



Release Notes for Cisco Configuration Professional Express 3.5.1 on IR800 Series Routers

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These release notes support Cisco Configuration Professional Express Release 3.5.1 on IR800 Series Routers. To download the software, go to:

<https://software.cisco.com/download/release.html?i=!y&mdfid=281795035&softwareid=282159854&release=3.5&os>

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Introduction

Cisco Configuration Professional Express is an embedded, device-management tool that enables bootstrap configuration and provisioning of a Cisco Industrial Router (IR).

CCP Express provides you two options to bring up a brand new router. You can use the Quick Setup Wizard to perform the basic configuration tasks and Advanced Setup option for detailed configuration options. For a brand new router, Quick setup wizard is the preferred option.

Supported Routers

Caution: If you log into an IR800 Series device as a one-time user with the cisco/cisco username and password, you must create another user through the UI or command line. Otherwise, the one-time user session is deleted, and your configurations are not saved. For more information, refer to the Cisco Configuration Professional Express Quick Start Guide at:

https://www.cisco.com/c/en/us/td/docs/routers/access/800/829/software/cisco_configuration_professional_express/v3_5/guides/quickstart/CiscoCPEXpress-IR-3-5-qsg.html

Supported Routers

Table 1 lists the routers that Cisco Configuration Professional Express supports.

Table 1 Supported Routers

Router Series	Supported Routers
Cisco IR807 Series	IR807G-LTE-VZ-K9 IR807G-LTE-NA-K9 IR807G-LTE-GA-K9
Cisco IR809 Series	IR809G-LTE-VZ-K9 IR809G-LTE-NA-K9 IR809G-LTE-GA-K9 IR809G-LTE-LA-K9
Cisco IR829 Series	IR829GW-LTE-LA-NK9 IR829GW-LTE-GA-SK9 IR829GW-LTE-GA-CK9 IR829GW-LTE-GA-ZK9 IR829GW-LTE-GA-EK9 IR829GW-LTE-NA-AK9 IR829GW-LTE-VZ-AK9 IR829-2LTE-EA-AK9 IR829-2LTE-EA-BK9 IR829-2LTE-EA-EK9

Supported Browsers

Cisco Configuration Professional Express is supported on the following browsers:

- Mozilla Firefox 25 or later
- Google Chrome 30 or later
- Safari 9.1

Cisco IOS Releases

For IR800 Series routers running Cisco Configuration Professional Express Release 3.5.1, we recommend Cisco IOS Release 15.7(3)M2 or later.

For security features, use Cisco IOS Release 15.5(1) T or later.

Determining the Cisco IOS Release

To determine the Cisco IOS software release currently running on your Cisco router, log in to the router and enter the **show version EXEC** command. The following sample output from the **show version** command indicates the Cisco IOS release in the second line.

```
IR800#show version
Cisco IOS Software, ir800 Software (ir800-UNIVERSALK9-M), Version 15.7(3) RELEASE SOFTWARE (fc1)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2018 by Cisco Systems, Inc.
Compiled Wed 28-March-18 11:48 by prod_rel_team
```

Installation Files

The Cisco Configuration Professional Express 3.5.1 installation files are left untarred on the router flash.

New Features in Release 3.5.1

Release 3.5.1 introduces the following new features and enhancements:

- General Performance improvements in loading.
- Release 3.5.1 loads the new UI by default.
- Minor improvements in UI on top menu.
- Added the Http/Https Configuration section.
- Build and User information is added to System Information popup.
- Removed the Device Details dashlet as System Info serves the same purpose.
- Added the Interfaces tab under the Dashboard section and moved the Interface dashlet moved to the Dashboard section.
- Support for Monitor User having only read-access to the application.
- Monitor View section added. This is for Admin user to manage Monitor Users.
- Minor changes in user screen w.r.t. support for Monitor User. Application now marks a user as Admin, Monitor or No Access if the minimum recommended IOS is present.
- Changes the minimum recommended IOS version from 15.6(3)M2 to 15.7(3)M2 and later for CCP Express Release 3.5.1 and later versions.

