



NSP

Network Services Platform

Release 25.11

Release Description

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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 — September 2025
- Release 25.11 — December 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.

2 NSP automation feature descriptions

2.1 Transport Slice Operations features

2.1.1 [NSPF-469245] TSC: Dashlet for slice latency report

Release introduced: 25.8

In 25.8, a new dashlet is added to the Transport Slice Controller (TSC) dashboard that shows the connectivity constructs for the selected transport slice and the measure latency values.

2.2 Telemetry, OAM, Mediation features

2.2.1 [NSPF-493953] Support optional human-readable Kafka topic IDs

Release introduced: 25.11

This enhancement allows the user to create a subscription with an optional string that will be used as the Kafka NBI topic. Such topic IDs provide flexibility and better usability for the end user.

2.2.2 [NSPF-257961] ETH-CFM Facility MEPs on Interfaces

Release introduced: 25.8

This feature introduces support for Facility MEPs on router interfaces in ETH-CFM. It allows users to configure ETH-CFM Facility MEPs directly on specific router interfaces, thereby enhancing the network's overall fault management capabilities.

2.2.3 [NSPF-446423] CN Telemetry - selective accounting policy collection for Classic NEs

Release introduced: 25.8

With this functionality the customer has the ability to configure NSP's behaviour with respect to accounting file deletion on the NE: delete no files (new default), delete all files, delete transformed files. Previously, all accounting files processed by NSP were subsequently deleted on the NE. This could impact other systems that also need to process the same accounting files.

2.2.4 [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 benefit

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

2.2.5 [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.

2.3 Service Management features

2.3.1 [NSPF-425358] Revisit composite framework

Release introduced: 25.11

The composite service framework has changed in NSP 25.11 to provide a higher level of flexibility. The creation of a composite service is now much easier, and attaching/detaching individual services (regardless of their lifecycle state) to the composite can be done without a service interruption. The real-time, aggregated operational and alignment aids users in troubleshooting these potentially complex services and service relationships.

2.3.2 [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.

2.4 Service Assurance features

2.4.1 [NSPF-195650] Service Assurance - add support for composite services

Release introduced: 25.11

This feature adds a brand new troubleshooting dashboard for composite services providing aggregate view of alarms and states to the operator of all contained services and letting the operator drill down to a particular contained service for troubleshooting particular service when determined that such service has issue(s).

2.5 Predefined Intent Types features

2.5.1 [NSPF-428279] Product artifacts to use new Network Intents engine and best practices to achieve 100% SROS

Release introduced: 25.8

This feature extends the Service Management framework to support site-based artifacts alongside unified service artifacts. The site-based artifacts allow for the decomposition of services into separate parts (per site), which provide better handling of very large multi-site services, and also enable more granular control per site audit/align.

The classic SROS attribute coverage the site-based artifacts provide is the same as unified artifacts. Coverage will increase in future artifact releases.

The site-based artifacts provide 100% attribute coverage for MD SROS and SRL, and would be the default artifact for customers using only MD SROS/SRL.

Support of third party is possible with either with a separate site-based artifact based on the third party device model, or extended/augmentation of the SROS site-based artifact if a unified model is required.

The site-based artifacts have been developed with the latest Intent Manger engine (graal) and follow best practices to enable improved coding experience.

Utilizing the latest config form development tools within the Network Intents enables the UI user to have different config forms, which they can use based on - for example - the role of the site they are creating (Mobile Backhaul, Aggregation, Core, Hub site, etc).

2.5.2 [NSPF-442760] Publish collateral & tooling on config form customization

Release introduced: 25.8

This epic introduces the SchemaForm Sandbox. The sandbox can be accessed via a direct URL or from the Workflows or Network Intents views.

Users can use the schemaform sandbox to become familiar with how the components and models work and to view readme documentation for schemaform components. For more information, see the Network Developer Portal.

2.6 Platform features

2.6.1 [NSPF-305576] CLM to issue clear command on 7x50 nodes when removing a license

Release introduced: 25.11

CLM can fully remove a license from an SROS system by issuing a new 7x50 command, starting with SROS release 23.7 or later.

