

#NFVplugtests
#MECplugtests

NFV&MEC IOP PLUGTESTS 2021 Kick-off call

ETSI Plugtests Team

5th July 2021





Plugtests Team

ETSI Team

CTI Technical Experts:

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IT, HIVE:

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TAP

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Registration update (deadline July 15th)

- ♥ Canonical
- ♥ Cisco
- **♥** CNIT

- Nextworks

- ▼ TATA Elxsi

- ∀ Vulk Coop

Supporting Open Source Communities:

















NFV & MEC IOP Plugtests Scope

Multivendor Interoperability

During the Pre-Testing phase

Additional tracks

- ♥ CNCF CNF Testing
- Multi-vendor NS & 5G demos (5G core, network slicing..)



Call for participation

- Virtual, Physical and Containerized Network Functions
- Management and Orchestration solutions: NFVO, VNFM
- Network Function Virtualisation Infrastructure and Virtual Infrastructure Managers
- Hardware and Labs
- MEC Platforms, Platform Managers and Orchestrators (MEO, MEAO, MEPM, MEPM-V)
- MEC Applications
- Operations and Business Support Systems: OSS, BSS, Slice Managers
- Test Tools and simulators implementing NFV or MEC APIs.



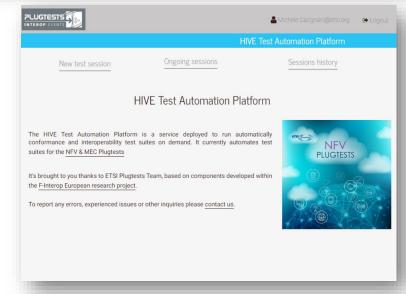
Main Plugtests Enablers: HIVE & TAP

HIVE: Hub for Interoperability and Validation at ETSI



Enabling participants to run automated API Conformance Test Suites autonomously





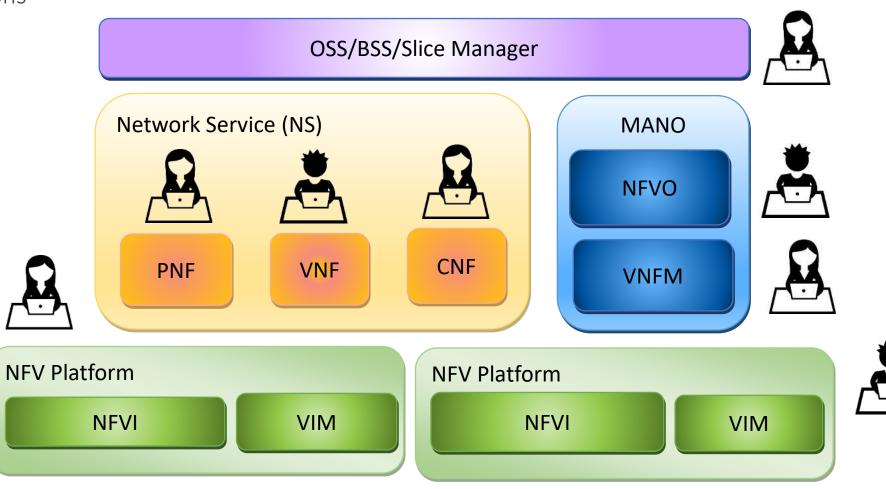


Scope – NFV Interop testing



- ✓ Several configurations



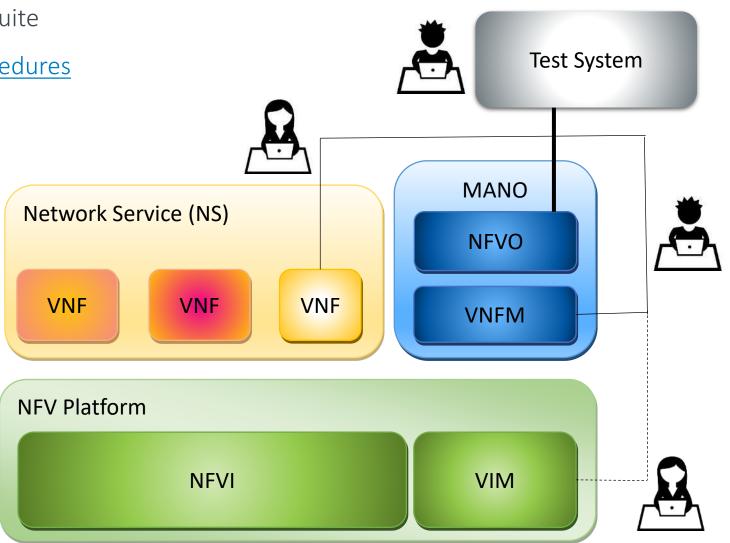




Scope – NFV Automated Interop Testing

- - ∀ VNF package on-boarding
- ▼ Triggers and checks based on NFV-SOL005,

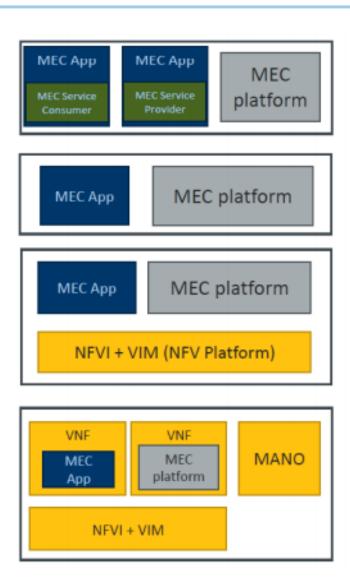
SOL003, SOL002





Scope – MEC Interop Testing

- Multi vendor Test Sessions
- Several configurations, testing for both MEC
 Standalone and MEC-in-NFV solutions
- Building on the <u>MEC IOP Test Plan</u> from the NFV&MEC Plugtests (2020)
 - MEC Application Lifecycle
 - Traffic rules management and enforcement
 - MEC Services and MEC APIs





