



View Device Details

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For information on inventory collection, see [Find Devices With Inventory Collection Problems](#).

You can also generate the following reports to get device information:

- Detailed Hardware and Detailed Software Report
- Device Health, CPU Utilization, Memory Utilization

For information on how to generate these reports, see [Reports Available in Cisco EPN Manager](#).

Find Devices

The quickest way to find a device is to use the quick search text boxes displayed at the top of the Network Devices table (**Inventory > Device Management > Network Devices**). You can enter partial strings for a device name, IP address, or software version, or choose from the values for reachability, admin status, and Inventory Collection. Devices are also organized into device groups, which you can view by choosing **Inventory > Device Management > Network Devices** and selecting a device type from the Device Group list on the left.

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Get A Quick Look at a Device: Device 360 View

The *Device 360 view* is a popup window that provides a quick look at how a device is configured and its general status. It includes device alarms, modules, interfaces, neighbors, chassis. Depending on the device type and configuration, it can also include these tabs:

- **Circuits/VCS**—Lists the name, type, customer, status, and creation date for each circuit provisioning on the device. To get additional circuit/VC details, see [View Circuit/VC Details](#) which explains how to launch the *Circuit/VC 360 view* and the Circuit/VC Details window.
- **Satellites**—For Cisco ASR 9000 devices in a cluster configuration, lists a satellite's name, type, description, status, and IP and MAC addresses. To get additional satellite details, see [Identify the Satellites Connected to a Cisco ASR 9000 Host](#), which explains how to launch the *Satellite 360 view*.

To launch the Device 360 view:

- Click the “i” icon next to the device name in almost any device table
- From the network topology, click a device in an expanded group and click **View**

**Note**

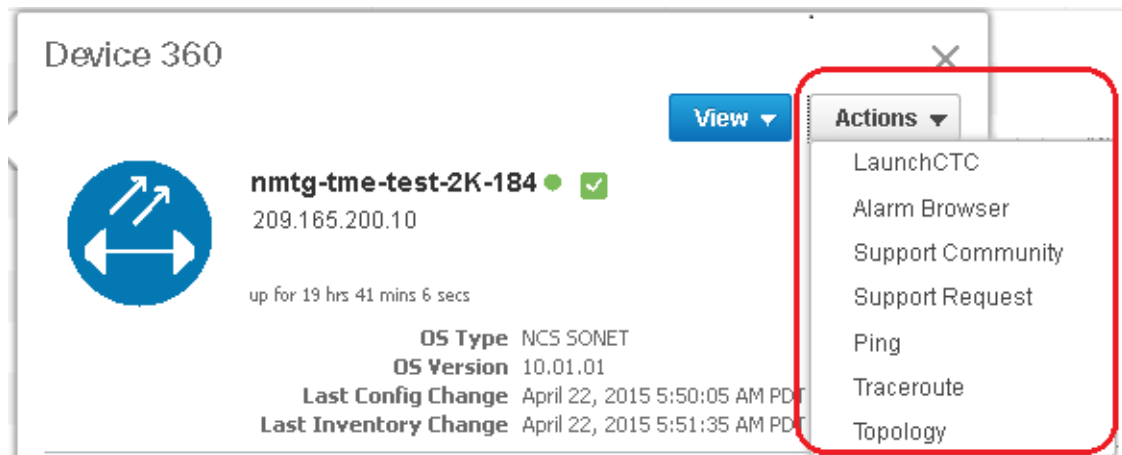
If a device has multiple memory pools, the Device 360 view will display the average utilization for all of the memory pools. If you want to see information on each memory pool, use the memory utilization dashlets in the Network Summary dashboard. See [Add a New Dashlet To An Existing Dashboard](#).

To launch a Device 360 view, hover over the “i” icon next to the device IP address that is displayed in almost all Cisco EPN Manager tables. The following figure provides an example of a Device 360 view for a Cisco ASR 9006 router.

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The screenshot displays the 'Device 360' view for a Cisco ASR 9001 Router. The main content area shows the device name 'ASR9K', IP address '209.165.202.10', and status 'up for 1 days 9 hrs 36 mins 27 secs'. System details include OS Type 'IOS XR', OS Version '5.1.3[Default]', Last Config Change 'April 29, 2015 5:37:16 AM PDT', and Last Inventory Change. Below this are two utilization graphs: 'CPU Utilization (%)' and 'Memory Utilization (%)', both showing data for the last 6 hours. A navigation bar at the bottom includes tabs for 'Alarms', 'Modules', 'Interfaces', 'Neighbors', and 'Circuit/VC'. A table below the navigation bar shows neighbor information with columns for Device Name, Local Port, Device Port, Device Descr..., and Sysname. The table contains one entry for 'ASR9K-CN-...' connected via 'TenGigE0...' to 'TenGigE0/0/...' on a 'cisco ASR9K...' device, with 'Sysname' listed as 'Not Avail...'. On the left sidebar, a list of IP addresses is shown, with the information icon for '209.165.202...' highlighted by a red square.