2.6.2 [NSPF-301309] NSP Licensing tracking and reporting in NSP Part 1: Monitor (view) NSP License information + term licensing

Release introduced: 25.8

Feature description

This feature allows customers to visualize their NSP License entitlements as well as their consumption with regards to License Points and Feature Packages (Entitled vs Consumed vs Remaining).

Alarms may be implemented if the consumption approaches or surpasses entitlement for License Points and Feature Packages.

Customer benefit

Customers will be able to see their NSP licensing information in terms of entitlements, as well as consumption for License Points and Feature Packages. With this, customers can take appropriate measures to be within the NSP licensing requirements, while planning for ongoing operations and growth.

Restrictions/Limitations

This feature does not show Consumption for Extended support NEs (NEs at release N-4 and older which no longer qualify for standard support) , nor for AuxDB.

There is no additional NSP enforcement being implemented through this feature.

The topics above will be addressed in separate features.

2.6.3 [NSPF-317790] NSP GUI: Theming

Release introduced: 25.8

NSP Release 25.8 introduces light, dark, and enhanced dark modes to improve information density, responsiveness, and accessibility—meeting color contrast standards while enhancing usability in varied environments.

2.6.4 [NSPF-421864] License Points catalog framework adjustments and license points adjustments

Release introduced: 25.8

Feature description

This feature introduces the ability to update the License Points catalog not only through NSP software releases, but also in-between releases through the Artifacts view, similarly to adaptors. The NSP License Points catalog is versioned and the updates can happen only to a newer version. Once customers upgrade to a newer NSP release, they will upgrade to the newest version of the NSP License Points catalog available, even if they did not do so in between NSP releases.

Customer benefit

This allows the introduction of new Nokia or 3rd party NE hardware in between releases, as well as license policy updates and corrections. Customers benefit from new hardware availability and latest corrections immediately.

Restrictions/Limitations

The ability of the NSP License Points catalog to be updated between NSP releases depends on the NSP installation to be reachable between releases.

There is a dependency for air-gapped NSP installations.

2.6.5 [NSPF-421867] NSP Support for Subscription Licensing: Alarming enhancements

Release introduced: 25.8

This epic introduces support for NSP Subscription licensing, and alarming at subscription term end. Subscription terms can be 1 to 10 years, purchased in yearly increments. As of now, the only consequence for NSP subscription license expiry is that the alarm becomes critical 7 days before NSP license expiry term and every day after that.

In the future, reduced NSP functionality after a grace period will be introduced, if the license subscription is not renewed.

2.6.6 [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.

2.6.7 [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.

2.6.8 [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.

2.7 Path Control features

2.7.1 [NSPF-462362] ISISv6 support of MT=2 Phase 2

Release introduced: 25.11

Support for ISIS MT=2 is extended to the Simulator Tool resolving some configuration problems with properties of links and Flex Algo.

Improved Network Interface configuration on the Link page is also included within the NSP PCE.

2.7.2 [NSPF-250258] Add support for additional PCEP metric object types

Release introduced: 25.8

In NSP 25.8, the delay path metric is added to PCEP messages. This communicates the latency thresholds of a path. Updates to the delay metric are sent down to PCCs via PCUpdate PCEP messages when a path changes or when the LSP is re-signaled after the metric has changed.

2.7.3 [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.

2.8 Network Infrastructure Management - Configuration and Operations features

2.8.1 [NSPF-475492] LSP Name/Alias

Release introduced: 25.11

The NSP GUI will now display an LSP's name without appending the NE ID, which allows for simplified visualization.

2.8.2 [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.

2.9 Network Infrastructure Management - Assurance features

2.9.1 [NSPF-246352] Network wide service Inventory - view service endpoint stats

Release introduced: 25.11

The new NSP network wide inventory GUI allows users to browse services and service components. These lists can be filtered and exported out to files e.g. csv files. And now in 25.11, the advanced filters that users may define can also be saved and reused and reapplied when going back to the network wide inventory GUI. Also, this specific feature here allows users to plot Endpoint / SAP QoS based statistics in context of an endpoint for a given service.

