# cisco.



# Cisco Network Insights Advisor Application for Cisco DCNM User Guide, Release 1.0.x

First Published: 2019-06-07 Last Modified: 2019-12-05

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#### Contents



# New and Changed Information

This chapter contains the following sections:

• New and Changed Information, on page 1

### **New and Changed Information**

The following table provides an overview of the significant changes up to the current release. The table does not provide an exhaustive list of all changes or of the new features up to this release.

Feature	Description	Release
Bug fixes	The feature set is unchanged for this release.	1.0.3
Bug Scan	Enables you to schedule or run an on-demand bug scan on the network.	1.0.2
Cisco Network Insights Advisor Application	This guide was released to provide a description of Cisco Network Insights Advisor application.	1.0.1

Table 1: New Features and Changed Behavior in the Cisco Network Insights Advisor application for Release 1.0.x



## **Cisco Network Insights Installation**

This chapter contains the following sections:

- About Cisco Network Insights Advisor, on page 3
- Downloading Cisco Network Insights Advisor from the Cisco App Center, on page 3
- Installing Cisco Network Insights Advisor in Cisco DCNM, on page 4

### **About Cisco Network Insights Advisor**

Cisco Network Insights Advisor (Cisco NIA) application monitors utilities that can be added to the Cisco Data Center Network Manager (Cisco DCNM).

## Downloading Cisco Network Insights Advisor from the Cisco App Center

This section contains the steps required to download Cisco Network Insights Advisor applications in the Cisco DCNM in preparation for installation.

#### Before you begin

You must have administrative credentials to download Cisco NIA application in Cisco DCNM.

- **Step 1** Log in to the Cisco DCNM GUI with admin privileges.
  - If you don't have admin privileges, you can log in to the Cisco App Center to download the application.
- Step 2 Choose Applications.
- **Step 3** Click **Browse App Center** on the far-right side of the screen.
- **Step 4** Search for Cisco Network Insights Advisor application on the search bar.
- **Step 5** Select the Cisco Network Insights Advisor application you want to download and click **Download** for that app to begin the process of downloading the app to your local machine.
- Step 6 Review the license agreement and, if OK, click Agree and download.

The Cisco Network Insights Advisor application is downloaded to your local machine.

#### What to do next

Make sure the following requirements are met:

- Note the download location of the Cisco Network Insights Advisor file on your local machine.
- Make sure the downloaded file can be accessed by the Cisco DCNM. If it cannot, move the file to a device and/or location where it can be installed on the Cisco DCNM.

### Installing Cisco Network Insights Advisor in Cisco DCNM

This section contains the steps required to install Cisco Network Insights Advisor applications in the Cisco DCNM.

#### Before you begin

Before you begin installing a Cisco NIA application, make sure the following requirements are met:

- **Step 1** You must have administrator credentials to install Cisco Network Insights Advisor applications.
- **Step 2** You must have three compute servers installed and in the "Joined" state. For more information regarding the installation, discovery, and addition of compute servers, refer to the following sections:
  - Compute Installation: For details on compute installation, refer to the Installing a DCNM Compute section.
  - DVS Security Settings: For details on DVS security settings, refer to the Networking Policies for OVA Installation section.
  - Subnet Requirements for OOB and IB pool: For details on subnet requirements for OOB and IB pool, refer to the Subnet Requirements section.
  - Creating a Compute Cluster: For details on creating a compute cluster, refer to the Enabling the Compute Cluster section.
  - Adding Computers in Web UI: For details on adding computers in web UI, refer to the Adding Computers into the Cluster Mode section.

#### What to do next

When the installation is complete, the application opens to a Welcome dialog where initial setup is performed. Continue with the setup of the Cisco NIA application located in the Initial Setup section of the next chapter.



# **Using Cisco Network Insights Advisor**

This chapter contains the following sections:

- About Cisco Network Insights Advisor, on page 5
- Guidelines and Limitations, on page 6
- Cisco NIA Initial Setup, on page 6
- Setting Up the Device Connector, on page 7
- Cisco NIA Settings, on page 11
- Navigating Cisco NIA, on page 12
- Using the Cisco NIA Application, on page 15

### **About Cisco Network Insights Advisor**



The Cisco Network Insights Advisor (Cisco NIA) application monitors a data center network and pinpoints issues that can be addressed to maintain availability and reduce surprise outages. Cisco NIA's understanding of your network allows it to provide proactive advice with a focus on maintaining availability and alerting customers about potential issues that can impact up-time.