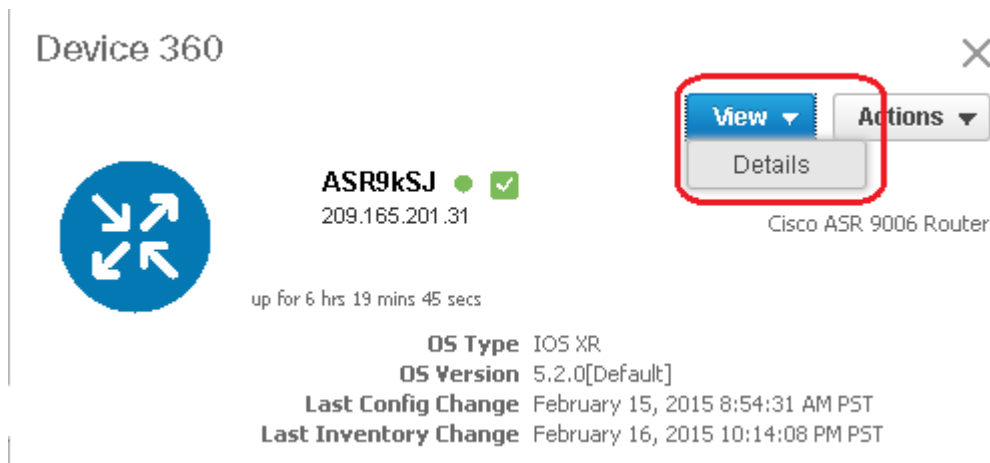
To launch the troubleshooting tools, click the **Actions** button at the top right of the Device 360 view. Depending on the device type, the Actions drop-down can include a launch point for Cisco Transport Controller (CTC).

LIMITED ORDERABILITY RELEASE**Get Comprehensive Device Information: Device Details Page**

For the most comprehensive information about a device, use the Device Details page:

- Choose **View > Details** from the top right of the Device 360 view
- Click the device name hyperlink which appears in many Cisco EPN Manager device tables

This example shows how to launch the Device Details page from the Device 360 view:



The following illustrates the Device Details page for a Cisco ASR 9006 router. Note that from this window, you can perform the following operations on the device:

- Make configuration changes under the Configuration and Applied/Scheduled Templates tabs. See [Configure Devices](#) and [Create Templates To Automate Device Configuration Changes](#).
- Manage device configuration files under the Configuration Archive tab. See [Manage Device Configuration Files](#).
- Manage device software image files under the Image tab. See [Manage Device Software Images](#).

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Home / ... / Cisco ASR 9000 Series Aggregation Services Routers / ASR9kSJ ★

Device Details
Configuration
Applied/Scheduled Templates
Configuration Archive
Image

System >

Summary

User Defined Field

Memory Pools

Environment

Modules

Physical Ports

Sensors

Interfaces >

Summary

209.165.201.31 > System > Summary

General

IP Address/DNS Name 209.165.201.31

Device Name ASR9kSJ

Device Type Cisco ASR 9006 Router

Up Time 6 hrs 11 mins 30 secs

Reachability Status Reachable

Location

Contact

Cisco Identity Capable No

Location Capable No

Unique Device Identifier (UDI)

Name chassis ASR-9006-AC

Description ASR 9006 AC Chassis

Product ID ASR-9006-AC-V2

Version ID A0

Serial Number FOX1628GETT

CPU Utilization

Zoom: 1h | 6h | 1d | 1w | 2w | 4w | 3m | 6m | 1y | [View History](#) |

From: To:

Avg. CPU Utilization(%)

Inventory

Software Version 5.2.0[Default]

Model No. ASR-9006-AC-V2

Port Summary

Number of Ports Up 15

Number of Ports Down 37

Memory Utilization

Zoom: 1h | 6h | 1d | 1w | 2w | 4w | 3m | 6m | 1y | [View History](#) |

From: To:

Avg. Memory Utilization(%)

View Device Ports

Use these methods to get information about the ports that are configured on a device:

- For the physical ports on a device, see [List a Device's Physical Ports](#)
- For specific device port and its alarms and any circuits/VCs that traverse the port, see [Get a Quick View of a Port: Port 360 View](#)

List a Device's Physical Ports

To list all of the physical ports in a device, use the Device Details page. The Device Details page lists the device port names, descriptions, aliases, parent modules, and so forth.

