Release Notes for Cisco Catalyst IR1101, IR1800, IR8140, and IR8340 Routers, IOS XE 17.18.x

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Cisco Catalyst Rugged Series Routers, IOS XE 17.18.x

Cisco IOS XE 17.18.x introduces new features for Cisco Catalyst Rugged Series Routers, IOS XE 17.18.x. Key features include network slicing, H-VPLS, common HSEC license, Cisco ThousandEyes Enterprise Agent support, networking and interface capabilities using IRM-1100-4S8I Expansion Module for IR1101 routers, support for jumbo frames on the IRM-1100-4S8I Expansion Module, IP Device Tracking on routers, and VRF for the P-LTE-450 module.

New software features

This section provides a brief description of the new software features introduced in this release.

IOS XE 17.18.4

There are no new features introduced in 17.18.4 release.

IOS XE 17.18.3

There are no features introduced in 17.18.3 release.

IOS XE 17.18.2

Table 1. New software features for Cisco Catalyst Rugged Series Routers, IOS XE 17.18.2

Product Impact	Feature	Description
Security	Resilient Infrastructure	Starting with the Cisco IOS XE 17.18.2 release and in future releases, Cisco software will display warning messages when configuring features or protocols that do not provide sufficient security such as those transmitting sensitive data without encryption or using outdated encryption mechanisms. Warnings will also appear when security best practices are not followed, along with suggestions for secure alternatives. This list is subject to change, but the following is a list of features and protocols that are planned to generate warnings in releases beyond the version Cisco IOS XE 17.18.1. Release notes for each release will describe exact changes for that release: • **Plain-text and weak credential storage**: Type 0 (plain text), 5 (MD5), or 7 (Vigenère cipher) in configuration files. Recommendation: Use Type 6 (AES) for reversible credentials, and Type 8 (PBKDF2-SHA-256) or Type 9 (Scrypt) for non-reversible credentials. • **SSHv1** Recommendation: Use SSHv2. • **SNMPv1 and SNMPv2, or SNMPv3 without authentication and encryption** Recommendation: Use SNMPv3 with authentication and encryption (authPriv). • **MD5 (authentication) and 3DES (encryption) in SNMPv3** Recommendation: Use SHA1 or, preferably, SHA2 for authentication, and AES for encryption. • **IP source routing based on IP header options** Recommendation: Do not use this legacy feature. • **TLS 1.0 and TLS 1.1** Recommendation: Use TLS 1.2 or later.

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Product Impact	Feature	Description
		• **TLS ciphers using SHA1 for digital signatures** Recommendation: Use ciphers with SHA256 or stronger digital signatures. • **HTTP** Recommendation: Use HTTPS. • **Telnet** Recommendation: Use SSH for remote access. • **FTP and TFTP** Recommendation: Use SFTP or HTTPS for file transfers. • **On-Demand Routing (ODR)** Recommendation: Use a standard routing protocol in place of CDP-based routing information exchange. • **BootP server** Recommendation: Use DHCP or secure boot features such as Secure ZTP. • **TCP and UDP small servers (echo, chargen, discard, daytime)** Recommendation: Do not use these services on network devices. • **IP finger** Recommendation: Do not use this protocol on network devices. • **NTP control messages** Recommendation: Do not use this feature. • **TACACS+ using pre-shared keys and MD5** Recommendation: Use TACACS+ over TLS 1.3, introduced in release Cisco IOS XE 17.18.1.
Greater Control	H-VPLS	You can now use the H-VPLS N-PE Redundancy feature to enable two network provider edge (N-PE) devices to provide failover services to a user provider edge (U-PE) device in a hierarchical virtual private LAN service (H-VPLS). Having redundant N-PE devices provides improved stability and reliability against link and node failures. Supported device: IR1101
Greater Control	Network Slicing	You can now use network slicing to partition a 5G standalone physical network into multiple virtual slices, each tailored to specific service requirements. Service providers can create several simultaneous network connections—each with a dedicated IP address and resources—ensuring optimal performance and efficiency for different service types. Supported devices: IR1101 and IR1800
Better visibility	SI Support on IR1101 WAN ports including expansion modules	You can now use the existing Service Instance feature—previously limited to configuring IOS XE Carrier Ethernet infrastructure via Ethernet Virtual Connections (EVCs) on VLAN/SVI interfaces—to support IR1101 router's WAN interfaces on these modules in Layer 3 mode only: • G0/0/0 on base module

