



# Cisco Common Data Layer

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## Feature Summary and Revision History

### Summary Data

*Table 1: Summary Data*

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| Applicable Product(s) or Functional Area | cnBNG                             |
| Applicable Platform(s)                   | SMI                               |
| Feature Default Setting                  | Disabled - Configuration Required |
| Related Changes in this Release          | Not Applicable                    |
| Related Documentation                    | Not Applicable                    |

### Revision History

*Table 2: Revision History*

| Revision Details                                              | Release   |
|---------------------------------------------------------------|-----------|
| Enhancement Introduced:<br>The CDL feature is NSO-integrated. | 2021.04.0 |
| First introduced.                                             | 2021.01.0 |

# Feature Description



**Note** This feature is Network Services Orchestrator (NSO) integrated.

The Cisco Common Data Layer (CDL) is a high-performance next generation Key-value (KV) data store layer for all the Cloud Native applications. These applications use the CDL as a state management with High Availability (HA) and Geo HA functions. The CDL provides:

- Different Network Functions (NFs) - such as AMF, cnBNG Control Plane, SMF, and PCF - microservices.
- Multi-master support to achieve low latency read and write.
- Pure in-memory storage.
- Session related timers to notify NF on timer expiry.

Deploying CDL provides the following benefits:

- Service-Based Architecture (SBA) with auto discovery and global accessibility.
- High performance, in-memory caching and in-memory data store.
- Container-based solution from the ground up.
- CDL can deploy and scale with simple API calls.
- Geo Redundant Replication among multiple cnBNG clusters.

For detailed information about CDL, refer to the *UCC SMI Common Data Layer Configuration and Administration Guide* at <https://www.cisco.com/c/en/us/support/wireless/ultra-cloud-core-subscriber-microservices-infrastructure/products-installation-and-configuration-guides-list.html>.

## Limitations

The CDL feature has the following limitation on cnBNG.

Geo-redundancy is not supported.