Cisco NIA app consists of the following components:

- Advisories
  - · Software Upgrades
  - Cisco Recommendations
- Notices
  - EoL/EoS Dates
  - Field Notices
- Issues

- Bug/PSIRT Reports
- TAC Assist
  - Log Collection
- Job Configuration
  - Schedule Driven (Compliance, Bug scan)
  - On Demand



Note In this chapter, a "network" refers to a fabric in a LAN fabric and a switch group in a Classic LAN.

### **Guidelines and Limitations**

The following are the guidelines and limitations for the Cisco Network Insights Advisor (Cisco NIA) application in the Cisco DCNM:

- IPv6 is not supported for Cisco NIA application in the Cisco DCNM.
- The Cisco NIA application requires that physical servers hosting Cisco DCNM computes as VMs are atleast Cisco C220-M4 category. It is also required that a compute be hosted on a data store with a dedicated hard disk of atleast 500GB.
- Cisco NIA app retains the collected logs using TAC Assist for 24 hours.
- Cisco NIA app retains the collected technical support information using bag scan for 24 hours.

### **Cisco NIA Initial Setup**

This section contains the steps required to set up Cisco NIA app in the Cisco DCNM. This set up is required for Cisco NIA app to show important information and gather relevant data.

#### Before you begin

- You have installed and launched the Cisco NIA application.
- Fabrics on your network must have between 1 and 250 switches. Fabrics with no switches will not appear in the list. If you select a fabric with more than 250 switches, initial setup will not complete and you will be prompted to select fabric(s) with 250 or lower number of devices.
- Step 1Once Cisco NIA app is installed and after your first log in, a welcome dialog appears. Click Begin Setup.

A Setup dialog appears.

Step 2 In Data Collection Setup, click Configure.

The **Data Collection Setup** dialog appears. In the **Fabrics** list are fabrics that were discovered during the Cisco NIA application installation.

- **Step 3** Check only the fabrics you want visible to the Cisco NIA application.
- Step 4 Click Ok.

The Setup dialog appears with the selected fabrics appearing in Data Collection Setup. You can edit the selected fabric(s)

by clicking **Edit configuration**. You can return to the setup utility anytime by clicking the settings icon and choose **Rerun Setup**.

Once a fabric or fabrics are defined, Cisco NIA app requires some internal configuration time before becoming operational.

### Setting Up the Device Connector

This section describes setting up the device connector for Cisco NIA app on Cisco DCNM.

### About Device Connector

Devices are connected to the Intersight portal through a Device Connector that is embedded in the management controller of each system. Device Connector provides a secure way for the connected devices to send information and receive control instructions from the Cisco Intersight portal, using a secure Internet connection.

When an Intersight-enabled device or application starts, the Device Connector starts at boot by default, and attempts to connect to the cloud service. If the **Auto Update** option is enabled, the Device Connector is automatically updated to the latest version through a refresh by the Intersight service when you connect to Intersight. For more information on the **Auto Update** option, see Configuring the Intersight Device Connector, on page 7.

### **Configuring the Intersight Device Connector**

Cisco NIA application is connected to the Cisco Intersight cloud portal through a Device Connector which is embedded in the management controller of the Cisco DCNM platform. Cisco Intersight is a virtual appliance that helps manage and monitor devices through the Cisco NIA app. The Device Connector provides a secure way for connected Cisco DCNM to send and receive information from the Cisco Intersight portal, using a secure Internet connection.

To setup the Device Connector, follow these steps:

- **Step 1** On the Cisco DCNM navigation pane, click Administration.
- **Step 2** Under the Cisco DCNM Server list, click Device Connector.

The Device Connector work pane appears:

The Device Connector is an embedded mana device connector, please visit Help Center	agement controller that enables the capabilities of Cis	co Intersight, a cloud-based ma	nagement platform. For detailed information about configuring the
Device Connector			🛞 Settings   💭 Refresh
	ACCESS MODE ALLOW CONTROL		Device ID
			d3552d35-3603-44c1-9ba4-0cb9ec5f3455 🖹
<u> </u>	@	🛆	Claimed to Account nia-prod-test O
Device Connector	Internet	Intersight	Unclaim
Claimed			
1.0.9-5			

**Step 3** At the far right of the screen, click **Settings**.

The **Settings - General** dialog appears:

Settings		×
General		
Proxy Configuration Certificate Manager	When this option is ON, you can claim this system and leverage the capabilities of Cisco Intersight. If it is OFF, no communication will be allowed to Cisco Intersight. Learn More     Device Connector      Access Mode     Read-only     Allow Control      Cancel Save	
1.0.9-5		

#### **Device Connector** (switch)

This is the main switch for the Device Connector communication with Cisco Intersight. When the switch is on (green highlight), the system is claimed and the capabilities of the Cisco Intersight can be leveraged. If the switch is off (gray highlight), no communication can occur between the platform and Cisco intersight.

