



OPNFV

System Testing & Integration Test Strategy for Brahmaputra

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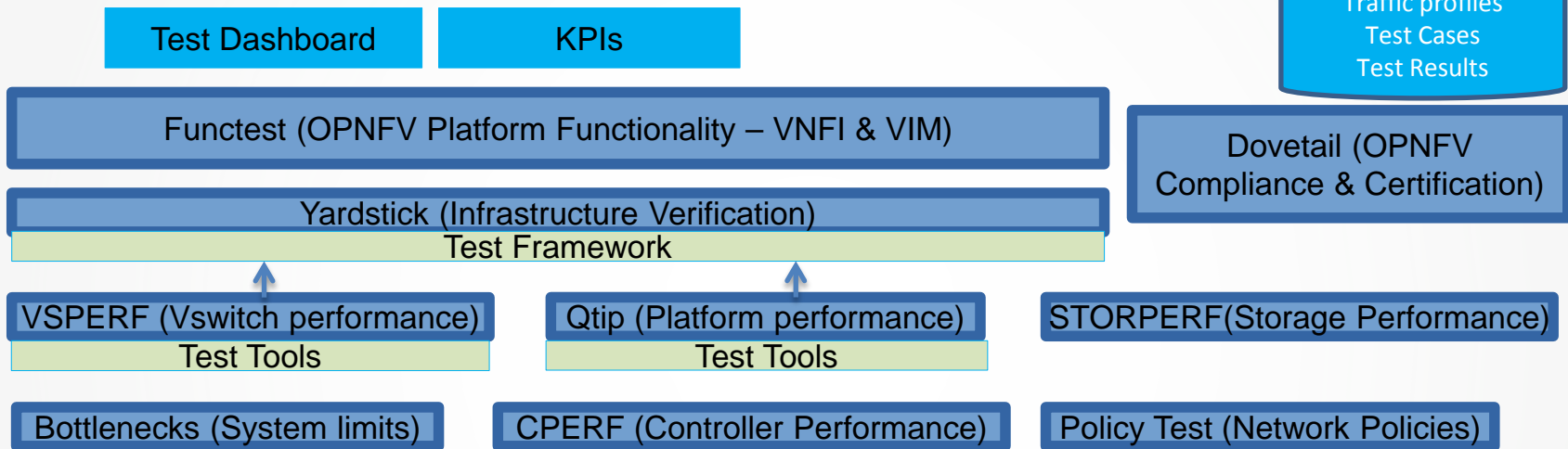
Agenda

- Testing ecosystem
- Test coverage
- Release-B Test plans

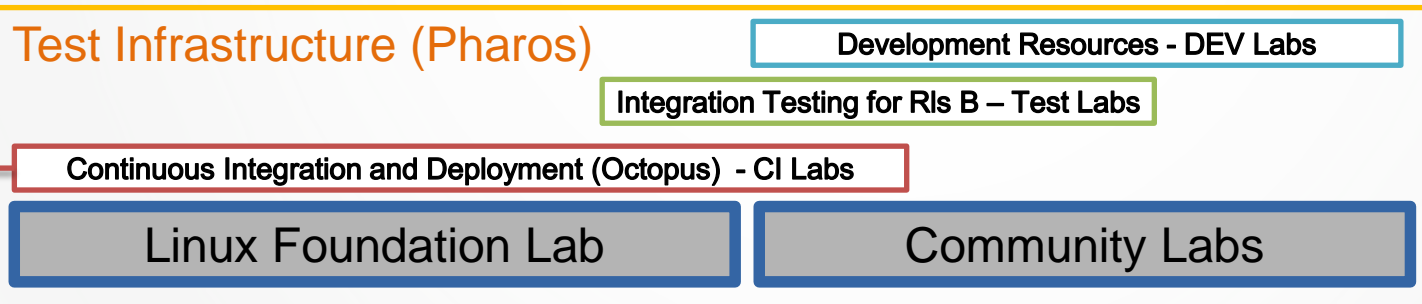


OPNFV Test Ecosystem

Test Community (Test and Performance Sub-Group)



