

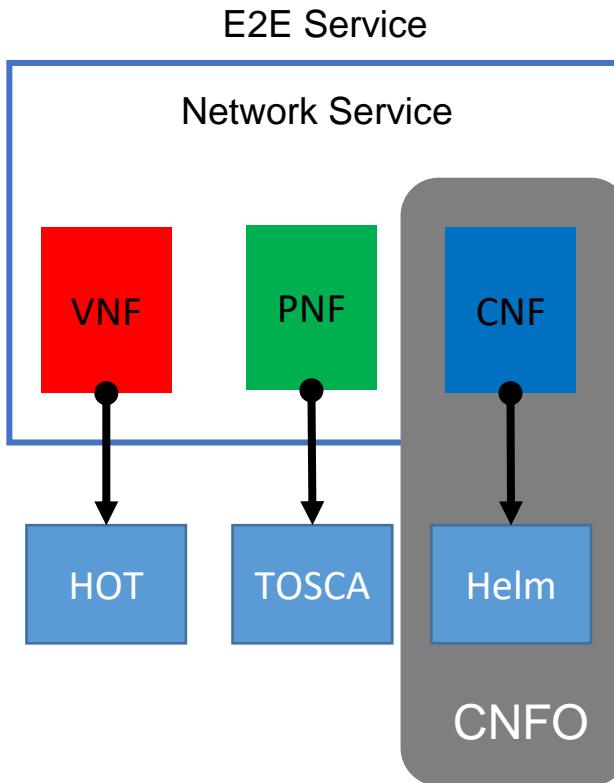
CNF Orchestration

The Summary of the „Direct Path”

Lukasz Rajewski (Orange)

22.02.2022

CNF Orchestration (1)



