



Release Notes for Cisco IOS Release 15.5(3)M for the Cisco IR809 Integrated Services Router

The following release notes support Cisco IOS Releases 15.5(3)M and higher releases. These releases support the Cisco IR809 Integrated Services Router. These release notes are updated to describe new features, limitations, troubleshooting, recommended configurations, caveats, and how to obtain support and documentation.

Contents

This publication consists of the following sections:

- [Image Information and Supported Platforms, page 2](#)
- [Related Documentation, page 2](#)
- [Caveats, page 3](#)
- [Obtaining Documentation and Submitting a Service Request, page 5](#)



Americas Headquarters:
Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

© 2015 Cisco Systems, Inc. All rights reserved.

Image Information and Supported Platforms


Note

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

Cisco IOS Release 15.5(3)M includes the following Cisco IOS images:

- ir800-universalk9-bundle.155-3.M.bin

Cisco IOS Release 15.5(3)M includes support for the following IR800 series routers:

- IR809G-LTE-NA-K9
- IR809G-LTE-VZ-K9
- IR809G-LTE-GA-K9


Note

The ir800-universalk9-bundle.155-3.M.bin bundle must be copied via tftp to the IR809, and then installed using the `bundle install flash:<image name>` command. The ir800-universalk9-bundle.155-3.M.bin file can NOT be directly booted using the `boot system flash:/image_name`. Detailed instructions are found in the Cisco IR809 Integrated Services Router Hardware Installation Guide.


Note

Do not configure ip ssh version 1, otherwise the bundle installation will fail.

Related Documentation

The following documentation is available:

- [Cisco IOS Release Notes](#)
- Cisco IR809 Industrial Integrated Services Routers Documentation
<http://www.cisco.com/c/en/us/support/routers/809-industrial-router/model.html>
- Software manuals - all of the 800 series router documentation
<http://www.cisco.com/c/en/us/support/routers/800-series-routers/tsd-products-support-series-home.html>
- Most of the Cisco IR809 configuration tasks are available in the Cisco 800 Series Integrated Services Routers Software Configuration Guide
<http://www.cisco.com/c/en/us/td/docs/routers/access/800/software/configuration/guide/SCG800Guide.html>
- Cisco 4G LTE Software Installation Guide - common tasks between C800 and IR809 series
<http://www.cisco.com/c/en/us/td/docs/routers/access/interfaces/software/feature/guide/EHWIC-4G-LTESW.html>

Known Limitations

This release has the following limitations or deviations for expected behavior:

- The IR809 series is feature equivalent to the C8xx series, however, support for this initial release has not implemented or validated for all features.

For example:

C8xx supports the following features under Ge0:

```
c819(config)#int gigabitEthernet 0
c819(config-if)#ethernet ?
  cfm      Ethernet CFM interface commands
  dot1ad   dot1ad port
  lmi      Ethernet LMI interface commands
  loopback Ethernet Dataplane Loopback
  oam      Operations, Administration and Maintenance
  uni      Configure Ether UNI
  vlan     Configure Ethernet vlan
```

IR8xx supports the following:

```
IR800_2(config)#int gigabitEthernet 0
IR800_2(config-if)#ethernet ?
  cfm  Ethernet CFM interface commands
  lmi  Ethernet LMI interface commands
```

- The IR809 only supports software encryption in this release. Hardware encryption will be added in the next software release (MR1).
- Show led command has a lag from the actual LEDs at first, then it stabilizes.
- Changing the default Guest OS CPU allocation may affect the router performance. Detailed instructions are found in the Cisco IR809 Integrated Services Router Hardware Installation Guide. <http://www.cisco.com/c/dam/en/us/td/docs/routers/access/800/809/809hwinst.pdf>

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 closed (resolved).

Cisco IOS Release 15.5(3)M

The following sections list caveats for Cisco IOS Release 15.5(3)M:

Open Caveats

- **CSCuu86884**
After the IR809 reloads, vlans are not added to vlan database.
Workaround:
Add vlans manually after reload
- **CSCuu49331**

LED status report is inconsistent across different commands.

Workaround:

None

- **CSCuu45211**

Conditions: Originally GobiSerial was connected to ttyUSB1, ttyUSB2, and ttyUSB3 in this scenario. After re-inserting the SIM, GobiSerial is now connected to ttyUSB0, ttyUSB1, and ttyUSB2 with USB interface is still connected.

Workaround: Remove USB connection

- **CSCuu60617**

Media-type rs485 is configurable under IR809 serial port 0 interface (async 0), however the serial port 1 (async1) interface does not support media-type rs485.

Conditions: When you configure 'media-type rs485" under the async1 interface, the configuration is acceptable.

Workaround: None

- **CSCuu42865**

The `show environment temperature` command has high temperature threshold

Example:

```
IR800#show environment temperature
Temperature:
-----
Sensor          MajorThresh  MinorThres  CurTemp    Status
                (Celsius)   (Celsius)   (Celsius)
-----
Sensor 1 75, -25 60, -15 43 OK
```

The low and high values are on the higher side.

- **CSCut75946**

IR809 does not have PoE. However, PoE LED status displays in `show platform led` and `show platform led summary` outputs.

Workaround: None

- **CSCuu11599**

GPS LED on the IR809 is always blinking green even when GPS is not enabled.

Workaround: None

- **CSCuv84170**

IR809 console becomes inoperable after it was switched to 4G modem console using `test cell-host usb-to-dm` command.

Workaround: None, except to not use the `cell-host usb-to-dm` command.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see What's New in Cisco Product Documentation at: <http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>.

Subscribe to What's New in Cisco Product Documentation, which lists all new and revised Cisco technical documentation, as an RSS feed and deliver content directly to your desktop using a reader application. The RSS feeds are a free service.

Any Internet Protocol (IP) addresses and phone numbers used in this document are not intended to be actual addresses and phone numbers. Any examples, command display output, network topology diagrams, and other figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses or phone numbers in illustrative content is unintentional and coincidental.

© 2012-2015 Cisco Systems, Inc. All rights reserved.

Printed in the USA on recycled paper containing 10% postconsumer waste.