Cisco IWAN Application on DNA Center Release Notes, Releases 1.1 Patch 1 and 1.1.2, Limited Availability

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These release notes provide a summary of the components in Cisco Intelligent Wide Area Network Application (Cisco IWAN app) on DNA Center, for releases:

- 1.1 Patch 1, Limited Availability.

- 1.1.2, Limited Availability

The Cisco Digital Network Architecture (DNA) Center, Release 1.1 Patch 1 introduces Cisco Intelligent WAN application (IWAN app) as an optional package that operates as a component of DNA Center. Previously, Cisco IWAN app has been available as a tool within Cisco Application Policy Infrastructure Controller Enterprise Module (APIC-EM).

Operating within Cisco DNA Center, the IWAN app 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.

The 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. The IWAN app dramatically reduces the time required for configuring advanced network services through the use of automation and simple, predefined workflows.

The IWAN app offers a turnkey solution that enables IT to get out of the weeds of managing low-level semantics, such as 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.

The 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

Supported Cisco Platforms and Software Releases

Platform	Models	Software Release
Cisco 4000 Series Integrated Services Routers	ISR 4221 ISR 4321 ISR 4331 ISR 4351 ISR 4431 ISR 4451-X	Cisco IOS XE Everest 16.6.1 Cisco IOS XE Everest 16.6.2 [1]
Cisco ASR 1000 Series Aggregation Services Routers	ASR1001 ASR 1001-X ASR 1001-HX ASR 1002 ASR 1002-X ASR 1002-HX ASR 1004 ASR 1006 ASR 1006-X	Cisco IOS XE Everest 16.6.1 Cisco IOS XE Everest 16.6.2
Virtual Routers	Cloud Services Router 1000V ENCS 5400 (ISRv)	Cisco IOS XE Everest 16.6.1 Cisco IOS XE Everest 16.6.2

Platform	Models	Software Release
Cisco Integrated Services Routers Generation 2 (ISR-G2) Series Routers—800 Series	C891-24X-K9 C891F-K9 C891FW-A-K9 C891FW-E-K9 C892-FSP-K9 C896VAG-LTE-GA-K9 C896VA-K9 C897VAB-K9 C897VAG-LTE-GA-K9 C897VAG-LTE-LA-K9 C897VAGW-LTE-GAEK9 C897VA-K9 C897VAMG-LTE-GA-K9 C897VA-M-K9 C897VAM-W-E-K9 C897VAW-A-K9 C897VAW-E-K9 C898EAG-LTE-GA-K9 C898EAG-LTE-LA-K9 C898EA-K9 C899G-LTE-GA-K9 C899G-LTE-JP-K9 C899G-LTE-LA-K9 C899G-LTE-NA-K9 C899G-LTE-ST-K9 C899G-LTE-VZ-K9	Cisco IOS 15.7(3)M
Cisco Integrated Services Routers Generation 2 (ISR-G2) Series Routers—1900 Series	ISR 1921 ISR 1941	Cisco IOS 15.7(3)M
Cisco Integrated Services Routers Generation 2 (ISR-G2) Series Routers—2900 Series	ISR 2901 ISR 2911 ISR 2921 ISR 2951	Cisco IOS 15.7(3)M

Platform	Models	Software Release
Cisco Integrated Services Routers Generation 2 (ISR-G2) Series Routers—3900 Series	ISR 3925 ISR 3925E ISR 3945 ISR 3945-E	Cisco IOS 15.7(3)M

[1] Applies to Cisco ISR 4221 Router

Limitations and Restrictions

Installation Notes and Limitations

Issue	Details
Not compatible with the Policy package	Do not install the IWAN App together with the Automation Application Policy package.
Not compatible with Cisco SDA	Do not install the IWAN App together with Cisco Software-Defined Access (SDA).

