

New and Changed Information

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The following table provides an overview of the significant changes to this guide for this current release. The table does not provide an exhaustive list of all changes made to the guide or of the new features in this release.

The following tables provide information about the new and changed features in Cisco NDFC.

Table 1: New and Enhanced features for all personas in NDFC Release 12.1.1e

Feature	Description	Where Documented
Support NDFC with Nexus Dashboard on KVM	NDFC can be installed on virtual Nexus Dashboard cluster running on top of KVM hypervisor. This is supported for Fabric Controller, Fabric Discovery and SAN Controller modes.	Cisco Nexus Dashboard Deployment Guide

Table 2: New and Enhanced features in LAN Fabrics in Cisco NDFC Release 12.1.1e

Feature	Description	Where Documented
Layer-2 ToR visibility and management in Easy fabric	This feature enables onboarding and integrated automation of Layer-2 Top-of-Rack (ToR) switches as fabric devices attached to leaf switches in VXLAN EVPN based Easy Fabric deployments. This allows for a single configuration point for deploying and extending overlay networks for VXLAN EVPN fabrics.	

Feature	Description	Where Documented
NDFC HA with Layer-3 reachability between cluster nodes	Nexus Dashboard cluster nodes support NDFC with Layer 3 connectivity between Nexus Dashboard nodes.	Cisco NDFC Installation and Upgrade Guide
Inband management and Inband POAP for Easy and External fabrics	NDFC Release 12.1.1e supports inband management for devices that are part of VXLAN EVPN based Easy fabrics. In addition, for touch-less Day-0 device bring up, Inband Power-On Auto Provisioning also known as POAP functionality is introduced. Inband POAP is supported for both point-to-point (p2p) and IP un-numbered scenarios with a choice to use the internal pre-packaged DHCP server or an external DHCP server. Inband POAP is also supported for External and Classic LAN fabrics.	Inband Management and Inband POAP in Easy Fabrics Inband POAP Management in External Fabrics and LAN Classic Fabrics
Cohosting NDFC Managed mode with Nexus Dashboard Insights	Nexus Dashboard Fabric Controller and Insights services can be installed in the same physical Nexus Dashboard cluster. This is supported for both Fabric Discovery and Fabric Controller personas.	Cohosting of NDFC Managed mode with Nexus Dashboard Insights
Routed fabrics with IPv6 underlay	eBGP Routed fabrics with **Easy_Fabric_eBGP** template supports super spines and IPv6 underlay. This allows eBGP-based routed fabrics to carry both IPv4 and IPv6 traffic over an IPv6 underlay.	
Interface Group Support for Border Devices	The interface groups capability for overlay network provisioning is extended to also support Border devices.	Interface Groups

Feature	Description	Where Documented
Swap Serial Number for pre-provisioned devices	NDFC Release 12.1.1e allows users to provide dummy values for the serial numbers associated with pre-provisioned switches. Subsequently, when the real device serial number is known, the swap serial number workflow allows a serial number swap to the real device serial number while retaining all the user-defined device configurations.	Change Serial Number
Pre-provisioning of sub-interfaces	NDFC allows sub-interface configuration on pre-provisioned switches. This is especially useful for VRF-Lite configuration on pre-provisioned border devices. You can provide dummy values for the Serial number after configuration and the appropriate serial number can be updated.	Discovering New Switches
IPv6 support in VXLAN OAM	NDFC VXLAN OAM IPv4 capabilities are enhanced to also support IPv6 underlay and IPv6 overlay deployments.	VXLAN OAM
Image Management Groups	NDFC allows you to select groups of switches to perform bulk upgrades. This provides the capability to set or unset an upgrade group designation per switch.	Modifying the Groups
Support for IOS-XR based Cisco 8000 platforms	NDFC supports managing or monitoring IOS-XR-based Cisco 8000 Series Switches in External Fabrics.	Creating an External Fabric
L4-7 Service Enhancements	NDFC services use-cases are extended to support One-arm firewall. In addition, NDFC also supports use cases where multiple virtual service nodes are connected to the same interface of a service switch. All L4-7 services workflow are now supported with both IPv4 and IPv6.	

Feature	Description	Where Documented
PTP monitoring for non-IPFM fabrics	Release 12.1.1e supports PTP monitoring for non-IPFM fabrics like Classic LAN and VXLAN fabrics with up to 35 switches.	PTP (Monitoring)
PTP Topology View	PTP visibility is available in tabular format. NDFC Release 12.1.1e introduces PTP data visibility in topology view.	PTP (Monitoring)

Table 3: New and Enhanced features in IPFM Fabrics in Cisco NDFC Release 12.1.1e

Feature	Description	Where Documented
Multicast to Unicast NAT for IPFM flows	NDFC Release 12.1.1e supports configuration of Multicast to Unicast NAT for IPFM flows and provides end-to-end flow visualization.	Recirc Mappings
Unicast to Multicast NAT for IPFM flows	NDFC Release 12.1.1e supports configuration of Unicast to Multicast NAT for IPFM flows and provides end-to-end flow visualization.	Recirc Mappings