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Product Impact	Feature	Description
		• G0/0/5 on IRM-1100-SP module • G0/0/5 - G0/0/8 on IRM-1100-4S8I module This enhancement allows GigabitEthernet WAN ports on the IR1101 router to function as Service Instances, enabling Layer 2 extension use cases (such as L2VPN technologies). Each service is instantiated with a different service-instance, and the VLAN becomes locally significant, allowing for better scalability. Supported devices: IR1101
Ease of Use	Common HSEC License	You can now manage HSEC licenses for your IR platforms using the same common DNA HSEC entitlement as Enterprise Network (EN) platforms with the Common HSEC License feature. Previously, Cisco Industrial Routers used device-specific HSEC licenses, which prevented direct installation and management through Cisco SD-WAN (vManage). This enhancement streamlines license management for your IR devices within an SD-WAN environment. Supported devices: IR1101, IR1800, IR8140, IR8340
Enhanced visibility	ThousandEyes support	You can now use the Cisco ThousandEyes Enterprise Agent to view end-to-end paths across networks and services affecting your business. It actively monitors network traffic paths across internal, external, and internet networks, helping you analyze network performance and application availability. **Note:** For more information on onboarding Cisco ThousandEyes agent, see Onboard Cisco ThousandEyes Enterprise Agent on SD-Routing Devices, Release 17.18.x Supported devices: IR1101, IR1800, IR8140, IR8340

IOS XE 17.18.1a

Table 2. New software features for Cisco Catalyst Rugged Series Routers, IOS XE 17.18.1a

Product Impact	Feature	Description
Ease of Use	IRM-1100-4S8I Expansion Module	You can now enhance your IR1101 router's networking capabilities by enabling additional connectivity and I/O options with the newly introduced the IRM-1100-4S8I Expansion Module. This module adds four SFP ports and eight Digital I/O connections, providing greater flexibility for your network deployments. Supported device: IR1101
Ease of Use	Support for jumbo frames	You can now improve your network efficiency and optimize bandwidth usage by enabling support for jumbo frames on the IRM-1100-4S8I Expansion Module. This feature allows MTU sizes of up to 9216 bytes, facilitating larger data transfers and reducing overhead. Supported device: IR1101
Software Reliability	IP Device Tracking on routers	You can now enhance your network security and monitoring capabilities by enabling IP Device Tracking with SISF support on LAN ports. This allows for comprehensive IPv4 device monitoring and improved security posture through integrated device tracking. Supported devices: IR1101 and IR1800

