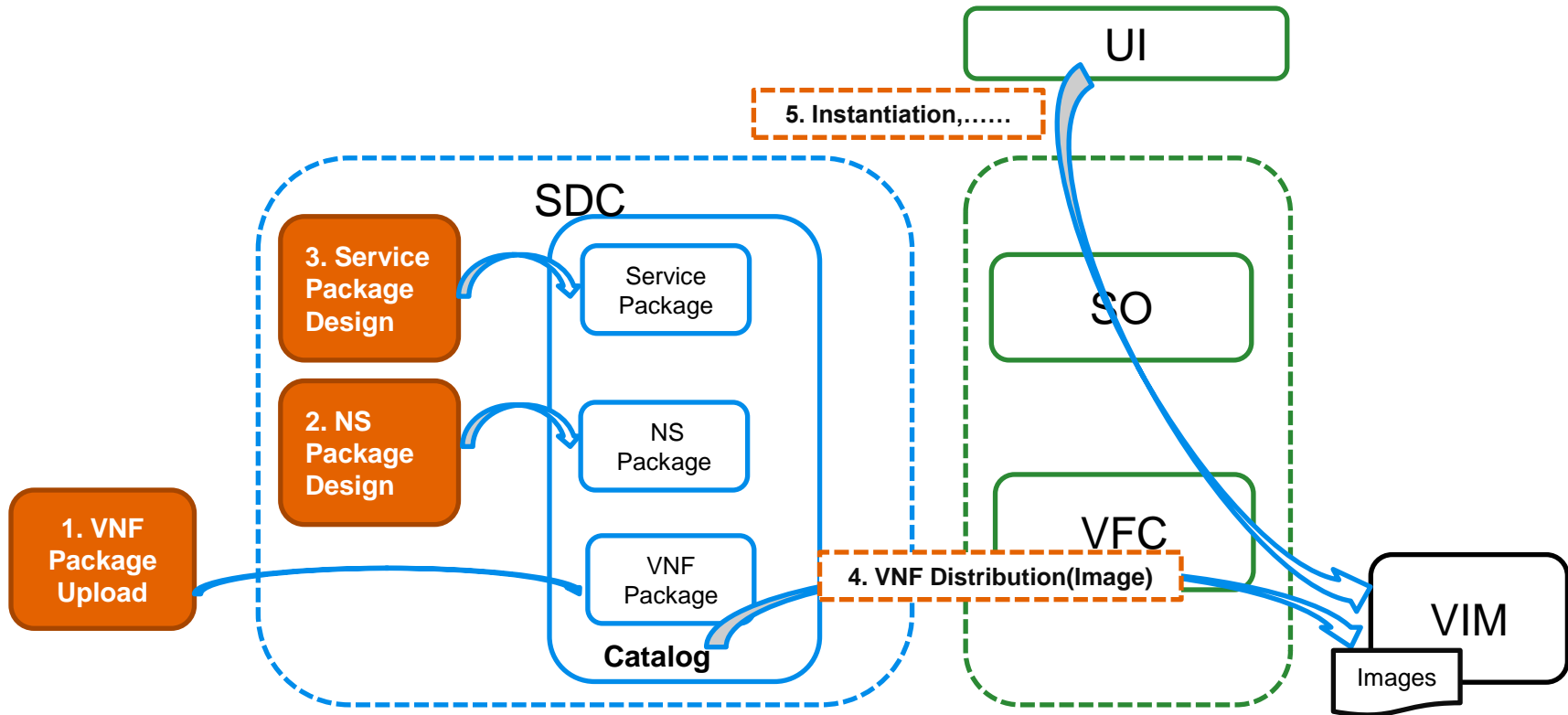# ONAP SDC&VFC Integration

Maopeng Zhang ZTE