What is Not Supported in Release 3.5.1

Release 3.5.1 does not support the following features:

- Application Visibility and Control (AVC) feature is not supported on IR routers.
- IPSec VPN is not supported on IR routers.
- Factory Reset option is not supported on IR routers.
- Hardware Health tab in Dashboard Router is not displayed in IR routers.

Known Issues and Workarounds

CAUTION: This product is shipped with a default configuration which is unique to each device. The default configuration allows the user to access the CCP Express Quick Setup Wizard to perform basic configuration. Erasing or making any other manual configuration changes prior to using CCP Express is strongly discouraged as the default configuration is mandatory for CCP Express to operate. For IR configuration questions, please contact your Cisco support representative.

This section contains the list of known issues in Cisco Configuration Professional Express Release 3.5.1.

■ CSCtz82923

Symptom: In the Interface screen (in both the Admin view and the End User view), the Edit VLAN and Edit Interface dialog boxes do not reflect the correct values for the attributes displayed on the Summary screen.

Condition: This issue occurs when the Interfaces feature is in use, and an interface or a VLAN is being edited.

Workaround: Upgrade your Cisco IOS Software Release to 15.2(4)M or later.

■ CSCud76752

Symptom: The Cisco Configuration Professional Express interfaces screen displays a blank page.

Condition: This issue occurs when the Cisco IOS Release that is being used is earlier than Release 15.2, and the router has cellular interfaces.

Workaround: Upgrade to Cisco IOS Release 15.2.4M2 or later, or Release 15.3.1T or later for all SKUs.

■ CSCup66372

Symptom: While creating a user very first time in a new router the password is not encrypted.

Condition: The user will be prompted to create a new user while logging in to the router for the first time with default username and password. The newly created user is not encrypted. The password will be visible when anyone tries to check the running configuration.

Workaround: Login to router and execute a CLI "service password-encryption" in config mode. Otherwise navigate to Any CLI to the box menu and execute the same CLI in config mode.

■ CSCus23237

Symptom: NAT translations do not happen if stale NAT translation CLIs present in the configuration.

Condition: This problem is seen when interface enabled for NAT feature is deleted using CCP Express 3.0 [on supported Cisco Routers]

Known Issues and Workarounds

This problem occurs with the following conditions:

1. Enabling NAT during Interface configuration and deleting it
2. Configuring an interface as Primary WAN interface and deleting it
3. Configuring an interface as Secondary WAN interface and deleting it

In above conditions following CLIs are sent to router from CCP Express software and stays in configuration as stale entries when deleted

```
! //**** Below CLI sent as part of interface configuration enabled for NAT**** //
!
ip nat inside source list <Nat-list_name> interface <Interface_name> overload
!
!//**** Below CLI sent as part of Primary/Secondary WAN interface configuration**** //
!
ip nat inside source route-map <route_map_name> interface <Interface_name> overload
```

Workaround:

1. If the interface part of NAT overload configuration is deleted, then create that interface (see example below).
2. Delete the stale NAT overload CLI.
3. Delete the created interface.
4. Execute “clear nat translations forced”.

Example:

The below entry may exist on the device causing NAT translations to not work properly.

```
!
ip nat inside source list nat-list interface Dialer4 overload
!
Config t
(config)#int dialer4
(config-intf)#exit
(config)#no ip nat inside source list nat-list interface Dialer4 overload
(config)#exit
#.
```

■ CSCuq63961

Symptom: Unable to access the Internet. Traffic is not going through the configured WAN interface.

Condition: When the WAN interface gets its IP and default gateway from DHCP server, CCP Express should not push “ip route 0.0.0.0 0.0.0.0 'primary WAN interface” configuration to the router. With this configuration the traffic is not flowing through the device, when already the default route (GW IP received from DHCP server) is installed on the router.

Workaround: Remove the CLI manually in the router like “no ip route 0.0.0.0 0.0.0.0 'primary WAN interface” or using CCP Express Any CLI to the box feature to execute the CLI.

■ CSCuq64556

Symptom: The protocol 914c/g protocol is not listed under net-admin application list in the Policy screen.

