ONAP
Model Driven Orchestration
Current View

Chaker Al-Hakim
Huawei

ONAP Orchestration Data Model

Service C
Description

Service B

Service A
Description

ONAP Orchestration Data Model transition

Instantiated Services

- Same Model is used to orchestrate any Service
- Is independent of the Cloud infrastructure
- Service-specific Data/Resources can be instantiated during orchestration
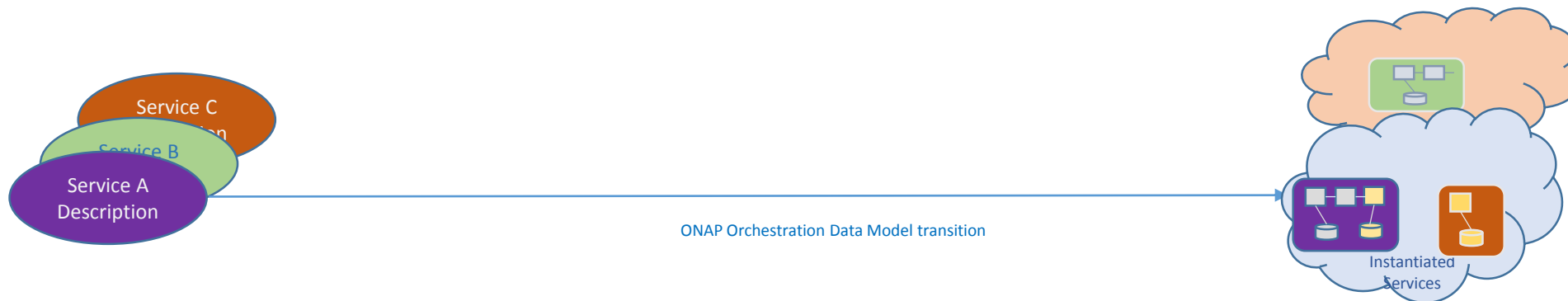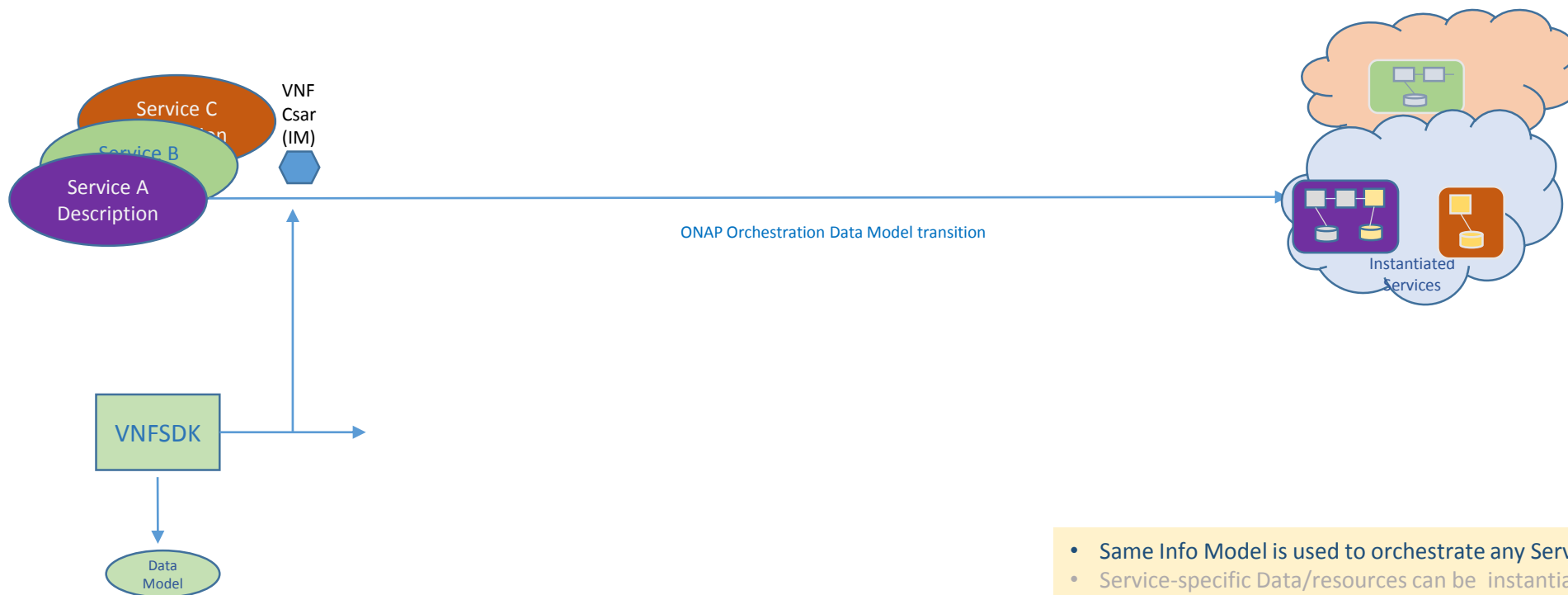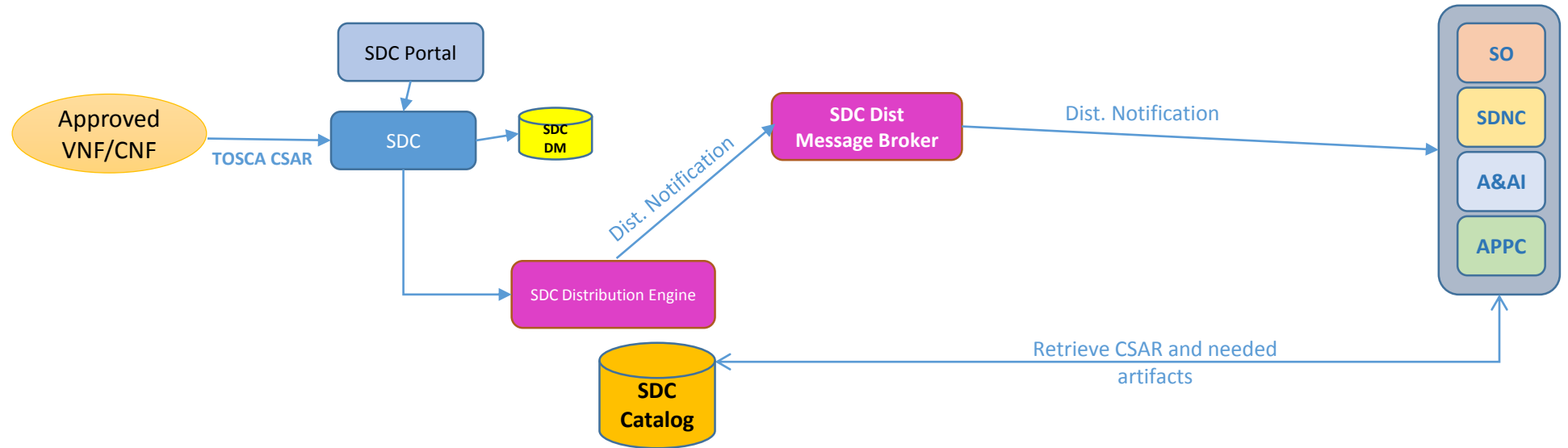- A Common Service instances represents all/any Service(s)

