Release Notes for Cisco Intelligent Wide Area Network Application (Cisco IWAN App) Release 1.0.2

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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 1.0.2.

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

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 46.0 or higher)

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 multi-center

- ASR 1001x—Hub or dedicated multi-center

- ASR 1002x—Hub or dedicated multi-center

- ASR1006—Hub or dedicated multi-center

- ASR1004—Hub or dedicated multi-center

- ISR 4451—Hub, branch, or dedicated multi-center

- ISR 4431—Hub, branch, or dedicated multi-center

- ISR 4351—Branch

- ISR 4331—Branch

- ISR4321—Branch

- CSR— Dedicated multi-center

- ASR 1013 —Hub or dedicated multi-center

- ASR 1001—Hub or dedicated multi-center

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 3.0 or higher is supported by Cisco IWAN App. See Related Documentation, page 5.

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

Supported Cisco Platforms and Software Releases

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

Table 1   Supported Cisco Routers

Platform	Models	Software Release
Cisco 4000 Series Integrated Services Routers	4321 4331 4351 4431–X 4451–X	3.16.1aS (ED)
Cisco ASR 1000 Series Aggregation Services Routers	ASR1001 ASR1001–X ASR1002 ASR1002–X ASR1004 ASR1006 ASR1013	3.16.1aS (ED)

Limitations and Restrictions

- Service updates are not supported.

- IWAN interaction with Plug and Play (PnP) for handling unclaimed device may not work as expected on very slow WAN links.

- IP Prefix auto-learning identifies direct connected routes only, and does not recognize and subnets behind the core device.

- Spoke sites behind Network Address Translation (NAT) is not supported.

- A colocated Performance Routing (PFR) Master Controller (MC), integrated with a hub border router is supported in Proof of Concept (POC) or test environments only. The supported configuration for a real time environment is separate hosts—Cisco ASR 1000 Series Aggregation Services Routers or Cisco Cloud Services Router (CSR) 1000V Series—acting as MC. A colocated MC hub topology enabled for a POC or test environment will not be upgraded to a real time environment and a new Cisco IWAN App instance must be created for the real time environment.

Caveats

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Resolved Caveats in IWAN Release 1.0.2

Caveat ID Number	Headline
CSCuw85420	UI should capture the duplicate VLAN type in branch provisioning
CSCuw88712	Branch provisioning failed with Site IP VLAN pool of /30 prefix length
CSCuw90220	Network in routing table not learnt during DC prefix learning
CSCuw96886	Spoke site re-provisioning fails with site specific pool defined
CSCuw98023	Branch Provision failed due to IP address unavailable in Generic IP pool
CSCux13816	Need support for spokes with suite level license: FoundationSuiteK9
CSCux18154	UI should block Single Router Dual Link topology for ISR4321 provision

Open Caveats in IWAN Release 1.0.2

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

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 3.0	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.

Documentation	Description
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*.

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.