#### Access Mode

**Read-only**: This option ensures that no changes are made to this device from Intersight. For example, actions such as upgrading firmware or a profile deployment will not be allowed in the Read-Only mode. However, the actions depend on the features available for a particular system.

Allow Control: This option (selected by default) enables you to perform full read/write operations from the appliance, based on the features available in Cisco Intersight. This function is not used for changes from Cisco Cloud to customer network.

**Step 4** Set the Device Connector to on (green highlight) and choose Allow Control.

#### Step 5 Click Proxy Configuration.

#### Settings × General **Proxy Configuration** Configure proxy settings Certificate Manage Enable Proxy Proxy Hostname/IP \* Proxy Port \* proxy-wsa.esl.cisco.com 0 80 0 Authentication Cancel Sav 307464 1.0.9-5

The Settings - Proxy Configuration dialog appears.

#### Enable Proxy (switch)

Enable HTTPS Proxy to configure the proxy settings.

Proxy Hostname/IP\* and Proxy Port\*: Enter a proxy hostname or IP address, and a proxy port number.

#### Authentication (switch)

Enable proxy access through authentication. When the switch is on (green highlight), authentication to the proxy server is required. If the switch is off (gray highlight), no authentication is required.

Username\* and Password: Enter a user name and password for authentication.

**Note** Proxy settings are required for Network Insights.

- **Step 6** Enable the proxy (green highlight) and enter a hostname and port number.
- **Step 7** Optional: If proxy authentication is required, enable it (green highlight) and enter a username and password.
- Step 8 Click Save.

### **Claiming a Device**

#### Before you begin

Configure the Intersight Device Connector information from the Cisco APIC site using the instructions provided in Configuring the Intersight Device Connector, on page 7.

**Step 1** Log into the Cisco Intersight cloud site:

#### https://www.intersight.com

**Step 2** In the Cisco Intersight cloud site, under the **Devices** tab, click **Claim a New Device**.

= "dealer Intersight	Devices	٥	B	4   ⊙   0	)	۹.
Devices					Claim a New I	Device
	() Q seven			20 v perpage (		©
	Hume : Status : Type : Device IP : Cerice ID :	Claimed By		metor Version :	Access Mode	:

The **Claim a New Device** page appears.

To claim your device,	you must have the Device ID and Claim Code.	
Device ID *		
Claim Code *		

- **Step 3** Go back to the Cisco APIC site and navigate back to the **Intersight Device Connector** page.
  - a) On the menu bar, choose System > System Settings.
  - b) In the Navigation pane, click Intersight.
- **Step 4** Copy the **Device ID** and **Claim Code** from the Cisco APIC site and paste them into the proper fields in the **Claim a New Device** page in the Intersight cloud site.

Click on the clipboard next to the fields in the Cisco APIC site to copy the field information into the clipboard.

**Step 5** In the **Claim a New Device** page in the Intersight cloud site, click **Claim**.

You should see the message "Your device has been successfully claimed" in the **Claim a New Device** page. Also, in the main page, you should see your Cisco APIC system, with Connected shown in the Status column.

**Step 6** Go back to the **Intersight - Device Connector** page in the Cisco APIC GUI and verify that the system was claimed successfully.

You should see green dotted lines connecting **Internet** to **Intersight** in the **Device Connector** graphic, and the text **Claimed** underneath the graphic.

		01
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 Hep Device Connector           Operation         Statings         Refresh	Cisco Application Services Engine	0 0
ACCESS MODE ALLOW CONTROL		tailed information about configuring the device connector, please visit Help
Device ID	Device Connector	⊙ Settings   ◯ Refresh
Device Connector Internet Internet Claimed to Account nis-staging O Unclaim	<u> </u>	WZP22140ZLP&WZP22470ZM2&WZP22470ZLR
Claimed		

**Note** You may have to click **Refresh** in the **Intersight - Device Connector** page to update the information in the page to the current state.

If you decide to unclaim this device for some reason, locate the **Unclaim** link in the **Intersight - Device Connector** page and click that link.