REQ-341

Guilin

REQ-458

Honolulu

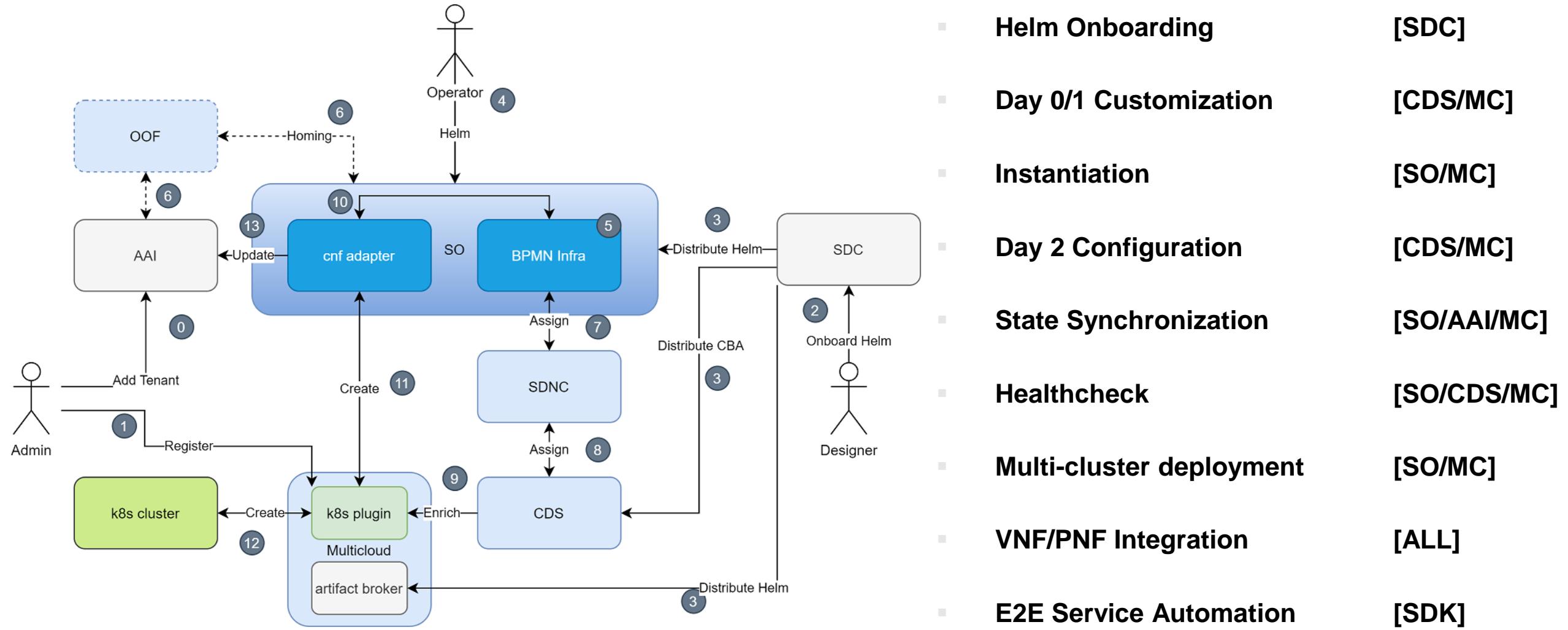
REQ-627

Istanbul

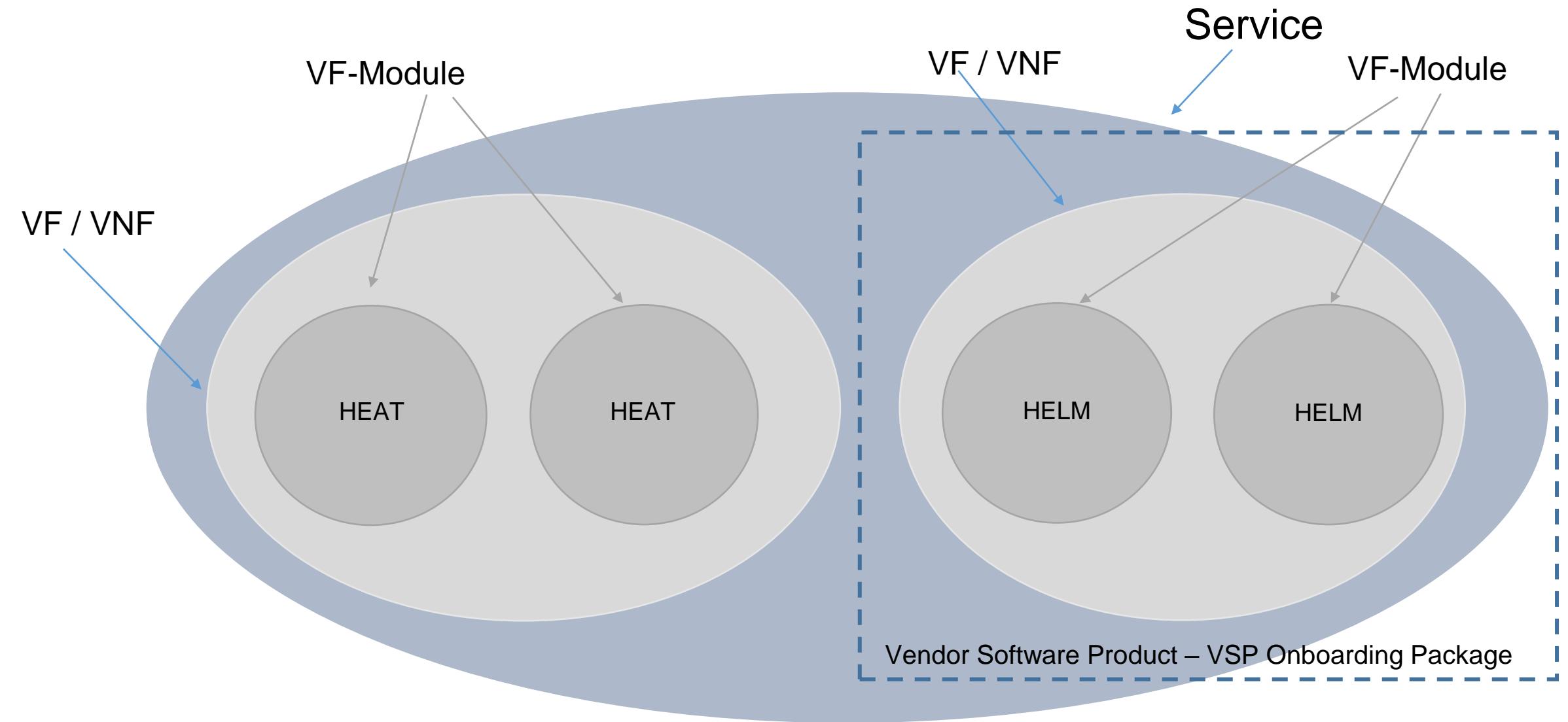
REQ-890

Jakarta

CNF Orchestration (2)



ONAP modeling concept (SDC)



CNF Onboarding for „Direct Path”

