

Vswitch Release Plan

VSwitchPerf Release Plan

This Page will maintain the release plans for VSPERF

Kali Release Plan

Feature Details	JIRA ID	Contact	Status
VSPERF-Openstack Intel Pod10/15/18 (a) Add More Testcases (b) Add TRex Support. (c) Multi-Dimensional TestVNF Support			
Kubernetes CNB - Phase2 Intel Pod12 (a) Multiple Pods. (b) Multiple Hosts (c) Containerizing vswitch (d) Containerized TGen (e) DanM (f) DPDK Version has any performance impact? (g) Different eBPF/Cilium Plugin? (h) Memif interface			Phase-1: K8S Cluster Deployment. Plugins: Multus - OVSDPK, VPP and SRIOV. Pod: DPDK+L2/L3 FWD.
VSPERF-Xtesting Integration (a) More testcases (b) Run in Pod12. (c) K8S			
Improve TRex Integration - Better Data analysis			
VSPERF GUI			

Jerma Release Plan

Jerma release will include CN-Benchmarking, Container Metrics and Enhanced analytics features as the main outcomes.

Feature Details	JIRA ID	Contact	Status
Integration with X-Testing Outcome of VSPERF-594 and VSPERF-595	VSPERF-604	Sridhar Rao	
Container Networking Benchmarking - Setup Automation	VSPERF-607	Emanuele Urselli , Parth Yadav	
Container Networking Benchmarking - Testing	VSPERF-608	Sridhar Rao Parth Yadav	
Container Metrics - agent and visualization		Parth Yadav	
Enhanced Analytics.		Adarsh Yadav Aditya Srivastava	
Live-Results from Ixia TGen		Ancuta Enache	
Enhanced Results Container and VM		Adarsh Yadav Aditya Srivastava	

TST-009 Testcases	VSPERF-583	Al Morton	
VSPERF With Openstack	VSPERF-619	Sridhar Rao	

Iruya Release Plan

Iruya release will include Containerization of VSPERF and Newer software versions as the main outcomes.

Feature Details	JIRA ID	Contact	Status
VSPERF Container	VSPERF-594	Sridhar Rao shailesh chauhan	COMPLETED
Results Container All 5 - Infrastructure, End-Of-Test-Results, Live-Results, Events from VSPERF/Sw-Tools, Environment details	VSPERF-595	Sridhar Rao	COMPLETED
Usability : Configuration wizard (CLI)	VSPERF-543	Sridhar Rao	COMPLETED
VSPERF Upgrades - Python	VSPERF-605	Sridhar Rao	COMPLETED
VSPERF Upgrades - OVS, DPDK and VPP	VSPERF-606	Sridhar Rao	COMPLETED

Hunter Release Plan

Feature Details	JIRA ID	Contact	Status
Live Results: Spirent, T-Rex	VSPERF-524	Sridhar Rao	COMPLETED
Testcase: Imix (Spirent) Support	VSPERF-521	Sridhar Rao	COMPLETED
Test Case: OVS-Contrack rules impact analysis.	VSPERF-545	Christian Trautman Bob Fubel	POSTPONED
IMIX Support : Xena Traffic Generator	VSPERF-596	Bob Fubel Christian Trautman	POSTPONED
Advanced L3-Cache management - Intel RMD	VSPERF-584 VSPERF-585	Sridhar Rao sunku ranganath	POSTPONED
Testcase: Cross-Numa Performance Benchmarking	VSPERF-597		COMPLETED
Logstash/Fluentd Writer Related to Results Container (VSPERF-595)	VSPERF-586		COMPLETED
Resolve CI Issues		Mars Toktonaliev	COMPLETED
Experience VSPERF on Virtualbox		Sridhar Rao	COMPLETED

Gambia Release Plan

Feature Details	JIRA ID	Contact	Status
Comparative Studies: CSIT, NFVBench, Yardstick, Bottlenecks	VSPERF-540, VSPERF-541	Initiated: Trevor Cooper Responsibility: Sridhar Rao Mars Toktonaliev	COMPLETED
Results Improvement : Latency Histogram (Spirent)	VSPERF-522	Sridhar Rao	COMPLETED

