



# NFW&MEC PLUGTESTS 2020 Kick-off call

 [#NFWplugtests](#) [#MECplugtests](#)

ETSI Plugtests Team

Sophia Antipolis, 10<sup>th</sup> Feb 2020

# Plugtests Team



## ETSI Team

### CTI Technical Experts:

- ✔ Silvia Almagia, [silvia.almagia@etsi.org](mailto:silvia.almagia@etsi.org)
- ✔ Michele Carignani, [michele.carignani@etsi.org](mailto:michele.carignani@etsi.org)

### Event coordinators, logistics:

- ✔ Therese Christoffersen [Therese.Christoffersen@etsi.org](mailto:Therese.Christoffersen@etsi.org)

### IT, HIVE:

- ✔ Jean-Luc Freisse, [Jean-Luc.Freisse@etsi.org](mailto:Jean-Luc.Freisse@etsi.org)

+ Technical support team under construction



# Registration update

## Participants and observers:

- |                    |                         |                      |                        |
|--------------------|-------------------------|----------------------|------------------------|
| ✓ Benu Networks    | ✓ EdgeGap               | ✓ Nextworks          | ✓ Telenity             |
| ✓ Canonical        | ✓ Ericsson              | ✓ Palo Alto Networks | ✓ Ubique               |
| ✓ Cisco            | ✓ Fortinet              | ✓ Red Hat            | ✓ University of Patras |
| ✓ Deutsche Telekom | ✓ Huawei                | ✓ RIFT               | ✓ Whitestack           |
| ✓ EANTC            | ✓ Keysight Technologies | ✓ STC                | ✓ Wind River           |

## Supporting Open Source Communities:



# NFV & MEC Plugtests Scope

- ✓ NFV Interop
- ✓ NFV Interop – Cloud Native Track
- ✓ NFV Automated Interop
- ✓ NFV API Conformance

