

Escalator Home

Project: Smooth Upgrade (escalator)

In the traditional Telco operator's network, the service (software) is often bound with dedicated hardware and platform. It is easy to upgrade the whole system on demand. With the technical benefit of virtualization, NFV framework provides a scalable container for each VNF (service software), and de-couples them from the platform and hardware (NFVI).

OPNFV community must provide some kind of mechanism to assure the operators can perform smooth upgrade of the NFVI and VIM without service interruption when a new major(full set of components with new functions) is released, or a minor version (partial set of components with bug fixed) is required. Or, at least the service would be recovered within an expected short time.



This project is aiming to identify the user requirements on smooth upgrade the NFVI and VIM from one version to another. Such as:

- the maximum duration of an upgrade
- the maximum duration of a rollback when an upgrade is failed
- the maximum duration of a VNF interruption
- the granularity of an upgrade
- the required mechanisms when an upgrade is carried on
- the required mechanisms to prepare an upgrade
- the potential I/F between VIM and VNF Manager / NFV Orchestrator if needed
- the information flows among the related entities
- etc.

This project will provide a requirement document on NFVI and VIM upgrading. And it will identify the gaps from the user requirements to the approved OPNFV projects and other upstream projects.

Based on the output of this project, we may propose another project (or extend this project) on the reference design and implementation on smooth upgrade of NFVI and VIM.

Blue Prints may be generated and send to upper stream projects from this project on behalf of the OPNFV community.

- [Escalator Project Proposal](#)
- [Escalator Project Proposal Slide](#)
- [Escalator weekly meeting \(logistics, agendas and minutes\)](#)
- [Escalator etherpad](#)
- [Escalator Work Plan](#)
- [Escalator Requirement etherpad v0.2 v0.3](#)
- [upgrade_analysis_v0.5.xlsx](#)
- [Escalator Questionnaire Answer it!](#)
- [Uli's presentation on OpenStack Summit Tokyo 2015](#)
- [Escalator's presentation on OPNFV Summit 2016, Berlin](#)
- [\(New!\) Escalator Test Cases](#)

Shortcuts

- Review: <https://gerrit.opnfv.org/gerrit/>
- Repository: <https://gerrit.opnfv.org/gerrit/>
- Git Web: <https://gerrit.opnfv.org/gerrit/gitweb?p=escalator.git;a=summary>
- JIRA: <https://jira.opnfv.org/browse/escalator>
- Artifacts: <http://artifacts.opnfv.org/escalator/docs/docs/index.html>
- Meeting: <https://wiki.opnfv.org/meetings/escalator/>
- GTM(When US In Daylight Savings Time): <https://global.gotomeeting.com/join/853747669>
- GTM(When US In Standard Time): <https://global.gotomeeting.com/join/848356261>
- IRC: [webchat irccloud](#)
- Requirement: <http://artifacts.opnfv.org/escalator/docs/requirements/requirements.pdf>
- Gap Analysis Report: http://artifacts.opnfv.org/escalator/docs/gap_analysis/gap_analysis.pdf
- Design Considerations? <http://artifacts.opnfv.org/escalator/docs/design/design.pdf>

- Milestone Report: https://wiki.opnfv.org/releases/brahmaputra/release_plan/escalator_milestone_e_report

Project Info

INFO (source from escalator)

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Project: Smooth Upgrade (escalator)
Project Creation Date: April 21, 2015
Project Category: Requirements
Lifecycle State: Incubation
Primary Contact: Wei Kong (ZTE, kong.wei2@zte.com.cn)
Project Lead: Wei Kong (kongwei)
Jira Project Name: Smooth Upgrade
Jira Project Prefix: escalator
Repository: escalator
Mailing list tag: [escalator]
Meetings: Every Thursday 1200-1300 UTC
IRC : #opnfv-meeting @ Freenode.net

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Link to TSC approval of the project:
http://meetbot.opnfv.org/meetings/opnfv-meeting/2015/opnfv-meeting.2015-04-21-14.00.html
Link(s) to approval of project lead and additional committers:
https://wiki.opnfv.org/meetings/escalator#minutes_of_may_7th_2015
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