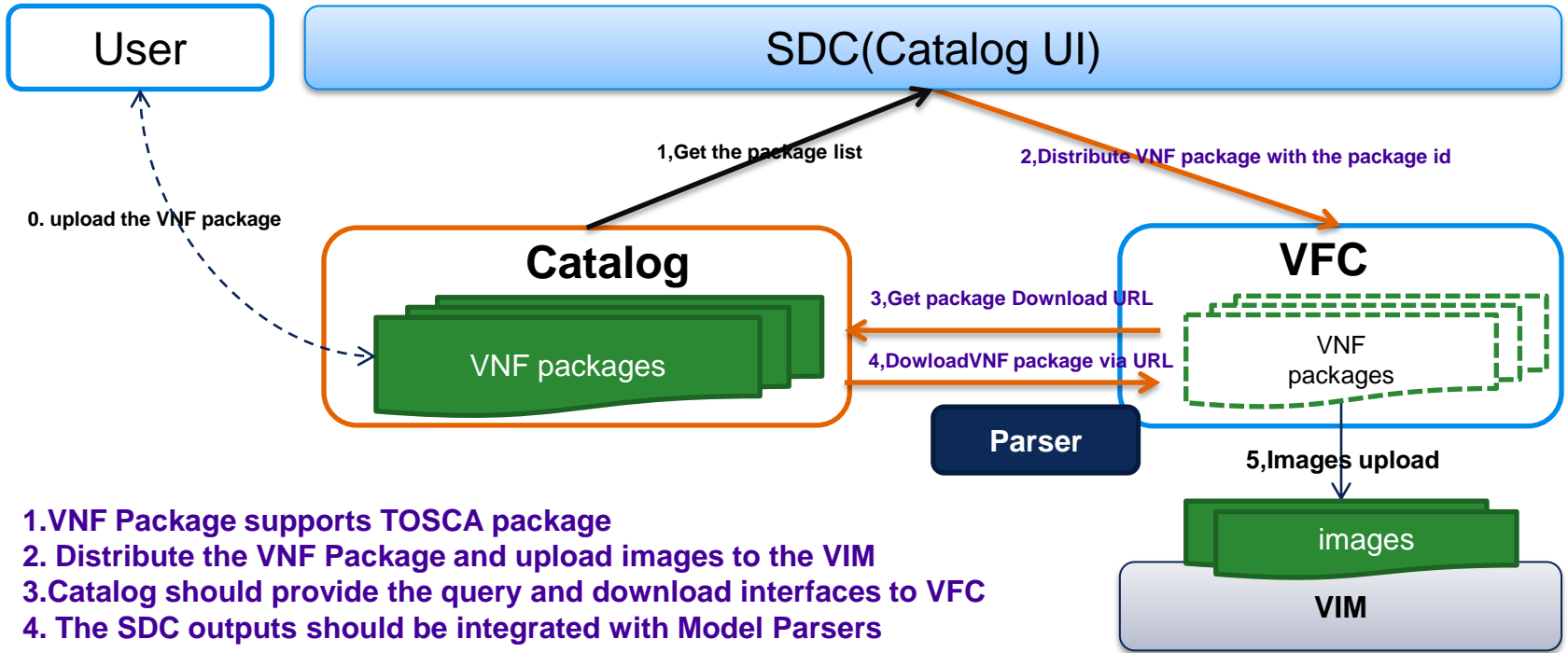
The VoLTE Usecase Workflow