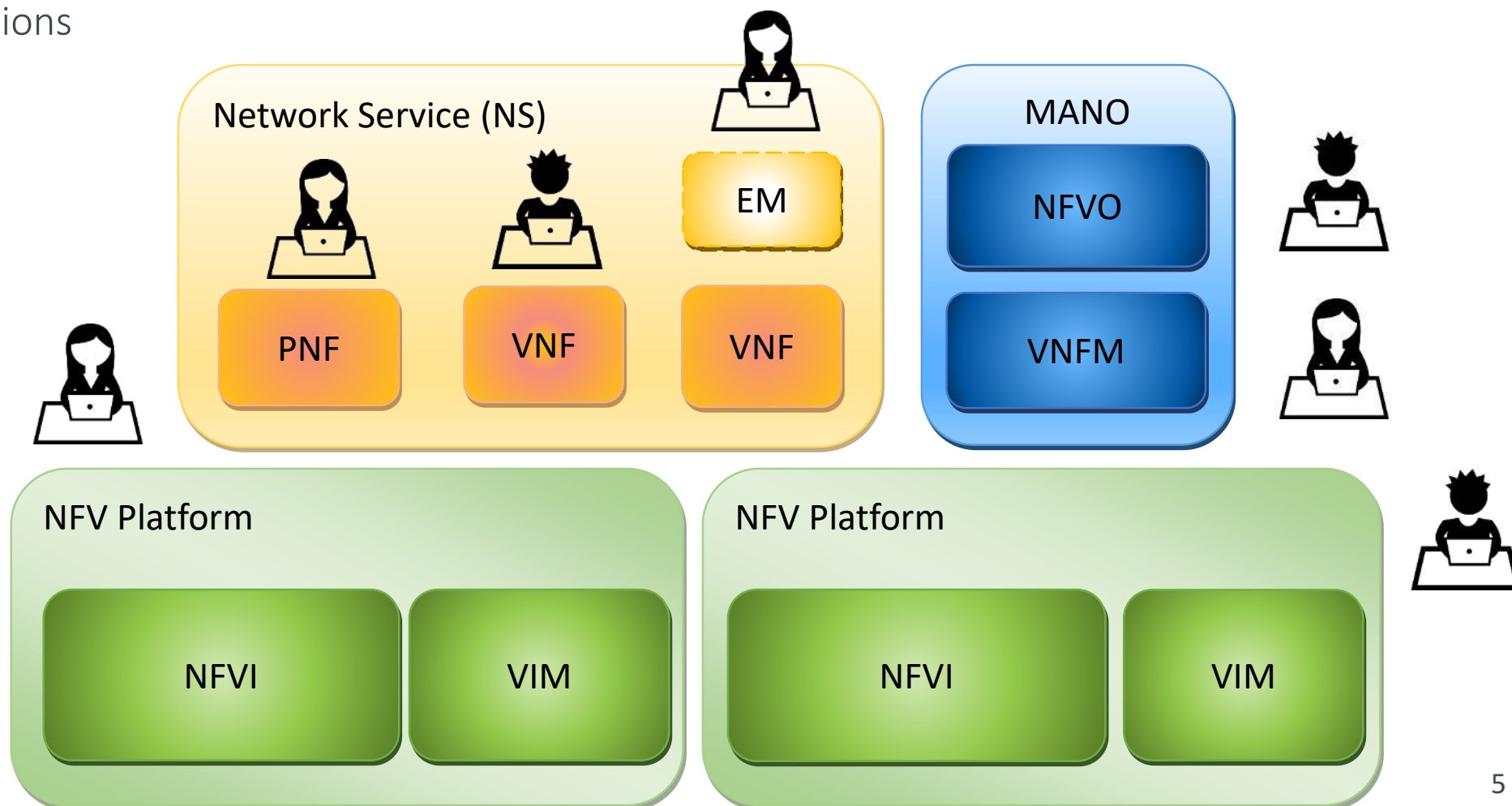


- ✓ MEC & MEC-in-NFV Interop
- ✓ MEC API Conformance

**MEC will be discussed in depth on  
next open call, Feb 24<sup>th</sup>**

# Scope 1 – Interop testing

- Based on [NFV- TST007 Guidelines for NFV Interoperability Testing v2.6.1](#)
- Several configurations

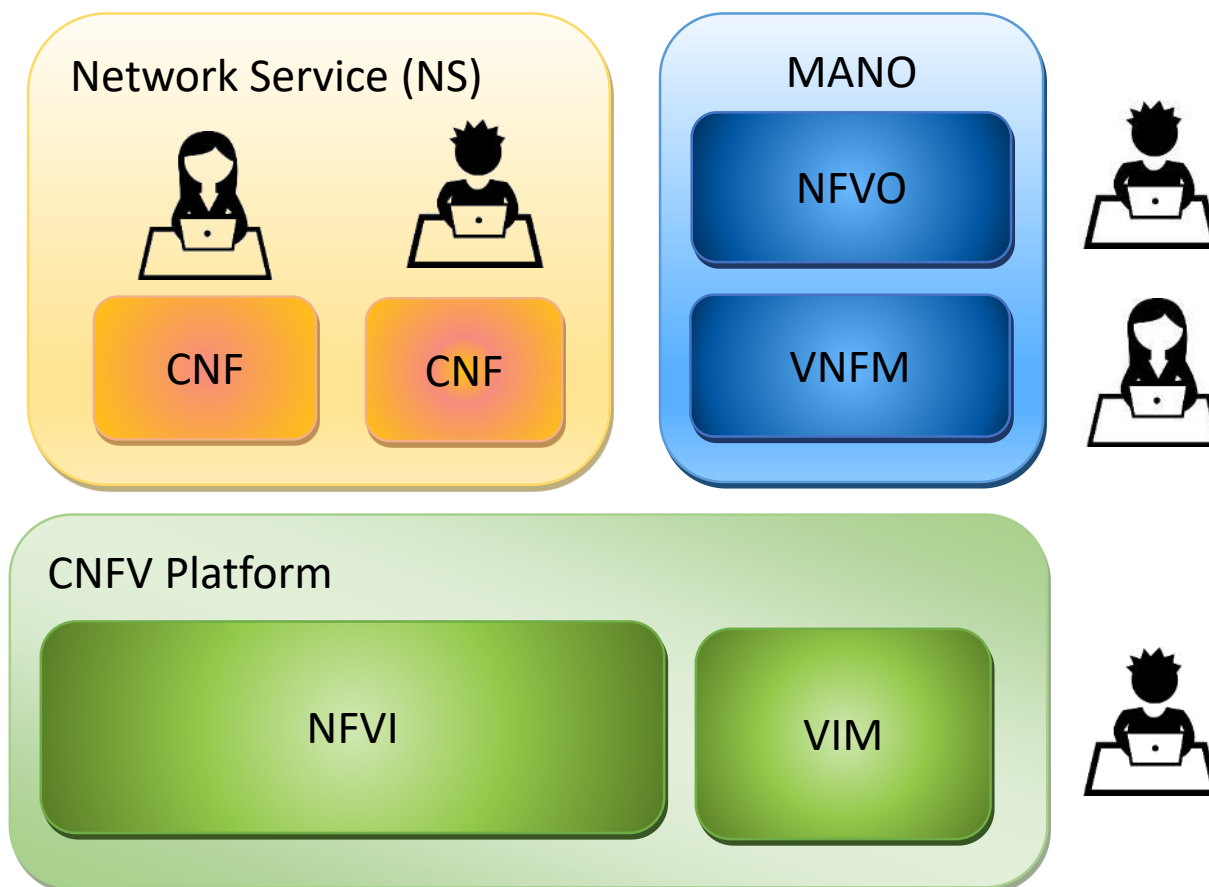
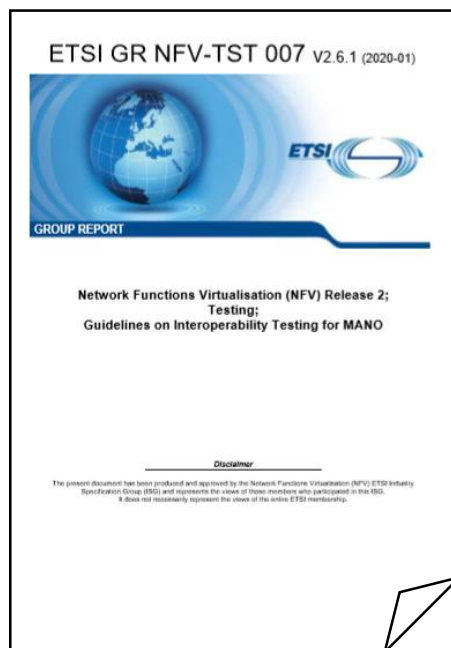




