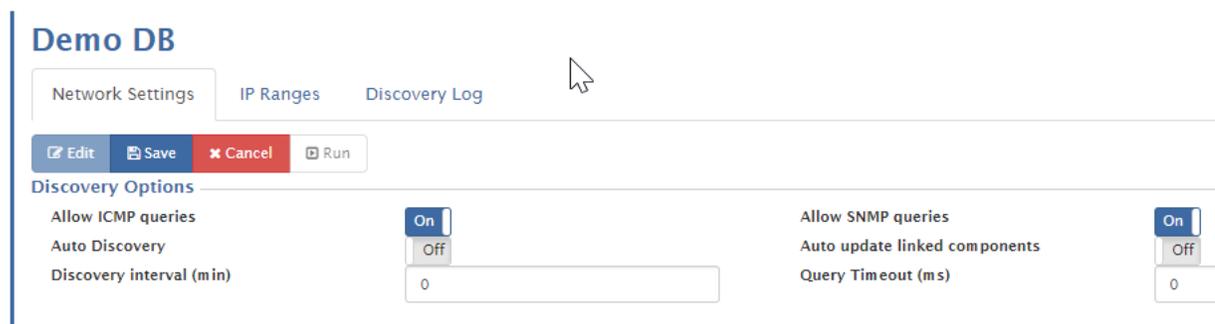
- So just a recap, Global Network Settings is where you manage MIB files and set Discovery Attribute Mapping



Global Network Options



- While local or space based settings are set in Admin Module > Discovery Options. This is where you put the IP Range and enable SNMP Queries

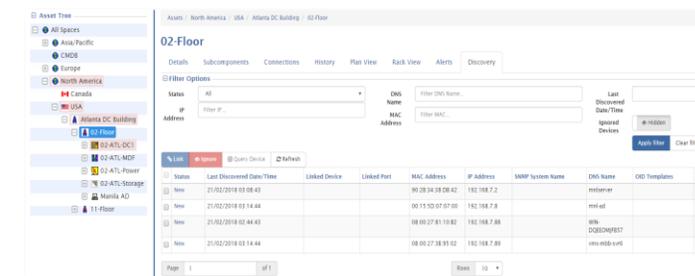


Network Discovery in v9.2

Query Device function

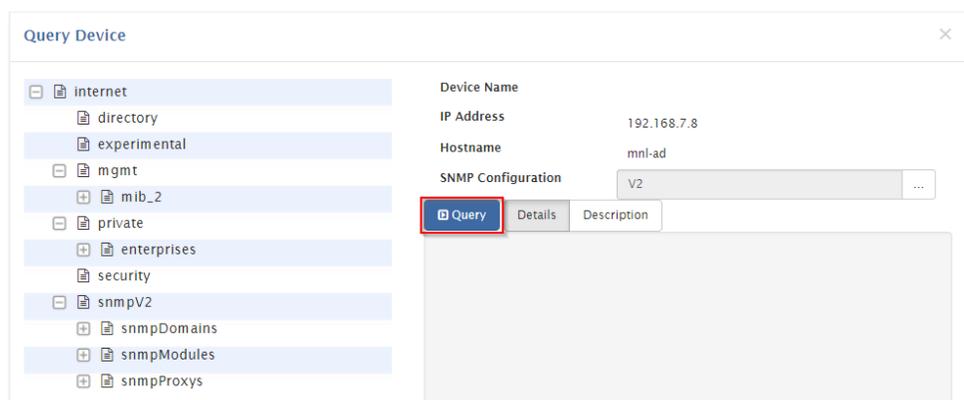
➤ Another feature addition is the ability to SNMP Query a specific device. This allows you to navigate the SNMP MIB structure of an equipment in CS. Below are the simple steps in how to do this

1. Open CS Web, go to the equipment where you want to query a device



2. Tick the check box next to the device then click on **Query Device button**.

3. Select a node in the tree in the left pane then click on **Query** button.



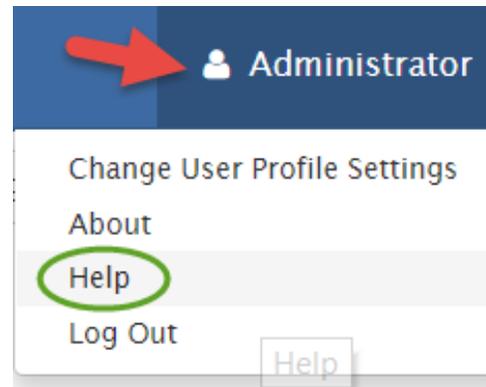
Information & Other Training Resources

- All Release Notes can be found in the release package on the [Cormant website](#), using your secure user login credentials on the the Customer Portal.



Online Help

- Our Help System has migrated to Cormant CS-Web, our web based platform (though also still available on Cormant CS-Client).
- To access the Online Help feature:
 - In the Web, click on your UserName in the Top Right Corner
 - From the dropdown menu, click Help



- You will be welcomed to the Cormant Help Feature in a new tab!

Online Help

➤ Online Help is divided into 5 major sections

- What's New in Cormant CS-9?
- Using the Web
- Using the Handheld
- Using the Desktop
- Installation & Troubleshooting

➤ You may expand any section by clicking on the associated icon

- 📖 Welcome to Cormant-CS
- 📖 What's New in Cormant-CS 9
 - 📄 New and Enhanced Security Feature
 - 📄 Handheld Security Features
 - 📄 CSWeb User Profile page
 - 📄 Custom Exports
 - 📄 Windows Log-in
 - 📄 Zone Component Permissions
- 📖 **Using the Web**
 - 📄 Asset Console
 - 📄 Managing Components
 - 📄 Rack View Overview
 - 📄 Using Floor Plans
 - 📄 Using the Dashboard
 - 📄 Connections Overview
 - 📄 Using Reports
 - 📄 Using the Workflow Module
 - 📄 Manage Profile and Users
 - 📄 Alerts
 - 📄 GUI Reference Tables
- 📖 Using the Handheld
- 📖 Using the Desktop
- 📖 Installation and Troubleshooting

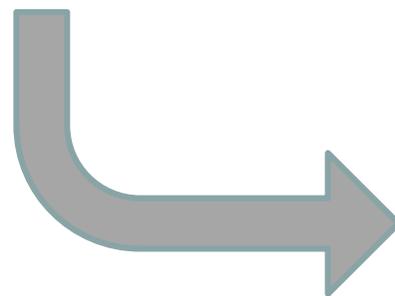
➤ The Search feature in the upper right hand corner will allow for key word searching and quickly finding the information you need.



A search bar interface with a text input field containing the word "Search", a dropdown menu labeled "All Files" with a downward arrow, and a magnifying glass icon to the right.

Stay in Touch

To access the *Private* Cormant-CS user group:
<https://www.linkedin.com/groups/4323060> or
email sales@Cormant.biz to join.



For Additional Help

If you would like additional help with any aspect of Cormant-CS, contact your partner or Cormant directly at support@Cormant.biz

Cormant Customer Support

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 - Italy: +39 02360 48279
 - Netherlands: +31 (0)20 220 9036
 - Poland: +48 (0)2 2206 2153
 - Singapore: +65 3158 2022
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