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Product Impact	Feature	Description
Ease of Use	VRF for the P-LTE-450 module	You can now enable VRF to provision LTE450 parameters through the LTE450 management interface. You can also enable VRF on 450 PIM management interface to enable HTTP request from router to the webserver of P-LTE-450 and get response from the webserver of P-LTE-450. VRF is used for both management and LTE450 traffic segregation. It enables provisioning of LTE450 parameters through the management interface. Supported devices: IR1101 and IR1800 (For IR1800, P-LTE-450 is supported only on slot 0/4.)
Ease of Use	Product Analytics	Cisco IOS XE Product Analytics collects device Systems Information for the purposes of understanding product usage, enabling product improvements and product development, and assisting in product adoption and sales support. Only summarized data of feature usage and statistical counters of configuration are collected. No personal identifiable information, such as MAC/IP addresses, usernames, custom configuration names, or user provided strings, are collected as part of Cisco IOS XE Product Analytics. Cisco processes this data following the General Terms the Cisco Privacy Statement, and any other applicable agreement with Cisco. See Cisco Enterprise Networking Product Analytics Frequently Asked Questions.
Ease of Use	Inline Tagging on switch interfaces	You can now implement CTS Inline Tagging to enable end-to-end Cisco TrustSec architecture without the complexity and scalability challenges of SXP peering, ensuring that the CMD header in Ethernet frames is carried through to the network security enforcement point. Supported devices: IR1101 and IR1800
Ease of Use	Ignition Power management	From Cisco IOS XE 17.18.1a release, Ignition Power Management is supported for Catalyst IR1800 Rugged Series Routers, which delivers intelligent power management to SD-Routing devices in vehicle deployments. This feature keeps the router powered and connected when the vehicle's engine is running and automatically shuts it down to prevent battery drain when the ignition is off. You can easily set how long the router stays powered after the engine stops, thereby ensuring continuous connectivity when needed and efficient battery use when the vehicle is parked. Supported devices: IR1800
Ease of Use	Raw Socket transport	Raw Socket transport is a method to stream characters from one serial interface to another over an IP network using TCP or UDP as the encapsulation method. Raw sockets allow applications to bypass the standard TCP/IP stack and interact directly with the network layer (Layer 3) and the data link layer (Layer 2), therefore helping network traffic to be analyzed at a granular level. In Cisco IOS XE Release 17.18.1a, you can configure Raw Socket transport using Feature Parcels in Cisco SD-WAN Manager without configuring and managing multiple commands. Supported devices: IR1101, IR1800, IR8300
Ease of Use	Configure cellular band select for	You can select specific frequency bands to which the device can connect to, allowing optimized connection depending on location and network

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Product Impact	Feature	Description
	cellular interfaces on SD-Routing devices	availability. This configuration can be done using Feature Parcels in Cisco Catalyst SD-WAN Manager. Supported devices: IR1101, IR1800, IR8140, IR8300
Ease of Use	Configure logging of crash dump events for cellular interfaces on SD-Routing devices	You can configure the device to collect the crash dump logs by enabling the boot-and-hold mode on the device using the LTE modem crash-action boot-and-hold command. Supported devices: IR1101, IR1800, IR8140, IR8300
Ease of Use	Enable diagnostic monitoring for SD-Routing devices	You can enable diagnostic monitoring log capture for devices with cellular interfaces using Catalyst Cisco SD-WAN Manager. Supported devices: IR1101, IR1800, IR8140, IR8300

New hardware features

This section provides a brief description of the new hardware features introduced in this release.

IOS XE 17.18.4

There are no new hardware features introduced in 17.18.4 release.

IOS XE 17.18.3

There are no hardware features introduced in 17.18.3 release.

IOS XE 17.18.2

There are no hardware features introduced in 17.18.2 release.

IOS XE 17.18.1a

Table 3. New hardware features for Cisco Catalyst Rugged Series Routers, IOS XE 17.18.1a

Product Impact	Feature	Description
Ease of Use	IRM-1100-4S8I Expansion Module	Cisco IOS XE Release 17.18.1a introduces the IRM-1100-4S8I Expansion Module for IR1101 routers, adding four SFP ports and eight Digital IO connections for enhanced networking capabilities. Supported device: IR1101

Change in behavior

There are no behavior changes in this release.

Resolved issues

You can also access the resolved caveats for this release through the Cisco Bug Search Tool.

Note:

- This software release may contain bug fixes first introduced in other releases. To see additional information, click the bug ID to access the Cisco Bug Search Tool.
- To search for a documented Cisco product issue, type in the browser: <bug number> in Cisco.com

This table lists the resolved issues in this specific software release.

