



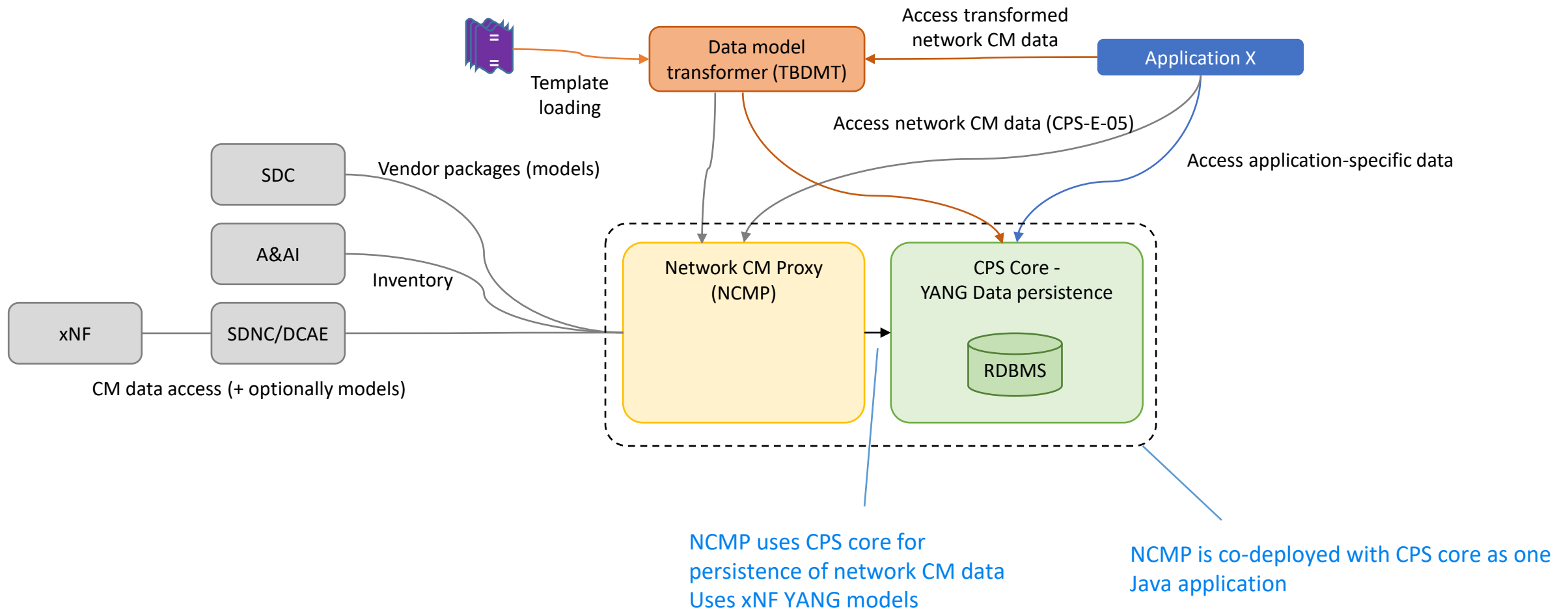
Network CM Proxy (NCMP) – ONAP Rel 1

Ericsson

Network CM Proxy Requirement

- **Executive Summary:** The Network CM Proxy (NCMP) is a component in CPS that will be responsible for Network CM data access and synchronization in order that CPS CM data will be maintained aligned with CM data in the network (e.g. xNF instances). The complete solution will rely on integration with other ONAP components such as SDNC. The Network CM Proxy will also in turn provide an interface for other ONAP applications to access the network CM data. NCMP is an evolution of the CPS NF Proxy component first introduced in Rel H. For release I it is proposed to continue work on use cases such as initial data synchronization and reading and writing of network CM data. Development of this feature is expected to span multiple releases.
- **Business Impact:** CM data management is a central function for many applications and use cases. Network CM Proxy provides a common solution for network CM data management in order to simplify the accessibility from any upper layer components.
- **Business Markets:** This feature applies to any domain (wireless, transport, optical, and wireline) that ONAP may manage.
- **Funding/Financial Impacts:** This feature represents a potential Operating Expense (OPEX) savings for operators because of the ability to retrieve network information and configure networks saving time and expenses.
- **Organization Mgmt, Sales Strategies:** *There is no additional organizational management or sales strategies for this requirement outside of a service providers "normal" ONAP deployment and its attendant organizational resources from a service provider.*

NCMP in Context



Preliminary Rel I Scope

- Adding and removing xNF instances based on inventory change
 - Represented as 'CM Handles' in NCMP
- Sync network model and data (initial and re-sync)
- API functionality (CPS-E-05)
 - Pass-through read and write data
 - Read cached model or data
 - Trigger re-sync

Candidates for Future Releases

- Update NCMP/CPS data cache based on CM notifications from the network
- Providing CM change notifications to other ONAP applications via CPS-E-05
- ...