Pre-testing – NFV & MEC API Conformance Testing

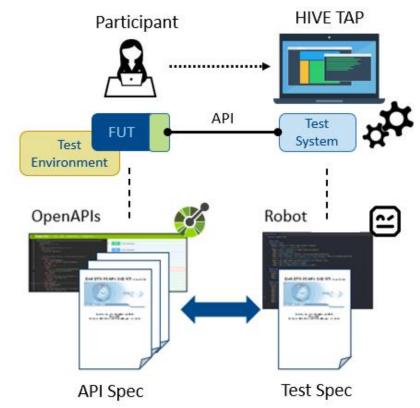
API Specifications

Descriptor Specifications

NFV-SOL001, NFV-SOL006 v2.7.1, v3.3.1

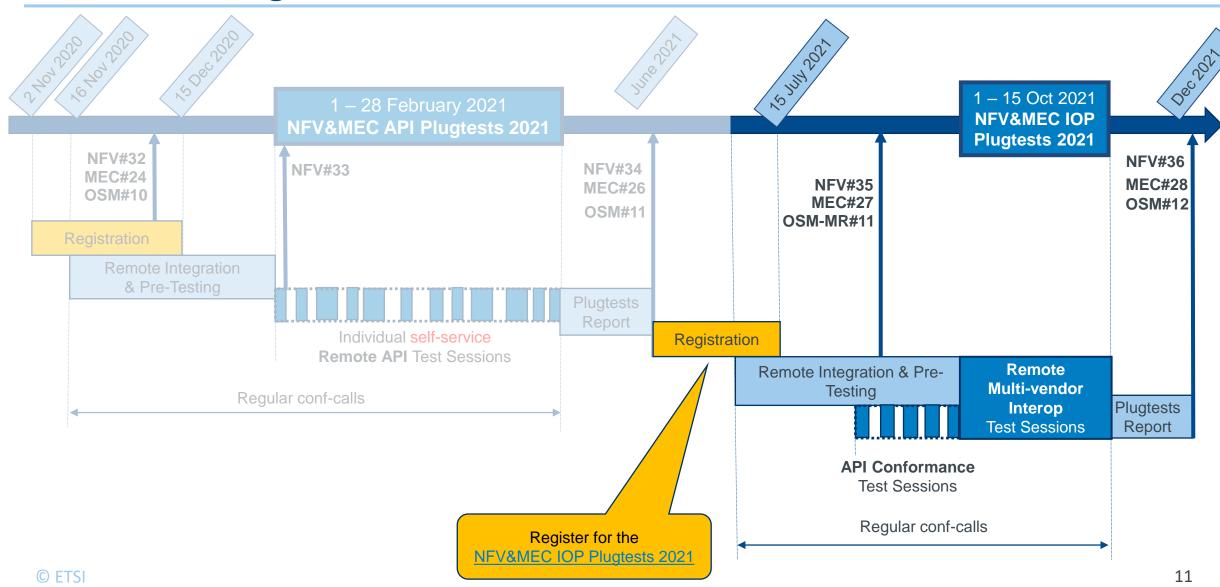
Test Specifications

Robot Framework, Test Suites available in the ETSI Forge





NFV&MEC Plugtests – 2021 Timeline





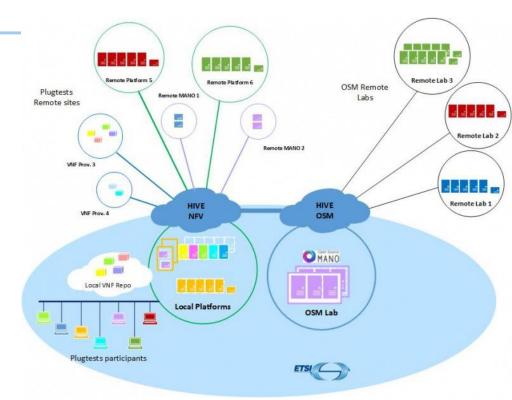
Registration – deadline July 15th

- ♥ Only Operators and Academia can register as observers
 - Vendors are expected to provide components or tools for the Test Sessions and have an active participation
- ♥ Once registered
 - - ♥ For new participants in the Programme only.
 - ♥ Same as for previous events, regular participants don't need sign again
 - You tell us how you plan to participate (component, tool...)
 - You get access to the <u>NFV-PLUGETSTS Wiki</u>, Slack and NFV_PLUGTESTS Mailing list.



Remote integration & Pre-testing

- - July 5th Open Kick-off call (today!)
 - July 19th
 - August 2nd
 - August 23rd
 - September 6th
 - September 13th
 - September 20th
 - September 27th

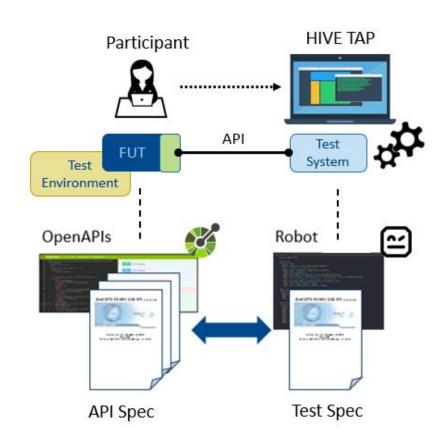


Pre-testing: start as soon as ready, be proactive! Contact 3rd parties on Slack, book pre-testing session, and ask questions!!



How API Conformance Test Sessions are run

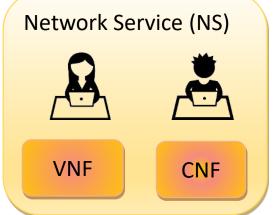
- During remote integration phase
 - Participants get HIVE (VPN) and TAP access
 - All FUTs are deployed and expose their APIs on HIVE, so that TAP can connect to them
- During the pre-testing phase (September), participants can test any API anytime:
 - Connect to Slack to interact with their team, partners, observers and Plugtests team, launch video call if needed
 - Open a session on TAP
 - Enter configuration information and run the tests for the selected API
 - Validate or discard results
- Participants, Observers and Plugtests Team meet regularly to sync, discuss and gather feedback
 - Issues on Specs, APIs, Test Specs, ...
 - Practical issues on TAP or other tools / arrangements
- At the end of the event, ETSI freezes results and builds statistics with overall aggregated data that is be published in the Plugtests Report
 - Detailed results belong to each participating organisation.