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IOS XE 17.18.4

Table 4. Resolved issues for Cisco Catalyst Rugged Series Routers, IOS XE 17.18.4

Bug ID	Description
CSCwt01182	IR8340: PTP from UTC to TAI on an IR8340 is not working
CSCwp15793	TOD not synced after hard power cycle
CSCws49513	IR8140 wpan hardware key-info does not match mesh-security keys
CSCws66114	IR8340 is failing upgrade from 17.15.1a to 17.15.4 using install commands

IOS XE 17.18.3

Table 5. Resolved issues for Cisco Catalyst Rugged Series Routers, IOS XE 17.18.3

Bug ID	Description
CSCws92361	BBU shows in idle state with low SOC and it starts charging after resetting the BBU
CSCws49513	IR8140 wpan hardware key-info does not match mesh-security keys

IOS XE 17.18.2

Table 6. Resolved issues for Cisco Catalyst Rugged Series Routers, IOS XE 17.18.2

Bug ID	Description
CSCwp90680	IR1101 not completing ARP for Emerson FB-3000
CSCwq60670	NVRAM Header Corruption on Power Cycle

IOS XE 17.18.1a

Table 7. Resolved issues for Cisco Catalyst Rugged Series Routers, IOS XE 17.18.1a

Bug ID	Description
CSCwn60186	IR8340 / XE 17.9 / onboard G0/0/0 RJ45 WAN port flaps when removing "media-type rj45" config
CSCwn80507	Traceback followed by CPUHOG observed when IRM-GNSS-ADR VID: V20 is inserted into IR1833 router
CSCwn98622	Hardware removal & insertion SNMP traps received after soft reload-Misleading router actual activity
CSCwo91346	IR1101 WANMON failing to reach level 2 recovery
CSCwo31561	"Error in showing license Information" when "show license rum id all" is executed

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Bug ID	Description
CSCwm92704	8340 & 9320 redbox forwarding multiple primary announce messages to SAN
CSCwp00808	IRM-NIM-RS232 module Serial interface stops transmitting TCP raw socket traffic
CSCwp13058	Unintended BBU fw upgrade when miscommunication occurs between IOS and BBU fw
CSCwo73978	Disappearance of band selection configuration from cellular controller after a router reload

Open issues

You can also access the open caveats for this release through the Cisco Bug Search Tool.

This table lists the open issues in this specific software release.

IOS XE 17.18.4

Table 8. Open issues for Cisco Catalyst Rugged Series Routers, IOS XE 17.18.4

Bug ID	Description
CSCws62413	IR8340 Unexpected Reload with LocalSoftADR and Kernel Panic with SMP NOPTI
CSCwt05807	Telemetry sends incorrect data when sensor's reading is negative
CSCwt69103	IR8340 does not send BPDU when using etherchannel
CSCwu16166	Image download fails on the Edge due to dns resolution failure
CSCwu34243	%TDLDB-3-DBPERSIST_OPERATION_FAILURE on DB: /tmp/rp/tdldb/0/CTRL_MNG_CFG_DB and unable to save config or reload router
CSCwu37431	IR8140: WPAN incoming packet totals incorrectly calculated

IOS XE 17.18.3

Table 9. Open issues for Cisco Catalyst Rugged Series Routers, IOS XE 17.18.3

Bug ID	Description
CSCwr98904	WIFI6 module loses configuration with IR1821 reload
CSCwt05807	Telemetry sends incorrect data when sensor's reading is negative

IOS XE 17.18.2

Table 10. Open issues for Cisco Catalyst Rugged Series Routers, IOS XE 17.18.2

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Bug ID	Description
CSCwr98904	WIFI6 module loses configuration with IR1821 reload.

IOS XE 17.18.1a

There are no open issues in this release.