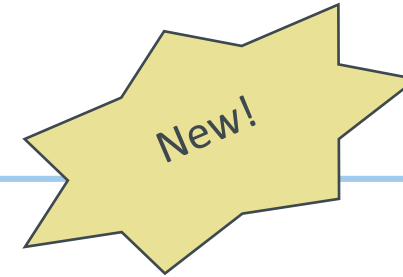
# Scope 2 – Interop testing – Cloud Native track



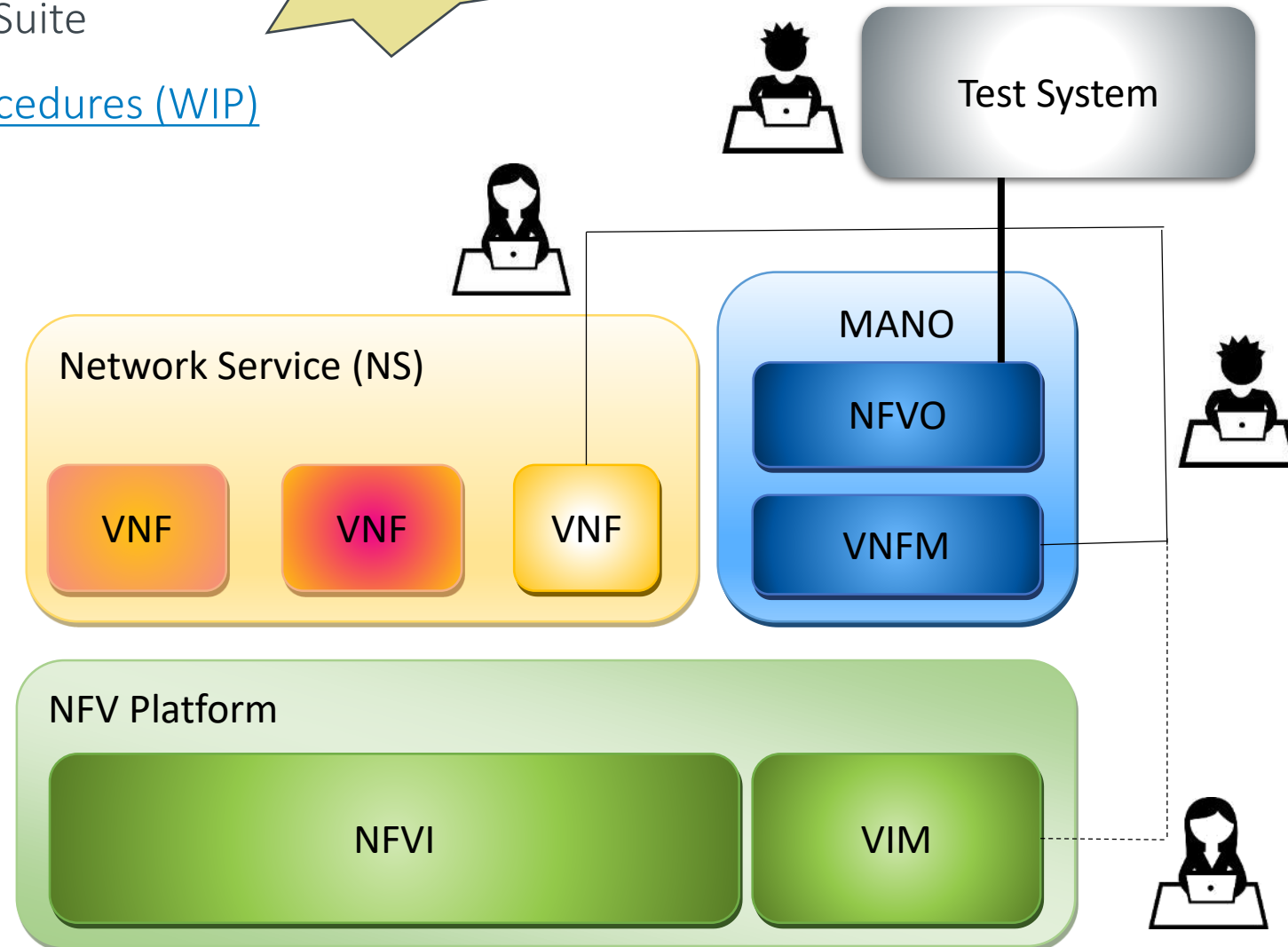
- Based on [NFV- TST007 Guidelines for NFV Interoperability Testing v2.6.1](#)
- Start with simpler configurations



