



# Release Notes for Cisco Intelligent Wide Area Network Application (Cisco IWAN App) Release 1.1.x

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These release notes provide a summary of the components in Cisco Intelligent Wide Area Network Application (Cisco IWAN App) Release 1.1.0.

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- [Limitations and Restrictions, page 3](#)
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## 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.

## What's New in Cisco IWAN App Release 1.1.0

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 1.1.0

The following new features and functions are available in Cisco IWAN App Release 1.1.0:

- Day-N addition and deletion of POP for datacenters
- Day 0 multilink support (more than two links) for hub sites
- Improved usability:
  - Autopopulating WAN interface information
  - Autopopulating OSPF LAN information
- Enable spoke provisioning with multiple interface
- Support for static IP address support in spokes for internet links
- Enhanced user experience through enhanced dashboard that displays provisioning and monitoring status, application experience and configuration differences.
 

**Note:** Cisco Prime Infrastructure Release 3.1 beta version is required for this feature.
- Support for coexistence of non-IWAN sites with IWAN sites

## Supported Cisco Platforms and Software Releases

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

**Table 1 Supported Cisco Platforms**

Platform	Models	Software Release
Cisco 4000 Series Integrated Services Routers	4321 4331 4351 4431-X 4451-X	3.16.2
Cisco ASR 1000 Series Aggregation Services Routers	ASR1001 ASR1001-X ASR1002 ASR1002-X ASR1004 ASR1006 ASR1013	3.16.2

## 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

- [Resolved Caveats in Cisco IWAN App Release 1.1.0, page 3](#)
- [Open Caveats in Cisco IWAN App Release 1.1.0, page 4](#)
- [Resolved Caveats in Cisco IWAN App Release 1.1.1, page 4](#)
- [Open Caveats in Cisco IWAN App Release 1.1.1, page 4](#)
- [Resolved Caveats in Cisco IWAN App Release 1.1.2, page 5](#)
- [Open Caveats in Cisco IWAN App Release 1.1.2, page 5](#)

## Resolved Caveats in Cisco IWAN App Release 1.1.0

Caveat ID Number	Headline
CSCur64384	IP over DHCP failed when dynamically change from static to DHCP IP
CSCuv55815	Hub interface IP address shows "0.0.0.0" if DHCP is used for the interface
CSCuw47222	Spoke provision stuck "In Progress" with IP addr ends with 0 and 255
CSCuw76841	Spoke provisioning stuck in "In Progress" when hub updates is on going
CSCuw95257	APIC-EM :: UI :: Failed to Load Data under IWAN system tools-- > Logs
CSCux07447	Spoke not updated with the image uploaded during network setting update
CSCux14151	Hub Recovery fails when PKI trust point not present
CSCux14501	Special characters '?' and '<' are not allowed for spoke VLAN Types
CSCux18098	UI should block invalid domain name for Network Settings
CSCux21315	Spoke stuck in progress state, log shows failed to assign IP pool
CSCux28174	Branch provision failed due to IP address unavailable in global IP pools

## Caveats

## Open Caveats in Cisco IWAN App Release 1.1.0

Caveat ID Number	Headline
CSCuv27991	Unable to delete match tag CLI after deleting transit POP
CSCuv37342	Syslog server IP keeps in router config after removed it from UI
CSCuy22387	Slow spoke provisioning with more sites in scale
CSCuy40235	Auto Populate of WAN IP is not always working for MPLS WAN interfaces
CSCuy42047	Audit Log always shows 500 as a count if there are more than 500 entries
CSCuy43669	DNS Server IP in spoke VLAN not being updated if Site Specific IP used
CSCuy43833	Spoke VLAN should not be mandatory for site specific IP pool creation
CSCuy45965	Proposed IP Range pop-up should not restrict number of VLANs to 4
CSCuy48471	BGP as Hub LAN routing not officially supported in IWAN solution
CSCuy49870	UI should not allow same cloud if user already selected for spoke
CSCuy50279	Spoke provision failed with error: IP [x.x.x.x]:Could not parse []
CSCuy51905	Site provision failed with inventory error with SNMP v3 configured
CSCuy52589	Custom app creation fails after upgrade from CA3 to GA+1
CSCuy48255	Incorrect ACL for Asymmetric Routing on spokes with no VLANs

## Resolved Caveats in Cisco IWAN App Release 1.1.1

Caveat ID Number	Headline
CSCuv27991	Unable to delete match tag CLI after deleting transit POP
CSCuy22387	Slow spoke provisioning with more sites in scale
CSCuy40235	Auto Populate of WAN IP is not always working for MPLS WAN interfaces
CSCuy45965	Proposed IP Range pop-up should not restrict number of VLANs to 4
CSCuy49870	UI should not allow same cloud if user already selected for spoke
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## Open Caveats in Cisco IWAN App Release 1.1.1

