Reload Reason History

Feature History for Reload Reason History

This table provides release and related information about the feature explained in this section.

This feature is also available in all the releases subsequent to the one in which they are introduced in, unless noted otherwise.

Table 1: Feature History for Reload Reason History

Release	Feature	Feature Information
Cisco IOS XE Dublin 17.11.1	Reload Reason History	The Reload Reason History feature tracks the reasons for controller reload. This is done for the last 10 reloads. In Cisco IOS-XE Dublin 17.10.x and earlier releases, it was possible to track only the reason for the last reload.

Information About Reload Reason History

The Reload Reason History feature tracks the reasons for controller reload. This is done for the last 10 reloads.You will be able to view the history using the show version and the Network Configuration Protocol (NETCONF). This history is useful for serviceability and troubleshooting.

Verifying Reload Reason History

To view the reload history details, use the following command:

```
Device# show reload-history

Reload History:
```

```
Reload Index: 1
Reload Code: Reload
Reload Description: Reload Command
Reload Severity: Normal Reboot
Reload Time: 01:33:44 UTC Wed Nov 30 2022

Reload Index: 2
Reload Code: Critical Process Fault
Reload Description: Critical process stack_mgr fault on rp_0_0 (rc=137), system report at
bootflash:core/Yang_Test-system-report_20221130-012929-UTC.tar.gz
Reload Severity: Abnormal Reboot
Reload Time: 01:31:11 UTC Wed Nov 30 2022

Reload Index: 3
Reload Code: Image Install
Reload Description: Image Install
Reload Severity: Normal Reboot
Reload Time: 01:25:03 UTC Wed Nov 30 2022

Reload Index: 4
Reload Code: Critical Process Fault
Reload Description: Critical process rif_mgr fault on rp_0_0 (rc=137), system report at
bootflash:core/Yang_Test-system-report_20221130-011127-UTC.tar.gz
Reload Severity: Abnormal Reboot
Reload Time: 01:13:08 UTC Wed Nov 30 2022

Reload Index: 5
Reload Code: Reload
Reload Description: Reload Command
Reload Severity: Normal Reboot
Reload Time: 01:08:26 UTC Wed Nov 30 2022

Reload Index: 6
Reload Code: Critical Process Fault
Reload Description: Critical process wncmgrd fault on rp_0_0 (rc=137), system report at
bootflash:core/Yang_Test-system-report_20221130-010338-UTC.tar.gz
Reload Severity: Abnormal Reboot
Reload Time: 01:05:23 UTC Wed Nov 30 2022

Reload Index: 7
Reload Code: Reload
Reload Description: Reload Command
Reload Severity: Normal Reboot
Reload Time: 01:01:09 UTC Wed Nov 30 2022

Reload Index: 8
Reload Code: Reload
Reload Description: Reload Command
Reload Severity: Normal Reboot
Reload Time: 00:57:27 UTC Wed Nov 30 2022

Reload Index: 9
Reload Code: Reload
Reload Description: Reload Command
Reload Severity: Normal Reboot
Reload Time: 00:22:34 UTC Wed Nov 30 2022

Reload Index: 10
Reload Code: Fast Switchover
Reload Description: redundancy force-switchover
Reload Severity: Normal Reboot
Reload Time: 23:40:01 UTC Tue Nov 29 2022
```

To view reason for the last reload, use the following command:

```
Device# show platform software tdl-database content ios device data
Device Current time: 04:06:04
Device boot time: 01:33:37
Software version: Cisco IOS Software [Dublin], C9800-CL Software (C9800-CL-K9_IOSXE),
Experimental Version 17.11.20221012:120806
[BLD_POLARIS_DEV_S2C_20221010_023625-1-g5ebdd5c35512:/nobackup/saikarth/polaris_relhis 103]
Copyright (c) 1986-2022 by Cisco Systems, Inc.
Compiled Wed 12-Oct-22 05:08 by saikarth
Rommon version: IOS-XE ROMMON
Last Reboot reason: Reload Command
Reboot reason severity: Normal Reboot
Unsaved configuration:  * Unknown boolean *

Reload History:

Reload Category: Reload
Reload Description: Reload Command
Reload Severity: Normal Reboot
Reload Time: 11/30/2022 01:33:44 UTC

Reload Category: Critical Process Fault
Reload Description: Critical process stack_mgr fault on rp_0_0 (rc=137), system report at
bootflash:core/Yang_Test-system-report_20221130-012929-UTC.tar.gz
Reload Severity: Abnormal Reboot
Reload Time: 11/30/2022 01:31:11 UTC

Reload Category: Image Install
Reload Description: Image Install
Reload Severity: Normal Reboot
Reload Time: 11/30/2022 01:25:03 UTC

Reload Category: Critical Process Fault
Reload Description: Critical process rif_mgr fault on rp_0_0 (rc=137), system report at
bootflash:core/Yang_Test-system-report_20221130-011127-UTC.tar.gz
Reload Severity: Abnormal Reboot
Reload Time: 11/30/2022 01:13:08 UTC

Reload Category: Reload
Reload Description: Reload Command
Reload Severity: Normal Reboot
Reload Time: 11/30/2022 01:08:26 UTC

Reload Category: Critical Process Fault
Reload Description: Critical process wncmgrd fault on rp_0_0 (rc=137), system report at
bootflash:core/Yang_Test-system-report_20221130-010338-UTC.tar.gz
Reload Severity: Abnormal Reboot
Reload Time: 11/30/2022 01:05:23 UTC

Reload Category: Reload
Reload Description: Reload Command
Reload Severity: Normal Reboot
Reload Time: 11/30/2022 01:01:09 UTC

Reload Category: Reload
Reload Description: Reload Command
Reload Severity: Normal Reboot
Reload Time: 11/30/2022 00:57:27 UTC

Reload Category: Reload
Reload Description: Reload Command
Reload Severity: Normal Reboot
Reload Time: 11/30/2022 00:22:34 UTC
```

```
Reload Category: Fast Switchover
Reload Description: redundancy force-switchover
Reload Severity: Normal Reboot
Reload Time: 11/29/2022 23:40:01 UTC
```