ONAP
OPEN NETWORK AUTOMATION PLATFORM

ONAP Orchestration Data Model
Transition State/timeline

Service C Description

Service B

Service A Description

VNF Csar (IM)

ONAP Orchestration Data Model transition

Instantiated Services

VNFSDK

Data Model

- **Same Info Model is used to orchestrate any Service**
- Service-specific Data/resources can be instantiated during orchestration
- A Common Service instances represents all/any Service(s)
- Is independent of the Cloud infrastructure

THE **LINUX** FOUNDATION

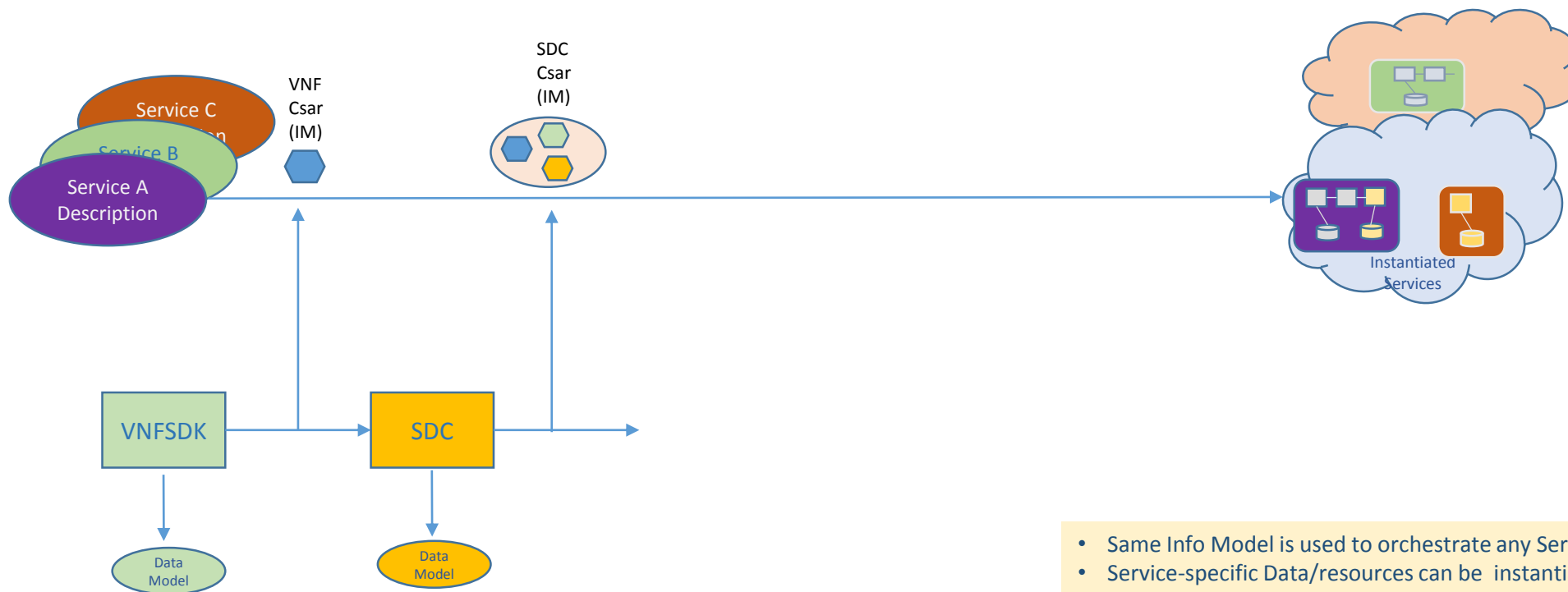ONAP
OPEN NETWORK AUTOMATION PLATFORM

ONAP Service Creation and Onboarding

- VNFSDK provides the TOSCA template for the VNF
- SDC uses the TOSCA template and inputs from SDC Portal to create a complete Service (tosca csar)
- SDC Sends a notification to SO, SDNC, A&AI and APPC that triggers the retrieval of the CSAR