Test Infrastructure (Pharos)



OPNFV Test Activities

Tools and Process

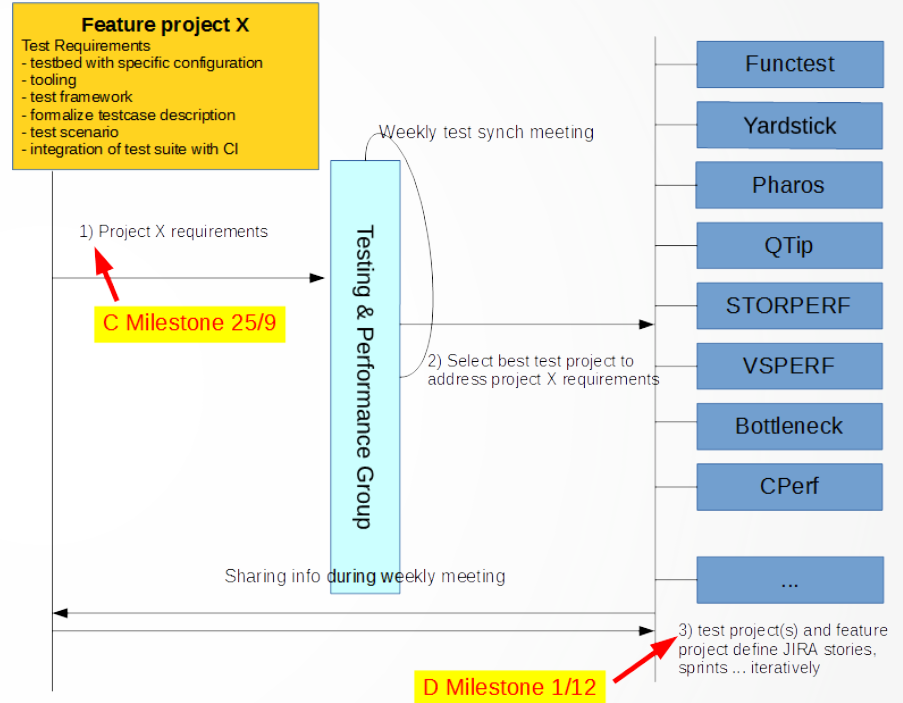
- [Definitions & Test Coverage per domain/component](#)
- [Traffic Profiles](#)
- [Dashboard](#)

Testing coordination

- [Release B test requests](#)
- [Test Project Dependencies](#)