Caveats

Open Caveats in Cisco IWAN App on DNA Center, Releases 1.1 Patch 1 and 1.1.2

Table 1: Open Caveats: IWAN App on DNA Center 1.1.2

Caveat ID Number	Description
CSCvg96693	IWAN APP flow with ENCS, Inventory using Mgmt IP instead of WAN IP for discovery
CSCvg97912	Delete claimed devices from DNA Provision page didn't remove the same device from PNP devices
CSCvg97757	DNAC1.1: DHCP and Dialer interface support under NFV workflows Router WAN configuration
CSCvh21906	DNA-C/IWAN Build 2.1.1.260206: FQDN not allowed for NTP/Syslog and other global settings
CSCvh17570	Provisioned iwan device can be assigned to a new site on DNAC provision page
CSCvh21864	DNA-C/IWAN Build 2.1.1.260206: SWIM error "Workflow Distribute Image failed" seen for HUB BR
CSCvh18418	DNAC IWAN: NWS mismatch on DayN
CSCvh06254	DNAC IWAN: BF validation fails for ISR4K+UCSE provisioned devices

Caveat ID Number	Description
CSCvh15958	Device validation status not update in back end when device validation in progress
CSCvh20890	DNAC IWAN: Provisioned Branch devices are not marked "Success" Under DNAC provision status
CSCvg85836	DNA-C 1.1: Make DHCP Server non-mandatory for IWAN workflow
CSCvg85856	DNA-C 1.1 IWAN App integration with Live Action issues

Table 2: Open Caveats: IWAN App on DNA Center 1.1 Patch 1

Caveat ID Number	Description
CSCvh26117	Day-N MTT link add failed on Transit HUB
CSCvh26103	Greenfield SR3L-SPOKE deployment failure due to wrong PKCS URL
CSCvg96693	IWAN APP flow with ENCS, Inventory using Mgmt IP instead of WAN IP for discovery
CSCvg97912	Delete claimed devices from DNA Provision page didn't remove the same device from PNP devices
CSCvg97757	DNAC1.1: DHCP and Dialer interface support under NFV workflows Router WAN configuration
CSCvh21906	DNA-C/IWAN Build 2.1.1.260206: FQDN not allowed for NTP/Syslog and other global settings
CSCvh17570	Provisioned iwan device can be assigned to a new site on DNAC provision page
CSCvh21864	DNA-C/IWAN Build 2.1.1.260206: SWIM error "Workflow Distribute Image failed" seen for HUB BR
CSCvh18418	DNAC IWAN: NWS mismatch on DayN
CSCvh06254	DNAC IWAN: BF validation fails for ISR4K+UCSE provisioned devices
CSCvh15958	Device validation status not update in back end when device validation in progress
CSCvh20890	DNAC IWAN: Provisioned Branch devices are not marked "Success" Under DNAC provision status
CSCvg85836	DNA-C 1.1: Make DHCP Server non-mandatory for IWAN workflow
CSCvg85856	DNA-C 1.1 IWAN App integration with Live Action issues

System Requirements

Software Requirements for Cisco IWAN App on DNA Center

The following software is required on the server for Cisco IWAN App on DNA Center:

- Browser

  - Chrome (version 50.0 or higher)

  - Mozilla Firefox (version 46.0 or higher)

Cisco IWAN App Software Compatibility

Compatible and recommended software versions for operating the IWAN app on DNA Center:

Cisco IWAN App	OS on ASR1000 Series, ISR4000 Series, and CSR1000V Series Routers	OS on ISR-G2 Series Routers	Protocol Pack	Cisco DNA Center
2.1.2.x	Cisco IOS XE Everest 16.6.1 Cisco IOS XE Everest 16.6.2 (Cisco ISR 4221 Router & Cisco ISR 1100 Series Routers)	15.7(3)M	32.0.0	Release 1.1.2 Release 1.1 Patch 1
2.1.1.x	Cisco IOS XE Everest 16.6.1 Cisco IOS XE Everest 16.6.2 (Cisco ISR 4221 Router & Cisco ISR 1100 Series Routers)	15.7(3)M	32.0.0	Release 1.1 Patch 1

Firewall Requirements

If there is a firewall between the branch and DNA Center, please ensure that the following ports are open:

- Branch to DNA Center:

  - PKI—TCP 80

  - PNP—TCP 80, 443

  - NTP—UDP 123

- DNA Center 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 — Required License

See Platforms and their Roles for details per model.

- ASR 1000 Series

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

- ISR 4451 and 4431

• License—Appx and Security

The following is a sample configuration that shows how to enable IPsec license and accept the End User License Agreement (EULA) on Cisco ASR 1000 Series Aggregation Services Routers.

```
Router(config)# crypto ipsec profile TEST
Router(ipsec-profile)# exit
Router(config)# interface tunnel 123
Router(config-if)# tunnel protection ipsec profile TEST
```

Note The configuration must be removed after the EULA is accepted.