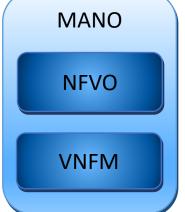




How IOP Test Sessions are run

OSS/BSS







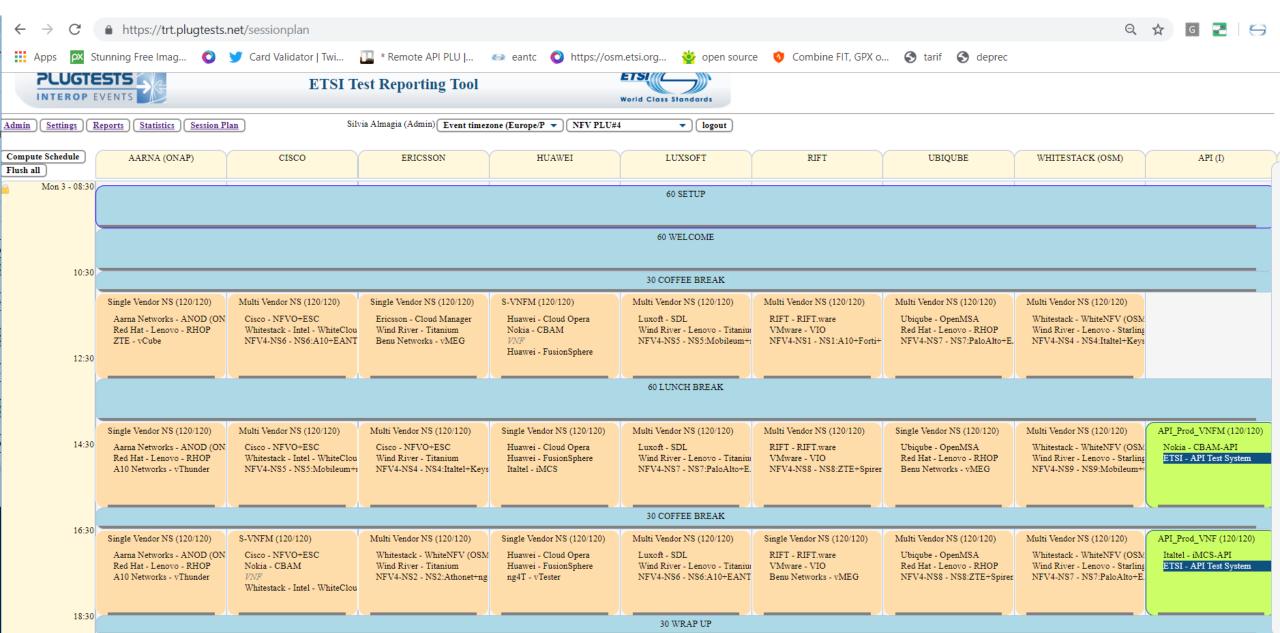




- Before Plugtests start
 - Participants make their implementations available in HIVE
 - Connect their lab, deploy in a 3rd party lab, or
 - Upload images to NF Repository / Docker Registry
 - ETSI publishes an IOP Test Schedule proposal
 - Featuring different combinations of FUTs
- During the Plugtests, participants follow the IOP Test Schedule:
 - Connect to Slack to interact with other teams and observers, launch a video call
 - Run IOP testing collaboratively according to the Test Plan
 - Enter and validate results in the TRT
- Participants, Observers and Plugtests Team **meet daily** to sync, discuss and gather feedback
 - Issues on Specs, Test Specs, ..
 - Practical issues / arrangements for the Test Sessions
- At the end of the event, ETSI freezes results and builds statistics with overall aggregated data that is be published in the Plugtests Report
 - Detailed results belong to each participating organisation. 15

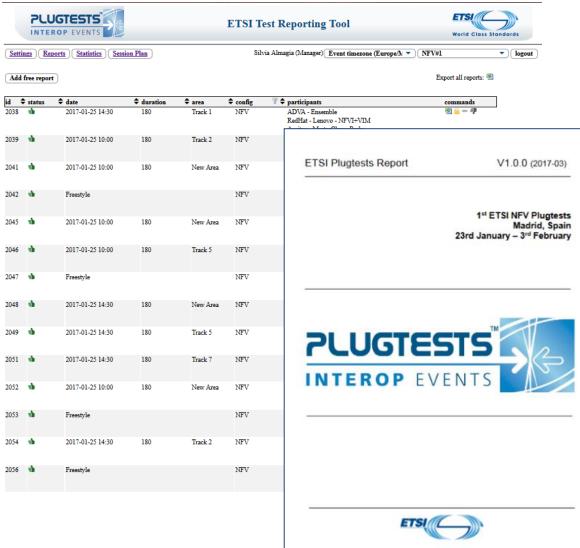
IOP Test Session Schedule







IOP Test Session Reports



- trt.plugtests.net
- Instructions in the WIKI

	Summary	Result	Comment
P_ONBOARD_VNF_PKG_001	To on-board a VNF Package	OK NO NA	afi
P_ONBOARD_NSD_001	To onboard a NSD	OK NO NA	.d
CM_INSTANTIATE_001	To verify that an NS can be successfully instantiated	OK NO NA	VNF required networking configuration (bump-





Guidelines for Comms

You are invited to communicate on your **participation** to Plugtests:

- Wote: If you are to mention other participants, please make sure they are OK with it
- #NFVplugtests
 #MECplugtests
- The event might be recorded only for ETSI use and related promotional purposes. By attending our event, you are hereby made aware that you may be photographed and/or video recorded and that your consent is presumed.

Some guidelines when communicating on Plugtests **Results**:

- ♥ Please wait for the Plugtests Report to be published before communicating on Plugtests Results
- ♥ Do not mention other companies results if you do not have a written agreement with them

ETSI acknowledges participation, but does not endorse or certify companies, products or results

Questions?





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Thank you ©

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