Requesting Reload Reason History using YANG

Use YANG with NETCONF and RESTCONF to provide the desired solution for automated and programmable network operations.

Use the following RPC to create a NETCONF GET request for reload history data:

```
<nc:rpc xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0"
message-id="urn:uuid:da15955f-5bb7-437c-aeb5-0fc7901a1e9e">
  <nc:get>
    <nc:filter>
      <device-hardware-data
xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-device-hardware-oper">
        <device-hardware>
          <device-system-data>
            <reload-history/>
          </device-system-data>
        </device-hardware>
      </device-hardware-data>
    </nc:filter>
  </nc:get>
</nc:rpc>

<rpc-reply message-id="urn:uuid:da15955f-5bb7-437c-aeb5-0fc7901a1e9e"
xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0">
  <data>
   <device-hardware-data xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-device-hardware-oper">

      <device-hardware>
        <device-system-data>
          <reload-history>
            <rl-history>
              <reload-category>rc-rld</reload-category>
              <reload-desc>Reload Command</reload-desc>
              <reload-time>2022-11-30T01:33:44+00:00</reload-time>
              <reload-severity>normal</reload-severity>
            </rl-history>
            <rl-history>
              <reload-category>rc-crit-proc-fault</reload-category>
              <reload-desc>Critical process stack_mgr fault on rp_0_0 (rc=137), system
report at bootflash:core/Yang_Test-system-report_20221130-012929-UTC.tar.gz</reload-desc>
              <reload-time>2022-11-30T01:31:11+00:00</reload-time>
              <reload-severity>abnormal</reload-severity>
            </rl-history>
            <rl-history>
              <reload-category>rc-img-install</reload-category>
              <reload-desc>Image Install </reload-desc>
              <reload-time>2022-11-30T01:25:03+00:00</reload-time>
              <reload-severity>normal</reload-severity>
            </rl-history>
            <rl-history>
              <reload-category>rc-crit-proc-fault</reload-category>
             <reload-desc>Critical process rif_mgr fault on rp_0_0 (rc=137), system report
 at bootflash:core/Yang_Test-system-report_20221130-011127-UTC.tar.gz</reload-desc>
```

```
              <reload-time>2022-11-30T01:13:08+00:00</reload-time>
              <reload-severity>abnormal</reload-severity>
            </rl-history>
            <rl-history>
              <reload-category>rc-rld</reload-category>
              <reload-desc>Reload Command</reload-desc>
              <reload-time>2022-11-30T01:08:26+00:00</reload-time>
              <reload-severity>normal</reload-severity>
            </rl-history>
            <rl-history>
              <reload-category>rc-crit-proc-fault</reload-category>
               <reload-desc>Critical process wncmgrd fault on rp_0_0 (rc=137), system report
 at bootflash:core/Yang_Test-system-report_20221130-010338-UTC.tar.gz</reload-desc>
              <reload-time>2022-11-30T01:05:23+00:00</reload-time>
              <reload-severity>abnormal</reload-severity>
            </rl-history>
            <rl-history>
              <reload-category>rc-rld</reload-category>
              <reload-desc>Reload Command</reload-desc>
              <reload-time>2022-11-30T01:01:09+00:00</reload-time>
              <reload-severity>normal</reload-severity>
            </rl-history>
            <rl-history>
              <reload-category>rc-rld</reload-category>
              <reload-desc>Reload Command</reload-desc>
              <reload-time>2022-11-30T00:57:27+00:00</reload-time>
              <reload-severity>normal</reload-severity>
            </rl-history>
            <rl-history>
              <reload-category>rc-rld</reload-category>
              <reload-desc>Reload Command</reload-desc>
              <reload-time>2022-11-30T00:22:34+00:00</reload-time>
              <reload-severity>normal</reload-severity>
            </rl-history>
            <rl-history>
              <reload-category>rc-force-switchover</reload-category>
              <reload-desc>redundancy force-switchover</reload-desc>
              <reload-time>2022-11-29T23:40:01+00:00</reload-time>
              <reload-severity>normal</reload-severity>
            </rl-history>
          </reload-history>
        </device-system-data>
      </device-hardware>
    </device-hardware-data>
  </data>
</rpc-reply>
```

For more information about the YANG models, see the following documents: The Cisco IOS XE Programmability Configuration Guide at https://www.cisco.com/c/en/us/support/wireless/catalyst-9800-series-wireless-controllers/products-installation-and-configuration-guides-list.html

The YANG Data Models on Github at https://github.com/YangModels/yang/tree/main/vendor/cisco/xe.

Contact the Developer Support Community for NETCONF and YANG features at:

https://developer.cisco.com/