### **Cisco NIA Settings**

#### Settings

Displayed across the top of the work pane is a group of icons and a list menu comprising the Cisco NIA app settings. The following table describes each:

Property	Description
Fabric	Choose a fabric containing the devices you want visible to the Cisco NIA application.
	<b>Device Connector Status</b> : Identifies the current connection status of the Cisco NIA application to the Cisco Intersight cloud and the device connector claim condition. Possible connection statuses are:
	• Not Connected: The Cisco NIA application is not connected to the Cisco Intersight cloud.
	• <b>Connected / Not Claimed</b> : The Cisco NIA application is connected to the Cisco Intersight cloud but the device connector has not been claimed by the customer.
	• <b>Connected / Claimed</b> : The Cisco NIA application is connected to the Cisco Intersight cloud and the device connector has been claimed by the customer.
	For more information, see Configuring the Intersight Device Connector, on page 7.

Property	Description				
	<b>Inbox</b> : View messages from Cisco regarding software upgrades or other relevant information about devices on your network.				
	Note This is a preview feature.				
*	Clicking on this icon invokes a list menu allowing you to make changes to the following:				
	<ul> <li>Configuration—Displays currently running jobs and allows for the configurate of the bug scanner and compliance check.</li> <li>Job List—Displays list of running and completed jobs. Includes a time range set to display running/completed jobs during a specific time period.</li> </ul>				
	• About Network Insights—Displays an information dialog identifying the version number of the Cisco NIA application. Click Update to Latest to fetch the latest published version. This requires that the using of the Cisco Intersight Device Connecter is connected and claimed. See Configuring the Intersight Device Connector, on page 7 for details.				
	• <b>Rerun Setup</b> —Allows you to edit the Data Collection Setup by adding or removing fabrics.				

#### **Bug Scan**

**Bug Scan**: User can schedule or run an on-demand bug scan on their network. The Cisco NIA app collects technical support information from all the devices and runs them against known set of signatures and flags the corresponding defects. The Cisco NIA app also generates an advisory for the customer. For further details, see Advisories from Using the Cisco NIA Application, on page 15.

#### **Compliance Check**

The Cisco NIA app scans customer configurations periodically and checks it against Cisco NX-OS Hardening Guide. Such configurations are flagged as anomalies that customers can fix. Once fixed these anomalies are removed from the system.

### **Navigating Cisco NIA**

The Cisco NIA application window is divided into two parts: the Navigation pane and the Work pane.

#### **Navigation Pane**

The Cisco NIA app navigation pane divides the collected data into six categories:

≡	Network Insights	s - Advisor		
	Dashboard	=		
9	Advisories		2	
÷	Notices		3	
	Issues	~ =	(4)	
	Devices		(5)	
	TAC Assist		6	307407

**1** Dashboard: The main dashboard for the Cisco NIA application providing immediate access to total advisories, issues, notices, and collected TAC assist logs.

**2** Advisories: Displays hardware, software, and hardening check advisories applicable to your network.

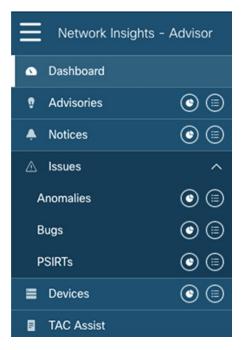
**3** Notices: Displays notices applicable to the hardware and software in your network.

4 Issues: Displays anomalies, bugs, and Product Security Incident Response Team (PSIRT) alerts.

5 Devices: Sorts devices by issue, platform/version, or maintenance score.

6 TAC Assist: Collects logs for specified devices that can be attached to service requests.

Additional functions are :

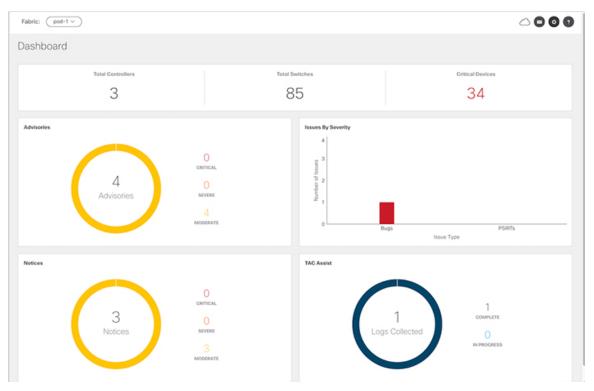


1 Dashboard View icon: Provides immediate access to top usage or issues for the selected information type.2 Browse View icon: Provides a detailed view of the information and access to more granular detail.

#### Work Pane

The work pane is the main viewing location in the Cisco NIA application. All information tiles, graphs, charts, and lists appear in the work pane.

