Release Notes for UCC SMI, Release 2026.01.1.08

Contents

Ultra Cloud Core - Subscriber Microservices Infrastructure, Release 2026.01.1.08

This Release Notes identifies changes and issues related to the release of Ultra Cloud Clore (UCC) Subscriber Management Infrastructure (SMI).

The key highlights of this release include:

- Easier operations: Consistent time-zone support improves monitoring and troubleshooting.
- Smoother upgrades: CDL migrations are now simpler and safer, preparing for future updates.
- Flexible setup: More installation options for Inception, including qcow2 images.
- Better storage control: Enhanced storage configuration for UCS servers allows for improved performance and reliability.
- Stronger security: Data at REST is now encrypted, with options for secure password management.

For more information on SMI, see the Related resources section.

Release lifecycle milestones

This table provides EoL milestones for Cisco UCC SMI software:

Table 1. EoL milestone information for UCC SMI, Release 2026.01.1.08

Milestone	Date
First Customer Ship (FCS)	30-Jan-2026
End of Life (EoL)	30-Jan-2026
End of Software Maintenance (EoSM)	31-July-2027
End of Vulnerability and Security Support (EoVSS)	31-July-2027
Last Date of Support (LDoS)	31-July-2028

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 UCC SMI, Release 2026.01.1.08

Product impact	Feature	Description
Ease of Use	System local time-zone support	SMI supports configuring a consistent system local time zone across the Inception deployer, Cluster Manager, Kubernetes nodes, Cisco Integrated Management Controller (CIMC), and network function pods. Native support ensures log timestamps, dashboards, and troubleshooting data reflect the customer's local time, which improves traceability and audit

Product impact	Feature	Description
		accuracy for operators.
Upgrade	CDL v1.12 to v2.1 migration to KRaft mode	CDL v2.1 introduces Kafka Raft (KRaft) mode to remove the legacy ZooKeeper dependency ahead of Kafka 4.0. This feature guides customers running CDL v1.12 through this release so they can migrate metadata from ZooKeeper to the new controller quorum without data loss, maintain service availability, and prepare for the upcoming release.
Ease of Setup	Support qcow2 image for Inception installation	SMI additionally provides a qcow2 disk image to support deployment of Inception server. Operators can choose either ISO or qcow2 artifacts during release consumption, aligning with native hypervisor requirements.
Hardware Reliability	Multiple volumes and RAID type configuration for UCS servers	You can now provision multiple virtual drives (VDs) with specific RAID policies when deploying SMI Cluster Deployer on Cisco UCS bare-metal servers, instead of being limited to a single, auto-selected boot disk. The enhanced storage adapter model gives you detailed control over controllers, physical drives, and policies, so you can balance performance, resiliency, and workload separation according to your needs.
Ease of Use	ZIP file format support	The CNDP now supports ZIP file format for UPF and VPC-DI software artifact downloads, eliminating the need for manual conversion of CCO-provided ZIP packages. This feature extends the CNDP software download framework to directly download, validate, and extract ZIP files. The system uses the same qcow2 processing workflow as with TGZ files, leveraging ansible.builtin.unarchive for automatic format detection and extraction. This ensures backward compatibility while simplifying image deployment.
Upgrade	Kubernetes version upgrade	With this release, you can upgrade the Kubernetes version from 1.34 to 1.34.3.
Software Reliability	Application data encryption	SMI stores NF application data under /var/log, /data or /mnt/stateful_partition/, historically without encryption. This feature integrates Linux Unified Key Setup (LUKS) disk encryption so clusters can protect data at rest, optionally bind credentials to Trusted Platform Module (TPM) hardware.
Upgrade	Updated version for third-party software	In this release, SMI supports an upgraded version of Containerd, from 1.7.28 to 2.1.4.

Changes in behavior

There are no behavior changes introduced in this 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 UCC SMI, Release 2026.01.1.08

Bug ID	Description
CSCws50508	CM cluster sync is failing when triggered from Inception Server
CSCwr64007	SCSMFI21 internal_atac_epc_cs user unable to login to SCSMFI21/22 and SCSMFD21/22
CSCws77126	SMI deployer not able to validate SPA (signed) images

Open issues

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

Note: This software release may contain open bugs first identified 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 UCC SMI, Release 2026.01.1.08

Bug ID	Description
CSCws67044	CM-HA upgrade from i03 to i05, postgres pod in reload loop
CSCws93847	SMI build 2026.01.1.05 to 2026.01.1.08 upgrade failed on NF Clusters

Known issues

This section provides the important guidelines in this specific software release.

- For dual stack cluster deployments, it is strongly recommended to explicitly configure both node-ipv6 and ssh-ipv6. If you enable node-ipv6 on an existing deployment where it was not previously set up, be sure to redeploy the clusters to apply the changes.
- To install the inception server in Ubuntu 22, the prerequisite is to add the following highlighted part in */etc/docker/daemon.json* file.

```
ubuntu@pyats-inception:~$ cat /etc/docker/daemon.json
{

        "default-address-pools": [{
                "base": "172.50.0.0/16",
                "size": 24
        },
                {
                        "base": "fd01::/80",
                        "size": 96
```

```
                }],
            "log-driver": "journald",
            "live-restore": true,
            "userland-proxy": false,
            "icc": false,
            "ipv6": true,
            "fixed-cidr-v6": "fd00::/80"
}
```

When installing the Inception server on Red Hat Enterprise Linux (RHEL), ensure that the Jinja2 Python package is installed as a prerequisite. You can do this by running the following command:

```
python3 -m pip install Jinja2
```

NOTE: Secure boot remains disabled in this release due to an update of the signing key in Cisco secured Linux.

