

Modeling R6 Architecture Review

Project Overview

- Both Python and Java based Parser will not be updated in R6, the R6 release will use the same as previous release.
- The etsicatalog project provides package management service and parser service by Micro Service. It can be used to store packages distributed by the SDC, which then can be consumed by other projects or components, such as UUI, VF-C, SO etc. It also includes a TOSCA parser service.

Architecture changes from E release:

VF-C catalog migrate to modeling etsicatalog repo which has reported in Architecture meeting 2019-10-15

Modeling project has created etsicatalog repo to intent to provide common ETSI catalog service, VF-C catalog migrates to modeling can help reduce duplication of work and promote unified architecture.

Migration plan:

- VF-C catalog migrates to modeling etsicatalog repo and merges with modeling existing etsicatalog parser service and package management service.
- To ensure compatibility, the APIs provided keep the same after migration , VF-C promises to update their interfaces call if needed.
- In F release, new requirements will be implemented in modeling etsicatalog , VF-C catalog is no longer maintained.

For more component description - [ARC Modeling Component Description – Frankfurt](#)

New component capabilities for Frankfurt, i.e. the functional enhancements

etsicatalog

- Supports ETSI package APIs and storage for ETSI packages in runtime
- Update version of Python as well as Django and djangoRESTframework
- Improving platform maturity (TSC must have items)
 - SECCOM Perform Software Composition Analysis - Vulnerability tables(TSC must have) - [MODELING-262](#)
 - SECCOM Password removal from OOM HELM charts(TSC must have) - [MODELING-273](#)
 - SECCOM HTTPS communication vs. HTTP(TSC must have) - [MODELING-239](#)
 - Document current upgrade component strategy(TSC must have) - [MODELING-267](#)

New or modified interfaces

New interfaces:

- Read vnfd: GET /api/vnfpkgm/v1/vnf_packages/{vnfPkgId}/vnfd
- Subscribe & Notify

Modified interfaces:

- Fetch VNF package from SDC: POST /api/catalog/v1/vnfpackages, supports the ONBOARDING_PACKAGE directory for the original vendor ETSI package extraction
- Update APIs to align SOL003/SOL005.

Interface naming

Etsicatalog API naming is as followed:

- (etsicatalogAPIE-1) Catalog management API: /api/catalog/v1/
- (etsicatalogAPIE-2) NSD management API: /api/nsd/v1
- (etsicatalogAPIE-3) VNF package management API: /api/vnfpkgm/v1
- (etsicatalogAPIE-4) Parser API: /api/parser/v1/

Reference to the interfaces

[etsicatalog_API_v1.yaml](#)

What are the system limits

Now the component Redundancy and scaling depends on Kubernetes.

Involved use cases, architectural capabilities or functional requirements

etsicatalog will contribute to the following functional requirements:

- [ETSI Alignment Support](#)

Listing of new or impacted models used by the project (for information only)

None.