



# Release Notes for Cisco Embedded Service 6300 Series Router – Release 17.3.3

Revised February 11, 2022

The following release notes support the Cisco ESR6300 router. These release notes are updated to describe new features, limitations, troubleshooting, recommended configurations, caveats, and provide information on how to obtain support and documentation.

[Table 1](#) provides the hardware product IDs and brief descriptions for the boards.

**Table 1 Cisco ESR 6300 SKUs**

SKU	Description	Ports/Module Interfaces
ESR-6300-NCP-K9	Embedded Router Board without a cooling plate. (NCP = No Cooling Plate)	4 GE LAN ports 2 combo GE WAN ports 1 USB 3.0 port 1 mSATA module interface
ESR-6300-CON-K9	Embedded Router Board with cooling plate. (CON = Conduction cooled).	4 GE LAN ports 2 combo GE WAN ports 1 USB 3.0 port 1 mSATA module interface

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## General Description

The ESR6300 is a small form factor embedded router module with a board size of 3.0" x 3.775" (76.2mm x 95.885mm). The more compact design simplifies integration and offers system integrators the ability to use the Cisco ESR 6300 in a wide variety of embedded applications. The ESR card is available with a Cisco-designed cooling plate customized to the ESR, as well as without the cooling plate for system integrators who want to design their own custom thermal solution.

## Image Information and Supported Platforms

**Note:** You must have a Cisco.com account to download the software.

Cisco IOS-XE Release 17.3.3 includes the following Cisco image:

- c6300-universalk9.17.03.03.SPA.bin

The latest software downloads for the ESR6300 can be found at:

<https://software.cisco.com/download/home/286323433>

Click on the ESR6300 link to take you to the specific software you are looking for.

## Interface Naming Conventions

The following table shows the naming conventions.

## Known Limitations

**Table 2 Hardware Interface Naming Convention**

Port	Naming Convention
Gigabit Ethernet combo port WAN/Layer3	gigabitEthernet 0/0/0 gigabitEthernet 0/0/1
Gigabit Ethernet LAN/Layer 2 ports	gigabitEthernet 0/1/0 gigabitEthernet 0/1/1 gigabitEthernet 0/1/2 gigabitEthernet 0/1/3
USB Port	usbflash0: (IOS and rommon)
Console Port	Line console 0

## Known Limitations

The following features are not supported on the ESR6300 with software release 17.3.3:

- No support for MacSec or DLEP in this release. (MQC: modular quality of service command line).
- Layer 2 COS to DSCP mapping does not work due to no ASIC chipset support for the feature.
- Copper FE SFPs are not supported on the ESR6300.
- Copper GE SFPs are only supported in config terminal > service internal > service unsupported-transceiver mode.
- Cisco does not claim IP Mobility for Ethernet support on the ESR6300.
- Auto-negotiation for 10Mbps, 100Mbps, 1000Mbps in full-duplex mode is supported. For half duplex, support is only on 10Mbps and 100Mbps.
- Refer to the Cisco Approved Vendor List (AVL) for Cisco USBs. Kingston USB 3.0 works as well. Ensure the USB has a single partition and ext2, Fat16, or Fat32 format only.
- Cellular functionality is not supported.
- Radio Aware Routing is not supported.
- For Security: No support for TLS, TrustSec, MacSec , CWS [Cloud Web Security], IDS/IPS.

This release has the following limitations or deviations for expected behavior:

- The WebUI Licensing Page is unsupported for release 17.3.3. For all licensing configuration, please use CLI mode or CSSM.
- In the Web User Interface (WebUI), there are two known issues where erroneous information is displayed. In both of these cases, the information is present in the WebUI even though the functionality is **NOT** supported on the ESR6300.
  - Under **Configuration > Security > Threat Defense > snort** there is a RAM and DISK size prerequisite check that fails.

## Smart Software Manager On-Prem (SSM On-Prem) Support for Smart Licensing Using Policy

- Under **Configuration > Security** > there is a category for Trustsec.

These are both cosmetic issues due to the features being unavailable in the 17.3.3 release.

- The IOS boot system setting allows users to specify any flash-based storage URL for IOS image booting.

The rommon on the ESR6300 does not expose the non-IOX msata partition, therefore auto-booting from mSATA will not work even if it is configured in IOS.

**Example:** Users must not configure a boot system setting as follows:

```
(config)#boot system flash msata:ios-image
```

- Receive a message 'unable to open bootflash:golden.bin (14)' during bootup.

**Example:** Pushing the reset button displays the unable to open message.

```
ESR-6300-CON-K9 platform with 4194304 Kbytes of main memory
```

```
MCU Version - Bootloader: 4, App: 10
```

```
MCU is in application mode.
```

```
Reset button push detected
```

```
unable to open bootflash:golden.bin (14)
```

This message is intended by design to inform the user they have not setup a golden.bin config file.

## Smart Software Manager On-Prem (SSM On-Prem) Support for Smart Licensing Using Policy

SSM On-Prem is an asset manager, which works in conjunction with CSSM. It enables you to administer products and licenses on your premises instead of having to directly connect to CSSM.

Here, a product instance is connected to SSM On-Prem, and SSM On-Prem becomes the single point of interface with CSSM. The product instance can be configured to push the required information to SSM On-Prem. Alternatively, SSM On-Prem can be set-up to pull the required information from a product instance at a configurable frequency. After usage information is available in SSM On-Prem, you must synchronize the same with CSSM, to ensure that the product instance count, license count and license usage information is the same on both, CSSM and SSM On-Prem. Offline and online options are available for synchronization between CSSM and SSM On-Prem.

Minimum Required SSM On-Prem Version: Version 8, Release 202102

Minimum Required Cisco IOS XE Version: Cisco IOS XE Amsterdam 17.3.3

**Note:** Starting with Cisco IOS XE Amsterdam 17.3.2, with the introduction of Smart Licensing Using Policy, even if you configure a hostname for a product instance or device, only the Unique Device Identifier (UDI) is displayed. This change in the display can be observed in all licensing utilities and user interfaces where the hostname was displayed in earlier releases. It does not affect any licensing functionality. There is no workaround for this limitation.

The licensing utilities and user interfaces that are affected by this limitation include only the following: Cisco Smart Software Manager (CSSM), Cisco Smart License Utility (CSLU), and Smart Software Manager On-Prem (SSM On-Prem).

## Related Documentation

The following documentation is available:

- All of the Cisco ESR6300 documentation can be found here:

## Caveats

<https://www.cisco.com/c/en/us/support/routers/6300-series-embedded-service-routers/tsd-products-support-series-home.html>

## Caveats

Caveats describe unexpected behavior in Cisco IOS releases. Caveats listed as open in a prior release are carried forward to the next release as either open or resolved.

**Note:** You must have a Cisco.com account to log in and access the Cisco Bug Search Tool. If you do not have one, you can [register for an account](#).

For more information about the Cisco Bug Search Tool, see the [Bug Search Tool Help & FAQ](#).

## Open Caveats

None at this time.

## Resolved Caveats

None at this time.

## Communications, Services, and Additional Information

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