NOKIA

NSP
Network Services Platform
Release 25.4

Release Description

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Release 25.4
July 2025
Issue 2

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About this document

Purpose

This document is intended to assist network planners and administrators by providing high-level feature descriptions for NSP Release 25, along with the schedule for delivery.

Scope

The NSP Release Description lists and describes all significant features introduced in NSP Release 25, including classic IP management (NFM-P). The features available in your deployment depend on the feature packages you purchased. For information about feature packages and the product functionality they license you to use, see the *NSP System Architecture Guide*.

Document organization

The document is organized on a cumulative basis by release. Descriptions reflect the release in which the feature was introduced. If an enhancement is delivered in a subsequent release, the enhancement feature would appear separately.

Feature descriptions are sorted in alphabetical order by product area, and then by feature key.

For more detailed information and procedures related to the features described in this Release Description document, refer to the customer documentation suite delivered with the NSP product.

Document support

Customer documentation and product support URLs:

*   Documentation Center
*   Technical support

How to comment

Please send your feedback to Documentation Feedback.

1   Introduction

1.1   Release information

1.1.1 Target schedule

Three releases with new content are planned in Release 25, as summarized below:

- Release 25.4 — May 2025
- Release 25.8 — August 2025
- Release 25.11 — November 2025

Service packs in support of these releases will be delivered as required.

1.2 Ordering information

1.2.1 Sales engineering information

Table 1-1   NSP resources

Resource
Software download from the Nokia Support portal (registered customers only)
License keys (please contact your account representative for assistance)

1.2.2 Pricing information

To obtain NSP pricing information or assistance with ordering, please contact your regional sales representative.

1.2.3 Sizing

Contact your account representative to make a sizing request.

1.2.4 Support for Beta keys

Beta keys are controlled by NSP Product Management. To apply for the NSP Beta Program, contact your account representative.

1.3   Additional information

1.3.1   Network element support

Please see the *NSP NFM-P Network Element Compatibility Guide* for complete network element compatibility information. This compatibility reference guide is updated frequently to incorporate new network element release information and compatibility with NFM-P. Always consult the latest version on the Doc Center.

For information about adaptors, see "Where can I find more information about adaptors?"

Device artifact bundles and documentation are available from the Nokia NSP software download site.

1.3.2   Deprecations and support discontinuation notices

Feature deprecation and discontinuation notices are listed in the *NSP Release Notice*.

1.3.3   Scale and architecture

The scalability and performance targets for NSP Release 25 are described in the *NSP Planning Guide*.

1.3.4   Supported operating systems

Please refer to the *NSP Planning Guide* for detailed information about supported operating systems and requirements.

1.3.5   Adaptors and artifacts

Adaptors and other artifacts can be delivered off-cycle and are accompanied by their own documentation.

NSP framework features that support these artifacts are delivered with NSP releases and may be described in this document.

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2 NSP NMS feature descriptions

2.1 Telemetry, OAM, Mediation features

2.1.1 [NSPF-442547] Filter re-evaluation to include object modifications

Release introduced: 25.4

Feature Description

This epic adds object modification to the criteria for object filter evaluation. The NSP discovers object creation, deletion, or modification within 15 min, and telemetry data collection is started or stopped accordingly.

Customer Benefit

Cost reduction and use case enablement for customers with dependencies upon attribute change re-evaluation.

2.1.2 [NSPF-306713] View/Create/Edit OAM configuration objects in NSP UI

Release introduced: 25.4

Feature description

This feature improves the GUI by enabling support for creating and editing config OAM objects.

Customer benefits

This feature enhances the usability of the GUI, facilitating smoother OAM testing and configuration processes.

2.2 Service Management features

2.2.1 [NSPF-493396] Automatic import of service intent types in Service Management

Release introduced: 25.4

Starting in NSP Release 25.4, using the Artifacts views to import an artifact bundle that contains product service intent types also imports those intent types directly into Service Management. The user is not required to take any further action to complete the import.

2.3 Platform features

2.3.1 [NSPF-458303] Enterprise onboarding phase II

Release introduced: 25.4

The Enterprise onboarding application has been enhanced to include configuration of map options and creation of users, user groups, and roles.

2.3.2 [NSPF-453330] Integrated CLM includes NSP license entitlement

Release introduced: 25.4

Starting with NSP 25.4, Centralized License Manager (CLM) integrated in NSP is being used for NSP licensing. CLM integrated in NSP continues to be able to manage NE licenses, so customers with NSP do not require a separate CLM instance.