2.9.2 [NSPF-262133] Service Troubleshooting dashboards - Analytics Reports

Release introduced: 25.11

This feature expands the troubleshooting dashboard's reporting capabilities, allowing users to launch analytics reports for a specific target—such as a service, link, port, or network element and view the appropriate detailed or summary report data. The available target-report combinations in this release are:

Port / LAG – Port-LAG Details, Interface Utilization Summary, Interface Utilization Details with Forecast

Network Element – Node Health Details, Link Utilisation Summary

Service – Service Performance Details

2.9.3 [NSPF-500768] NSP Network wide inventory GUI with advanced searching filters and logical inventory

Release introduced: 25.11

The new NSP network wide inventory GUI allows users to browse lists of various equipment e.g. NEs, cards, ports, Links, LSPs, services and service components. These lists can be filtered and exported out to files e.g. csv files. And now in 25.11, the advanced filters that users may define can also be saved and reused and reapplied when going back to the network wide inventory GUI.

2.9.4 [NSPF-233953] Network Inventory - PTP

Release introduced: 25.8

This inventory feature provides operator with visibility of complete objects' statuses and alarms related information of the sync related objects in order for the operator to be able to completely manage their network of Nokia SRs and other vendors' routers.

2.9.5 [NSPF-233955] Network Inventory - SyncE/Sync-IF-Timing/Bits

Release introduced: 25.8

This feature provides operator with visibility of complete objects' statuses and alarms related information of the sync related objects in order for the operator to be able to completely manage their network of Nokia SRs and other vendors' routers.

2.9.6 [NSPF-420549] NSP Network wide inventory GUI and NH Dashboard Updates removals of resource lists

Release introduced: 25.8

The new NSP network wide inventory GUI allows users to browse lists of various equipment e.g. NEs, cards, ports, Links, LSPs, services and service components. These lists can be filtered and exported out to files e.g. csv files. Also note that the equivalent resource lists that existed prior to this within the network health and summary dashboard no longer exist as they have been moved to this new GUI view.

2.9.7 [NSPF-456327] Troubleshooting dashboards - workflow execution

Release introduced: 25.8

The various NSP troubleshooting dashboards have been enhanced with the option given to operators to execute workflows in the context of a particular resource i.e. NE, port, link or service.

2.9.8 [NSPF-446901] GUI Support for equipment & logical inventory - support for MD and classic for SRs and multi-vendor (Part 3)

Release introduced: 25.4

Within the NSP NE inventory GUI, in-context navigation to Device Configuration information and actions for port objects have been added in to ease access to configuration function in context of a particular port.

2.10 Device Management: Wavence features

2.10.1 [NSPF-501215] ERPS multiple rings management-NFM-P support

Release introduced: 25.11

Supports configuring up to 8 Ring topologies and 8 ERP instances on MSS-4/8 CorEvo nodes using CorEvo, EASv2, CAHD, or EAC.

2.10.2 [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.

2.11 Device Management: SR OS features

2.11.1 [NSPF-422504] Support Firmware Upgrade option in upgrade operations

Release introduced: 25.11

You can upgrade the ROM firmware of a node as a part of a software upgrade operation by enabling the Firmware Upgrade option in the Operation Inputs panel when you configure the operation.

2.11.2 [NSPF-496048] Selectively process accounting files in NFM-P

Release introduced: 25.11

This feature introduces the option to stop collection of all supported accounting files by NFM-P when NSP accounting telemetry is in use. Since NSP accounting telemetry does not collect AA or SAA accounting files, users should be careful in stopping AA and SAA accounting collection in NFM-P. If all collection is stopped AA and SAA records would be lost.

2.12 Automation Frameworks features

2.12.1 [NSPF-228429] Operations Manager | Support for generic target

Release introduced: 25.8

Operations in device management have traditionally been designed to run using network elements as targets.

With this epic, we generalize the framework to allow large-scale use cases using any potential generic target, for example, satellite devices or ports.