Known issues

This table lists the limitations for this release. Click the bug ID to access the Cisco Bug Search Tool and see additional information

Table 11. Known issues for Cisco Catalyst Rugged Series Routers, IOS XE 17.18.x

Feature	Description
Smart Licensing Using Policy	Starting with Cisco IOS XE 17.6.1, Smart Licensing Using Policy has changed how device information is displayed. When you configure a hostname for a product instance or device, only the Unique Device Identifier (UDI) is shown. The hostname is no longer displayed in licensing utilities and user interfaces as it was in previous releases. This change does not affect any licensing functionality, and there is no workaround for this limitation. The licensing utilities and user interfaces affected by this change are: • Cisco Smart Software Manager (CSSM) • Cisco Smart License Utility (CSLU) • Smart Software Manager On-Prem (SSM On-Prem) Example of revised content: If you previously saw the device hostname in CSSM, you will now only see the UDI after upgrading to Cisco IOS XE 17.6.1 or later. Note: This is a display change only and does not impact license operations or activation.
Support for Jumbo Frames	VLAN-aware interoperability with devices from other vendors is not supported on the Cisco IR1101 platform.
IP Device Tracking on Routers	Standalone MAC Authentication Bypass (MAB) is an authentication method that grants network access to specific MAC addresses, regardless of 802.1X capability or credentials. On the IR1100 platform, the device may crash when both IPsec and MACsec traffic occur concurrently between the device and the client.
Key Exchange and MAC Algorithms	Starting from Cisco IOS XE Release 17.10, the following Key Exchange and MAC algorithms are removed from the default list: • Key Exchange algorithm: ◦ diffie-hellman-group14-sha1 • MAC algorithms: ◦ hmac-sha1 ◦ hmac-sha2-256 ◦ hmac-sha2-512 Note: You can use the **ip ssh server algorithm kex** command to configure the Key Exchange algorithm and

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Feature	Description
	the **ip ssh server algorithm mac** command to configure the MAC algorithms.

Table 12. Additional details on MAB Catalyst

Details	Affected release	Resolved release
MAB/Dot1x may not work if the global type-6 encryption setting is enabled. If users still want to use MAB/Dot1x, they should disable the type-6 encryption and enable type-7 encryption.	17.4.x 17.5.x 17.6.1 17.6.2 17.7.1	17.3.5 Fixed in these future releases: 17.6.3 17.7.2 17.8.1 and later.
Due to a hardware limitation, the dACL and device-tracking features are not supported on Cisco Catalyst IR1101 Rugged Series Routers. However, dACL is supported on Cisco Catalyst IR1800 Rugged Series Routers. Therefore, features such as MAB and 802.1X should not be used with optional dACL or device-tracking enabled on the IR1101 platform.	Occurs in all releases	This is a hardware limitation, and no software fix is available.

Compatibility

This section lists compatibility information on Cellular Module Modem Firmware, OEM/PRI and it lists the latest modem firmware available for each of the modems used by the Cisco IoT routers. See the Cisco Firmware Upgrade Guide for 4G LTE and 5G Cellular Modems for upgrade instructions.

Cisco IOS XE updates do not automatically update modem firmware. You should manually check and update all modems to the latest firmware version, including any related PRI and/or OEMPRI components. Refer to the following table for the most up-to-date information.

Table 13. Cellular Module Modem Firmware for Cisco Catalyst Rugged Series Routers, IOS XE 17.18.x

Cellular Module	Modem and Firmware version	Software download link
P-5GS6-GL	FN980 38.03.0202	https://software.cisco.com/download/home/286329300/type/
P-LTEAP18-GL IRMH-LTEAP18-GL	LM960 32.00.1x9	Generic: https://software.cisco.com/download/home/286324996/type North America: https://software.cisco.com/download/home/286324947/type

