

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: 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.