Compatibility

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

Table 5. Compatibility information for UCC SMI, Release 2026.01.1.08

Product	Supported Release
Cisco UCS M8	4.3(6.250053) 6.0(1.250130)
Cisco UCS C220 M7	4.3(3.240022) 4.3(5.250001)
Cisco UCS C220 M6	4.3(3.240022) 4.3(5.250001)
Cisco UCS C220 M5	4.3(2.250016)

Supported software packages

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

Table 6. Software packages for UCC SMI, Release 2026.01.1.08

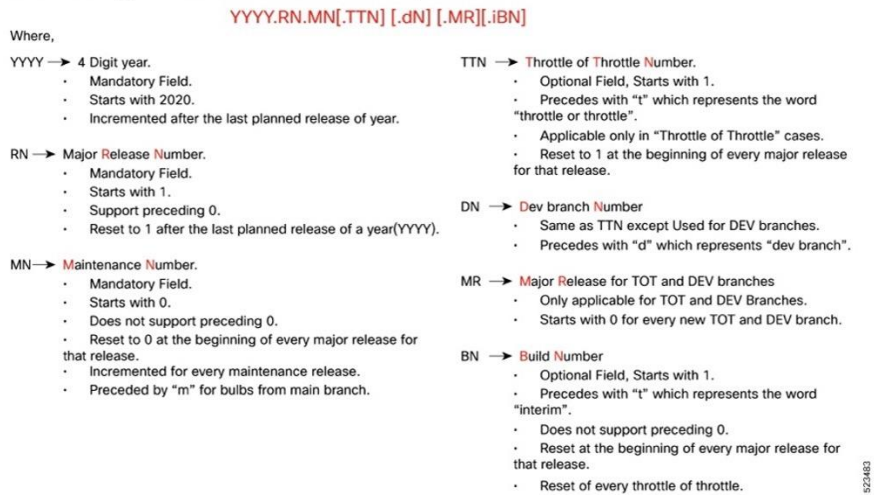
Software Package	Description	Release
smi-install-disk.24.04.0-20260120.iso.SPA.tgz	The application-level POD ISO image signature package for use with bare metal deployments. This package contains the base ISO image as well as the release signature, certificate, and verification information.	24.04.0-20260120
smi-install-disk.24.04.0-20260120.qcow2.SPA.tgz	The application-level POD QCOW image signature package for use with bare metal deployments. This package contains the QCOW image as well as the release signature, certificate, and verification information.	24.04.0-20260120
cee-2026.01.1.08.SPA.tgz	The SMI Common Execution Environment (CEE) offline release signature package. This package contains the	2026.01.1.08

Software Package	Description	Release
	CEE deployment package as well as the release signature, certificate, and verification information.	
cluster-deployer-2026.01.1.08.SPA.tgz	The SMI Deployer image signature package for use with bare metal deployments. This package contains the Deployer image as well as the release signature, certificate, and verification information.	2026.01.1.08
NED package	The NETCONF NED package. This package includes all the yang files that are used for configuration.	ncs-6.4.8.2-cisco-cee-nc-1.1.2026.01.1.08.tar.gz ncs-6.4.8.2-cisco-smi-nc-1.1.2026.01.1.08.tar.gz ncs-6.1.14-cisco-cee-nc-1.1.2026.01.1.08.tar.gz ncs-6.1.14-cisco-smi-nc-1.1.2026.01.1.08.tar.gz
NSO		6.4.8.2 6.1.14

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



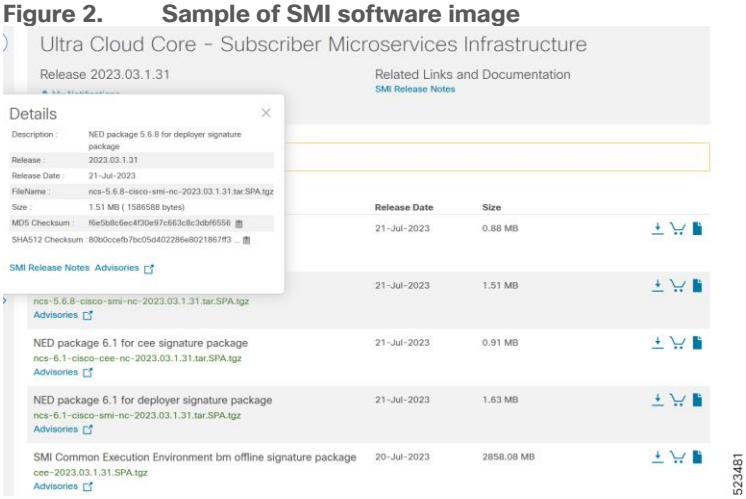
The appropriate version number field increments after a version has been released. The new version numbering format is a contiguous sequential number that represents incremental changes between releases. This format facilitates identifying the changes between releases when using Bug Search Tool to research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



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 7. Checksum calculations per operating system

Operating System	SHA512 checksum calculation command examples
Microsoft Windows	Open a command line window and type the following command: `> certutil.exe -hashfile <filename.extension> SHA512`
Apple MAC	Open a terminal window and type the following command: `$ shasum -a 512 <filename.extension>`

Linux	Open a terminal window and type the following command:
	`$ sha512sum <filename.extension>`
	OR
	`$ shasum -a 512 <filename.extension>`

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 to not 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

SMI 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.

Table 8. Related resources and additional information

Resource	Link
SMI documentation	Subscriber Microservices Infrastructure
Service request and additional information	Cisco Support

Legal information