# Scope 3 – Automated Interop Testing

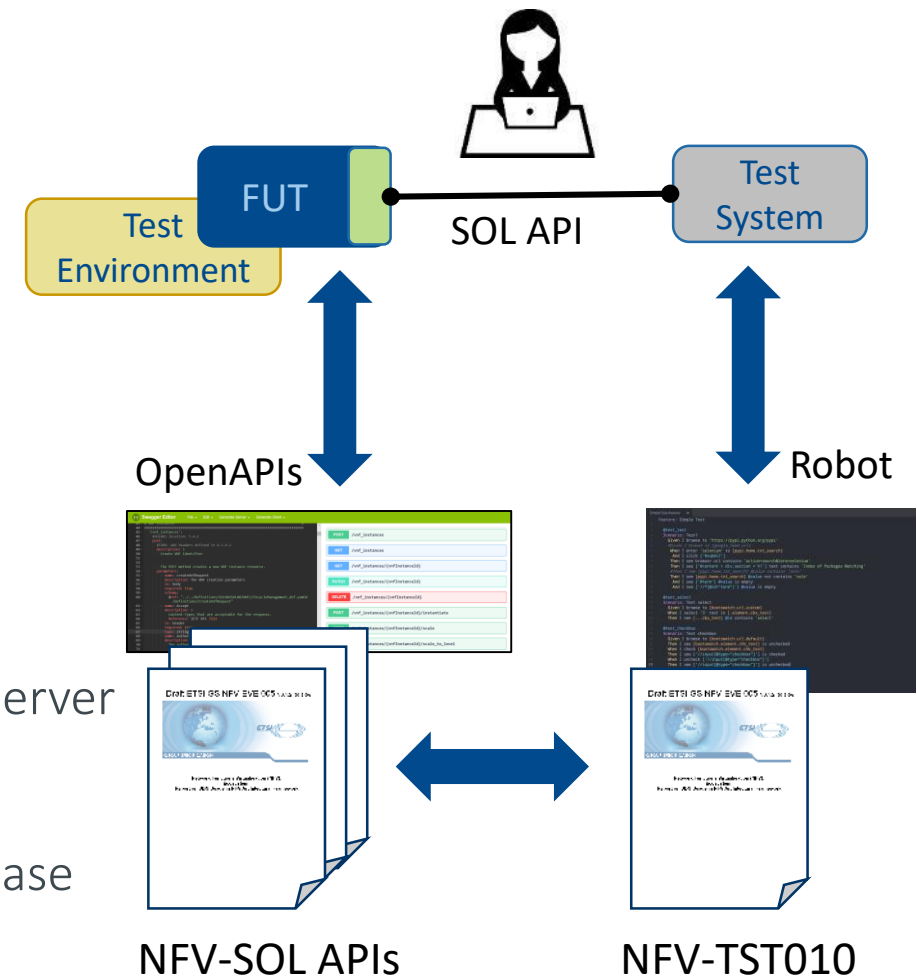


- ✓ New experimental Robot Framework Test Suite
- ✓ Based on [NFV- SOL016 MANO Stage 3 Procedures \(WIP\)](#)
  - ✓ VNF package on-boarding
  - ✓ NS instantiation
  - ✓ NS termination
  - ✓ NS scale VNF
  - ✓ NS update (external VNF connectivity)
- ✓ Triggers and final checks based on SOL005
  - ✓ Additional checks (SOL002, SOL003) TBD