ONAP SDC&VFC Integration R1 Requirements
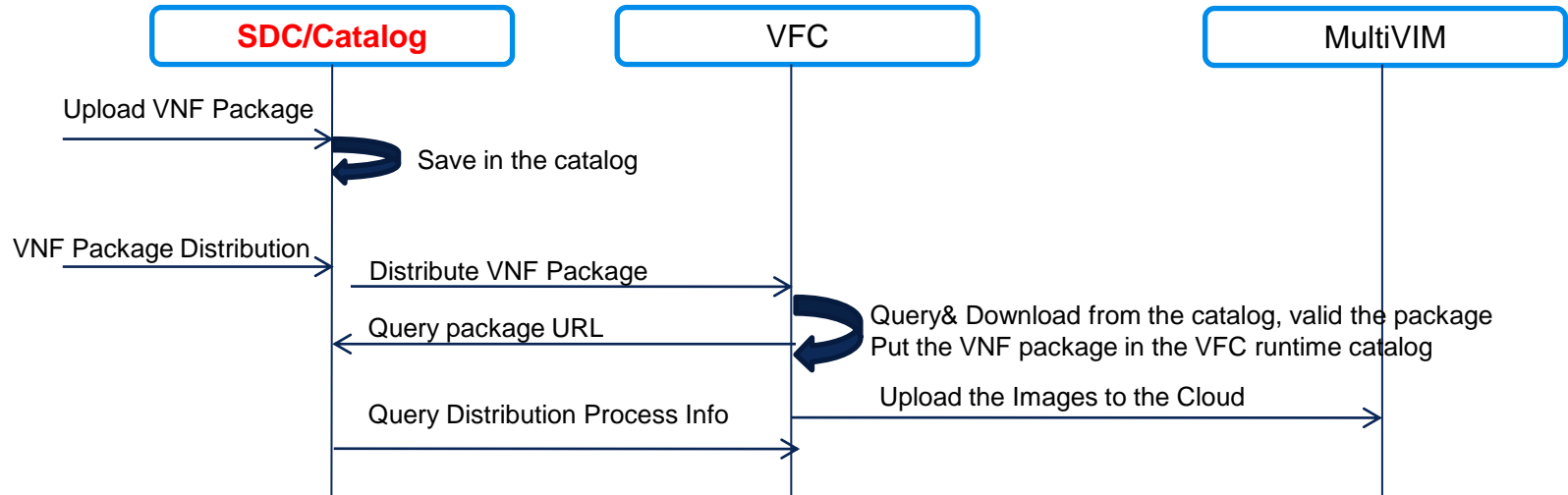
1. Import VNF package in the Catalog
2. VNF Package Distribution
3. NS Package Design align with TOSCA NFV Profile
4. Instantiate NS using NS package

VNF Package Distribution Requirements

User

SDC(Catalog UI)