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Cellular Module	Modem and Firmware version	Software download link
P-LTEA-EA IRMH-LTEA-EA	EM7455 02.39.00.00	Generic: https://software.cisco.com/download/home/286308426/type Europe: https://software.cisco.com/download/home/286308426/type Canada: https://software.cisco.com/download/home/286319713/type North America ATT: https://software.cisco.com/download/home/286311442/type North American Sprint: https://software.cisco.com/download/home/286311455/type North America Verizon: https://software.cisco.com/download/home/286311429/type
P-LTEA-LA IRMH-LTEA-LA	EM7430 02.38.00.00	Generic: https://software.cisco.com/download/home/286308413/type Australia Telstra: https://software.cisco.com/download/home/286311403/type Japan: https://software.cisco.com/download/home/286311416/type
P-LTE-VZW	WP7601 02.37.0x.00	https://software.cisco.com/download/home/286322139/type
P-LTE-US	WP7603 02.37.0x.00	https://software.cisco.com/download/home/286322143/type
P-LTE-JN	WP7605 02.28.03	https://software.cisco.com/download/home/286322156/type
P-LTE-GB	WP7607 02.37.03.05	https://software.cisco.com/download/home/286322147/type
P-LTE-IN	WP7608 02.28.03	https://software.cisco.com/download/home/286322152/type
P-LTE-AU	WP7609 02.28.03	https://software.cisco.com/download/home/286323720/type
P-LTE-MNA	WP7610 02.37.03.05	https://software.cisco.com/download/home/286324942/type

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Cellular Module	Modem and Firmware version	Software download link
P-LTEA7-NA	EM7411 01.14.22.00	https://software.cisco.com/download/home/286333933/type
P-LTEA7-EAL	EM7421 01.14.22.00	https://software.cisco.com/download/home/286333937/type
P-LTEA7-JP	EM7431 01.14.22.00	https://software.cisco.com/download/home/286333939/type
P-5GS6-R16SA-GL	EM9293 02.17.08.00	https://software.cisco.com/download/home/286334597/type
P-LTE-450	Not applicable v1.3.0	Contact Intelliport for the software download link (info@intelliport.hu)

Supported software packages

This section provides information about the release packages associated with Cisco Catalyst Rugged Series Routers.

For latest software downloads, see the Software Download page.

Note: NPE stands for No Payload Encryption.

Table 14. Software packages for Cisco Catalyst Rugged Series Routers, IOS XE 17.18.x

Release	Router	Image type	Filename
Cisco IOS XE 17.18.4	IR1101	Universal	ir1101-universalk9.17.18.04.SPA.bin
		NPE	ir1101-universalk9_npe.17.18.04.SPA.bin
	IR1800	Universal	ir1800-universalk9.17.18.04.SPA.bin
		NPE	ir1800-universalk9_npe.17.18.04.SPA.bin
	IR8100	Universal	ir8100-universalk9.17.18.04.SPA.bin
		NPE	ir8100-universalk9_npe.17.18.04.SPA.bin
	IR8340	Universal	ir8340-universalk9.17.18.04.SPA.bin
		NPE	ir8340-universalk9_npe.17.18.04.SPA.bin
		UTD Engine for Cisco IR8340	secapp-utd.17.18.04.1.0.4_SV3.3.5.0_XE17.18.x86_64.tar

