

Release Notes for Cisco Catalyst IR1800 Rugged Series Router - Release 17.6.1

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The following release notes support the Cisco IR1800 series router. These release notes are updated to describe new features, limitations, troubleshooting, recommended configurations, caveats, and provide information on how to obtain support and documentation.



Note The documentation set for this product strives to use bias-free language. For purposes of this documentation set, bias-free is defined as language that does not imply discrimination based on age, disability, gender, racial identity, ethnic identity, sexual orientation, socioeconomic status, and intersectionality. Exceptions may be present in the documentation due to language that is hardcoded in the user interfaces of the product software, language used based on RFP documentation, or language that is used by a referenced third-party product.

General Description

The Cisco Catalyst IR1800 Rugged Series Router is a modular industrial router. The IR1800 series has four Base platforms with additional Pluggable Modules that can be added. The Pluggable Modules provides the flexibility of adding different interfaces to the base platform.

The IR1800 ISR series features a Base Platform with modularity that includes:

- Pluggable Interface Module (PIM)
- mSATA Module (SSDM)
- GPS Module (GNSS)
- Wi-Fi Module (in a future release)

The IR1800 series consists of four base platforms. They are:

- IR1821 - Lite
- IR1831 - Base B
- IR1833 - Base M
- IR1835 - Pro

Image Information and Supported Platforms



Note You must have a Cisco.com account to download the software.

Cisco IOS-XE Release 17.6.1 includes the following Cisco images:

- IR1800-universalk9.17.06.01.SPA.bin
- IR1800-universal9_npe.17.06.01.SPA.bin

The latest software downloads for the IR1800 can be found at:

<https://software.cisco.com/download/home/286287045>

Click on the IR1800 link to take you to the specific software you are looking for.

Interface Naming Conventions

The following table shows the names of the interfaces.

Port	Naming Convention
Gigabit Ethernet combo port	Gigabitethernet 0/0/0
Gigabit Ethernet ports	GigabitEthernet0/1/0-0/1/3
Cellular Interface	Cellular 0/4/0 Cellular 0/4/1 Cellular 0/5/0 Cellular 0/5/1
Asynchronous Serial Interface	Async 0/2/0 Async 0/2/1 (When the base platform supports two async serial interfaces)
USB	usbflash0:
mSATA	msata
Alarm input	alarm contact 0
GPIO	alarm contact 1-4

Additional configuration steps are found in the [Cisco Catalyst IR1800 Rugged Series Router Software Configuration Guide](#).

Smart Licensing Using Policy

An enhanced version of Smart Licensing is available, with the overarching objective of providing a licensing solution that does not interrupt the operations of your network, rather, one that enables a compliance relationship to account for the hardware and software licenses you purchase and use.

With this licensing model, you do not have to complete any licensing-specific operations, such as registering or generating keys before you start using the software and the licenses that are tied to it. Only export-controlled and enforced licenses require Cisco authorization *before* use. License usage is recorded on your device with timestamps, and the required workflows can be completed later.

Multiple options are available for license usage reporting – this depends on the topology you implement. You can use the Cisco Smart Licensing Utility (CSLU) Windows application or report usage information directly to Cisco Smart Software Manager (CSSM), or deploy Smart Software Manager On-Prem (SSM On-Prem) Version 8, Release 202102 or later. A provision for offline reporting for air-gapped networks, where you download usage information and upload to CSSM, is also available.

Starting with this release, Smart Licensing Using Policy is automatically enabled on the device. This is also the case when you upgrade to this release.

By default, your Smart Account and Virtual Account in CSSM is enabled for Smart Licensing Using Policy



Note Starting with Cisco IOS XE 17.6.1, with the introduction of Smart Licensing Using Policy, even if you configure a hostname for a product instance or device, only the Unique Device Identifier (UDI) is displayed. This change in the display can be observed in all licensing utilities and user interfaces where the hostname was displayed in earlier releases. It does not affect any licensing functionality. There is no workaround for this limitation. The licensing utilities and user interfaces that are affected by this limitation include only the following: Cisco Smart Software Manager (CSSM), Cisco Smart License Utility (CSLU), and Smart Software Manager On-Prem (SSM On-Prem).

Related Documentation

The following documentation is available:

- All of the Cisco IR1800 Industrial Integrated Services Router documentation can be found here:

<https://www.cisco.com/c/en/us/support/routers/catalyst-ir1800-rugged-series-routers/series.html>

- Cisco SD-WAN Configuration Guides:

<https://www.cisco.com/c/en/us/support/routers/sd-wan/products-installation-and-configuration-guides-list.html>



Note A new release of SDWAN vManage may be required to support the IR1800 in controller mode.

Caveats

Caveats describe unexpected behavior in Cisco IOS releases. Caveats listed as open in a prior release are carried forward to the next release as either open or resolved.



Note You must have a Cisco.com account to log in and access the Cisco Bug Search Tool. If you do not have one, you can [register for an account](#) .

For more information about the Cisco Bug Search Tool, see the [Bug Search Tool Help & FAQ](#) .

Open Caveats

- **CSCvv62630**

Ignition: Inaccurate milli volt level measurements for input voltage and threshold levels.

Symptom: Accuracy expected is ~50mv, however, ~700mv to 0.1 volt is seen.

Workaround: There is no workaround.

- **CSCvz16739**

I2C failure occurred - MCU Upgrade Conditions Not Met on repeated reloads.

Symptom: After 20+ reloads, the device stops at rommon during bootup with I2C Failure message. ERROR: I2C failure occurred - Device Error(7) MCU Upgrade Conditions Not Met - No MCU Upgrade %ERROR: I2C failure occurred - Device Error(7) ERROR: (7) Reading the config reset button.

Conditions: Multiple continuous reloads.

Workaround: Reboot the same image from rommon directly or after a power cycle.

- **CSCvz29593**

Intermittent issue with the Async0/2/1 port not working.

Conditions: Problem with the chipset.

Workaround: To recover, perform one of these recovery steps:

1. Perform the command **default int Async 0/2/1**.
2. Reload the router.

- **CSCvx52273**

Smart license registration through proxy server fails.

Symptom: The router is not able to register to the Smart Account when using a proxy server.

Conditions: The proxy server returns something different as a response to CONNECT request from the HTTP inside IOS from the following list:

1. HTTP/1.0 200 OK
2. HTTP/1.1 200 OK
3. HTTP/1.0 200 Connection Established
4. HTTP/1.1 200 Connection Established

Workaround: The response from the proxy can be modified to match one of the supported values.

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Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco website at www.cisco.com/go/offices .

YANG Data Models: For the list of Cisco IOS XE YANG models available navigate to:

<https://github.com/YangModels/yang/tree/master/vendor/cisco/x/>

Revision statements embedded in the YANG files indicate if there has been a model revision. The README.md file in the same GitHub location highlights changes that have been made in the release.

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