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- Step 1** Open the Device Details page:
- Click the device name hyperlink which appears in many Cisco EPN Manager device tables
 - Choose **View > Details** from the top right of the Device 360 view
- Step 2** Under the Device Details tab, click **System > Physical Ports**.

This example shows the Device Details page for a Cisco ME 0 router.

Home / ... / All Devices / ME36 ★

Device Details
Configuration
Applied/Scheduled Templates
Configuration Archive
Image

System >

- Summary
- User Defined Field
- Memory Pools
- Environment
- Modules
- VLANs
- VTP
- Physical Ports
- Sensors
- Spanning Tree
- Stacks
- NMSP and Location
- Interfaces >
- Clients >

Physical Ports

209.165.200.5 > System > Physical Ports

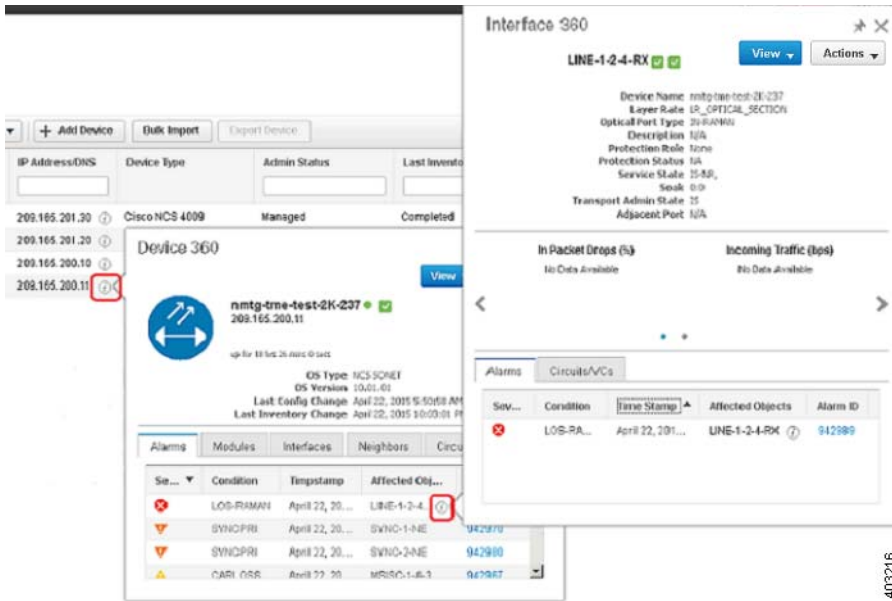
Port Name	Port Description	Port Alias
<input type="text"/>	<input type="text"/>	<input type="text"/>
GigabitEthernet0/1	GigabitEthernet0/1	
GigabitEthernet0/2	GigabitEthernet0/2	#### CPE-ISR2
GigabitEthernet0/5	GigabitEthernet0/5	
GigabitEthernet0/6	GigabitEthernet0/6	
GigabitEthernet0/7	GigabitEthernet0/7	
GigabitEthernet0/8	GigabitEthernet0/8	
TenGigabitEthernet0/1	10GBASE-SR	### TO ASR903-7
TenGigabitEthernet0/2	10GBASE-SR	### TO ME3600X
GigabitEthernet0/4	1000BaseSX SFP	
GigabitEthernet0/3	1000BaseSX SFP	

Get a Quick View of a Port: Port 360 View

The Port 360 view gives you a quick look at the status and configuration of a specific device port—incoming and outgoing error and discard data, alarms that have occurred on the port or its subports, and any circuits/VCs that traverse the port.

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You can launch the Port 360 view from the Device 360 view Interface tab by clicking the “i” icon next to the interface name. If there is an alarm on the interface, you can also launch the Port 360 view from the Alarms tab in the Device 360 (or Circuit/VC 360) view, as shown in the following example.



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If a port has an alarm, you can also launch the Port 360 view from the Alarms list (**Monitoring > Alarms and Events**), as shown in the following example. Cleared alarms also have the launch point (alarms listed under the Cleared Alarms tab).