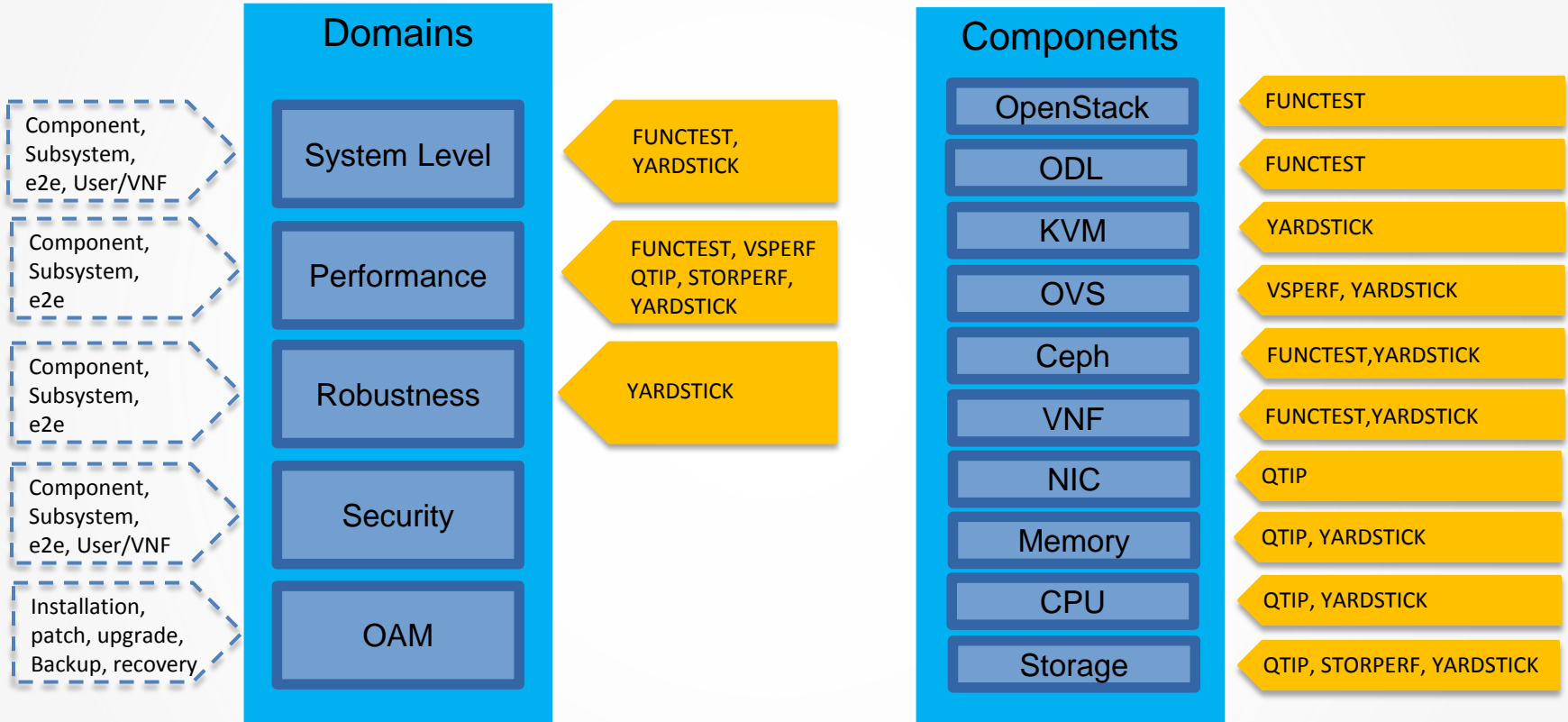
Resource Planning

- [Test Lab Requirements](#)
- [Test Project Lab Resources](#)