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CSCuv37342	Syslog server IP keeps in router config after removed it from UI
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CSCuy43833	Spoke VLAN should not be mandatory for site specific IP pool creation
CSCuy48255	Incorrect ACL for Asymmetric Routing on spokes with no VLANs
CSCuy48471	BGP as Hub LAN routing not officially supported in IWAN solution
CSCuy50279	Spoke provision failed with error: IP [x.x.x.x]:Could not parse []
CSCuy52097	Spoke Provisioning failed with Insufficient IP address
CSCuy52589	Custom app creation fails after upgrade from CA3 to GA+1
CSCuy56445	UI should warn the user of preferred POP change after delete transit POP

## System Requirements

Caveat ID Number	Headline
CSCuy60601	Delete operation not bringing back the device to Unclaimed state
CSCuy72119	Hub Site FAILED after moved DSCP-based app to other category
CSCuy75709	Upgrading the setup in GUI configures the SS pools as LAN IP pool
CSCuy90388	Site Specific (SS) pool VLAN info shown for non-SS pool spoke deployment

## Resolved Caveats in Cisco IWAN App Release 1.1.2

Caveat ID Number	Headline
CSCuy43833	Spoke VLAN should not be mandatory for site specific IP pool creation
CSCuy48255	Incorrect ACL for Asymmetric Routing on spokes with no VLANs
CSCuy52589	Custom app creation fails after upgrade from CA3 to GA+1

## Open Caveats in Cisco IWAN App Release 1.1.2

Caveat ID Number	Headline
CSCuv37342	Syslog server IP keeps in router config after removed it from UI
CSCuw52254	Support adding site specific IP pools for sites with VLANs disabled
CSCuy37342	Syslog server IP keeps in router config after removed it from UI
CSCuy42047	Audit Log always shows 500 as a count if there are more than 500 entries
CSCuy43669	DNS Server IP in spoke VLAN not being updated if Site Specific IP used
CSCuy43833	Spoke VLAN should not be mandatory for site specific IP pool creation
CSCuy48255	Incorrect ACL for Asymmetric Routing on spokes with no VLANs
CSCuy48471	BGP as Hub LAN routing not officially supported in IWAN solution
CSCuy50279	Spoke provision failed with error: IP [x.x.x.x]:Could not parse []
CSCuy52097	Spoke Provisioning failed with Insufficient IP address
CSCuy52589	Custom app creation fails after upgrade from CA3 to GA+1
CSCuy56445	UI should warn the user of preferred POP change after delete transit POP
CSCuy60601	Delete operation not bringing back the device to Unclaimed state
CSCuy72119	Hub Site FAILED after moved DSCP-based app to other category
CSCuy75709	Upgrading the setup in GUI configures the SS pools as LAN IP pool
CSCuy90388	Site Specific (SS) pool VLAN info shown for non-SS pool spoke deployment
CSCuz14208	Unable to connect to Prime, when the Appl status is clicked for site
CSCuz15602	dbase warning mssg when the user clicks on Appl from Application table

## System Requirements

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

- [Hardware Requirements, page 6](#)

## System Requirements

- [Software Requirements, page 6](#)
- [Firewall Requirements, page 6](#)
- [Supported Multi-Center Devices, page 7](#)
- [Supported Spoke Devices, page 7](#)
- [Platforms and their Roles, page 7](#)
- [NetFlow Collectors, page 7](#)

## 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

## System Requirements

### Supported Multi-Center 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 1002–Dedicated master controller
- ASR 1001x–Hub or dedicated master controller
- ASR 1002x–Hub or dedicated master controller
- ASR1006–Hub or dedicated master controller
- ASR1004–Hub or dedicated master controller
- ISR 4451–Hub, branch, or dedicated master controller
- ISR 4431–Hub, branch, or dedicated master controller
- ISR 4351–Branch
- ISR 4331–Branch
- ISR4321–Branch
- CSR– Dedicated master controller
- ASR 1013 –Hub or dedicated master controller
- ASR 1001–Hub or dedicated master controller

### 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 8](#).

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 <a href="http://www.cisco.com/c/en/us/solutions/enterprise/design-zone-branch-wan/cvd_ent_wan.html">http://www.cisco.com/c/en/us/solutions/enterprise/design-zone-branch-wan/cvd_ent_wan.html</a>
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.
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.
<a href="#">Live Action</a>	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](#).

To receive new and revised Cisco technical content directly to your desktop, you can subscribe to the [What's New in Cisco Product Documentation RSS feed](#). The RSS feeds are a free service.

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