# Scope 4 – NFV API Conformance Testing

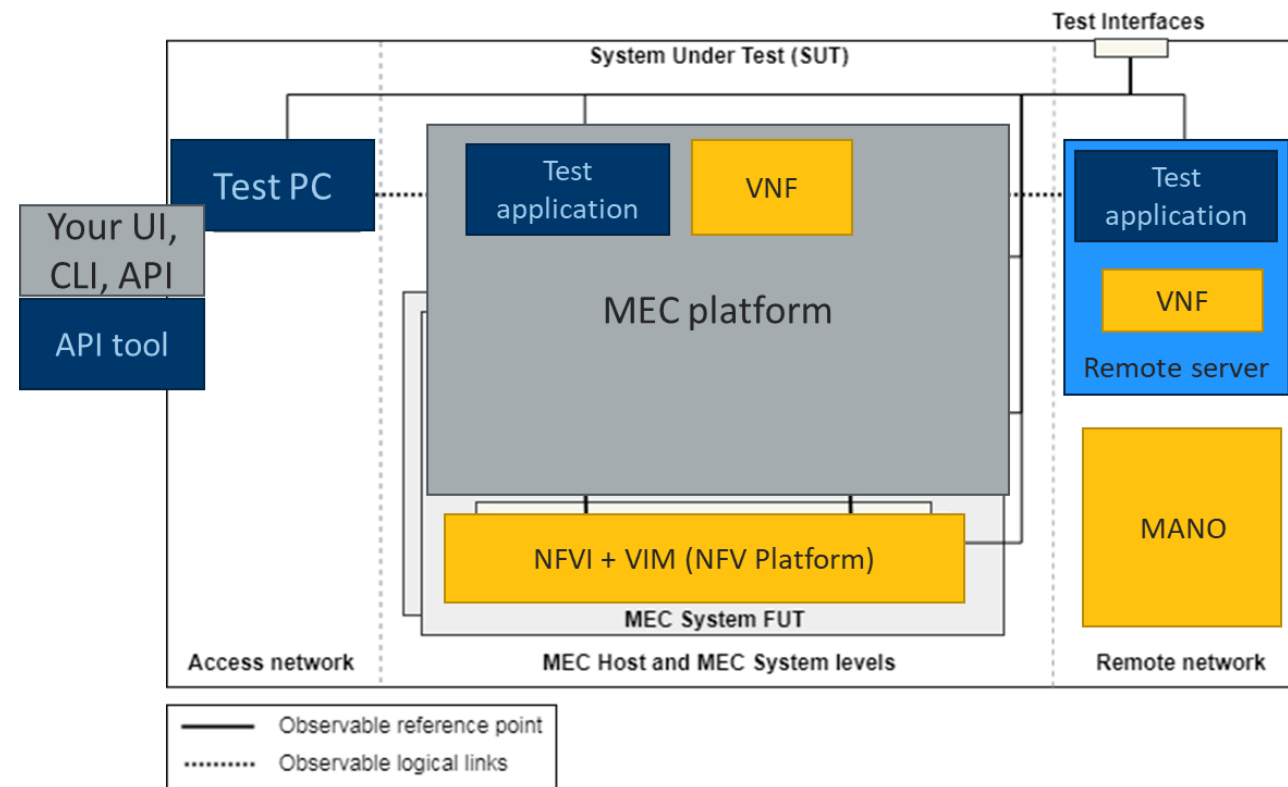
- Individual Test Sessions (self-service) => Participants operate their FUT and the Test System
- Test Plan:
  - NFV TST010 – NFV API Conformance Specs
  - Robot Framework [Test Suites](#)
  - Targeting several SOL versions (2.4.1, 2.6.1, 3.3.1)
- Plugtests Team makes **available on-line**
  - the **Test System**: NFV API Client & notification end point
  - the **Test Environment**: NFVI and VIM.
- Participants provide:
  - the **FUT**: NFV SOL002/SOL003/SOL005/SOL009/SOL011... API Server
  - the **Test Environment** (optionally)
- An **API testing briefing** will be scheduled during the preparation phase





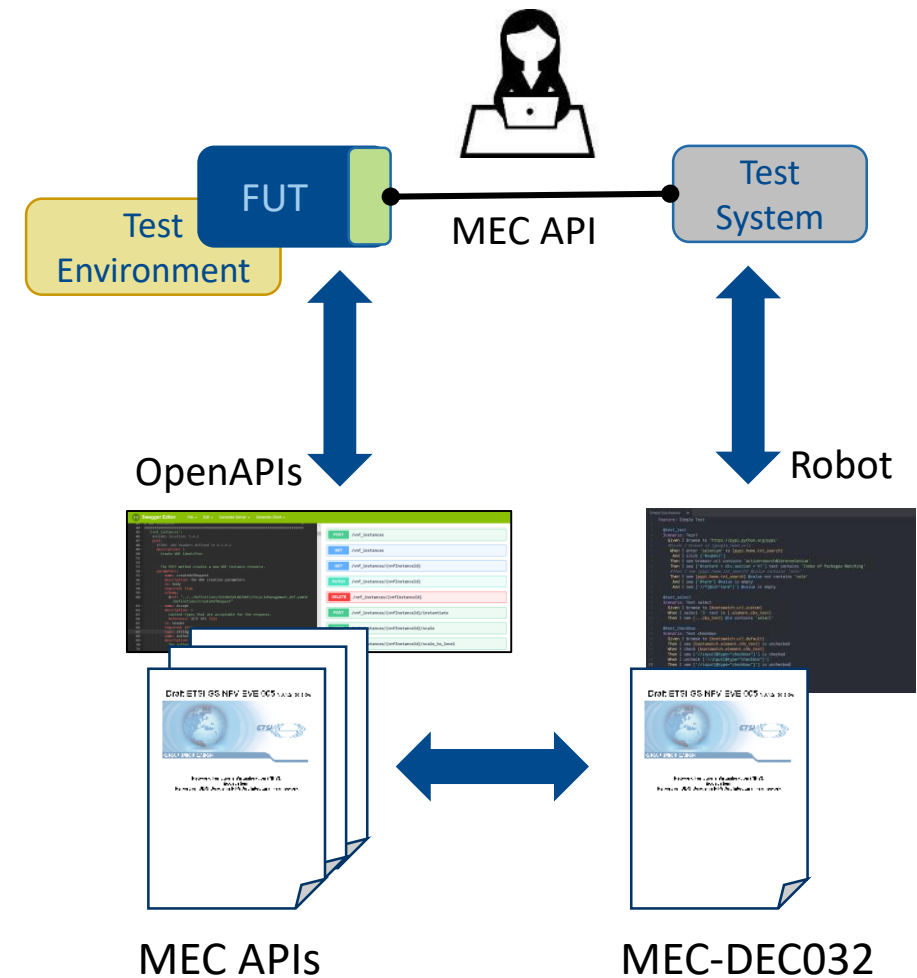
## Scope 5 – MEC Interop Testing

- Individual Test Sessions (self-service) => Participants operate their FUT and the Test System
- Test for both MEC-in-NFV and MEC Standalone solutions
- Test Plan:
  - MEC Application Lifecycle
  - Traffic rules management and enforcement
  - MEC Services and MEC APIs
- Building on [Test Plan MEC IOP V1.0.0](#) from the 4<sup>th</sup> NFV Plugtests (2019)

