ONAP modeling subcommittee

THE **LINUX** FOUNDATION

ONAP modeling distribution

- Modeling subcommittee **(modeling spec discussion)**
    - https://wiki.onap.org/display/DW/Modeling+sub-committee

- Modeling subcommittee meetings agenda and minutes
    - https://wiki.onap.org/display/DW/Modeling+sub-committee+meetings

- Modeling Project **(parsers and modeling spec repo)**
    - https://wiki.onap.org/display/DW/Modeling+Project

- **Modeling email: ONAP-DISCUSS, Subject: [modeling]**

- Modeling design principles and guideline
    - https://wiki.onap.org/display/DW/ONAP+Modeling+Design+Principles+and+Guidelines

- ONAP R2 Modeling workspace
    - https://wiki.onap.org/pages/viewpage.action?pageId=16004181

ONAP modeling distribution

VNFSDK (VVP) -> Service Design and Creation (SDC)

VNF-onboarding | VNF-requirement

CLAMP | Policy

1 Deployment

SO

Policy

DCAE

Analysis

2 Close Loop

SDN-C | APP-C | VF-C

VES

SVNFM | EMS

4 SDN

Network Device

VNFs | VNF CT

3 Service Conf.
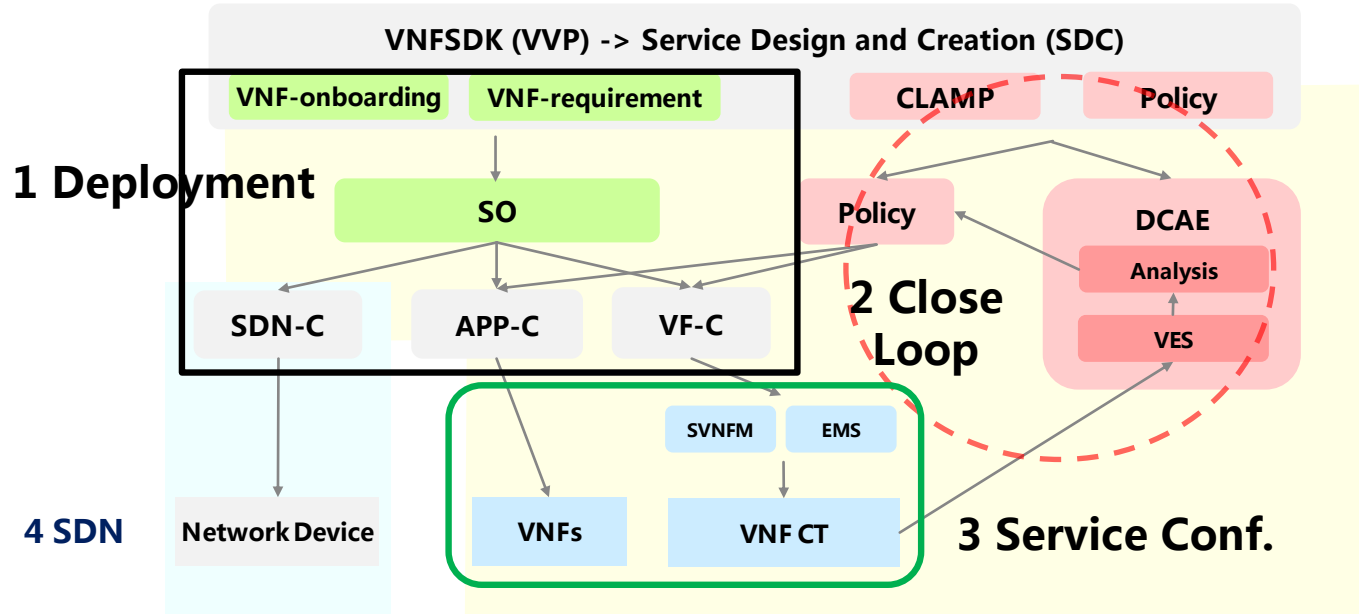
1 Svc. / Rsc. Deployment

- Service：
  - TOSCA YAML based
- Resource：
  - NSD, VNFD, VNF Package
  - TOSCA/Heat Template