Condition: This particular protocol cannot be configured using CCP Express.

Known Issues and Workarounds

Workaround: There is no workaround. If you configure “match protocol 914c/g” under any of the class-maps using the CLI on the router, the UI will show “parsing error” while accessing some features, e.g. CWS.

■ CSCvc63172

Symptom: Uploads in CCP Express are getting aborted automatically under certain conditions in Microsoft Internet Explorer due to browser timeout issues.

Condition: When Microsoft Internet Explorer is used, we have noticed that certain devices shoot up in the CPU utilization to 100%. This causes subsequent processing to halt. The options are to try again or use Google Chrome, Mozilla Firefox, or Microsoft Edge browsers.

Workaround: There is no workaround for this in Microsoft Internet Explorer.

■ CSCvc66233

Symptom: IOS upload not listing the IOS image on the IR boxes.

Condition: The command show file info should yield “type is image” for any IOS image file. In IR routers, this is shown as “ebcdic text”. Hence the files are not listed.

Workaround: A code workaround to check for ebcdic text if the box type is IR is put in to list the IOS images. This is entirely not correct as vlan.dat (and also other files which are not known at this point) can also be listed as ebcdic text. So code has excluded vlan.dat from the checks and only checks for type as ebcdic text to list the IOS images. In addition, since IR devices use IOS installation bundles, the file is checked for presence of “bundle” in its name. The user will have to manually identify and select the correct IOS image bundle.

■ CSCvc67305

Symptom: Dashboard router option is not showing Hardware Health in IR routers.

Condition: Hardware Health option in Dashboard is not listed. The output of the command “show environment all” given by IOS in IR routers is very much different when compared to the standard output given in ISR routers for IOS (based on which the initial design was done).

Workaround: There is no workaround here. By design, if the values cannot be fetched, the dashlet will not be displayed.

■ CSCvc69108

Symptom: Login to UI is not possible for user with privilege level other than 15

Condition: HTTP server in IOS permits only privilege level 15 user credentials to be used for application login.

Workaround: There is no workaround. User should be created with privilege level 15.

■ CSCvc78268

Symptom: Integration with Cisco Active Advisor works at authentication level, but you cannot upload data from device in Microsoft Internet Explorer.

Condition: When Microsoft Internet Explorer is used, the authentication to CAA works, but the data upload does not work. We need to use Google Chrome, Mozilla Firefox, or Microsoft Edge.

Workaround: There is no workaround for this in Microsoft Internet Explorer.

■ CSCvd89365

Symptom: Upgrade from an older version causes top menu items to launch different pages.

Condition: When user upgrades to version 3.4 from older versions, the page reloads after the upgrade and clicking the top menu items may launch different pages.

Known Issues and Workarounds

Workaround: Clear the browser cache and launch CCP Express again. This is because top menu was rearranged and after the installation, the old file is present on the browser and does not fetch the new file.

■ CSCvd89987

Symptom: Safari browser does not do copy to clipboard, download of config and also allow user to enter data in certain fields.

Condition: Safari browser does not support every element currently used. Blob and Datalist are not supported.

Workaround: Datalist is used in few pages where the drop down has values and also allows user to enter any value. This option of entering values will not be available when using Safari. Also Copy to Clipboard and Download of config is not displayed in Safari. In case this support is required, user should use any other supported browser.

■ CSCve00039

Symptom: WAN interface shows status as down in IR800 after configuration using Quick Setup Wizard.

Condition: WAN interface status is retrieved from **show ip interface brief** and other supported commands. The application lists the status as read from the device configuration. This issue is not consistently reproducible.

Workaround: There is no workaround. The application depends on the IOS platform to provide the status.

■ CSCve00127

Symptom: Quick Setup Wizards provides an option for WiFi AP Config on the IR829 device, but doesn't actually configure the AP.

Condition: This happens when the BVI Interface is not configured.

Workaround: The user has to ensure that BVI IP address is configured before using Wizard WiFi configuration.

■ CSCvf44305

Symptom: 800 Series does not support some Transform Set combinations in VPN advanced configuration.

