

# SONiC-Vpp 2025.05 Release Notes

# *New* Sonic-Vpp Features Coming in as part of 2025.05

- VxLAN vnet peering
  - HLD - <https://github.com/sonic-net/sonic-platform-vpp/blob/main/docs/HLD/vxlan-vnet.md>
  - SONiC HLD - [https://github.com/sonic-net/SONiC/blob/master/doc/vxlan/Vxlan\\_hld.md](https://github.com/sonic-net/SONiC/blob/master/doc/vxlan/Vxlan_hld.md)
- Multihop BFD
- Tunnel Termination ACL
- PortChannel
  - HLD - <https://github.com/sonic-net/sonic-platform-vpp/blob/main/docs/HLD/vpp-lag.md>
- SRv6
  - Support uN, uA, uDT4/6, H-Encaps and SRv6 policy
- **SONiC-VPP into sonic-buildimage as a new platform**
  - Sonic-vpp is always up to date with SONiC
  - Combined lib-sai (sonic-vs, sonic-vpp)
- **Test Suites/Validation**
  - sonic-mgmt T1 and T1-LAG topology

# Sonic-Vpp: Build Enhancements

- git clone --recurse-submodules <https://github.com/sonic-buildimage.git>
- make init
- make configure PLATFORM=vpp
- make SONIC\_BUILD\_JOBS=4 target/sonic-vpp.img.gz

# Sonic-Vpp: How to upgrade VPP ?

- Validated Vpp-version(version 25.06) is uploaded to buildkite to avoid rebuilding Vpp each time
  - <https://buildkite.com/organizations/sonic-vpp/packages/registries/vpp>
- For Feature development, one can upgrade VPP
  - How to upgrade vpp (for development to bring in new dataplane changes)
  - Increase vpp version number in sonic-buildimage/rules/vpp.mk to build from source
  - To simply move to a new git commit in master branch, set the commit ID in [https://github.com/sonic-net/sonic-platform-vpp/blob/main/vppbld/vpp\\_version](https://github.com/sonic-net/sonic-platform-vpp/blob/main/vppbld/vpp_version)
  - If we need to checkout a different branch, modify <https://github.com/sonic-net/sonic-platform-vpp/blob/main/vppbld/Makefile>
  - See <https://github.com/sonic-net/sonic-platform-vpp/blob/main/vppbld/README.md>
- New Vpp versions can be uploaded to buildkite – please work with Cisco team for now

# SONiC-Mgmt Test for Sonic-Vpp

- Sonic T1/T1-lag - VPP Topology Bring Up - to start minigraph
  - <https://github.com/sonic-net/sonic-mgmt/pull/17892>
  - Details in docs/testbed/README.testbed.VPP.md
- Sonic-Mgmt Sonic-VPP Test Marker - used to skip tests not applicable to vpp + failures that need further debugging on sonic-vpp (open PR/inprogress)
  - <https://github.com/sonic-net/sonic-mgmt/pull/17855>

# Sonic-VPP: SONiC-Mgmt Test Results – Core Functions on T1-topo (skips are T0 cases or not supported by VPP)

	Actual Total	Total	Skip	Pass	Error	Fail
arp	3	36	33	3	0	0
bgp*	36	122	86	36	0	0
ip*	15	19	4	15	0	0
ipfwd	8	12	4	8	0	0
route*	6	26	20	6	0	0
vxlan	68	108	40	68	0	0
test_interfaces_single	1	1	0	1	0	0
Total:	<b>137</b>	<b>324</b>	<b>187</b>	<b>137</b>	<b>0</b>	<b>0</b>

- bgp, ip and route are unstable. Occasionally one failed testcase in each of them.
- Only listed tests involving data plane.