



PEO
DIGITAL

PROGRAM EXECUTIVE OFFICE DIGITAL & ENTERPRISE SERVICES

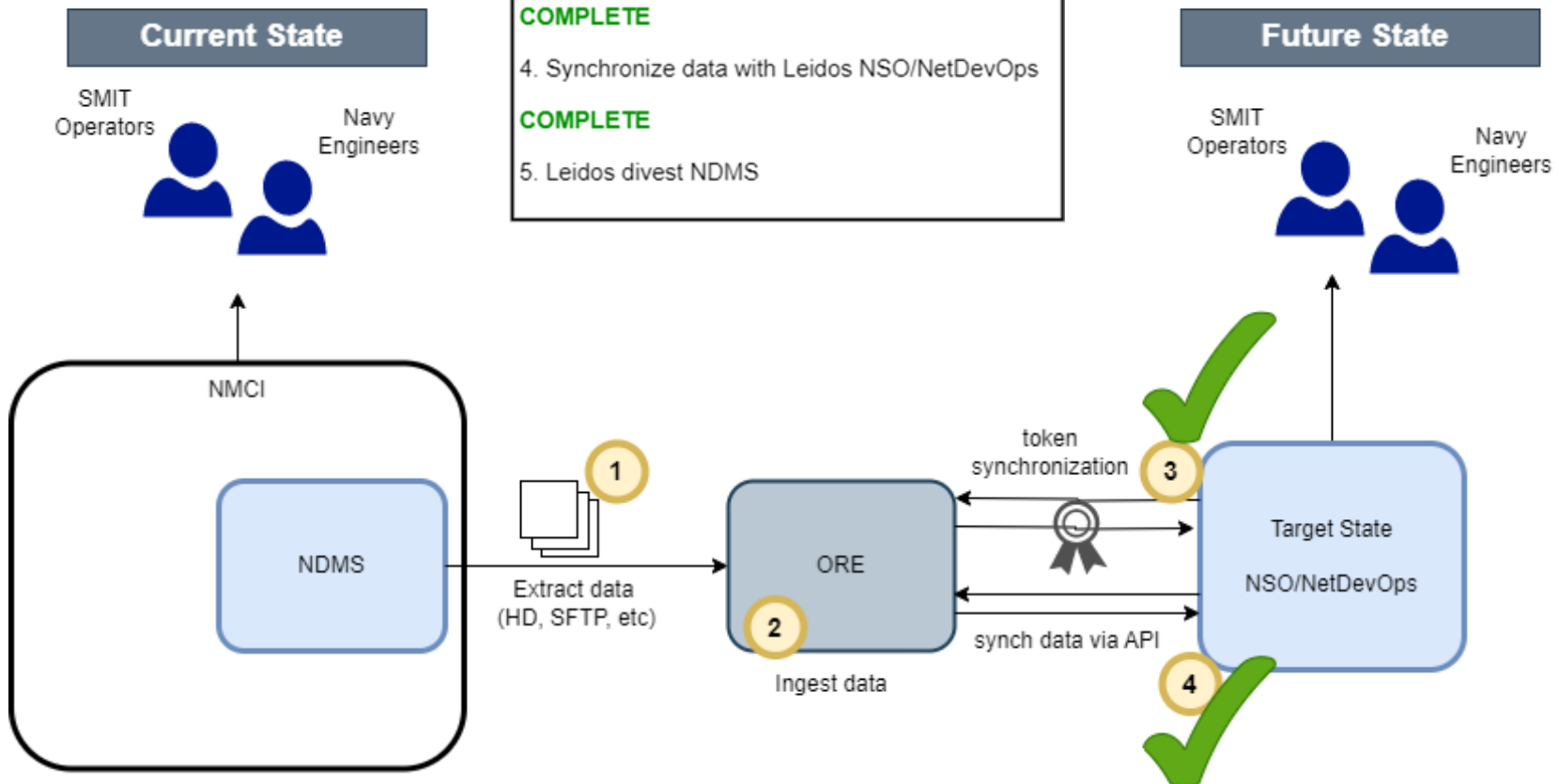
Notional NDMS Divestment Project

NDP ORE Team
2 Twelve Solutions

- Proceed with decommissioning of NDMS and transition to Target Cloud Native system as planned
 - Re-Invent and build upon NDMS capability within a modern, cloud native system (NSO/NetDevOps)
 - Archive all existing NDMS data in NDP ORE so that it can be the data hub
 - Use phased approach with Gov't and SMIT Team focused on greenfield capability development of necessary Networking automation and management capabilities Cisco NSO, CICD pipelines, etc., and ORE Team (2 Twelve) focused on migration and archiving of existing data into ORE with the end-state to consume new data via APIs



- PHASES**
1. Extract data from NDMS
 - STANDBY**
2. Ingest to ORE
 - READY**
3. Obtain keys/tokens for devops tool from Leidos (NSO/NetDevOps tool)
 - COMPLETE**
4. Synchronize data with Leidos NSO/NetDevOps
 - COMPLETE**
5. Leidos divest NDMS



NDMS contains all of the current network device configurations as well as some documentation files. However, the legacy system is not API based and cannot integrate with modern networking systems. The legacy system has been identified to be sunset and transitioned towards target integrated cloud native DevOps system named “NetDevOps.” In order to transition, the data from NDMS must be migrated to a modern, distributed, cloud based system that is reachable via API.

NDMS use case identified and included as #3 of 3 government projects during the NDP ORE Task Order #1. NDMS received approval from Infrastructure APME and COO.

Approach details:

Multiple options exist for the transition and divestment. Both require NDMS and Leidos/Cisco NetDevOps running concurrently until network data discovery system and NMCI platform is fully modernized

COA 1. ORE provides multi-cloud storage for networking data to be ingested into NetDevOps via API. Data is presented and read by NetDevOps system with ORE as the distributed multi-cloud storage back-end until network data discovery system and NMCI platform is fully modernized.

COA 2. ORE provides multi-cloud storage for networking data and ability to present, read, and analyze data. This provides another interface for user interaction with the data during the cutover. Data is still ingested into NetDevOps via API and also presented and read by NetDevOps system with ORE as the distributed multi-cloud storage back-end until network data discovery system and NMCI platform is fully modernized.

The ORE is ready to support both COAs and has already integrated and synchronized with the Leidos/Cisco NetDevOps System

Discovery:

ORE Team (2 Twelve) received NDMS documentation and conducted a technical exchange with SMIT Vendor (Leidos) to understand status, architecture and current capabilities.

Further data rationalization is ongoing to determine data classification. If the COA option requires presentation of the network configuration in the ORE, the data structure/schema and metadata must be provided.

Bridge state:

ORE Team (2 Twelve) has integrated and synchronized with Cisco NSO, a key component of the NetDevOps system and is ready for NDMS assets to be archived and disseminated using the NDP ORE.

Production:

Ore Team (2 Twelve) transitions control and data to production target state system (NetDevOps). SMIT vendor divests the legacy NDMS system

Divestment Business Strategy