Vendor Software Product – VSP Onboarding Package

```
{  
  "name": "simpleCNF",  
  "description": "",  
  "data": [  
    {  
      "file": "CBA.zip",  
      "type": "CONTROLLER_BLUEPRINT_ARCHIVE"  
    },  
    {  
      "file": "helm_apache.tgz",  
      "type": "HELM",  
      "isBase": "true"  
    }  
  ]  
}
```

The screenshot shows the ONAP Controller Design Studio interface. At the top, there's a header with the product name 'VF_apache_k8s_demo_...' and version 'V1.0'. A 'CERTIFIED' badge is present. To the right are buttons for 'Upgrade Services' (blue) and 'Check Out' (green). Below the header is a sidebar with navigation links: General, Deployment Artifact (which is selected and highlighted in blue), Information Artifact, TOSCA Artifacts, Composition, Operation, Activity Log, Deployment, Properties Assignment, Attributes & Outputs, and Req. & Capabilities. The main content area is titled 'Deployment Artifact' and contains a table listing various files and their details:

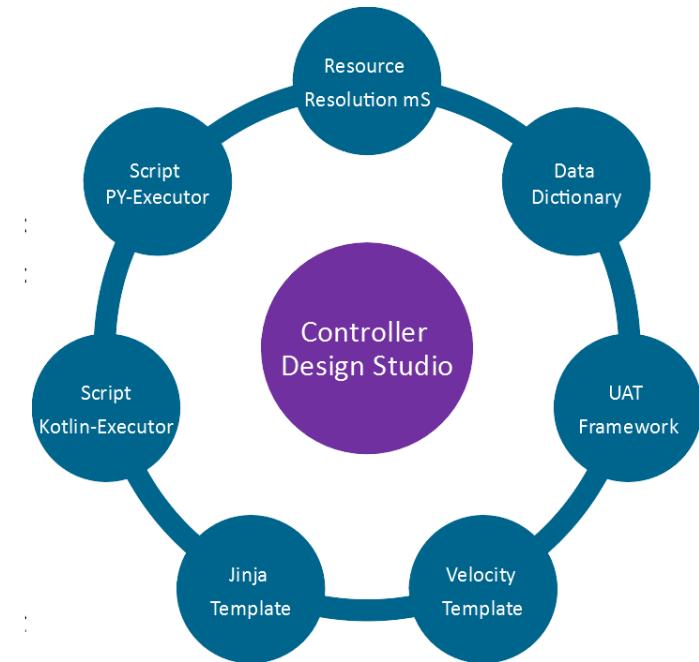
Name	Filename	Type	Version	UUID	Action
VF License	vf-license-model.xml	VF_LICENSE	1	c91b7193-648c-42f7-8290-45	Download
base_template_dummy_ignor	base_template_dummy_ignor	HEAT	1	93d2a206-7ec6-41b7-92bb-d	Download
VF HEAT ENV	base_template_dummy_ignor	HEAT_ENV	1	e8f04e4b-069f-4159-9032-01	Download
Vendor License	vendor-license-model.xml	VENDOR_LICENSE	1	b0c5616a-b20a-414f-b5b6-87	Download
CBA	CBA.zip	CONTROLLER_B	1	065d2de4-ea29-4215-a936-c8	Download
helm_apache	helm_apache.tgz	HELM	1	f4134c48-43f4-420f-a00c-514	Download

- Standard Simple VSP Package (ZIP)
- Only Helm + CBA
- No Docker Images embedded
- In the future may be replaced with ASD
- Service -> VF -> VF-Module (Helm Package)
- One VSP may have many Helm packages
 - Inputs resolved by Controller Design Studio (CDS)
 - Helm dependencies specified in the service creation SO inputs
 - Helm Hooks & CDS CNF Configuration Deployment used for advanced coordination of Helm deployment

CDS – Model Driven Controller for CNFs

CBA - Controller Blueprint Archive

Definitions	
└ blueprint.json	Overall TOSCA service template (workflow + node_template)
Environments	Contains *.properties files as required by the service
Plans	Contains Directed Graph
Scripts	Contains scripts
└ python	Python scripts
└ kotlin	Kotlin scripts
TOSCA-Metadata	
└ TOSCA.meta	Meta-data of overall package
Templates	Contains combination of mapping and template



- Resolving Day/2 Inputs base on the orchestration request inputs
- Integration with external systems (OSS/BSS) i.e. for inputs resolving
- Helm customization and enrichment
- Execution of Day2 CNF reconfiguration



Thank You!