The screenshot shows the Cisco Evolved Programmable Network Manager interface. The main window displays the 'Monitor / Alarms and Events' section with a table of alarms. The 'Alarms' tab is selected. The table has columns for Severity, Message, Status, Failure Source, Timestamp, Category, Condition, and Location. A red box highlights the 'i' icon in the Location column for the alarm 'LINE-2-2-4-RX'. A 'Port 360 View' window is open on the right, showing details for the selected alarm. The details include Port Type, Device Name, Layer Rate, Optical Port Type, Description, Protection Role, Protection Status, Service State, Soak, Transport Admin State, and Adjacent Port. Below the details are two graphs: 'Incoming Traffic (bps)' and 'Out Packet Drops (%)', both showing 'No Data Available'. At the bottom of the Port 360 View, there is an 'Alarms' tab with a table showing the selected alarm's details: Severity (Critical), Condition (LOS-R...), Time Stamp (April 22, 2015 5:...), Affected Obj... (LINE-2-2-4-...), and Alarm ID (942984).

Severity	Message	Status	Failure Source	Timestamp	Category	Condition	Location
Critical	Loss Of Raman Signal	Not Acknow...	nmtg-tme-test...	April 22, 2...	Optical Transport	LOS-RAMAN	LINE-2-2-4-RX
Critical	Loss Of Raman Signal	Not Acknow...	nmtg-tme-test...	April 22, 2...	Optical Transport	LOS-RAMAN	LINE-1-2-4-RX
Critical	Raman Laser Shutd...	Not Acknow...	nmtg-tme-test...	April 22, 2...	Optical Transport	RLS	LINE-2-2-4-TX
Major	Primary Synchronizat...	Not Acknow...	nmtg-tme-test...	April 22, 2...	Optical Transport	SYNCPRI	SYNC-1-NE
Major	Primary Synchronizat...	Not Acknow...	nmtg-tme-test...	April 22, 2...	Optical Transport	SYNCPRI	SYNC-2-NE
Major	Primary Synchronizat...	Not Acknow...	nmtg-tme-test...	April 22, 2...	Optical Transport	SYNCPRI	SYNC-2-NE
Major	Primary Synchronizat...	Not Acknow...	nmtg-tme-test...	April 22, 2...	Optical Transport	SYNCPRI	SYNC-1-NE
Minor	Carrier Loss On The...	Not Acknow...	nmtg-tme-test...	April 22, 2...	Optical Transport	CARLOSS	MSISC-1-A-3
Minor	Loss Of Signal	Not Acknow...	nmtg-tme-test...	April 22, 2...	Optical Transport	LOS	BITS-1-1
Minor	Loss Of Signal	Not Acknow...	nmtg-tme-test...	April 22, 2...	Optical Transport	LOS	BITS-1-2
Minor	Secondary Synchron...	Not Acknow...	nmtg-tme-test...	April 22, 2...	Optical Transport	SYNCSEC	SYNC-1-NE
Minor	Battery Failure	Not Acknow...	nmtg-tme-test...	April 22, 2...	Optical Transport	BAT-FAIL	PWR-1-B

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View Device Interfaces

Use these methods to get information about the interfaces that are configured on a device:

- Quick information on device interfaces—[Get Quick Information About a Device's Interfaces: Device 360 View](#)
- Detailed interface information—[Get Detailed Information About a Device's Interfaces: Device Details Page](#)

Additionally, Cisco EPN Manager provides Interface Availability, Interface Capacity, and Interface Utilization reports that you can generate as needed. See [Reports Available in Cisco EPN Manager](#).

Get Quick Information About a Device's Interfaces: Device 360 View

Use the Device 360 view to get quick information about a device's interfaces.

-
- Step 1** Open the Device 360 view:
- Click the “i” icon next to the device name in almost any device table
 - From the network topology, click a device in an expanded group and click **View**
- Step 2** Click the **Interfaces** tab.
-

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The following example shows the Device 360 view interface information for a Cisco NCS 2006 device.

The screenshot displays the 'Device 360' view for a device named 'nmtg-tme-test-2K-184'. The device is a Cisco NCS 2006 with IP address 209.165.200.10. It has been up for 18 hours, 3 minutes, and 44 seconds. The OS Type is NCS SONET and the OS Version is 10.01.01. The last configuration change was on April 22, 2015, at 5:50:05 AM PDT, and the last inventory change was on April 23, 2015, at 10:03:04 PM PDT.

The 'Interfaces' tab is selected, showing a table of interface configurations:

Op. Status	Admin Status	Interface
✓	✓	PLINE-4-8-TX
✓	✓	PCHAN-5-39-TX
✓	✓	PCHAN-5-12-TX

If you want to view the interfaces that are configured on a specific device port, click the “i” icon next to the interface name to launch the Port 360 view (see [Get a Quick View of a Port: Port 360 View](#)).