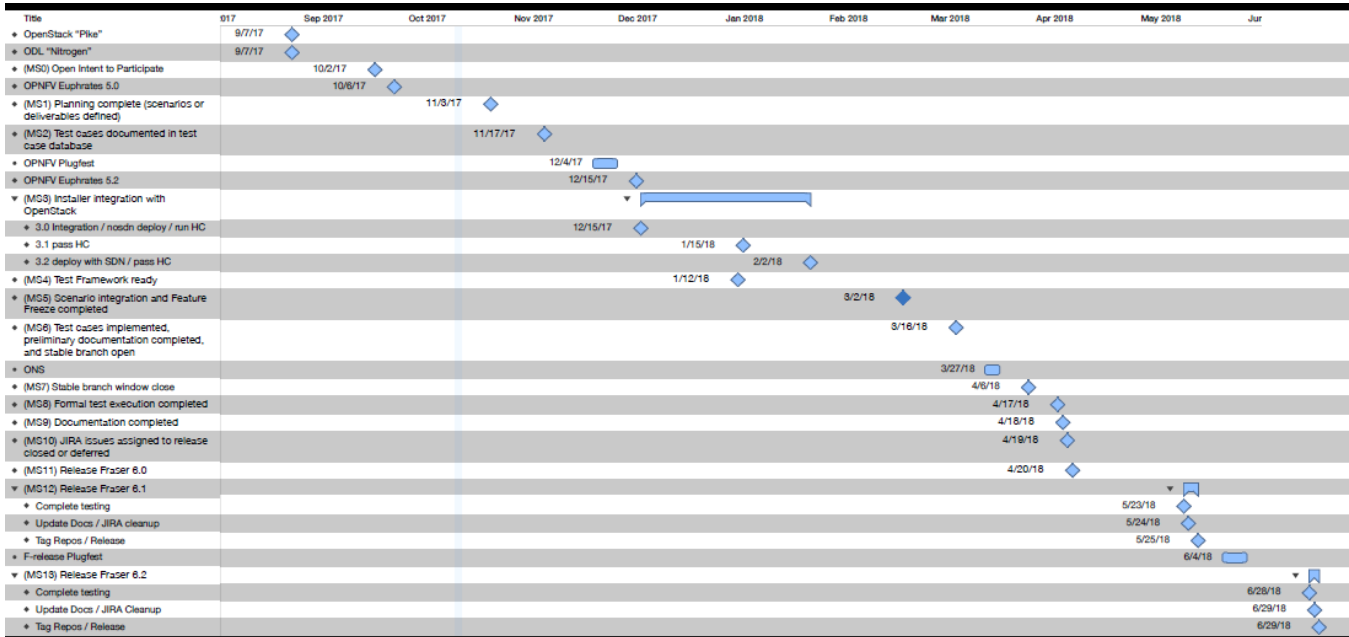
VSPERF-Xena Enhancements	VSPERF-575 VSPERF-582	Christian Trautman Bob Fubel	COMPLETED COMPLETED
VSPERF-OVS Enhancements	VSPERF-580 VSPERF-577 VSPERF-578 VSPERF-581 VSPERF-570	Martin Klozik Martin Klozik Martin Klozik Bob Fubel Christian Trautman @Julien Meunier	COMPLETED COMPLETED COMPLETED COMPLETED COMPLETED
VSPERF-VPP Enhancements			
VSPERF-VSWITCH Architecture Enhancement	VSPERF-579	Martin Klozik	COMPLETED
TREX Enhancements: Burst traffic type, Scapy Frame Definition, Customized Scapy Version,	VSPERF-562 VSPERF-565, VSPERF-566,	Martin Klozik	COMPLETED
Testcase: Continuous Stream	VSPERF-568	@Julien Meunier	COMPLETED
Tools Enhancement: Pidstat	VSPERF-569	@Julien Meunier	COMPLETED
Testcase: Custom Statistics	VSPERF-572	Richard Elias	COMPLETED
Ixia Script enhancements	VSPERF-149	Martin Klozik	COMPLETED
Tunneling protocol support	VSPERF-573	Martin Klozik	COMPLETED
Testplans for Benchmarking vSwitch in Containerized Environments			COMPLETED
Stability Improvements		Multiple	COMPLETED
Xena - Benchmarking with Multi-flows		Bob Fubel	COMPLETED

Fraser Plan.