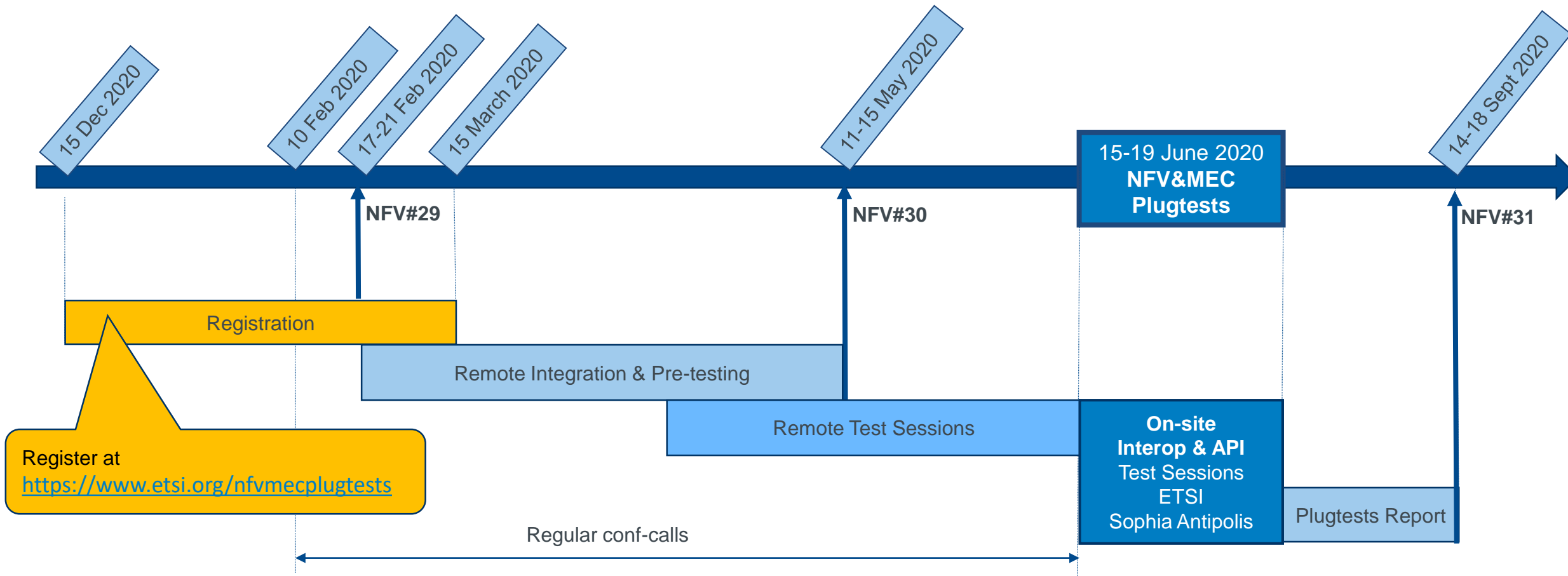


# Scope 6 – MEC API Conformance Testing

- Individual Test Sessions (self-service) => Participants operate their FUT and the Test System
- Test Plan:
  - MEC DEC 032 – MEC API Conformance Specs
  - Robot Framework [Test Suites](#)
- Plugtests Team makes **available on-line**
  - the **Test System**: MEC API Client & notification end point
- Participants provide:
  - the **FUT**: MEC 011, 012, 013, ... API Server
  - the **Test Environment**
- A **MEC API testing briefing** will be scheduled during the preparation phase



# NFV&MEC Plugtests 2020 - Timeline



# Registration

- ✓ At <https://www.etsi.org/nfvmecplugtests>
  - ✓ Min 1 person on-site (ETSI, Sophia Antipolis) 15-19 June – 2 or more recommended
  - ✓ Only people that will be on-site need to register
- ✓ 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
  - ✓ You will receive a QR code
    - ✓ You will need it for on-site check-in
  - ✓ The NFV Plugtests Programme NDA needs to be signed
    - ✓ Same as for previous events, no need to re-sign
  - ✓ The team gets access to the [NFV-PLUGTESTS Wiki](#), Slack and subscribed to the NFV\_Plugtests Mailing list
    - ✓ As many people in remote support as needed => just ask to [Plugtests@etsi.org](mailto:Plugtests@etsi.org)



