



## New and Changed System Management Features

This chapter lists all the features that have been added or modified in this guide. The table also contains references to these feature documentation sections.

- [System Management Features Added or Modified in IOS XR Release 6.5.x, on page 1](#)

### System Management Features Added or Modified in IOS XR Release 6.5.x

Feature	Description	Changed in Release	Where Documented
Multiple PTP Profile Interoperability	From Release 6.5.1 onward, Cisco IOS-XR supports <b>interop</b> command that can be used to configure interoperability to communicate with a peer device running a different PTP profile than the profile that is configured on the source router.	Release 6.5.1	<a href="#">Configuring Precision Time Protocol.</a>
Proactive Line Card Shut Down	The proactive line card shutdown feature enables powering down line cards automatically when the power that is drawn by the router exceeds configured threshold. The sequence of powering down LCs is based on the shutdown priorities that are assigned to them.	Release 6.5.1	<a href="#">Proactive Line Card Shut Down</a>

Feature	Description	Changed in Release	Where Documented
Automatic Line Card Reload on FPD Upgrade	This feature automatically reloads a newly inserted line card (LC) after a successful FPD upgrade.	Release 6.5.1	<a href="#">Automatic Line Card Reload on FPD Upgrade</a>
ZTP Switches between Management and Data Port	From Cisco IOS XR Release 6.5.1 onwards, during the fresh boot of a router, auto ZTP process is initiated from the management port and switches to data port.	Release 6.5.1	<a href="#">Configuring Zero Touch Provisioning</a>
Authentication on Data Ports	On fresh boot, ZTP process is initiated from management ports and may switch to data ports. To validate the connection with DHCP server, authentication is performed on data ports through DHCP option 43 for IPv4 and option 17 for IPv6.	Release 6.5.1	<a href="#">Authentication on Data Ports</a>
Enhanced Object Tracking	The object tracking feature was enhanced in this release.	Release 6.5.1	<a href="#">Information About Object Tracking</a>
Enhancements to CMP shell commands	New commands are added to the Console Management Port (CMP) shell to enhance accessibility to the console, and facilitate remote management of the router	Release 6.5.1	<a href="#">CMP Shell</a>

Feature	Description	Changed in Release	Where Documented
CPAK-100G-ER4L module support on the IOS XR 64-bit OS	<p>The Cisco CPAK 100GBASE-ER4 Lite (CPAK-100G-ER4L) module is supported on Cisco IOS XR 64-bit operating system with the following line cards:</p> <ul style="list-style-type: none"><li>• A9K-8X100G-LB-SE</li><li>• A9K-8X100G-LB-TR</li><li>• A9K-8X100G-SE</li><li>• A9K-8X100G-TR</li><li>• A9K-8X100G-CM</li><li>• A99-8X100G-SE</li><li>• A99-8X100G-TR</li><li>• A99-8X100G-CM</li><li>• A9K-4X100G-TR</li><li>• A9K-4X100G-SE</li></ul>	Release 6.5.2	<a href="#">CPAK</a>