SDC Portal

Approved VNF/CNF

TOSCA CSAR

SDC

SDC DM

SDC Dist Message Broker

Dist. Notification

Dist. Notification

SDC Distribution Engine

SDC Catalog

Retrieve CSAR and needed artifacts

SO

SDNC

A&AI
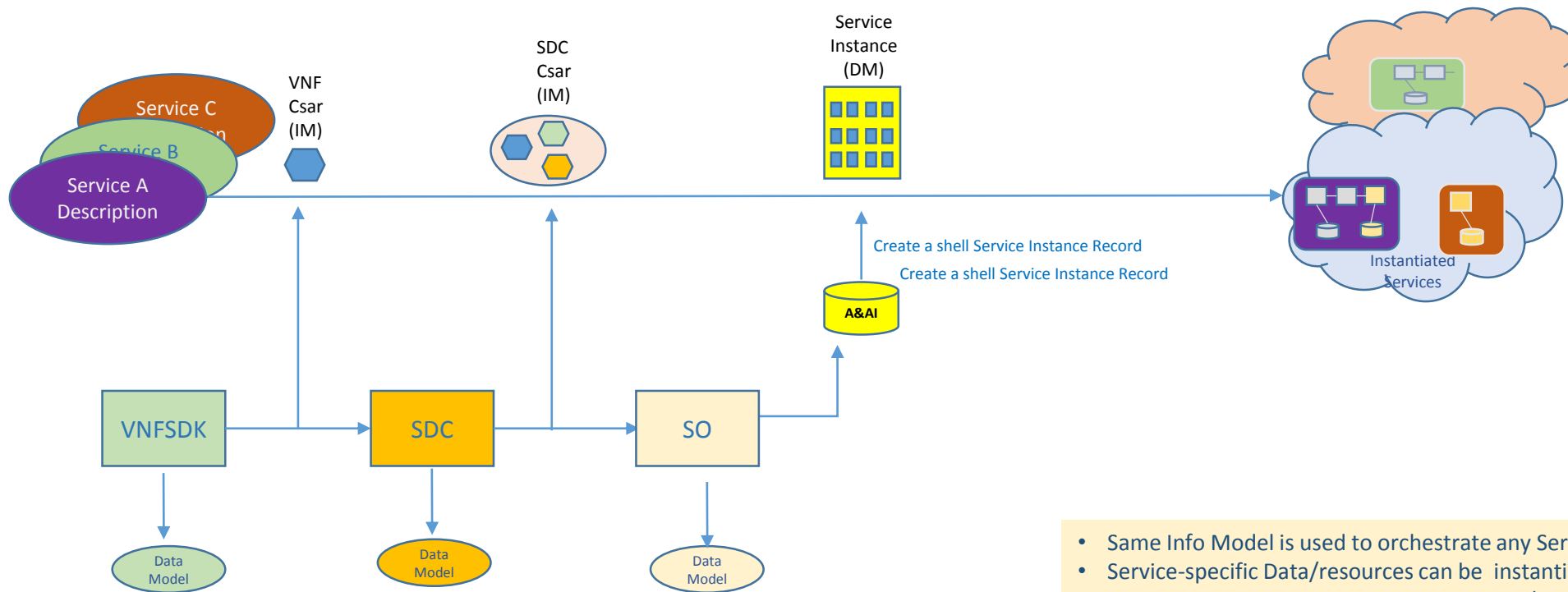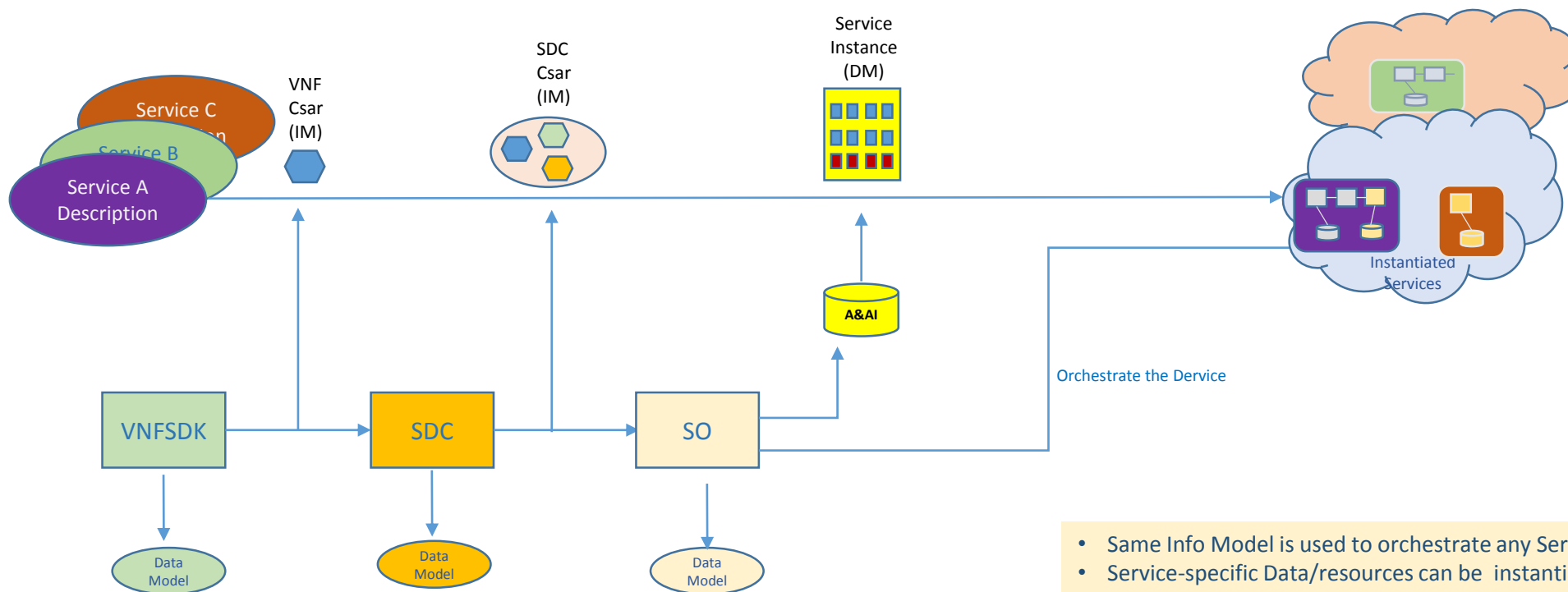
APPC

ONAP Orchestration Data Model
Transition State/timeline

- Same Info Model is used to orchestrate any Service
- Service-specific Data/resources can be instantiated during orchestration
- A Common Service instances represents all/any Service(s)
- Is independent of the Cloud infrastructure