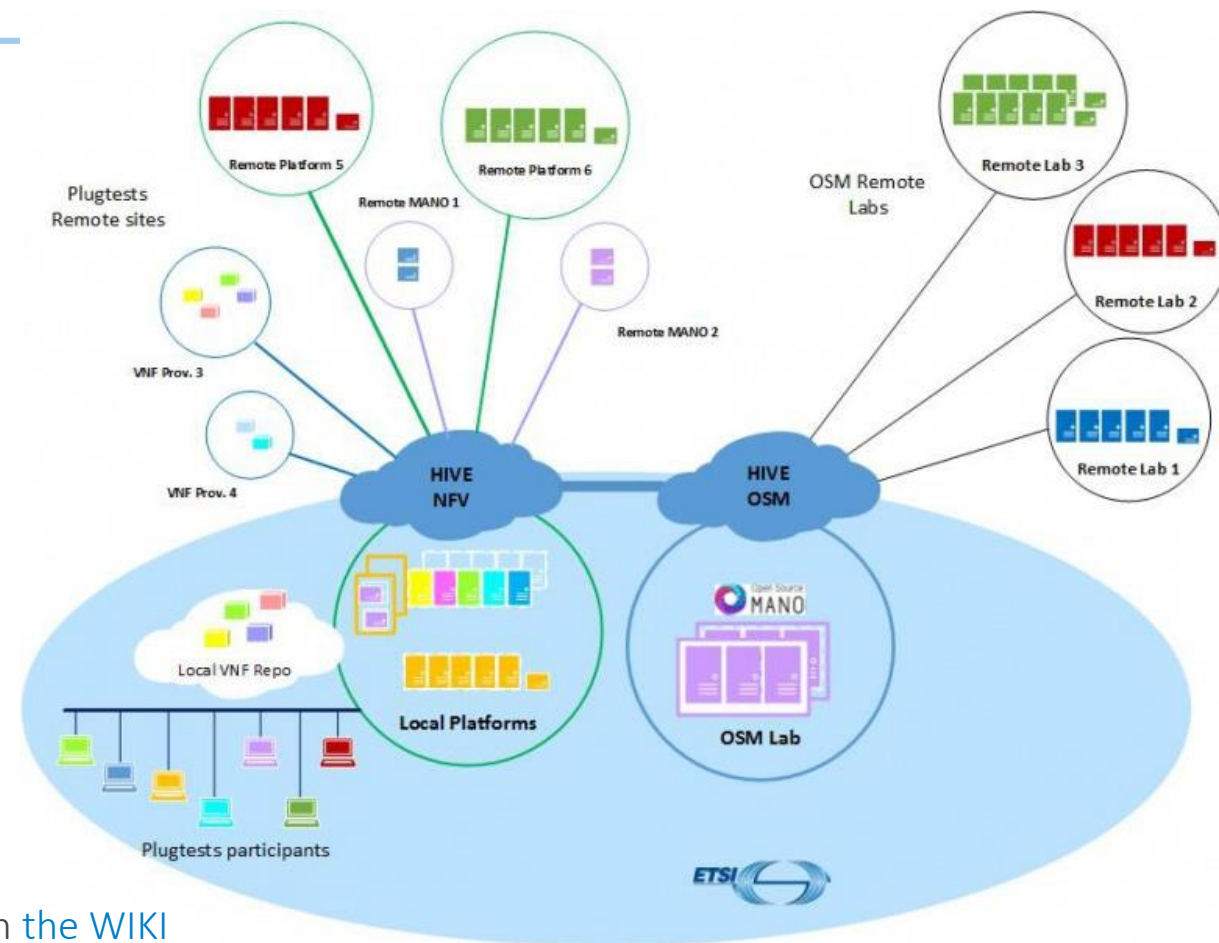
# Remote integration

## ✓ Regular calls, Mondays 3-4 pm CET

- February 10<sup>th</sup> – Kick-off
- February 24<sup>th</sup> – Deep dive on MEC
- March 16<sup>th</sup>
- April 6<sup>th</sup>
- April 20<sup>th</sup>
- May 4<sup>th</sup>
- May 11<sup>th</sup>
- May 18<sup>th</sup>
- May 25<sup>th</sup>
- June 8<sup>th</sup>

## ✓ Main goals

- ✓ Get your implementation / lab connected to HIVE
  - ✓ Hub for Interoperability and Validation at ETSI, instructions in [the WIKI](#)
  - ✓ It is also possible to ship equipment to ETSI
- ✓ Get familiar with test specifications and ask questions
- ✓ Get your Function Under Test documented on [the wiki](#)





# Remote (Pre-)Testing

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- ✓ Regular calls, Mondays 3-4 pm CET
  - February 10th – Kick-off
  - February 24th – Deep dive on MEC
  - March 16th
  - April 6th
  - April 20th
  - May 4th
  - May 11th
  - May 18th
  - May 25<sup>th</sup>
  - June 8<sup>th</sup>
  
- ✓ Main goals
  - ✓ Start (pre-)testing with 3<sup>rd</sup> parties remotely
  - ✓ Prepare, validate and share descriptors, packages ...
  - ✓ Start running conformance tests remotely
  
- ✓ Start as soon as remote integration completed => be proactive!
  - ✓ Contact 3<sup>rd</sup> parties on Slack, book pre-testing session, and ask questions!!