2 Close loop Automation

- Close loop：
  - CLAMP: Design
  - VES：collect data
  - Analysis：Microservice models
  - Policy: Operational policy models
  - APP-C/VNF-C：VNF config
- SDC design Close loop
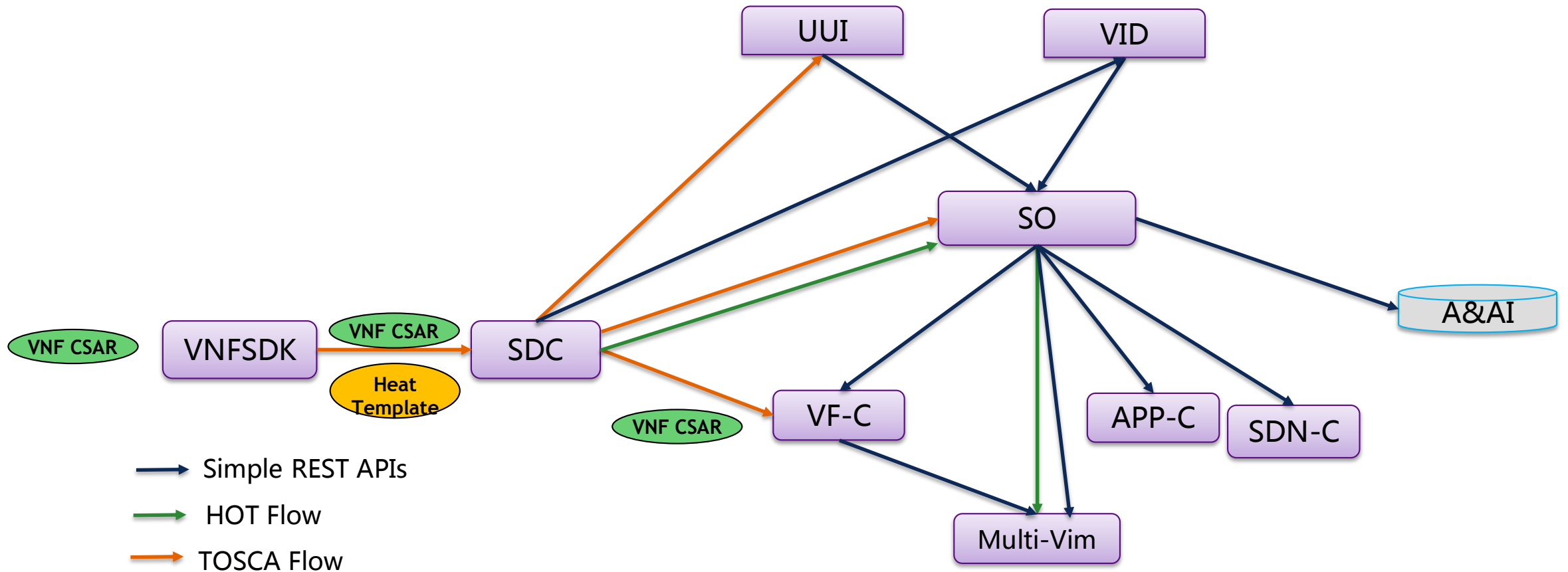
3 Service Config

- YANG or proprietary through EMS

4 SDN

- North bound：
  - SO interface: Generic Resource API
- South bound：
  - SDN Controller native

Currently, modeling subcommittee work focuses on 1 mostly; 2 is discussed in closed loop project

Modeling flows(Service/Resource) for ONAP Release 1/2

ONAP Modeling Design Principles

1. Requirements driven and prioritization per release

2. Based on existing implementation and attempts to maintain backward compatibility

3. Keeps the distinction and consistency between Information Model (IM) and its Data Model (DM) representation(s).

    a) DM can represent the semantics of the IM. DM does not need to match exactly the IM.

    b) DM is pruned and refactored from IM.