2.3.3 [NSPF-427143] NSP license file/key and license file generator requirements

Release introduced: 25.4

Starting with NSP 25.4, NSP system license keys are now managed via the NSP UI in the Centralized License Management module.

2.4   Path Control features

2.4.1 [NSPF-457617] Nominal Binding SID

Release introduced: 25.4

An end-to-end LSP can be configured with 'Include Route Object' defined, thereby creating a Nominal Path that will prevent the LSP from rerouting. This feature introduces an additional setting that will ensure the BSID does not reroute either. This enables consistent end-to-end behavior from the LSP.

2.5 Network Infrastructure Management - Configuration and Operations features

2.5.1 [NSPF-422506] Device Configuration: Streamline onboarding of brownfield configuration

Release introduced: 25.4

This epic introduces mass deployment discovery, the ability to associate multiple logical network objects for multiple classic NEs in a brownfield scenario.

If the operation is initiated from the intent type, a template based on the selected intent type is associated to the entire network. If the operation is initiated from the template, you can select specific NEs and/or targets to associate to the template.

This enhancement aids in simplifying brownfield discovery in NSP.

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2.6 Network Infrastructure Management - Assurance features

2.6.1 [NSPF-425537] MAGu Inter Site Redundancy - Threshold Closed loop automation

Release introduced: 25.4

This is a closed-loop automation for MAGu Inter Site Redundancy - Threshold is based on max subscriber session associated to a given user plane. Once the threshold value is breached, the subscribers need to be handled by another MSO site, by making the current user plane unavailable for UP selection for a given CP.

2.7 Device Management: Wavence features

2.7.1 [NSPF-460258] NFM-P to NSP Migration - Wavence intents and operations

Release introduced: 25.4

New intents have been added in NSP 25.4 to expand the Wavence configuration and management capabilities in NSP. You can now use intents for:

- System preferences configuration

- Feature and capacity configuration

In addition, NSP now supports telemetry for Wavence historical statistics.

3 NSP nodal feature descriptions

3.1 Device Management: OmniSwitch features

3.1.1 [NSPF-467573] OS6560E-P48Z16 support

Release introduced: 25.4

NSP will manage OS6560E-P48Z16 with following characteristics:

Multi-GigE fixed chassis in 1RU size. Includes 12 RJ-45 2.5G BaseT PoE (95W), 4 RJ-45 5G BaseT PoE (95W), 4xSFP+(1G/10G) and 2x20G stacking ports

3.1.2 [NSPF-468036] OS6560-48X4 support

Release introduced: 25.4

NSP will manage OS6560-48X4 with the following characteristics:

Gigabit fixed chassis in 1RU size. Includes 48 RJ-45 10/100/1G BaseT, 2xSFP(1G) and 4xSFP+ (1G/10G) uplink/stacking ports.

3.1.3 [NSPF-447913] OS6870-48 support

Release introduced: 25.4

NSP will manage OS6870-48 (Single ASIC with 796 Gbps aggregated switching capacity) with flexible port configuration:

1. 48 RJ45 ports that can operate at 1G/100M/10M speeds

2. Two QSFP28 ports that can operate at 100G/40G speed, support VFL

3. Four SFP28 ports that can operate at 25G/10G/1G speed

3.2   Device Management: 7750 SR MG/CMG, CPC, and CMM features

3.2.1 [NSPF-459621] MAGc - Revert and Rebalance Automation

Release introduced: 25.4

NSP workflow will execute either revert or rebalance on MAGc node based on the event notification type sent by the node. These actions help in distributing subscriber sessions among all active/ backup MAGu's connected to a given MAGc.