**Dashboard Work Pane** 



In an information tile, you can usually click on a numeric value to switch to the Browse work pane:

Fabric: pod-1	$\square$			
Advisories				
Filter				0
Advisories				
		4 Advisories	O GRITICAL O SEVURE 4 MODERATE	
Severity	Last Updated Time	Туре	Title	Devices Affected
O Moderate	Aug 06, 2019 10:19 pm	H/W	HWEOL for [N9K-C9396PX]	20
Moderate	Aug 06, 2019 10:18 pm	H/W	HWEOL for [N9K-C9332PQ]	12
🙆 Moderate	Aug 07, 2019 07:21 am	TAC	CALLTAC	2
O Moderate	Aug 06, 2019 10:18 pm	H/W	HWEOL for [N9K-C9504]	2
Page 1	of 1	Objects Per	Page 10 rows \$	Displaying Objects 1 - 4 of 4

1 Launches the Browse work pane with all of the items displayed from the graph in the information tile.

**2** Launches the Browse work pane with only the selected items displayed from the number in the information tile.

#### **Browse Work Pane**

The Browse work pane isolates the data for the parameter chosen on the Dashboard. The Browse work pane displays a top node lists, graphs over time, and lists all the nodes in an order defined by the anomaly score:

Severity	Last Updated Time	Type	Title	Devices Affected
🙆 Moderate	Jun 04, 2019 07:30 am	TAC	CALLTAC	241
Moderate	Jun 03, 2019 12:16 pm	H/W	HWEOL for [N9K-C9372TX, N9K- C9372PX]	49
🙆 Moderate	Jun 03, 2019 12:15 pm	H/W	HWEOL for [N9K-C92304QC]	7
Moderate	Jun 03, 2019 12:15 pm	H/W	HWEOL for [N9K-C9332PQ]	6
Moderate	Jun 03, 2019 12:15 pm	H/W	HWEOL for [N9K-C9372TX-E]	3

Clicking on one of the nodes in the list opens the Details work pane for that selection.

#### **Details Work Pane**

The Details work pane provides resource details about the item selected in the event list on the Browse work pane. The Details work pane consists of:

- General Information: Includes information about the selected object. This varies based on which browse window the details work pane was initiated.
- Notices: Includes notices affecting devices in your network.
- Devices Affected: Displays the number of affected devices in your network.

### Using the Cisco NIA Application

Each Cisco device known to the Cisco NIA application is analyzed to help be more proactive about issues and anomalies in the network. Use the dashboard in the Cisco NIA application to view relevant information and select specific items to view details.

#### **Main Dashboard**

The Cisco NIA application main dashboard provides immediate access to a high-level view of the advisories, notices, issues and TAC Assist logs applicable to your network.

Property	Description
Total Controllers	Displays the total number of controllers in your network.
Total Switches	Displays the total number of switches in your network.

Property	Description
[ Critical   Moderate   Healthy ] Devices	Displays the total number of devices determined to be in one of the following categories:
	Critical Devices
	Moderate Devices
	Healthy Devices
	Device counts in the higher category (Critical is highest) appear in the displayed count. If no devices are currently in the Critical category, then the device count of the Moderate category is displayed. If no issues are detected in any device, then the device count of the Healthy category is displayed.
Advisories	Displays the total number of advisories delivered for software and hardware in your network.
Issues By Severity	Displays the total number of issues (anomalies, bugs, and PSIRTs) delivered for software and hardware in your network.
Notices	Displays the total number of notices delivered for devices in your network.
TAC Assist	Displays the total number of TAC assist logs currently being collected or finished being collected.

#### **Advisories**

#### **Advisories Dashboard**

The Advisories dashboard displays three levels of advisory severity for switch hardware and software in your network. It categorizes by severity and identifies software versions and hardware platforms to which the advisories apply.

Advisories are delivered based on the detection of relevant field notices, PSIRTs, bugs, software, hardware, and hardening violations. NIA considers this information and recommends:

- · Software or hardware upgrades to address bugs, PSIRTs, and field notices
- Contacting the Technical Assistance Center (TAC)
- Measuring a software upgrade impact (disruptive/non-disruptive)
- Compliance configurations

Property	Description
Critical Advisories	Displays the number of critical advisories that are applicable to devices in your network.
Severe Advisories	Displays the number of severe advisories that are applicable to devices in your network.

Property	Description
Moderate Advisories	Displays the number of moderate advisories that are applicable to devices in your network.
Advisory Type by Devices	Displays the advisory types and the number of affected devices in your network for each.
Advisories Affecting (Version, Platforms)	Displays the number of advisories affecting software versions or hardware platforms.

#### **Browse Advisories**

View, sort, and filter advisories through the Browse Advisories work pane.