2.12.2 [NSPF-475078] Workflows | Action alignment with best practices for advanced filtering and integration with NSP file service

Release introduced: 25.8

This epic introduces system actions in Workflows, for interacting with the NSP file server.

2.13 Analytics features

2.13.1 [NSPF-284317] Node Power & Optical Port Reports (NSP)

Release introduced: 25.11

This feature enables Node Power and Optical Port Reports, letting users run analytics to visualize detailed information on network-element power and voltage.

2.13.2 [NSPF-482328] Network & Service reports optimization

Release introduced: 25.8

In previous releases Network & Service reports that were supported in the NSP were available in both the N&S Reports and NSP Reports menus. With this epic, these reports are now found only in the NSP Reports menu.

The reports previously available in the N&S Reports menu provided data for classic mediation only. The NSP reports support reporting on both classic and model driven mediation.

3 NSP nodal feature descriptions

3.1 Device Management: OmniSwitch features

3.1.1 [NSPF-469613] Require OS6870-P48Z Support

Release introduced: 25.11

As part of this feature, NSP will manage OS6870-P48X which is a fixed-configuration chassis with:

- 48 - 100M/1G/2.5G Multi-gigabit RJ-45 802.3bt PoE (60W) Ports
- 6 - 1G/10G/25G SFP28 VFL/Uplink Ports
- 2 - 40G/100G QSFP28 VFL/Uplink Ports

3.1.2 [NSPF-469620] Require OS6870-V12 Support

Release introduced: 25.8

OS6870-V12 is a new chassis supported in NSP, which is a 1U form factor with twelve 1G/10G/25G SFP28 ports, two 100/200G QSFP56 VFL/stacking ports and one uplink module expansion slot.

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

3.1.4 [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

3.1.5 [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.

3.2 Device Management: 7750 Multi Access Gateway (MAG) features

3.2.1 [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 site, by making the current user plane unavailable for UP selection for a given CP.

3.2.2 [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: While the number of available UPF connections in the primary list of the target profile was below the minimum threshold, new sessions can now be reverted back from backup UPFs to primary UPFs.
- Rebalance Operation: The system has reconnected to a UPF after having been disconnected, which requires rebalancing of sessions among the available UPFs in the primary list of the target profile.

4 NSP Release 25 features at a glance

4.1 Automation feature list

4.1.1 NSP automation features

Table 4-1 NSP Release 25.11

Key	Summary	Area
[NSPF-284317]	Node Power & Optical Port Reports (NSP)	Analytics
[NSPF-422504]	Support Firmware Upgrade option in upgrade operations	Device Management: SR OS
[NSPF-496048]	Selectively process accounting files in NFM-P	Device Management: SR OS
[NSPF-466982]	Integration testing of NSP 25.8 with WaveSuite	IP/Optical Coordination
[NSPF-246352]	Network wide service Inventory - view service endpoint stats	Network Infrastructure Management - Assurance
[NSPF-262133]	Service Troubleshooting dashboards - Analytics Reports	Network Infrastructure Management - Assurance
[NSPF-500768]	NSP Network wide inventory GUI with advanced searching filters and logical inventory	Network Infrastructure Management - Assurance
[NSPF-250944]	Discovery and management of an additional 3k md NEs and their services - Infra setup and benchmark	Network Infrastructure Management - Configuration and Operations
[NSPF-475492]	LSP Name/Alias	Network Infrastructure Management - Configuration and Operations
[NSPF-462362]	ISISv6 support of MT=2 Phase 2	Path Control
[NSPF-105469]	NSP Licensing tracking and reporting in NSP Part 2: Alarming on LP, FP, Extended Support	Platform
[NSPF-232888]	User Access Control - Enforce scope of command - Phase 2	Platform
[NSPF-252054]	Improved User Experience for SSH/Telnet Sessions to Network Elements	Platform
[NSPF-305576]	CLM to issue clear command on 7x50 nodes when removing a license	Platform
[NSPF-446261]	Installation: Support installation of NSP containerized workloads without cluster admin	Platform