1,Get the package list

2,Distribute VNF package with the package id

0. upload the VNF package

Catalog

VNF packages

3,Get package Download URL

4,DowloadVNF package via URL

VFC

VNF packages

Parser

5,Images upload

images

VIM

1.VNF Package supports TOSCA package
2. Distribute the VNF Package and upload images to the VIM
3.Catalog should provide the query and download interfaces to VFC
4. The SDC outputs should be integrated with Model Parsers
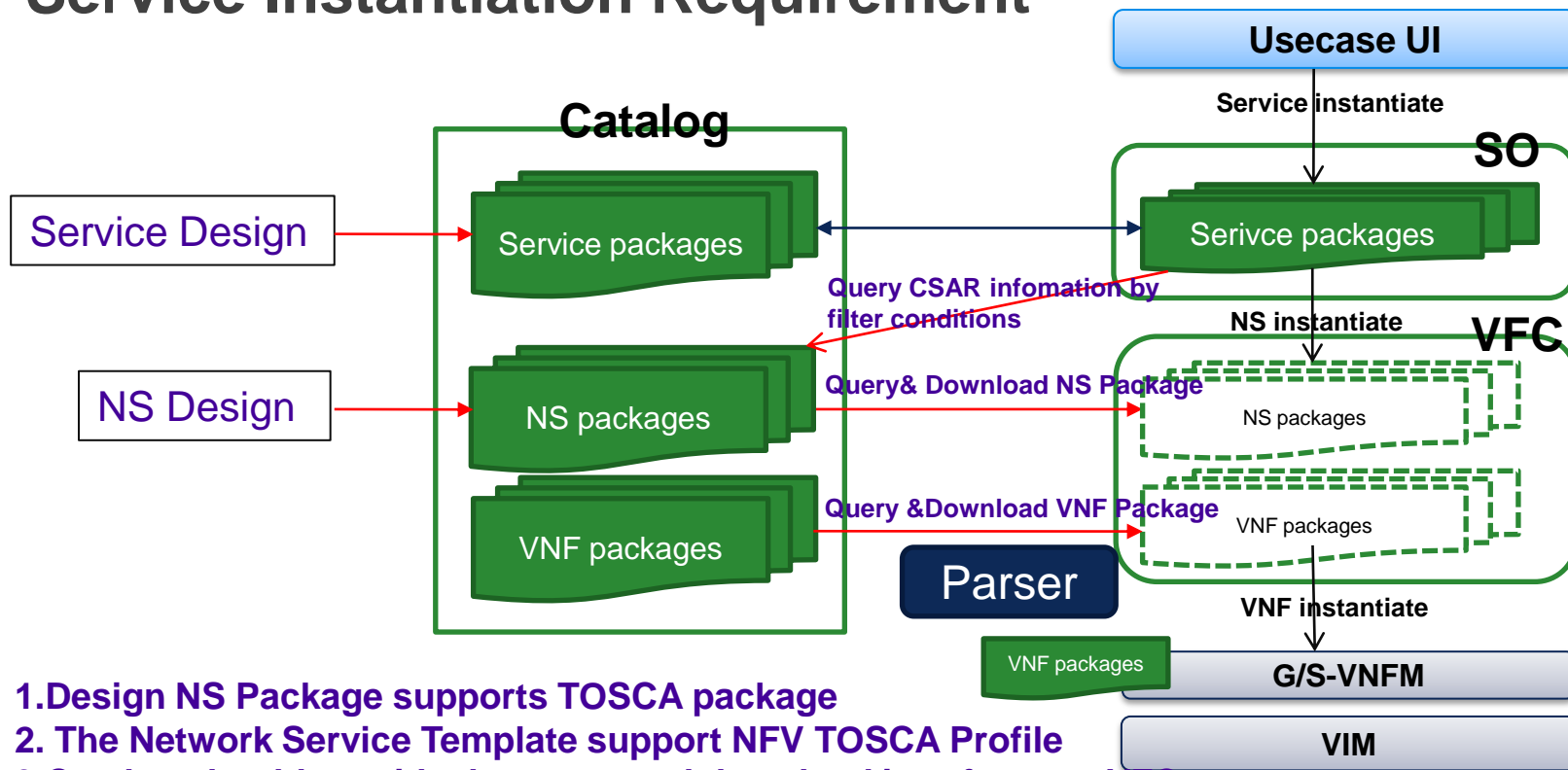
R1 VNF Package Distribution Workflow

| SDC/Catalog | VFC | MultiVIM |

Upload VNF Package
→ Save in the catalog

VNF Package Distribution →
Distribute VNF Package →
Query& Download from the catalog, valid the package
Put the VNF package in the VFC runtime catalog
← Query package URL

Query Distribution Process Info →
Upload the Images to the Cloud →

VFC :
1. Distribute **interfaces**
2. **Query** Distribute **process info**

SDC:
1.Get package Download URL
2. Provide http URL to down load CSAR

Service Instantiation Requirement

Catalog

Service Design → Service packages

NS Design → NS packages

VNF packages

Parser

VNF packages

Usecase UI

Service instantiate

SO

Serivce packages

Query CSAR infomation by filter conditions

NS instantiate

VFC

Query& Download NS Paqkage

NS packages

Query &Download VNF Package

VNF packages

VNF instantiate

G/S-VNFM

VIM

1. Design NS Package supports TOSCA package
2. The Network Service Template support NFV TOSCA Profile
3. Catalog should provide the query and download interfaces to VFC
4. The SDC outputs should be integrated with Model Parsers