Get Detailed Information About a Device’s Interfaces: Device Details Page

The Device Details page provides extensive information about the interfaces that are configured on a device. You can view interfaces by their type, or drill down into a specific interface.

-
- Step 1** Open the Device Details page:
- Click the device name hyperlink which appears in many Cisco EPN Manager device tables
 - Choose **View > Details** from the top right of the Device 360 view
- Step 2** Click **Interfaces** under the Device Details tab.
-

The following example shows the OTS interfaces for a Cisco NCS 2006 device.

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Home / Device Details ★

Device Details

Configuration

Image

System >

Interfaces >

All Interfaces

Optical Line Interfaces

OCH Interfaces

OTS Interfaces

SONET/SDH Interfaces

Ethernet Interfaces

Optical Interfaces

OTN Interfaces

FC/FICON Interfaces

Video Interfaces

Data Storage Interfaces

Settings >

OTS Interfaces

209.165.200.5 > Interfaces > OTS Interfaces

Side	Line-In	Admin Status	Operational Status	Line-Out	Admin Status	Operational Status
WDMSIDE-A	LINE-1-2-3-RX	🟢	🟢	LINE-1-2-3-TX	🟢	🟢
WDMSIDE-B	LINE-2-2-3-RX	🟢	🟢	LINE-2-2-3-TX	🟢	🟢

You can further drill down into a specific interface's details by click the interface hyperlink. This example provides details about the OTS interface named WDMSIDE-A on the Cisco NCS 2006 device.

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🏠 / Device Details ★

Device Details

Configuration

Image

System >

Interfaces >

All Interfaces

Optical Line Interfaces

OCH Interfaces

OTS Interfaces

SONET/SDH Interfaces

Ethernet Interfaces

Optical Interfaces

OTN Interfaces

FC/FICON Interfaces

Video Interfaces

Data Storage Interfaces

Settings >

OTS Interface Details

209.166.200.5 > Interfaces > OTS Interfaces > **WDMSIDE-A**

OTS Interface Details Line-In

Name **LINE-1-2-3-RX**

Port Name

Admin Status **UP**

Operational Status **UP**

OTS Interface Details Line-Out

Name **LINE-1-2-3-TX**

Port Name

Admin Status **UP**

Operational Status **UP**

Amplification Settings

Working Mode **GAIN**

Gain **0.0**

Channel Power Ref. **1.0**

Tilt Calibration **0.0**

Tilt Reference **-0.2**

VOA Settings

VOA Mode

VOA Attenuation Ref.

VOA Attenuation Cal.

VOA Power Ref.

VOA Power Cal.

ALS Settings

ALS Mode **MANUAL_RESTART**

Recovery Pulse Interval **100.0**

Recovery Pulse Duration **9.0**

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View Device Modules

To view device module information, choose **Inventory > Device Management > Network Devices**.

Use this page/view	To get this information:	Navigation
Device 360 view	A list of all modules with their status, type, ports	<ol style="list-style-type: none"> Open the Device 360 view: <ul style="list-style-type: none"> Click the “i” icon next to the device name in almost any device table From the network topology, click a device in an expanded group and click View Choose the Modules tab.
Device Details page	Module equipment type and power information	<ol style="list-style-type: none"> Open the Device Details page: <ul style="list-style-type: none"> Click the device name hyperlink which appears in many Cisco EPN Manager device tables Choose View > Details from the top right of the Device 360 view Under the Device Details tab, choose System > Modules.

View Environment Information (Power Supplies, Fans)

Environment-related information, such as details about power supplies and fans, is displayed in a device’s Device Details page.

-
- Step 1** Open the Device Details page:
- Click the device name hyperlink which appears in many Cisco EPN Manager device tables
 - Choose **View > Details** from the top right of the Device 360 view
- Step 2** Under the Device Details tab, choose **System > Environment**.
-

View Device Neighbors

Device neighbor information, such as the neighbor name, port number, index, and duplex setting, is displayed in a device’s Device 360 view.

-
- Step 1** Open the Device 360 view:
- Click the “i” icon next to the device name in almost any device table
 - From the network topology, click a device in an expanded group and click **View**
- Step 2** Click the **Neighbors** tab.
-

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Navigation: < Modules Interfaces **Neighbors** Circuit/VC Satellites >> >

Name	Index	Port	Duplex
ASR9K	7	TenGigE0/0/2/0	full duplex
CPE-ISRG2	67	GigabitEthernet0/0/3	full duplex
Asr_903	36	GigabitEthernet0/0/0	full duplex

Horizontal scrollbar below the table.

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