Table 4-1 NSP Release 25.11 (continued)

Key	Summary	Area
[NSPF-467959]	NSP deployment on customer's OpenShift platform - production (LA)	Platform
[NSPF-476312]	Support bulk retrieve/delete of files	Platform
[NSPF-492287]	Support redundant LDAP servers	Platform
[NSPF-513398]	Add pod description in pod down alarms	Platform
[NSPF-446190]	Support a small profile with specific analytics reports	Private Wireless
[NSPF-195650]	Service Assurance - add support for composite services	Service Assurance
[NSPF-425358]	Revisit composite framework	Service Management
[NSPF-493953]	Support optional human-readable Kafka topic IDs	Telemetry, OAM, Mediation

Table 4-2 NSP Release 25.8

Key	Summary	Area
[NSPF-312620]	Analytics - data-sync-app enhancements	Analytics
[NSPF-482328]	Network & Service reports optimization	Analytics
[NSPF-228429]	Operations Manager Support for generic target	Automation Frameworks
[NSPF-441257]	Downstream adaptors - ArtifactMgmt System-wide support	Automation Frameworks
[NSPF-475078]	Workflows Action alignment with best practices for advanced filtering and integration with NSP file service	Automation Frameworks
[NSPF-484189]	Artifacts Selective installation of artifacts within a bundle	Automation Frameworks
[NSPF-466975]	Integration testing of NSP 25.4 with WaveSuite R24.12	IP/Optical Coordination
[NSPF-233953]	Network Inventory - PTP	Network Infrastructure Management - Assurance
[NSPF-233955]	Network Inventory - SyncE/Sync-IF-Timing/Bits	Network Infrastructure Management - Assurance
[NSPF-420549]	NSP Network wide inventory GUI and NH Dashboard Updates removals of resource lists	Network Infrastructure Management - Assurance
[NSPF-446275]	Enterprise: inventory views	Network Infrastructure Management - Assurance
[NSPF-456327]	Troubleshooting dashboards - workflow execution	Network Infrastructure Management - Assurance
[NSPF-250258]	Add support for additional PCEP metric object types	Path Control

Table 4-2 NSP Release 25.8 (continued)

Key	Summary	Area
[NSPF-206141]	Eliminate fixed configurations on NSP Kubernetes Platform	Platform
[NSPF-246465]	User Access Control - Enforce scope of command - Phase 1	Platform
[NSPF-301309]	NSP Licensing tracking and reporting in NSP Part 1: Monitor (view) NSP License information + term licensing	Platform
[NSPF-317790]	NSP GUI: Theming	Platform
[NSPF-421864]	License Points catalog framework adjustments and license points adjustments	Platform
[NSPF-421867]	NSP Support for Subscription Licensing: Alarming enhancements	Platform
[NSPF-424073]	Verify signature when importing artifacts into NSP Kubernetes Platform	Platform
[NSPF-444514]	Support max sessions for specific user accounts	Platform
[NSPF-458140]	Installation - Configure Brute Force Detection settings in UI	Platform
[NSPF-476939]	Update NSP K8S Platform Packages - 25.8	Platform
[NSPF-481595]	Installation: Automated NSP Kubernetes Platform upgrade	Platform
[NSPF-489867]	New, subscription-based NSP license types "Subscription" and "Subscription-lab"	Platform
[NSPF-428279]	Product artifacts to use new Network Intents engine and best practices to achieve 100% SROS	Predefined Intent Types
[NSPF-442760]	Publish collateral & tooling on config form customization	Predefined Intent Types
[NSPF-483625]	Critical attributes gaps to be addressed in 2025	Predefined Intent Types
[NSPF-477179]	Auto create parent service when using the move API	Service Management
[NSPF-483615]	Remove topology map from Service Management	Service Management
[NSPF-257961]	ETH-CFM Facility MEPs on Interfaces	Telemetry, OAM, Mediation
[NSPF-446423]	CN Telemetry - selective accounting policy collection for Classic NEs	Telemetry, OAM, Mediation
[NSPF-458081]	TWAMP Light Support for OAM Testing on Classic Managed 7705s and 7210s	Telemetry, OAM, Mediation
[NSPF-469245]	TSC: Dashlet for slice latency report	Transport Slice Operations

