# NOKIA

# NSP
# Network Services Platform
Release 25.8

# Release Description

3HE-21463-AAAB-TQZZA
Issue 1
September 2025

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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.

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# 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 — 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.

# 2 NSP NMS 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.

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## 2.2    Telemetry, OAM, Mediation features

### 2.2.1  [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.

### 2.2.2  [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.

### 2.2.3  [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.

### 2.2.4  [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-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.

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## 2.4   Predefined Intent Types features

### 2.4.1   [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.

Utilising 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 Platform features

### 2.5.1 [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.

### 2.5.2 [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.

### 2.5.3 [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.

### 2.5.4 [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.

### 2.5.5 [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.

### 2.5.6 [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.

### 2.5.7 [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.

## 2.6 Path Control features

### 2.6.1 [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.

### 2.6.2 [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.

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## 2.7 Network Infrastructure Management - Configuration and Operations features

### 2.7.1 [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.

## 2.8 Network Infrastructure Management - Assurance features

### 2.8.1 [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.

### 2.8.2 [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.

### 2.8.3 [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.

### 2.8.4 [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.

### 2.8.5 [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.

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

**Release introduced:** 25.4

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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.

## 2.9 Device Management: Wavence features

### 2.9.1 [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.

## 2.10 Automation Frameworks features

### 2.10.1 [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.

### 2.10.2 [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.

## 2.11   Analytics features

### 2.11.1  [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.

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# 3 NSP nodal feature descriptions

## 3.1 Device Management: OmniSwitch features

### 3.1.1 [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.

### 3.1.2 [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

### 3.1.3 [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

### 3.1.4 [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 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: 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   NMS feature list

### 4.1.1  NSP NMS features

*Table 4-1*   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 |
| [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 |

*Table 4-1* NSP Release 25.8 (continued)

| Key | Summary | Area |
|---|---|---|
| [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-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 4-2* 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 |

*Table 4-2*   NSP Release 25.4   (continued)

| Key | Summary | Area |
|---|---|---|
| [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 |
| [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 4-3*    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 4-4*    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 4-5*    NSP Release 25.8

| Key | Summary |
|---|---|
| [NSPF-294775] | Support of c1-100g-aui1 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 4-6*    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 |

*Table 4-6*   NSP Release 25.4   (continued)

| Key | Summary |
|---|---|
| [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 |