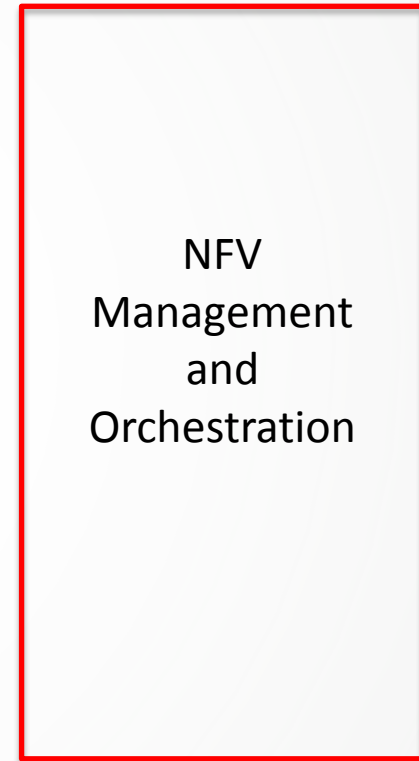
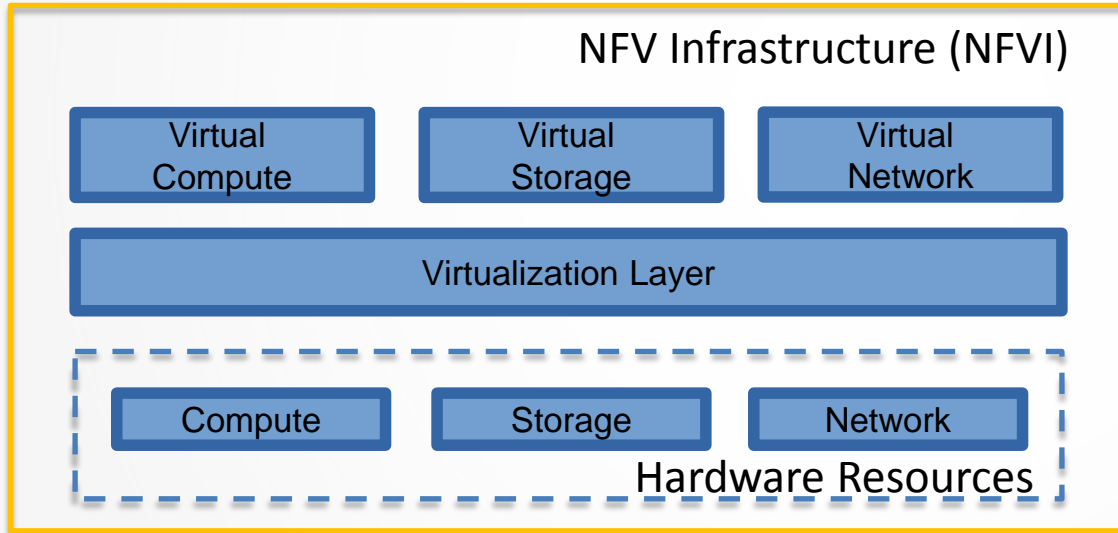
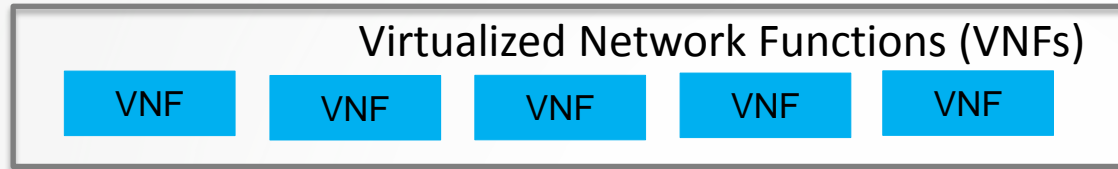
Weekly Test and Performance Meetings <https://wiki.opnfv.org/meetings/test>