#### Filters

You can refine the displayed advisory information by using the following filters:

- Operators display advisories using an operator. Valid operators are:
  - = = display advisories with an exact match.
- Severity display advisories only for a specific severity. Valid severities are:
  - Critical Returns matches for critical advisories.
  - Severe Returns matches for severe advisories.
  - Moderate Returns matches for moderate advisories.
- Type display advisories only for a specific type. Valid types are:
  - S/W Ver. Returns matches for advisories for a specific software version. This filter must be followed by a valid software version.
  - Field Notice Returns matches for advisories for a specific field notice.
  - H/W Returns matches for advisories for a specific hardware version. This filter must be followed by a valid hardware version.
  - Compliance Returns matches for advisories for compliance notices.
  - TAC Returns matches for advisories for TAC notices.

Property	Description
Advisories Chart	Displays the advisory chart for all advisories or only for the filtered severity or type.

Property	Description
Advisories List	Displays a list of all advisories or only for the filtered severity or type. Column labels are:
	• Severity
	Last Updated Time
	• Type
	• Title: Click the link in the <b>Title</b> column to view details about the advisory.
	Note CALLTAC: The Call TAC advisory encompasses all the issues not addressed by the current advisories in the system. The user can contact Cisco Technical Assistance Center (TAC) to get these issues resolved with the help of a TAC expert. A user can also choose to collect the logs for the bug scan job for which this advisory was issued to help TAC, or trigger a fresh TAC Assist job for other types of call TAC advisories to collect logs for TAC experts to review.
	Devices Affected

#### Software Upgrade Impact

When attempting to upgrade to a recommended software version, Cisco NIA app helps to determine the potential impact of the upgrade to the device for which the upgrade was suggested. The upgrade impact checks for NX-OS version and configuration compatibility. BIOS compatibility is currently not checked. The returned result indicates if the upgrade will be disruptive or non-disruptive.

Note The feature scp-server command should be enabled on the devices for the upgrade impact check to function.

Software upgrade recommendations typically appear in the Advisories list after a bug scan is completed. To initiate an upgrade impact, follow these steps:

1. In the navigation pane, click the browse view icon next to the Advisories option.

2. In the advisories list table, locate the software upgrade recommendation identified by the S/W Ver. in the **Type** column.

3. Click the software version in the Title column and then click Run Upgrade Impact.

The Advisories Detail dialog appears.

4. Click Upgrade Impact and then click Run Upgrade Impact on the Confirm Action dialog.

A note appears in the **Advisory Details** dialog stating that the "Upgrade Impact is currently running". In the **Upgrade Impact Results** table, the devices that could be impacted by the upgrade are listed and the **Result** column indicates that the impact process is "PENDING". Once the upgrade impact begins, the **Result** column changes to "RUNNING".

Once complete, the upgrade impact result can be one of the following:

- NON-DISRUPTIVE: Devices can likely be upgraded to the new suggested software version without disrupting the network.
- **DISRUPTIVE**: Devices can be upgraded to the new suggested software version but with disruption, described by the reason on the result dialog.
- FAIL: A technical error occurred, described by the reason on the result dialog.

The information provided by the upgrade impact utility helps in making the determination to upgrade or not.

#### Notices

#### Notices Dashboard

The Notices dashboard displays field notices such as end-of-life notices for specific switch hardware and software in your network. It categorizes notices by severity and identifies software versions and hardware platforms to which the notices apply.

Property	Description
Critical Notices	Displays the number of critical notices that are applicable to devices in your network.
Severe Notices	Displays the number of severe notices that are applicable to devices in your network.
Moderate Notices	Displays the number of moderate notices that are applicable to devices in your network.
Notices Chart (by notice type)	Displays the notice types and the number of affected devices in your network for each.
Notices Affecting (Versions, Platforms)	Displays the number of notices affecting software versions or hardware platforms.

#### **Browse Notices**

View, sort, and filter notices through the Browse Notices work pane.

#### Filters

You can refine the displayed notice information by using the following filters:

- Operators display notices using an operator. Valid operators are:
  - = = display notices with an exact match.
- Severity display notices only for a specific severity. Valid severity's are:
  - Critical Returns matches for critical notices.
  - Severe Returns matches for severe notices.
  - Moderate Returns matches for moderate notices.
- Type display notices only for a specific type. Valid types are:

- S/W Ver. Returns matches for notices for a specific software version. This filter must be followed by a valid software version.
- Field Notice Returns matches for notices for a specific field notice.
- PSIRT Returns matches for notices for a specific PSIRT.
- EOL H/W Returns matches for notices for a specific hardware end-of-life.
- EOL S/W Returns matches for notices for a specific software end-of-life.

Property	Description
Notices Chart	Displays the notice chart for all noitces or only for the filtered severity or type.
Notices List	Displays a list of all notices or only for the filtered severity or type. Click the link in the <b>Title</b> column to view details about the notice.

