Release Notes for Cisco Intelligent Wide Area Network Application (Cisco IWAN App) Release 1.2.x

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Contents

These release notes provide a summary of the components in Cisco Intelligent Wide Area Network Application (Cisco IWAN App) Release 1.2.0.

This release notes contain the following sections:

Introduction

Cisco IWAN App (or the Cisco IWAN on APIC-EM) extends Software Defined Networking to the branch with an application-centric approach based on business policy and application rules. This provides IT centralized management with distributed enforcement across the network.

Cisco IWAN App automates and orchestrates Cisco IWAN deployments with an intuitive browser-based GUI. A new router can be provisioned in a matter of minutes without any knowledge of the Command Line Interface (CLI). Business priorities are translated into network policies based on Cisco best practices and validated designs. Cisco IWAN App dramatically reduces the time required for configuring advanced network services through the use of automation and simple, predefined workflows.

Cisco IWAN App offers a turnkey solution that allows IT to get out of the weeds of managing low-level semantics like VPN, QoS, optimization, ACL policies. Instead, IT can focus on the bigger picture, such as, aligning network resources with business priorities and delivering outstanding user experience that result in better business outcomes.

Cisco IWAN App includes the following features:

- Zero touch provisioning—Plug and play for remote devices without user intervention
- Simple workflows—Use case driven with step-by-step and site-to-site provisioning
- Business level policies—Rules drive network actions, abstraction of underlying policy configuration
- Network monitoring—Status, alerting of network issues

What's New in Cisco IWAN App Release 1.2.0

The following new features and functions are available in Cisco IWAN App Release 1.2.0:

- Support for Cisco Integrated Services Routers Generation 2 (ISR-G2) Series Routers (8xx, 39xx, 29xx,19xx) and Cisco 4000 Series Integrated Services Routers
- After you have provisioned the site (day N), you can:
  - Add or delete WAN clouds and service providers in any order
  - Connect hub devices to different service providers
- Improved usability by allowing you to select the LAN interface

Supported Cisco Platforms and Software Releases

Cisco IWAN supports the following Cisco router platforms and software releases.

Platform	Models	Software Release
Cisco 4000 Series Integrated Services Routers	4321 4331 4351 4431-X 4451-X	Cisco IOS XE 3.16.2S

Platform	Models	Software Release
Cisco ASR 1000 Series Aggregation Services Routers	ASR1001 ASR1001-X ASR1002 ASR1002-X ASR1004 ASR1006 ASR1013	Cisco IOS XE 3.16.2S
Cisco CSR 1000v Series Routers	Cloud Services Router 1000v	Cisco IOS XE 3.16.2S
Cisco Integrated Services Routers Generation 2 (ISR-G2) Series Routers	ISR 3945 ISR 3945-ISM ISR 3945-E ISR 3945E-ISM ISR 3925 ISR 3925-ISM ISR 3925E ISR 3925E-ISM ISR 2951 ISR 2951-ISM ISR 2921 ISR 2921-ISM ISR 2911 ISR 2911-ISM ISR 2901 ISR 2901-ISM ISR 1941 ISR 1941-ISM ISR 1921 ISR 1921-ISM ISR 892FSP	Cisco IOS 15.5(3)M2a

Limitations and Restrictions

When enabling the beta version of EasyQoS and Cisco IWAN App Release 1.1 on APIC-EM, you must adhere to the following:

- The network segments for each solution are disjoint. A device controlled by the IWAN solution cannot simultaneously be controlled by the EasyQoS solution. Application are of global scope across APIC-EM and as such, custom applications created in EasyQoS application may show up in the IWAN solution if applicable to the WAN solution.
- You must complete the following tasks on devices claimed by EasyQoS, to bring them in the IWAN workflow:
  - QoS policy tags should be removed prior to being claimed
  - The device must be cleaned of remaining EasyQoS policy or configuration and the device must brought to greenfield state.

Caveats

- Open Caveats in Cisco IWAN App Release 1.2.0, page 4
- Resolved Caveats in Cisco IWAN App Release 1.2.0, page 4

Open Caveats in Cisco IWAN App Release 1.2.0

Caveat ID Number	Headline
CSCuz35520	Top QoS class map statistics not showing branch sites QoS charts
CSCuz69701	HSRP Virtual IP should not be listed for device interface selection
CSCuz69721	Branch provision stuck in pending if the WAN link is not connected to DC
CSCuz70902	Page misalignment when adding new hidden columns to site status page
CSCuz72913	Audit log for a scheduled operation does not indicate an operation was scheduled

Resolved Caveats in Cisco IWAN App Release 1.2.0

All open bugs reported in previous releases of Cisco IWAN App Releases 1.x.x have been resolved, unless listed in the Open Caveats section.