Test coverage – Domains and Components

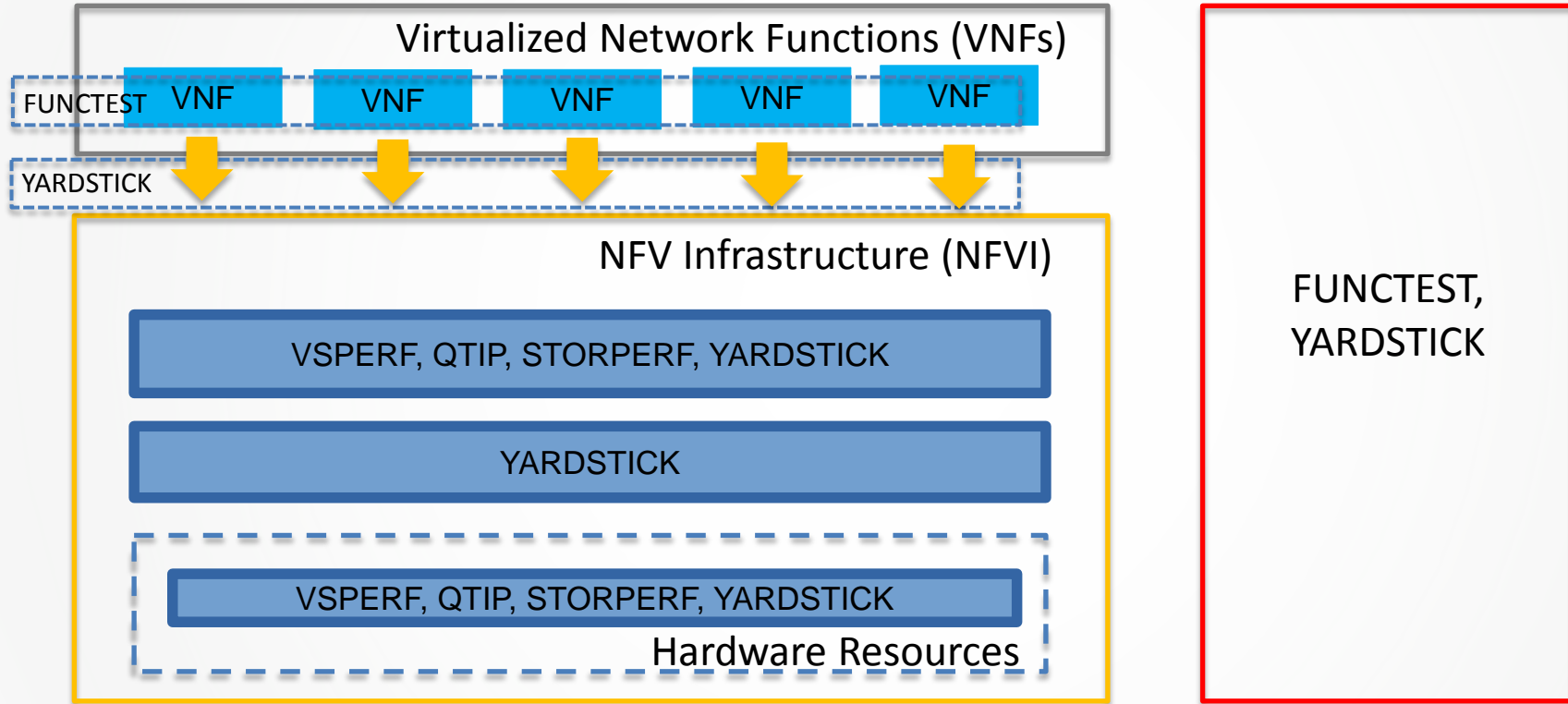


From Testing wiki: [Test Coverage](#)

Test Coverage – ETSI-NFV Domains



Test Coverage – ETSI-NFV Domains



Note: Interfaces defined by ETSI-NFV are not shown in the diagram

Release B

- Lots of feature projects
 - More test projects
 - More installers
 - More configurations
- 3 levels of dependencies
- installers
 - labs
 - feature projects

Cross Matrix Feature versus Test Projects

Feature Project	Bottlenecks	Functest	Qtip	VSPerf	Yardstick	StorPerf
Copper	-	X	-	-	-	-
Doctor	-	X	-	-	-	-
Escalator	No need					
HA	-	-	-	-	X	-
Ipv6	-	-	-	-	X	-
Movie	-	-	-	-	-	-
Multisite	-	-	-	-	-	-
NEV for KVM	-	-	-	-	X	-
	-	X	-	-	-	-
	-	-	-	-	X	-
	-	X	-	-	-	-
	-	-	-	-	-	-
	-	X	-	-	-	-
	-	-	-	-	-	-
Promise	-	X	-	-	-	-
Resource Scheduler	-	-	-	-	-	-
Service Function Chaining (SFC)	-	-	-	-	X	-
SFQM	-	-	-	-	-	-
VNFFG	-	-	-	-	X	-
SDNVPN	-	-	-	-	X	-

More challenging !

Release B: Ensure consistency

Lots of configurations,
installers,...

CI++: the test suite must be
automated and run on as many labs
as possible

Lots of test projects

Test collection API to collect:
- the test cases
- the test results

Lots of Feature projects

Companion test projects
e.g. VPN/Yardstick, Doctor/Functest

Test Deliverables for Release B

- An centralized view of all the test cases
- A user guide & and installation guide per Test project
- A developer Guide for OPNFV frameworks
- A Testing dashboard