#### Issues

Issues is divided into these components:

- Anomalies Compliance check violations
- · Bugs Known bugs that are automated and have show tech with matching signatures
- PSIRTs Product Security Incident Response Team notices

#### **Anomalies Dashboard**

The Anomalies dashboard displays three levels of anomaly severity for switch hardware and software in your network. It categorizes by severity and identifies software versions and hardware platforms to which the anomalies apply.

Property	Description
Critical Anomalies	Displays the number of critical anomalies that are applicable to devices in your network.
Severe Anomalies	Displays the number of severe anomalies that are applicable to devices in your network.
Moderate Anomalies	Displays the number of moderate anomalies that are applicable to devices in your network.
Anomaly Severity by Devices (chart)	Displays the anomaly types and the number of affected devices in your network for each.
Anomalies Affecting (Versions, Platforms)	Displays the number of anomalies affecting software versions or hardware platforms.

#### **Browse Anomalies**

View, sort, and filter anomalies through the Browse Anomalies work pane.

#### Filters

You can refine the displayed anomaly information by using the following filters:

- Operators display anomalies using an operator. Valid operators are:
  - = = display anomalies with an exact match.
- Severity display anomalies only for a specific severity. Valid severities are:
  - · Critical Returns matches for critical anomalies.
  - Severe Returns matches for severe anomalies.
  - Moderate Returns matches for moderate anomalies.
- Type display anomalies only for a specific type. Valid types are:
  - · Compliance Returns matches for anomalies for a specific compliance mandate or requirement.

Property	Description
Anomalies Chart	Displays the anomaly chart for all anomalies or only for the filtered severity or type.
Anomalies List	Displays a list of all anomalies or only for the filtered severity or type.

#### **Bugs Dashboard**

The Bugs dashboard displays three levels of known bug severity for switch hardware and software in your network. It categorizes by severity and identifies software versions and hardware platforms to which the bugs apply.

Property	Description
Critical Bugs	Displays the number of critical bugs that are applicable to devices in your network.
Severe Bugs	Displays the number of severe bugs that are applicable to devices in your network.
Moderate Bugs	Displays the number of moderate bugs that are applicable to devices in your network.
Bug Severity by Devices (chart)	Displays the bug types and the number of affected devices in your network for each.
Bugs Affecting (Versions, Platforms)	Displays the number of bugs affecting software versions or hardware platforms.

#### **Browse Bugs**

View, sort, and filter bugs through the Browse Bugs work pane.

#### Filters

You can refine the displayed bug information by using the following filters:

• Operators - display bugs using an operator. Valid operators are:

- $\bullet = = -$  display bugs with an exact match.
- Severity display bugs only for a specific severity. Valid severity's are:
  - Critical Returns matches for critical bugs.
  - Severe Returns matches for severe bugs.
  - Moderate Returns matches for moderate bugs.

Property	Description
Bugs Chart	Displays the bug chart for all bugs or only for the filtered severity.
Bugs List	Displays a list of all bugs or only for the filtered severity.

#### **PSIRTs Dashboard**

The PSIRTs dashboard displays three levels of known PSIRT severity for switch hardware and software in your network. It categorizes by severity and identifies software versions and hardware platforms to which the PSIRTs apply.

Property	Description	
Critical PSIRTs	Displays the number of critical PSIRTs that are applicable to devices in your network.	
Severe PSIRTs	Displays the number of severe PSIRTs that are applicable to devices in your network.	
Moderate PSIRTs	Displays the number of moderate PSIRTs that are applicable to devices in your network.	
<b>PSIRT</b> Severity by Devices (chart)	Displays the PSIRT types and the number of affected devices in your network for each.	
<b>PSIRTs Affecting (Versions,</b> Platforms)	, Displays the number of PSIRTs affecting software versions or hardware platforms.	

#### **Browse PSIRTs**

View, sort, and filter PSIRTs through the Browse PSIRTs work pane.

#### Filters

You can refine the displayed PSIRT information by using the following filters:

- Operators display PSIRTs using an operator. Valid operators are:
  - $\bullet = = -$  display PSIRTs with an exact match.
- Severity display PSIRTs only for a specific severity. Valid severity's are:
  - Critical Returns matches for critical PSIRTs.
  - Severe Returns matches for severe PSIRTs.
  - Moderate Returns matches for moderate PSIRTs.

Property	Description	
PSIRTs Chart	Displays the PSIRT chart for all PSIRTs or only for the filtered severity.	
PSIRTs List	Displays a list of all PSIRTs or only for the filtered severity.	