Table 4-3 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

Table 4-3 NSP Release 25.4 (continued)

Key	Summary	Area
[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
[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

Table 4-3 NSP Release 25.4 (continued)

Key	Summary	Area
[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 4-4 NSP Release 25.11

Key	Summary
[NSPF-478289]	Support to DDM optical alarms in MD SROS
[NSPF-488723]	W25A Support
[NSPF-488746]	Discontinue of 21A/22 release
[NSPF-489821]	UBT-S2 support

Table 4-5 NSP Release 25.8

Key	Summary
[NSPF-457142]	Implement ISA NAT and WLAN-GW alarms for MD SROS
[NSPF-466202]	New SAR Chassis 7705 SAR-1 support

Table 4-6 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 4-7 NSP Release 25.11

Key	Summary
[NSPF-455596]	24p 100GSFP112MDA2-s(SR-1s SR-2s SR-7s SR-145)
[NSPF-455599]	Support to 10p100QSFP28MDA2-e-XP
[NSPF-455602]	Support to 16p 100G SFP112 MDA2-e-XP
[NSPF-465640]	7705 SAR: Support SyncE or PTP/IEEE 1588v2 as a tertiary source
[NSPF-465668]	Support for QSFP-DD 800G ZR+ on FP5 hardware
[NSPF-469613]	Require OS6870-P48Z Support
[NSPF-472625]	AOS 8.10 R03 Support

Table 4-7 NSP Release 25.11 (continued)

Key	Summary
[NSPF-489949]	7250 IXR-e3c
[NSPF-500213]	MACSec and MACSec QSFP VLAN features for SR
[NSPF-500243]	7250 IXR : IP-GRE tunnel (IPv4/IPv6 over GRE over IPv4) support in Base and VPRN routing instance
[NSPF-501215]	ERPS multiple rings management-NFM-P support
[NSPF-509076]	7250 IXR-eAx (GNSS and non-GNSS) QSFP28 dynamic temperature control
[NSPF-509098]	MACSec for IXR-R6d/R6dl Kitzbuhe _q/s56 VLAN in clear
[NSPF-510986]	Support of c1-800G QSFP112-DD breakouts on FP5
[NSPF-511197]	Oper-Group Support for LAG
[NSPF-511242]	IPv4/IPv6 filter action fc on egress
[NSPF-511355]	MACSec QSFP VLAN (VLAN in clear, multiple VLAN) for me16-25gb-sfp28+2-100gb-qsfp28
[NSPF-511498]	AnySec Service Based Encryption
[NSPF-511509]	7210 SAS - SSH strong host keys support
[NSPF-511939]	IGMP/MLD Snooping per-SG EVPN-MPLS/VXLAN nexthop ECMP
[NSPF-512149]	7210 SAS: IP Prefix List Support for ACL and MAF

Table 4-8 NSP Release 25.8

Key	Summary
[NSPF-294775]	Support of c1-100g-aur1 for SFP112 optics on FP5 SFP-DD connectors
[NSPF-465549]	IP Prefix List Support for ACL and MAF 7210 SAS - K12, K30, SAS-Sx/S 1/10GE
[NSPF-465815]	Support to CPE Ping for EPIPE on 7210 SAS-K
[NSPF-465906]	Support to 7705 SAR-1 Gen 2
[NSPF-469620]	Require OS6870-V12 Support
[NSPF-489893]	Support to 2p 100G QSFP28 + 2p 800G QSFP-DD MDA2-e-XP
[NSPF-489900]	Support to 8p 100G SFP112 + 2p 800G QSFP-DD MDA2-e-XP
[NSPF-490912]	Support to BNG IPv6 shunt interface - Certification

Table 4-9 NSP Release 25.4

Key	Summary
[NSPF-276269]	IEEE support for c1-800G breakouts on FP5

Table 4-9 NSP Release 25.4 (continued)

Key	Summary
[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