Condition: Some Transform Set combinations give error while doing VPN advanced configurations. The application lists only those transform sets which are available on the platform.

Workaround: Use discretion while choosing the transform sets. There is no other workaround for this issue.

■ CSCve48207

Symptom: Default configuration can cause a device lockout.

Condition: The default configuration contains a one-time user, which is removed if logged in via telnet.

Workaround: The default configuration leaves the console without any login credentials. In case of a lockout, the user can always use the console to gain access back to the device. To counter the connectivity issue, the new user is written to the device before the existing one-time user is cleared.

■ CSCve54553

Symptom: On the IR829 Dual-LTE, controller profile configuration results in unnecessary warning for modem-reset.

Condition: When pushing the controller configuration from Quick Setup Wizard, the device issues warnings even when the pushed configuration is the existing default.

Known Issues and Workarounds

Workaround: The fix for this is addressed in CCP Express defect CSCve52052 (Ambiguous instruction to reset modem leads to incomplete workflow). For every profile push, a modem reset is issued from CCP Express in the case of dual LTE. With this fix in the code, the issue of ambiguous instructions displayed to the user leading to configuration breakage is addressed.

■ CSCve61217

Symptom: IOX Device Manager does not launch on the IR809.

Condition: This is caused by a platform bug in IOS 15.6.3M1 release. When IOS is upgraded from 15.6.3M1 to latest 15.6.3M2 the Guest OS product_id is not getting updated with a valid ID and the 'caf' process stops running.

Workaround: To overcome this issue, follow these steps from the Guest OS console.

```
IR800-GOS-1:~# cp /etc/platform/product_id /software/caf/work/product_id
IR800-GOS-1:~# monit restart caf
```

Check CAF status by executing 'monit summary'. You should be see caf in a Running state.

After following the above steps, the device will be able to launch the IOX manager UI manually as well as from CCP_Express.

■ CSCve77908

Symptom: IR809 cellular interface configuration not working as expected.

Condition: Cellular interface profile changes are returning an error on an IR809 running on 15.6(3)M2 IOS. Additionally, the modem related information is returned as blank values.

Workaround: This platform issue for IR809 is addressed in IOS release 15.7. The user should upgrade to this latest version, subject to its availability.

■ CSCve87173

Symptom: WiFi configuration not getting pushed on LAN network change.

Condition: When a user changes the LAN network while using the Quick Setup Wizard, the WiFi configuration gets pushed to the AP. This is followed by a write memory which will save the configuration on the AP. Following this the BVI interface address is updated. But since the network change happened, the AP would not be reachable from 10.10.10.0 network. This means that the change to the BVI Interface IP address is pushed, but is not written to memory. And in case of a reboot or power failure after the day 0 configuration using Quick Setup Wizard, this IP Address change can be lost.

Workaround: In case of a LAN network change, user should login to the router using the new IP address, session in to AP and then issue a write memory. This will ensure that the changes to BVI interface is saved to memory in the AP

■ CSCve93346

Symptom: Performance issue on the IR800 series.

Condition: The IR800 could display slow performance if the Guest OS is consuming too many CPU resources.

Workaround: Refer to the software configuration guide in the IR800 documentation for examples of performance tuning. This should only be done under the recommendation of Cisco or an authorized partner. 4G performance may be impacted if changed without proper guidelines.

■ CSCve93356

Symptom: Application shows issues when using the Edge Browser. Many elements are not rendered correctly and the user is unable to proceed with actions.

Condition: Some features of the application are not working when using the Edge Browser as compared to other browsers.

Known Issues and Workarounds

Workaround: Use any of the following browsers: Chrome, Firefox, Safari (Mac only) and Internet Explorer 11 (Windows only).

■ CSCve93367

Symptom: On the IR809, when security is configured, IOX access via LAN may not work if the right configuration is not present.

Condition: When security is configured, zones come into effect. So if IOX configuration is done, both the IOX interface as well as the interface acting as the LAN interface should be present in the LAN zone for IOX LAN access to work.