#### Devices

#### **Devices Dashboard**

The Devices dashboard displays issues affecting devices in your network. It also identifies devices by software versions and hardware platforms.

Property	Description	
Device Issues	Displays the number of devices that have reached <b>End of Maintenance</b> date for hardware and software. This also shows the number of devices currently running a version of software that is different from the Cisco Recommended Version. Click <b>Recommended Version Info</b> for more details.	
Device by (chart)	Displays the different versions of software and types of hardware detected	
Top Devices by Maintenance Score	Displays the top six devices in critical order based on the maintenance score. The maintenance score is derived from notices and issues seen for each device according to criteria in the table below. Click on any device in this category to reveal additional details.	

#### **Maintenance Score**

The following table identifies the criteria used to calculate the maintenance score displayed in the Devices dashboard and Browse Devices table.

Issue	Critical (Red)	Severe/Moderate/Low (Amber)	<b>None (Green)</b>
End of Maintenance Support	Less than 365 days to the end of support date	Between 365 days and 730 days to the end of support date	Greater than 730 days to the end of support date
Bugs	Any severity 1 and/or severity 2 bugs	Other than severity 1 or severity 2 bugs	No (0) bugs
Field Notices	Any applicable field notice	N/A	No applicable field notices
Compliance Failure	More than 2 compliance failures	One to two compliance failures	No (0) compliance failures
PSIRTs	Any severity 1 and/or severity 2 PSIRTs	Other than severity 1 or severity 2 PSIRTs	No (0) PSIRTs

New Device: This indicates that the device is new and no jobs have run for it.

#### **Browse Devices**

View, sort, and filter devices through the Browse Devices work pane.

#### Filters

You can refine the displayed device information by using the following filters:

- Operators display devices using an operator. Valid operators are:
  - $\bullet = = -$  display devices with an exact match.
  - contains display device names or platform identifiers containing entered text or symbols. This
    operator must be followed by text and/or symbols.
  - != display devices that are not equal to the entered text or symbols. This operator must be followed by text and/or symbols.
- Platform display devices that are a specific type defined by the platform ID.
- Device Name display devices that are specifically named.
- Version displays devices based on the software version running on them.

Property	Description
Devices Chart	Displays the Devices chart for all devices or only for the filtered device name or platform product ID.
Devices List	Displays a list of all devices or only for the filtered device name or platform product ID.
	Click a name in the <b>Device Name</b> field to display the details for that device.

#### **TAC Assist**

#### **TAC Assist Dashboard**

The TAC Assist dashboard allows you to collect logs for devices in your network. These logs can be attached to Service Requests (SRs) for further analysis.

- 1. Click **Begin** to initiate the log collection process. The **Collect Logs** dialog box appears.
- 2. To display specific devices in the list, use the filter utility:
  - Operators display devices using an operator. Valid operators are:
    - == display devices with an exact match. This operator must be followed by text and/or symbols that are the exact software version, product ID, device name, or assigned IP address of the device.
    - contains display device names or platform identifiers containing entered text or symbols. This
      operator must be followed by text and/or symbols.
  - Version display devices that are running a specific software version.
  - Platform display devices that are a specific type defined by the platform ID.

- Device Name display devices that are specifically named.
- IP Address display devices that are assigned a specific IP address.
- **3.** Place a check in the checkbox next to the device for which you wan to collect logs. If you want to choose all of the devices in the list, place a check in the checkbox next to the **Device Name** column title.
- 4. Click Collect Logs.

A TAC Assist job message appears on the TAC Assist dashboard. Once the logs are collected, Cisco NIA app displays the location where they can be accessed on the Cisco DCNM Server.



## **Upgrade Cisco Network Insights Advisor**

This chapter contains the following sections:

- Upgrade Paths for Cisco NIA Application on Cisco DCNM, on page 27
- Upgrading Cisco Network Insights Advisor on Cisco DCNM, on page 27

### **Upgrade Paths for Cisco NIA Application on Cisco DCNM**

The following table lists the supported upgrade paths for Cisco NIA application on Cisco DCNM.

Table 2: Supported Upgrade Paths for Cisco Network Insights Advisor Application on Cisco DCNM

From	То
Cisco Network Insights Advisor Application 1.0.2	Cisco Network Insights Advisor Application 1.0.3
Cisco Network Insights Advisor Application 1.0.1	Cisco Network Insights Advisor Application 1.0.3

### **Upgrading Cisco Network Insights Advisor on Cisco DCNM**

Upgrading Cisco Network Insights Advisor on Cisco DCNM is not supported. To upgrade to the latest version of the Cisco Network Insights Advisor app, you must delete the existing version of the app and install the latest version.