



Release Notes for NSO SMI AFP, Release 2026.03.1



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NSO SMI Automation Function Pack, 2026.03.1

The NSO SMI Automation Function Pack is a collection of multiple packages including the cisco-smi-deployer (previously referred to as the SMI Core Function Pack).

The key highlights of this release include:

- **DLM (Data Layer Manager) Network Function support:** This enhancement enables lifecycle and configuration management for DLM NFs within SMI AFP. It streamlines deployment using new parameters and existing automation to ensure operational consistency.
- **NSO support for ULB (Unified Load Balancer) lifecycle and configuration management:** This enhancement extends NSO support to include the lifecycle and configuration management of the ULB.

For more information on SMI AFP, see the [Related resources](#) section.

Release lifecycle milestones

The following table provides EoL milestones for NSO SMI AFP software:

Table 1. EoL milestone information for NSO SMI AFP, 2026.03.1

Milestone	Date
First Customer Ship (FCS)	23-July-2026
End of Life (EoL)	23-July-2026
End of Software Maintenance (EoSM)	22-Jan-2028
End of Vulnerability and Security Support (EoVSS)	31-Jan-2028
Last Date of Support (LDoS)	31-Jan-2029

These milestones and the intervals between them are defined in the [Cisco Ultra Cloud Core \(UCC\) Software Release Lifecycle Product Bulletin](#) available on cisco.com.

New software features

This section provides a brief description of the new software features introduced in this release.

Table 2. New software features for SMI AFP, 2026.03.1

Product impact	Feature	Description
Software Reliability	Lifecycle and configuration management of DLM Network Function	AFP supports lifecycle and configuration management for the DLM Network Function, introducing new function object parameters for deployment while utilizing existing mop-automation workflows for configuration.
Software Reliability	Lifecycle and configuration management of the ULB	AFP supports lifecycle and configuration management of the Unified Load Balancer (ULB), leveraging automated workflows to streamline deployment and ensure operational consistency.

Changes in behavior

There are no behavior changes in this specific software release.

Resolved issues

This table lists the resolved issues in this specific software release.

Note: This software release may contain bug fixes first introduced in other releases. To see additional information, click the bug ID to access the [Cisco Bug Search Tool](#). To search for a documented Cisco product issue, type in the browser: <bug_number> site:cisco.com.

Table 3. Resolved issues for SMI AFP, Release 2026.03.1

Bug ID	Description
CSCwv87952	DLM deploy support on NSO AFP.

Open issues

This table lists the open issues in this specific software release.

Note: This software release may contain bug fixes first introduced in other releases. To see additional information, click the bug ID to access the [Cisco Bug Search Tool](#). To search for a documented Cisco product issue, type in the browser: <bug_number> site:cisco.com.

Table 4. Open issues for SMI AFP, Release 2026.03.1

Bug ID	Description
CSCwq34560	SMI AFP does not allow configuring functions without static NETCONF and SSH ports.
CSCwv10032	SMI AFP needs simultaneous support for regular and nodeport based SSH/NETCONF ports.

Compatibility

This section lists compatibility information of the Cisco UCC software products that are verified to work with this version of the NSO SMI AFP software.

Table 5. Compatibility information for SMI AFP, 2026.03.1

Product	Supported release
CEE	2026.03.1.i01
PCF	2026.03.0
RCM	2026.03.0

Product	Supported release
SMF+cnSGWc	2026.03.0
UPF	21.28.mh40.100907
MSCP	2026.03.0
MSUP	2026.03.0

The NSO SMI AFP software is compatible with the following operating systems:

Table 6. Compatible operating systems for NSO SMI AFP software

OS	Minimum server configuration	Version
Ubuntu	CPU: 8 Cores RAM: 64 GB Disk: 250 GB	18.04 LTS
Red Hat	CPU: 8 Cores RAM: 64 GB Disk: 250 GB	7.3 (Maipo)
CentOS	CPU: 8 Cores RAM: 64 GB Disk: 250 GB	7.4 (Core)
MacOS	CPU: 8 Cores RAM: 64 GB Disk: 250 GB	10.12.6

Note the following product, platform, and runtime requirements for this release:

- NSO: 6.4.8.3
- SMI: 2026.03.1.08
- Python: 3.12.x

Supported software packages

This section provides information about the release packages associated with NSO SMI AFP.

Table 7. Software packages for SMI AFP, 2026.03.1

Software package	Release
ncs-6.4.8.3-nso-smi-afp-2026.03.1.tar.SPA.tgz	SMI AFP version: 2026.03.1
cisco-amf-nc-1.1	1.1.2026.03
cisco-ccg-nc-1.1	1.1.2026.03
cisco-cee-nc-1.1	1.1.2026.03.1.i03
cisco-etsi-nfvo	4.7.8
cisco-nrf-nc-1.1	1.1.2026.03
cisco-pcf-nc-1.1	1.1.2026.03
cisco-rcm-nc-1.1	1.1.2026.03
cisco-smi-deployer	2026.03.1
cisco-smi-dvpc	2026.03.1
cisco-smi-nc-1.1	1.1.2026.03.1.08
cisco-staros-cli-5.55	5.55
cisco-staros-cli-5.57	5.57.5
esc	5.3.0.94
etsi-sol003-gen-1.13	1.13.19
mobility-common	2026.03.1
mobility-ha-subscriber	2026.03.1
mop-automation	2026.03.1
mop-common	2026.03.1
openstack-cos-gen-4.2	4.2.34
resource-manager	4.2.10

Cloud native product version numbering system

The show helm list command displays detailed information about the version of the cloud native product currently deployed.