Service Instantiation Workflow
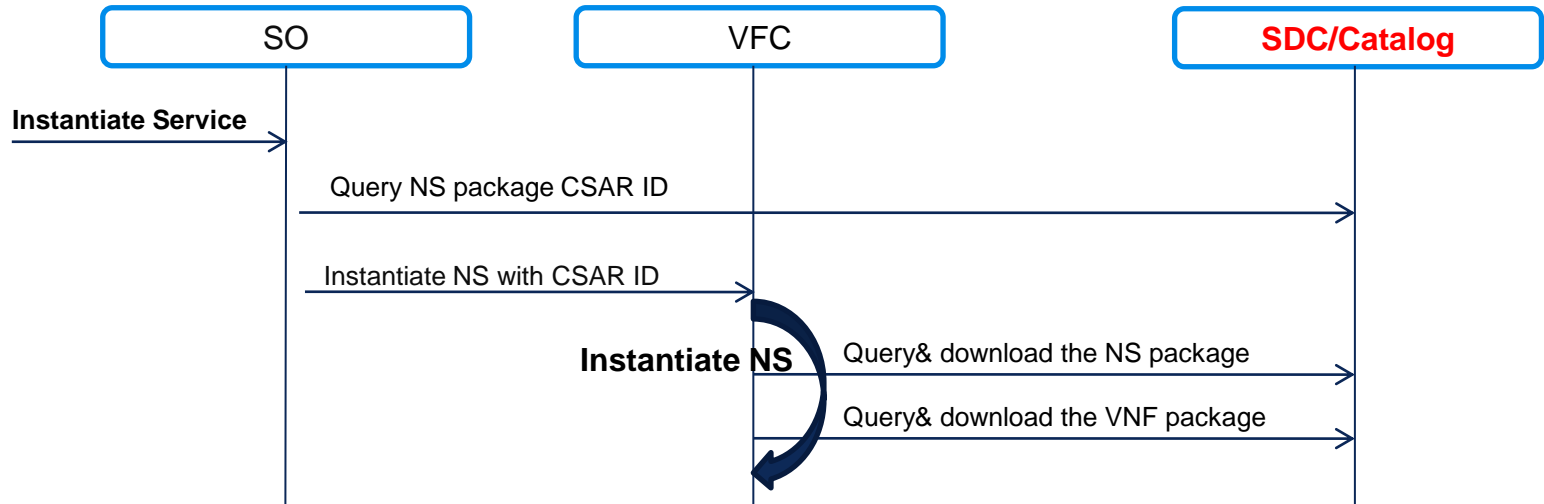
SDC:
1. Query NS Package CSAR ID using NS information filter
2. Query package Download URL using CSAR ID
3. Provide http URL to down load CSAR

VFC Catalog API Dependency Reference

query_csar_from_catalog   "/openoapi/catalog/v1/csars/%s"
query_rawdata_from_catalog   "/openoapi/catalog/v1/servicetemplates/queryingrawdata"
set_csar_state   "/openoapi/catalog/v1/csars/%s?%s=%s"
delete_csar_from_catalog   "/openoapi/catalog/v1/csars/%s"
get_download_url_from_catalog   "/openoapi/catalog/v1/csars/%s/files?relativePath=%s"
get_process_id   '/openoapi/catalog/v1/servicetemplates/%s/operations'
get_servicetemplate_id   '/openoapi/catalog/v1/servicetemplates'
get_servicetemplate   '/openoapi/catalog/v1/servicetemplates'

https://wiki.open-o.org/display/CT/Common+TOSCA%3A+Catalog+API+Documentation#CommonTOSCA:CatalogAPIDocumentation-GetCSARpackagefilesdownloadURI

Summary

No	Gaps	Action Owner	When/Dead Line
1	Import VNF TOSCA Package into SDC Catalog, which supports TOSCA NFV Profile	SDC/Catalog	2017.8.3
2	NS package design supports CSAR and TOSCA NFV template	SDC/Catalog	2017.8.3
3	VNF Distribution	SDC/Catalog	2017.8.3
4	NS/VNF package info query with CSARID	SDC/Catalog	2017.8.3
5	NS/VNF package info query with filter conditions	SDC/Catalog	2017.8.3
6	Http server to download NS/VNF CSAR packages or templates	SDC/Catalog	2017.8.3
7	SDC Reg/Notify supports TOSCA CSAR packages and interfaces	SDC/Catalog	2017.8.3
8	VNF distribution function and interfaces	VFC	2017.8.3
9	Provide NS/VNF TOSCA NFV Profile	Model/VFC/SDC	2017.8.3
10	Model Parsers integrates with the SDC package output	Model/SDC	2017.8.3

Need the SDC, VFC and Model parser to support TOSCA CSAR and satisfy the VoLTE Case Requirements

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Q&A