System Requirements

The following sections describe the system requirements for Cisco IWAN App:

Hardware Requirements

Cisco IWAN App requires a server with the following capabilities/software:

- Server—64-bit x86
- CPU—6 (2.4GHz)
- RAM—64GB

  Note: For a multi-host hardware deployment (two or three hosts), 32GB RAM is sufficient for each host.
- Storage—500 Gigabytes or preferably 1 Terabyte HDD
- Network Adapter—1x
- 200 MBps Disk I/O speed

Software Requirements

For Cisco IWAN on APIC-EM, the following software is required on the server:

- Browser
  - Chrome (version 47.0 or higher)
  - Mozilla Firefox (version 44.0 or higher)

Firewall Requirements

If there is a firewall between the branch and the APIC-EM controller, please ensure that the following ports are open:

- Branch to the APIC-EM controller:
  - PKI—TCP 80
  - PNP—TCP 80, 443
  - NTP—UDP 123
- APIC-EM controller to branch:
  - SNMP—TCP and UDP ports: 161, 162
  - SSH—TCP 22
- Internet branch to hub routers:
  - GRE and IPsec—UDP 500, 4500, IP—50

Supported Hub Devices

- ASR 1000 Series
  - License—Image with licenses for Advanced IP Services or Advanced Enterprise Services

Supported Spoke Devices

- ISR 4000 Series
  - License—Appx and Security

Platforms and their Roles

- ASR 1001—Hub or dedicated master controller
- ASR 1001x—Hub or dedicated master controller
- ASR 1002—Dedicated master controller
- ASR 1002x—Hub or dedicated master controller
- ASR 1013—Hub or dedicated master controller
- ASR1004—Hub or dedicated master controller
- ASR1006—Hub or dedicated master controller
- CSR 1000v— Branch, dedicated master controller

- ISR 4321—Branch
- ISR 4331—Branch
- ISR 4351—Branch
- ISR 4431—Hub, branch, or dedicated master controller
- ISR 4451—Hub, branch, or dedicated master controller
- ISR G2 1941—Branch
- ISR G2 2921—Branch
- ISR G2 2951—Branch
- ISR G2 2951-ISM—Branch
- ISR G2 3925—Branch
- ISR G2 3925-E—Branch
- ISR G2 3925-ISM—Branch
- ISR G2 3945—Branch
- ISR G2 3945-E—Branch
- ISR G2 3945-ISM—Branch
- ISR G2 892-FSP—Branch

NetFlow Collectors

NetFlow collector provides Application Visibility. The two supported NetFlow collectors for Cisco IWAN App are: Cisco Prime and LiveAction.

Cisco Prime Infrastructure Release 3.1 beta version is supported by Cisco IWAN App. See Related Documentation, page 6.

LiveAction version 4.1.2 or higher is supported by Cisco IWAN. See http://www.liveaction.com.

Related Documentation

Documentation	Description
Cisco Application Policy Infrastructure Controller Enterprise Module Deployment Guide	Information about the underlying Cisco APIC-EM product including deployment steps, verification, and troubleshooting.
Cisco IWAN Technology Design Guides	Cisco IWAN designs are explained in the Cisco IWAN technology design guides. Look for the guides in the Cisco Validated Designs (CVDs) at http://www.cisco.com/c/en/us/solutions/enterprise/design-zone-branch-wan/cvd_ent_wan.html
Cisco Open Plug-n-Play Agent Configuration Guide	PnP Agent documentation for Cisco IOS XE.
Cisco Prime Infrastructure 3.1	Refer to this guide for information about Cisco Prime Infrastructure, which can be used to configure Cisco IWAN.

Documentation	Description
Cisco Secure Network Plug and Play Solution Guide	Overview of the Plug and Play solution, component descriptions, summary of major use cases, and basic deployment requirements, guidelines, limitations, prerequisites, and troubleshooting tips.
Configuration Guide for Cisco IWAN on APIC-EM	Information about the installation, deployment, configuration of Cisco IWAN on APIC-EM. Explains the Cisco IWAN GUI and how to manage connected devices and hosts within your network.
Configuration Guide for Network Plug and Play on APIC-EM	Documents the PnP server application in the APIC-EM.
Live Action	Documentation on LiveAction software.
Release Notes for Cisco Network Plug and Play	Description of the features and caveats for Cisco Network Plug and Play.
Release Notes for the Cisco Application Policy Infrastructure Controller Enterprise Module	Description of the features and caveats for the Cisco Application Policy Infrastructure Controller Enterprise Module (Cisco APIC-EM).

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*.

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Related Documentation