4. IM and DM from this effort should be applied across ONAP projects.

5. The modeling subcommittee should not define the feature requirements, but take feature requirements derived from use cases or architecture or implementation projects as input.

ONAP R2+ Modeling workspace

- **Information Model**

  1. ONAP R2+ Service IM workspace

  2. ONAP R2+ Resource IM workspace

- **Design-Time Data Model**

  1. ONAP R2+ Design-Time DM Basics workspace

  2. ONAP R2+ Design-Time Resource DM workspace

  3. ONAP R2+ Design-Time Service DM workspace

- **Run-Time Data Model**

  1. ONAP R2+ Run-Time Resource DM workspace

  2. ONAP R2+ Run-Time Service DM workspace

- **Others**

  ONAP R2+ Naming convention discussion

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R2 modeling Spec report

- **Resource IM**
  - Release 2 Resource IM focus on design time VNFD model, HPA et al.
  - Based on ETSI IFA011 latest spec, with some enhancement
- **Resource DM**
  - Based on TOSCA NFV Profile/SOL001 with IM extension
  - Stretch goal using the same goal for VoLTE/vCPE
- **Service IM**
  - No Consensus has been achieved including WAN/NS
  - Same as R1
- **Service DM**
  - Same as R1

ONAP R3 timeline proposal

ONAP Beijing Release Calendar (TSC Approved)

- No **Modeling** Presence
  - Add Modeling Swim Lane
  - Add Modeling Artifacts for appropriate milestones to Modeling Swim Lane

- M0
  - Only Item in M0 timeframe is "Open Intent To Participate"
  - Add "High Level Infomodel Requirements"

- M1
  - Project Planning / Functional Architecture Defined / Architecture Approved
  - Add "Infomodel Plan Established"
  - Note: Infomodel Updates Begin
  - Note: Data Model Refinements Begin (M1.5)

- M2
  - Functionality Freeze
  - Add "Infomodel Draft"
  - Add "Data Model Draft"
    Note: Feed to Data Dictionary??

- M3
  - API Freeze
  - Add "Infomodel Freeze" (Approval)
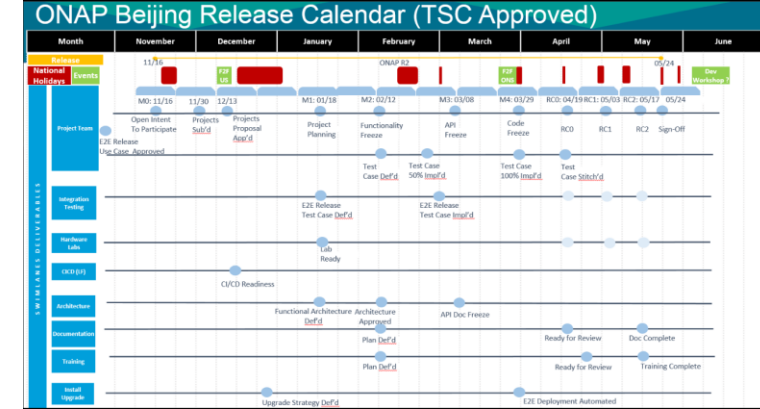 - Add "Data Model Freeze" (Approval – Design Level Compliance)

- M4
  - Code Freeze
  - Add "Infomodel Final"
  - Add "Component Data Model Final"
  - Add "API Final"

- RCx

Observations
- Establishes and Evolves a Common Model
- Project (Component) Team Involvement in Modeling Solution
- Governance of Common Model and Corresponding Component Models

Modeling workshop in ONS 2018 proposal

Objective：
1) Service IM/Resource DM R3
2) Any other R3 modeling related

https://wiki.onap.org/display/DW/ONAP+Sunday+afternoon+modeling+session+in+ONS+2018
Sunday Afternoon:
Venue: TBD, sponsored by MEF
Date: March 25th
Time: 1pm-6pm

https://wiki.onap.org/display/DW/ONAP+Friday+morning+modeling+session+in+ONS+2018
Friday Morning:
Venue: Intercontinental Los Angeles Downtown, sponsored by LFN
Date: March 30th
Time: 8am-1pm