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Release	Router	Image type	Filename
Cisco IOS XE 17.18.3	IR1101	Universal	ir1101-universalk9.17.18.03.SPA.bin
		NPE	ir1101-universalk9_npe.17.18.03.SPA.bin
	IR1800	Universal	ir1800-universalk9.17.18.03.SPA.bin
		NPE	ir1800-universalk9_npe.17.18.03.SPA.bin
	IR8100	Universal	ir8100-universalk9.17.18.03.SPA.bin
		NPE	ir8100-universalk9_npe.17.18.03.SPA.bin
	IR8340	Universal	ir8340-universalk9.17.18.03.SPA.bin
		NPE	ir8340-universalk9_npe.17.18.03.SPA.bin
		UTD Engine for Cisco IR8340	secapp-utd.17.18.03.1.0.4_SV3.3.5.0_XE17.18.x86_64.tar
Cisco IOS XE 17.18.2	IR1101	Universal	ir1101-universalk9.17.18.02.SPA.bin
		NPE	ir1101-universalk9_npe.17.18.02.SPA.bin
	IR1800	Universal	ir1800-universalk9.17.18.02.SPA.bin
		NPE	ir1800-universalk9_npe.17.18.02.SPA.bin
	IR8100	Universal	ir8100-universalk9.17.18.02.SPA.bin
		NPE	ir8100-universalk9_npe.17.18.02.SPA.bin
	IR8340	Universal	ir8340-universalk9.17.18.02.SPA.bin
		NPE	ir8340-universalk9_npe.17.18.02.SPA.bin
		UTD Engine for Cisco IR8340	secapp-utd.17.18.02.1.1.0_SV3.3.5.0_XE17.18.x86_64.tar
Cisco IOS XE 17.18.1a	IR1101	Universal	ir1101-universalk9.17.18.01a.SPA.bin
		NPE	ir1101-universalk9_npe.17.18.01a.SPA.bin
	IR1800	Universal	ir1800-universalk9.17.18.01a.SPA.bin
		NPE	ir1800-universalk9_npe.17.18.01a.SPA.bin

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Release	Router	Image type	Filename
	IR8100	Universal	ir8100-universalk9.17.18.01a.SPA.bin
		NPE	ir8100-universalk9_npe.17.18.01a.SPA.bin
	IR8340	Universal	ir8340-universalk9.17.18.01a.SPA.bin
		NPE	ir8340-universalk9_npe.17.18.01a.SPA.bin
		UTD Engine for Cisco IR8340	secapp-utd.17.18.01a.1.0.4_SV3.3.5.0_XE17.18.x86_64.tar

Port Naming Conventions

This section shows the names of the ports on Cisco Catalyst IR1101, IR1800, IR8140, and IR8340 routers.

Table 15. Cisco Catalyst IR1101 Rugged Series Router

Port	Naming Convention
Gigabit Ethernet combo port	GigabitEthernet0/0/0
Gigabit Ethernet SFP port on IRM-1100	GigabitEthernet0/0/5
Gigabit Ethernet on IRM-1100-4A2T mounted on the Expansion side	GigabitEthernet0/0/5 GigabitEthernet0/0/6
Fast Ethernet ports	FastEthernet0/0/1 FastEthernet0/0/2 FastEthernet0/0/3 FastEthernet0/0/4
Cellular Interface on IR1101 Base	Cellular 0/1/0 Cellular 0/1/1
Cellular Interface on IRM-1100 mounted on the top (EM) side	Cellular 0/3/0 Cellular 0/3/1
Cellular Interface on IRM-1100 mounted on the bottom (CM) side	Cellular 0/4/0 Cellular 0/4/1
Asynchronous Serial Interface Base	async0/2/0
IRM-1100-4A2T is mounted on the top (EM) side	async 0/3/0 async 0/3/1 async 0/3/2 async 0/3/3

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Port	Naming Convention
IRM-1100-4A2T is mounted on the bottom (CM) side	async 0/4/0 async 0/4/1 async 0/4/2 async 0/4/3
USB	usbflash0:
mSATA	msata:
IR1101 Base Unit Alarm input	alarm contact 0
GPIO on IRM-1100	alarm contact 1-4
LoRaWAN interface on IR1101 Base	LORAWAN0/1/0
LoRaWAN interface on the top (EM) side	LORAWAN0/3/0
Gigabit Ethernet interface for LTE 450MHz module on IR1101 Base	GigabitEthernet0/1/0 GigabitEthernet0/1/0.x for multiPDN operation
Gigabit Ethernet interface for LTE 450MHz module mounted on the bottom (CM) side	GI0/4/0