Figure 1. Cloud native product versioning format and description

Versioning: Format & Field Description	
Where, YYYY.RN.MN[.TTN] [.dN] [.MR][.iBN]	
Where, YYYY → 4 Digit year. • Mandatory Field. • Starts with 2020. • Incremented after the last planned release of year.	TTN → Throttle of Throttle Number. • Optional Field, Starts with 1. • Precedes with "t" which represents the word "throttle or throttle". • Applicable only in "Throttle of Throttle" cases. • Reset to 1 at the beginning of every major release for that release.
RN → Major Release Number. • Mandatory Field. • Starts with 1. • Support preceding 0. • Reset to 1 after the last planned release of a year(YYYY).	DN → Dev branch Number • Same as TTN except Used for DEV branches. • Precedes with "d" which represents "dev branch".
MN → Maintenance Number. • Mandatory Field. • Starts with 0. • Does not support preceding 0. • Reset to 0 at the beginning of every major release for that release. • Incremented for every maintenance release. • Preceded by "m" for bulbs from main branch.	MR → Major Release for TOT and DEV branches • Only applicable for TOT and DEV Branches. • Starts with 0 for every new TOT and DEV branch.
	BN → Build Number • Optional Field, Starts with 1. • Precedes with "t" which represents the word "interim". • Does not support preceding 0. • Reset at the beginning of every major release for that release. • Reset of every throttle of throttle.

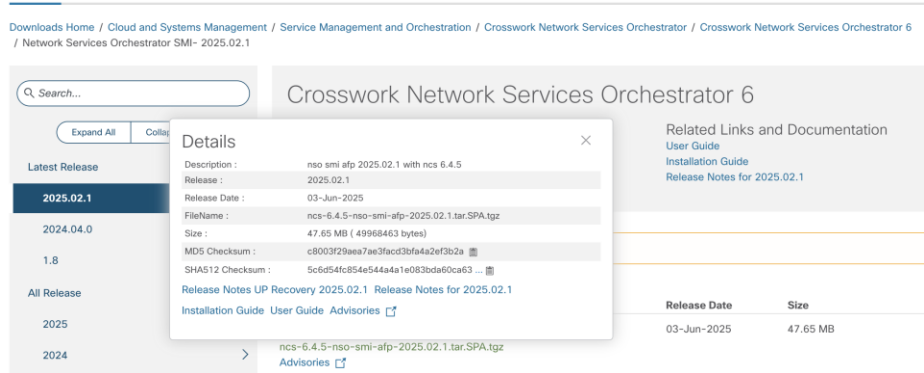
The appropriate version number field increments after a version has been released. The new version numbering format is a contiguous sequential number that represents incremental changes between releases. This format facilitates identifying the changes between releases when using Bug Search Tool to research software releases.

Software integrity version

To verify the integrity of the software image you have from Cisco, you can validate the SHA512 checksum information against the checksum identified by Cisco for the software.

Image checksum information is available through **Cisco.com Software Download Details**. To find the checksum, hover the mouse pointer over the software image you have downloaded.

Figure 2. Sample of NSO SMI AFP software image Software Download



At the bottom you find the SHA512 checksum, if you do not see the whole checksum you can expand it by pressing the "..." at the end.

To validate the information, calculate a SHA512 checksum using the information in the following table and verify that it matches the one provided on the software download page.

To calculate a SHA512 checksum on your local desktop, see this table.

Table 8. Checksum calculations per operating system

Operating System	SHA512 checksum calculation command examples
Microsoft Windows	Open a command line window and type the following command: <code>> certutil.exe -hashfile <filename.extension> SHA512</code>
Apple MAC	Open a terminal window and type the following command: <code>\$ shasum -a 512 <filename.extension></code>
Linux	Open a terminal window and type the following command: <code>\$ sha512sum <filename.extension></code> OR <code>\$ shasum -a 512 <filename.extension></code>
Note: <filename> is the name of the file. <extension> is the file type extension (for example, .zip or .tgz).	

If the SHA512 checksum matches, you can be sure that no one has tampered with the software image or the image has not been corrupted during download.

If the SHA512 checksum does not match, we advise you not to attempt upgrading any systems with the corrupted software image. Download the software again and verify the SHA512 checksum again. If there is a constant mismatch, please open a case with the Cisco Technical Assistance Center.

Certificate validation

NSO SMI AFP software images are signed via x509 certificates. Please view the .README file packaged with the software for information and instructions on how to validate the certificates.

Related resources

This table provides key resources and links to the support information and essential documentation for SMI AFP.

Table 9. Related resources and additional information

Resource	Link
NSO SMI AFP documentation	NSO SMI AFP
Service request and additional information	Cisco Support

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