Feature Details	JIRA ID	Contact	Status
Tool Support: Integration of Collectd as Monitoring tool	VSPERF-505	Sridhar Rao	COMPLETED
Tool Support: Integration of RDT Cache Management tool to improve vSwitch performance under NN-conditions.	VSPERF-544	Initiated: Trevor Cooper Responsibility: Sridhar Rao	COMPLETED
Tool Support: VMs (Stress-NG and Spirent Cloudstress) as Load-generators	VSPERF-504	Sridhar Rao	COMPLETED
Test Case: Noisy Neighbor Test	VSPERF-523	Unassigned Sridhar Rao	COMPLETED
Test Case: regression tests cases DPDK, OVS	VSPERF-539	Martin Klozik	COMPLETED
Test Case: OVS-Contrack rules impact analysis.	VSPERF-545	Christian Trautman	IN PROGRESS
Standardization Support: Back-to-Back Frame Testing - IETF.	VSPERF-549	Initiated: Al Morton	IN PROGRESS
Standardization Support: ETSI NFV TST009	VSPERF-552	Al Morton	IN PROGRESS
T-Rex Support Improvement	VSPERF-546 VSPERF-547 VSPERF-559	Christian Trautman	COMPLETED

Additional improvements	VSPERF-548	Martin Klozik	COMPLETED
Miscellaneous:	VSPERF-557	Christian Trautman	COMPLETED
Expand requirements of Soak/Long Duration Tests	VSPERF-558	Al Morton	
Updated build scripts for Centos and RHEL to python34			
Testcases: T-Rex as VM	VSPERF-560	Martin Klozik	COMPLETED

Fraser Deadlines



Danube

Deliverables: [VSPERF Release D JIRA Issues](#)

Project plan per the milestones described at [Danube](#).

Milestone	Status/Plan	Notes
(MS0) Open Intent to Participate	Done	
(MS1) Planning complete (scenarios or deliverables defined)	10/25/16	
(MS2) Detailed test case descriptions communicated to test project teams	11/22/16	
(MS3) Installer integration with OpenStack completed	11/30/16	
(MS4) Infrastructure updates completed	12/6/16	
(MS5) Scenario integration and Feature Freeze completed	1/13/17	
(MS6) Test cases implemented, preliminary documentation completed, and stable branch open	1/26/17	
(MS7) Stable branch window close	3/10/17	
(MS8) Formal test execution completed	3/20/17	
(MS9) JIRA issues assigned to release closed or deferred	3/22/17	
(MS10) Documentation completed	3/24/17	

(MS11) Release Danube 1.0	3/27/17	
(MS12) Release Danube 2.0	5/4/17	
(MS13) Release Danube 3.0	6/8/17	

Rel C VSPERF Sprint and Backlog

Release	Feature Detail	Jira Number
Rel C	Integration with Yardstick	VSPERF -276
Rel C	Moving to SW Traffic Generator (MoonGen)	VSPERF - 277
Rel C	Installer Integration extension of capabilities (Fuel)	VSPERF- 278
Rel C	Integration with Functest results API only	VSPERF - 279
Rel C	Installer Integration extension of capabilities (Apex)	VSPERF -280

Project Dependencies

- Moongen for SW Traffic Generator (**JIRA VSPERF-168**)
- Yardstick integration (**JIRA Yardstick -109**)
- Fuel 9 plugin (needs to be updated) and any other requirements that are needed to run under yardstick
- POD 3 (two new servers that will be setup as sandbox and CI needs to migrated to existing servers) (**JIRA Pharos- 129**)