ONAP Orchestration Data Model
Transition State/timeline

Service C
Service B
Service A Description

VNF Csar (IM)

SDC Csar (IM)

Service Instance (DM)

Create a shell Service Instance Record
Create a shell Service Instance Record

A&AI

Instantiated Services

VNFSDK

SDC

SO

Data Model

Data Model

Data Model

- Same Info Model is used to orchestrate any Service
- Service-specific Data/resources can be instantiated during orchestration
- A Common Service instances represents all/any Service(s)
- Is independent of the Cloud infrastructure

ONAP
OPEN NETWORK AUTOMATION PLATFORM

- Same Info Model is used to orchestrate any Service
- Service-specific Data/resources can be instantiated during orchestration
- A Common Service instances represents all/any Service(s)
- Is independent of the Cloud infrastructure
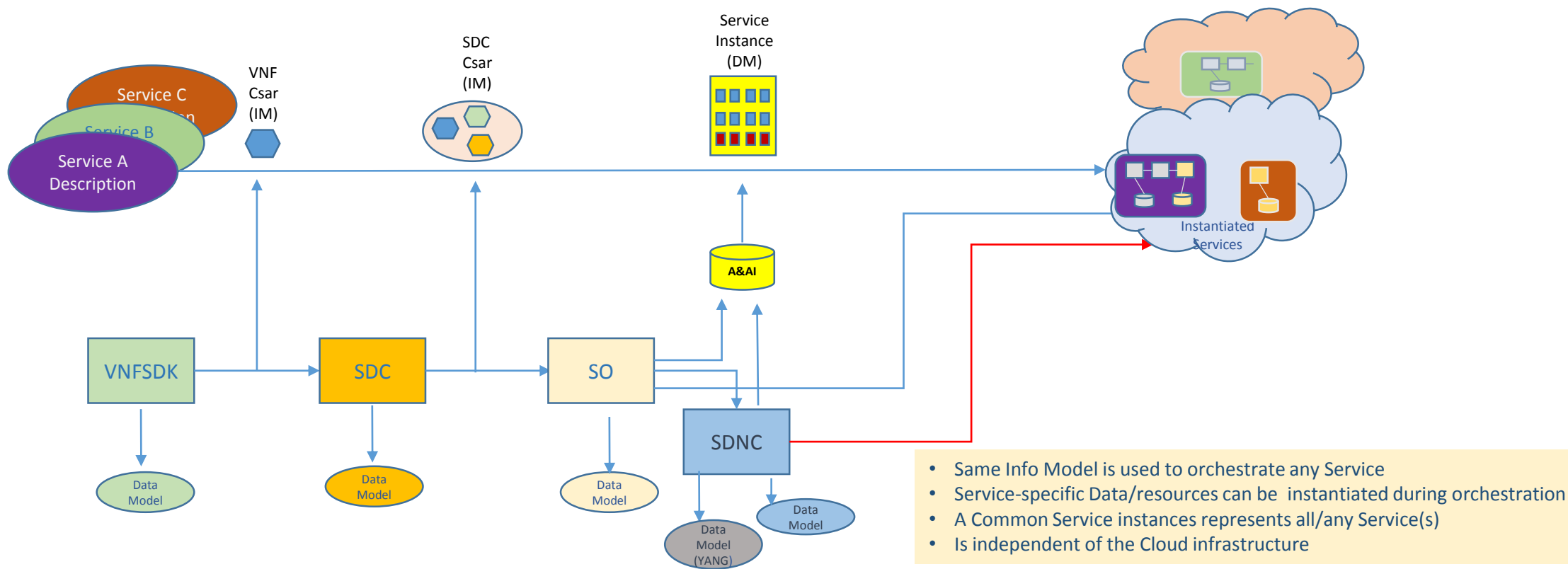
ONAP Orchestration Data Model
Transition State/timeline

Service C
Description

Service B

Service A
Description

VNF
Csar
(IM)

SDC
Csar
(IM)

Service
Instance
(DM)

Instantiated
Services

A&AI

VNFSDK

SDC

SO

SDNC

Data
Model

Data
Model

Data
Model

Data
Model

Data
Model
(YANG)

Data
Model

- Same Info Model is used to orchestrate any Service
- Service-specific Data/resources can be instantiated during orchestration
- A Common Service instances represents all/any Service(s)
- Is independent of the Cloud infrastructure

THE **LINUX** FOUNDATION

ONAP
OPEN NETWORK AUTOMATION PLATFORM

Backup Slides