# On-site testing @ ETSI 15-19 June 2020

## NFV&MEC Plugtests 2020

- About us
- Structure
- Expertise
- Operations
- Partnerships
- ETSI in Europe
- ETSI worldwide
- Legal
- Find Us

Sophia Antipolis, France

€ Free of charge

15-19 June 2020

Register now

Contact us

- About
- Scope
- Conditions
- Related Documents
- Open Calls
- Venue & Travel

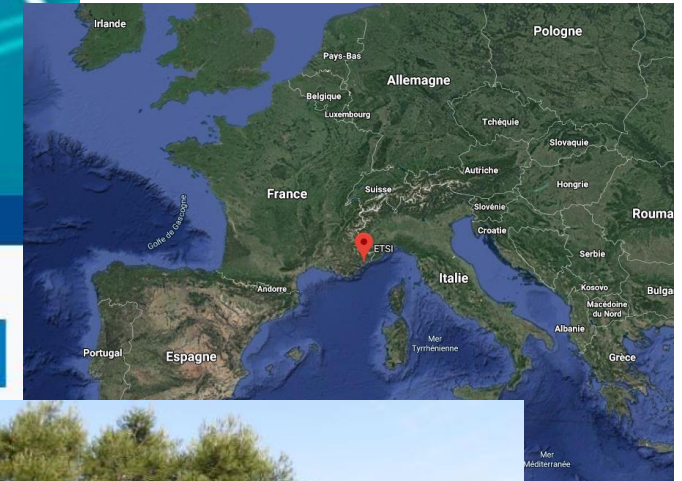
**ETSI Headquarters**

650 Route des Lucioles  
06921 Sophia Antipolis  
FRANCE

Tel: [+33 4 92 94 42 00](tel:+33492944200)


[Details of how to get to ETSI, local transport and hotels.](#)

Time	Monday	Tuesday	Wednesday	Thursday	Friday
08:30 09:30	SETUP	TEST SESSIONS			
9:30 10:30	WELCOME				
10:30 11:00	COFFEE BREAK				
11:00 13:00	TEST SESSIONS				
13:00 14:00	LUNCH BREAK				
14:00 16:00	TEST SESSIONS				
16:00 16:30	COFFEE BREAK				WRAP UP & TEAR DOWN
16:30 18:30	TEST SESSIONS				
18:30 19:00	WRAP UP	Networking dinner: Buses leave @ 18:30	WRAP UP		






# Test Session Reports



ETSI Test Reporting Tool



[Settings](#)
[Reports](#)
[Statistics](#)
[Session Plan](#)

Silvia Almagia (Manager)
 Event timezone (Europe/A)
 NfV#1
 [logout](#)

[Add free report](#)
[Export all reports](#)


id	status	date	duration	area	config	participants	commands
2038	👍	2017-01-25 14:30	180	Track 1	NfV	ADVA - Ensemble RedHat - Lenovo - NFVI+VIM	
2039	👍	2017-01-25 10:00	180	Track 2	NfV		
2041	👍	2017-01-25 10:00	180	New Area	NfV		
2042	👍	Freestyle			NfV		
2045	👍	2017-01-25 10:00	180	New Area	NfV		
2046	👍	2017-01-25 10:00	180	Track 5	NfV		
2047	👍	Freestyle			NfV		
2048	👍	2017-01-25 14:30	180	New Area	NfV		
2049	👍	2017-01-25 14:30	180	Track 5	NfV		
2051	👍	2017-01-25 14:30	180	Track 7	NfV		
2052	👍	2017-01-25 10:00	180	New Area	NfV		
2053	👍	Freestyle			NfV		
2054	👍	2017-01-25 14:30	180	Track 2	NfV		
2056	👍	Freestyle			NfV		


- [trt.plugtests.net](http://trt.plugtests.net)
- Instructions in [the WIKI](#)

ETSI Plugtests Report

V1.0.0 (2017-03)

1<sup>st</sup> ETSI NFV Plugtests  
Madrid, Spain  
23rd January – 3<sup>rd</sup> February






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

# Guidelines for Comms

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

- ✔ PRs, blog posts, social media...
- ✔ Note: If you are to mention other participants, please make sure they are OK with it
- ✔ The event is being photographed and video 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.

 **#NFVplugtests**  
**#MECplugtests**

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

- ✔ Please wait for the Plugtests Report to be published before communicating on Plugtests Results
- ✔ You can communicate on your own company's (/project) results
- ✔ Do not mention other companies results if you do not have a written agreement with them
- ✔ Do not compare to other participants, i.e: "we are the first", "the only ones", etc....

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

- ✔ In case of doubt, check the RoE and NDA, or ask ETSI



# Questions?

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# Thank you 😊

[plugtests@etsi.org](mailto:plugtests@etsi.org)