Workaround: The application cannot check if the interface acting as the LAN interface is present in the LAN zone. The user should navigate to the Zones screen under the Security tab, and add the respective interface under Zone LAN. Once this is done, IOX access via LAN should help the user access the Device Manager.

■ CSCvf33726

Symptom: Upgrade of CCP Express fails in Edge Browser.

Condition: When using Edge for a CCP Express upgrade, the upgrade process fails. Sometimes this happens frequently. The options are to try again or use Chrome or Firefox browsers.

Workaround: There is no workaround for this in Edge.

■ CSCvf58395

Symptom: CPU Graph has a rendering delay when configuration radio options are clicked.

Condition: User launches Dashboard and clicks on CPU Dashlet link. The dashlet loads and displays the data in graph format. If you change the interval options, the graph takes a couple of seconds to load and display the data. This is due to the time taken to query the device and the time for the plugin to render the graph.

Workaround: There is no workaround for this.

■ CSCvf62728

Symptom: Modem details are not listed in CCP Express running on an IR807.

Condition: In IR807, modem details do not get listed. This is because IOS does not provide the modem details for the standard command.

Workaround: There is no workaround. You will have to check and upgrade to the version of IOS where the modem details are listed for IR807.

■ CSCvf68058

Symptom: Password entered in SNMP configuration is not fetched back by the application.

Condition: IOS does not display the password used in SNMP configuration via any supported command. Since the value cannot be fetched back from the device, this field cannot be populated.

Workaround: There is no workaround for this as this is purely from the IOS platform.

■ CSCvf76911

Symptom: Safari browser does not list the default ports shown as dropdown for TCP and UDP in extended ACL configuration.

Condition: Safari browser does not support data-list in HTML.

Resolved Issues

Workaround: There is no workaround in Safari.

- CSCvf78050

Symptom: CCP Express does not defend against CSRF attack.

Condition: CCP Express application can defend against CSRF attack only if the IOS HTTP server employs a usable solution to fix this issue.

Workaround: There is no workaround.

- CSCvh67125

Symptom: Enabling AVC is taking more than 45 seconds.

Condition: The implementation is native to IOS. The following CLI takes time to capture data, and it depends on the device response rate.

show ip nbar protocol-discovery [interface type number] [stats {byte-count | bit-rate | packet-count | max-bit-rate}] [protocol protocol-name | top-n number]

Workaround: Launch AVC once. The subsequent loadings should take less time.

- CSCvi41225

Symptom: When no SIM is present in USB LTE, the correct SIM status is not shown.

Condition: USB LTE does not support the SIM status commands available for normal cellular interfaces. The only way to capture the SIM status is via RSSI values. But the RSSI value does not change when the SIM is removed. For details check the platform defect: CSCvf67829.

Workaround: Do a modem-reset and wait for 3 to 5 minutes. Once the modem is reset successfully, the modem details and the RSSI values are reflected correctly.

- CSCvi43525

Symptom: Access to monitor screens for build extracted in folder under root requires additional login.

Condition: IOS platform requires that the home HTMLs are placed directly under flash:. When this is not the case, IOS authenticates twice. This is platform design.

Workaround: Install the CCP Express application under flash:. Or, provide the authentication, and save the credentials in your browser.

- CSCvi65481

Symptom: Enabling AVC on an IR device is not working.

Condition: Enabling AVC produces an error when configuring ip nbar http-services. The error is "% NBAR Error: corrupted binary." This is because nbar 1 is not supported on IR devices.

Workaround: There is no workaround for this as nbar1 is not supported on IR devices. The AVC feature is not accessible on IR devices to prevent users from attempting configuration.

Resolved Issues

This section contains the list of resolved issues in Cisco Configuration Professional Express Release 3.5.1:

- CSCvh68843—In the Test WAN Connection page, UI says cannot get IP from ISP even if the WAN connection is OK.
- CSCvh57474—User cannot enter same range for TCP and UDP ports in policy creation.

Related Documentation

Additional documentation available for the Cisco Configuration Professional Express are:

- [Cisco Configuration Professional Express Quickstart Guide](#)
- [Cisco Configuration Professional Express Administration Guide](#)

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Related Documentation