Supported Spoke Devices — Required License

See Platforms and their Roles for details per model.

• ASR 1000 Series

• License—Advanced IP Services or Advanced Enterprise Services

• CSR1000v Series

• License—AX throughput

• ISR 4000 Series

• License—Appx and Security

• ISR G2 Series

• License—Advanced IP Services (for ISR G2 892-FSP), Data, and Security

Platforms and their Roles

• ASR 1001—Hub, branch, or dedicated master controller

• ASR 1001-X—Hub, branch, or dedicated master controller

• ASR 1001-HX Router—Branch

• ASR 1002—Branch or dedicated master controller

• ASR 1002-X—Hub, branch, or dedicated master controller

• ASR 1002-HX Router—Hub and branch

• ASR1004—Hub or dedicated master controller

• ASR1006—Hub or dedicated master controller

• ASR1006-X—Hub or dedicated master controller

• CSR 1000v—Branch or dedicated master controller

• ENCS 5400 (ISRv)—Branch

- ISR 4451-X—Hub, branch, or dedicated master controller

- ISR 4221—Branch

- ISR 4321—Branch

- ISR 4331—Branch

- ISR 4351—Branch

- ISR 4431—Branch

- ISRv 5406—Branch

- ISRv 5408—Branch

- ISRv 5412—Branch

- C891-24X-K9—Branch

- C891F-K9—Branch

- C891FW-A-K9—Branch

- C891FW-E-K9—Branch

- C892FSP-K9—Branch

- C896VAG-LTE-GA-K9—Branch

- C896VA-K9—Branch

- C897VAB-K9—Branch

- C897VA-K9—Branch

- C897VAG-LTE-GA-K9—Branch

- C897VAG-LTE-LA-K9—Branch

- C897VAGW-LTE-GAEK9—Branch

- C897VAMG-LTE-GA-K9—Branch

- C897VA-M-K9—Branch

- C897VAM-W-E-K9—Branch

- C897VAW-A-K9—Branch

- C897VAW-E-K9—Branch

- C898-EA-K9—Branch

- C898EAG-LTE-GA-K9—Branch

- C898EAG-LTE-LA-K9—Branch

- C899G-LTE-GA-K9—Branch

- C899G-LTE-JP-K9—Branch

- C899G-LTE-LA-K9—Branch

- C899G-LTE-NA-K9—Branch

- C899G-LTE-ST-K9—Branch

- C899G-LTE-VZ-K9—Branch

- ISR 1921—Branch

- ISR 1941—Branch

- ISR 2901—Branch

- ISR 2911—Branch

- ISR 2921—Branch

- ISR 2951—Branch

- ISR 3925—Branch

- ISR 3925E—Branch

- ISR 3945—Branch

- ISR 3945-E—Branch

Related Documentation

Documentation	Description
Cisco IWAN Application on DNA Center Quick Start Guide, Release 2.2	Information about installation, deployment,configuration of Cisco IWAN on DNAC. Explains the Cisco IWAN GUI and how to manage connected devices and hosts within your network.
Cisco Digital Network Architecture Center Appliance Installation Guides	Installation and configuration of DNA Center, including post-installation tasks.
Cisco Digital Network Architecture Center Administrator Guides	Configuration of user accounts, RBAC scope, security certificates, authentication and password policies, and global discovery settings. Monitoring and managing DNA Center services. Backup and restore procedures.
Cisco Digital Network Architecture Center User Guides	Introduction to the DNA Center GUI and its applications.
Release Notes for Cisco Digital Network Architecture Center	Release information, including new features, system requirements, and open and resolved caveats.
Cisco IWAN Technology Design Guides	Cisco IWAN designs are explained in the Cisco IWAN technology design guides.
Configuration Guide for Cisco Network Plug and Play on Cisco APIC-EM	Information about Cisco Network Plug and Play solution.

Documentation	Description
Solution Guide for Cisco Network Plug and Play	Overview of the Plug and Play solution, component descriptions, summary of major use cases, and basic deployment requirements, guidelines, limitations, prerequisites, and troubleshooting tips.
Cisco IWAN Application on APIC-EM User Guide, Release 1.6.0	The user guide for the previous version of the IWAN app, running as part of Cisco APIC-EM, offers in-depth information about IWAN app functionality.

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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