Project Timeline (these dates are tentative)

- Feature Code Freeze Mid June
- Test Code Freeze July
- Integration Ready August

Upstream Dependencies

Release B VSPERF Scrum Board and backlog

Release	Plan	Slides
Rel B	vspan_rel_b_highlevel_plan.xlsx	opnfv_vspan_brahmaputra_releaseplanning.pptx

Brahmaputra Release

Goals

Our goals for the VSPERF test framework this release are:

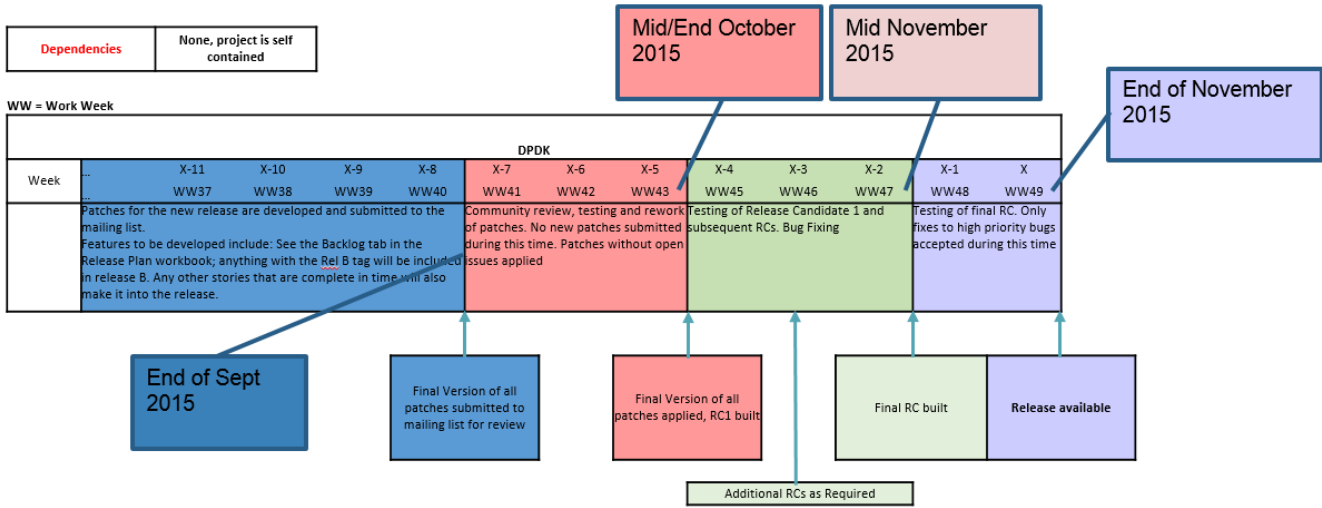
- Support our 3 base deployment scenarios: P2P, PVP and PVVP
- CI Support and integration for VSPERF
- Support Vanilla OVS and OVS with DPDK.
- Support all RFC2544 defined tests.
- Support IMIX traffic testing with RFC 2544.
- Support IXIA, Spirent, Moongen and Xena.
- Participate in opnfv_test_dashboard

Stretch Goal:

- Support IP routing on the switch, as well as simple port forwarding
- RFC2544 Scalability tests (Implementation)
- LTD.Throughput.RFC2544.Profile (Implementation)
- LTD.Throughput.RFC2544.SystemRecoveryTime (Implementation)

Timeline

VSPERF High level Milestone Schedule



JIRA

<https://jira.opnfv.org/browse/VSPERF-75>

Make sure stories reference this Epic and have the VSPERF and R2 Label

Sprints

[Active Sprint](#)

[Sprint Backlog](#)

Interaction with other OPNFV projects

We would like to collaborate with Yardstick on their vswitch performance tests and the OPNFV dashboard for Release B.