Table 16. Cisco Catalyst IR1800 Rugged Series Router

Port	Naming Convention
Gigabit Ethernet combo port	GigabitEthernet0/0/0
Gigabit Ethernet ports	GigabitEthernet0/1/0 GigabitEthernet0/1/1 GigabitEthernet0/1/2 GigabitEthernet0/1/3
Cellular Interface	Cellular 0/4/0 Cellular 0/4/1 Cellular 0/5/0 Cellular 0/5/1
Asynchronous Serial Interface	Async0/2/0 Async0/2/1 (when the base platform supports two asynchronous serial interfaces)
Wi-Fi Interface	WI0/1/4

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Port	Naming Convention
USB	usbflash0:
mSATA	msata:
GPIO	alarm contact 1-4

Table 17. Cisco Catalyst IR8140 Heavy Duty Series Router

Port	Naming Convention
Gigabit Ethernet ports	GigabitEthernet0/0/0 GigabitEthernet0/0/1
Cellular Interface	Cellular 0/2/0 Cellular 0/2/1 Cellular 0/3/0 Cellular 0/3/1
SSD	VirtualPortGroup0
WPAN	Wpan 0/1/0 Wpan 0/2/0 Wpan 0/3/0
Digital I/O	alarm contact 1-2

Table 18. Cisco Catalyst IR8340 Rugged Series Router

Port	Naming Convention
Gigabit Ethernet WAN ports	GigabitEthernet0/0/0 GigabitEthernet0/0/1
Gigabit Ethernet LAN ports	GigabitEthernet0/1/0 GigabitEthernet0/1/1 GigabitEthernet0/1/2 GigabitEthernet0/1/3 GigabitEthernet0/1/4 GigabitEthernet0/1/5 GigabitEthernet0/1/6 GigabitEthernet0/1/7 GigabitEthernet0/1/8

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Port	Naming Convention
	GigabitEthernet0/1/9 GigabitEthernet0/1/10 GigabitEthernet0/1/11
Cellular Interface	Cellular 0/4/0 Cellular 0/4/1 Cellular 0/5/0 Cellular 0/5/1
NIM Interface (Asynchronous/Synchronous Serial Ports or E1/T1 ports)	0/2/0 0/2/1 0/3/0 0/3/1
mSATA SSD	msata:
GPIO	alarm contact 0-2
USB Port	usb0:
Console Port	Line console 0

Related resources

Table 19. Related resources

Document	Description
Cisco IOS XE	Provides products supported by Cisco IOS XE.
Cisco Catalyst IR1101 Rugged Series Router Cisco Catalyst IR1800 Rugged Series Router Cisco Catalyst IR8140 Heavy Duty Series Router Cisco Catalyst IR8340 Rugged Series Router	Provides data sheet for the specified routers.
Cisco Industrial Routers and Industrial Wireless Access Points Antenna Guide	Provides descriptions and installation instructions for wireless antennas supported on the Cisco Industrial Series Routers and Industrial Wireless Access Points.
Cisco IOS XE 17.x	Provides information about Cisco IOS XE 17.x releases and ordering details.

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Document	Description
Cisco SD-WAN	Provides information about SD-WAN releases and resources.
Cisco IoT Field Network Director	Provides information about Cisco IoT Field Network Director releases and resources.
Cisco Industrial Network Director	Provides information about Cisco Industrial Network Director releases and resources.
Smart Licensing Using Policy on the Cisco Catalyst IR1101, IR1800, IR8140, and IR8340 Routers or the Cisco Industrial IoT Licensing	Provides information about Smart Licensing Using Policy solutions and their deployment on Cisco IOS XE routers.
Cisco Support	You can submit a service request here.
Cisco TAC	Provides most up-to-date detailed troubleshooting information.
Cisco Feature Navigator	Use CFN to browse Cisco products and find relevant features and licenses. It allows you to compare platforms, determine common features between products, and identify unique product features. The CFN also has a tab that provides a MIB Locator.

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