- Revert Operation: moves sessions back to the UPF in the primary list of the target profile

- Rebalance Operation: moves sessions to the UPF in the backup list of the target profile

4 NSP Release 25 features at a glance

4.1 NMS feature list

4.1.1 NSP NMS features

Table 4-1   NSP Release 25.4

Key	Summary	Area
[NSPF-293799]	LAG Link enhancements to Radio Inventory	Analytics
[NSPF-289641]	LSO | RESTCONF: Support for neID targets	Automation Frameworks
[NSPF-458496]	Workflow https action alignment with best practices for better filtering and integration with NSP file service	Automation Frameworks
[NSPF-459806]	NSP version compatibility added to Artifacts view	Automation Frameworks
[NSPF-460258]	NFM-P to NSP Migration - Wavence intents and operations	Device Management: Wavence
[NSPF-463902]	Suppress unwanted NSP alarms for Wavence	Device Management: Wavence
[NSPF-471965]	Exclude G826 params when NE is under maintainance	Device Management: Wavence
[NSPF-425537]	MAGu Inter Site Redundancy - Threshold Closed loop automation	Network Infrastructure Management - Assurance
[NSPF-422506]	Device Configuration: Streamline onboarding of brownfield configuration	Network Infrastructure Management - Configuration and Operations
[NSPF-470973]	Device Configuration: API patch operation to patch payload attribute values only	Network Infrastructure Management - Configuration and Operations
[NSPF-312379]	SRLinux PCEP support - Lab only	Path Control
[NSPF-457617]	Nominal Binding SID	Path Control
[NSPF-242615]	Support OpenId Connect and SAML2.0 for remote UI users	Platform
[NSPF-427143]	NSP license file/key and license file generator requirements	Platform
[NSPF-451596]	Update NSP K8S Platform Packages - 25.4	Platform
[NSPF-453330]	Integrated CLM includes NSP license entitlement	Platform
[NSPF-458303]	Enterprise onboarding phase II	Platform
[NSPF-460125]	Support testing IDP connectivity from UI	Platform

Table 4-1   NSP Release 25.4   (continued)

Key	Summary	Area
[NSPF-461673]	ISSU upgrade to clear all the residual alarms created during upgrade	Platform
[NSPF-464002]	Move LDAP/TACACS/RADIUS configuration to Users and Security Settings	Platform
[NSPF-464366]	Support API access with foreign access token	Platform
[NSPF-469330]	Remote users without a usergroup get assigned a default usergroup or are denied access	Platform
[NSPF-226190]	Service Troubleshooting Dashboard Map - show path i.e. MPLS (LSP) and IGP layers for services using autobind	Service Assurance
[NSPF-493396]	Automatic import of service intent types in Service Management	Service Management
[NSPF-306713]	View/Create/Edit OAM configuration objects in NSP UI	Telemetry, OAM, Mediation
[NSPF-442547]	Filter re-evaluation to include object modifications	Telemetry, OAM, Mediation
[NSPF-456443]	Auxiliary database backup support through the NSP System Health dashlet	Telemetry, OAM, Mediation

4.2 Nodal feature list

4.2.1 NSP

Table 4-2   NSP Release 25.4

Key	Summary
[NSPF-284242]	Secure software package: Allow to migrate to the new SWP version format to 3*2 digits
[NSPF-445664]	Support MAGc private release version format "YY.DD.Rxx.nn"
[NSPF-457144]	Implement ESA alarms in MD SROS
[NSPF-459621]	MAGc - Revert and Rebalance Automation

4.2.2 Classic NE management (formerly known as NFM-P)

Table 4-3   NSP Release 25.4

Key	Summary
[NSPF-276269]	IEEE support for c1-800G breakouts on FP5
[NSPF-416498]	MSS-XE/HE power measurements V, C, P
[NSPF-432047]	Galileo support on GNSS port for 7250 IXR-R6
[NSPF-444384]	Support to 7705 SAR-18 new alarm module
[NSPF-447913]	OS6870-48 support
[NSPF-447973]	Wavence Energy Saving - Power Saving Mode
[NSPF-456697]	Increased number of ESA-VMs in BB-ESA
[NSPF-465787]	New accounting-mode for port-scheduler-policy
[NSPF-467573]	OS6560E-P48Z16 support
[NSPF-468036]	OS6560-48X4 support
[NSPF-470200]	Service Based AnySec Encryption
[NSPF-472346]	Support to BNG IPv6 shunt interface
[NSPF-473614]	Deprecation of me2-100gb-cfp4 and maxp6-10gb-sfp+1-40gb-qsfp+
[NSPF-473621]	Deprecation of imm-1pac-fp3, p3-40g-qsfp, imm4-100gb-cxp, cx72-1g-csfp and cx6-40g-qsfp
[NSPF-473635]	Deprecate Ethernet Satellite -es64-10gb-sfp+4-100gb-cfp4 in R25
[NSPF-481542]	MDA_MSE6_800G_CFP2_DCO Support on 7750 SR-s Nodes