2ND NFV PLUGTESTS KICK-OFF

Silvia Almagia, ETSI CTI
NFV PLUGTESTS TEAM

CTI Technical Experts:
- Silvia Almagia, silvia.almagia@etsi.org
- Michele Carignani, michele.carignani@etsi.org

Event coordinator:
- Aurelie Sfez, aurelie.sfez@etsi.org

IT, HIVE:
- Jean-Luc Freisse, Jean-Luc.Freisse@etsi.org

Technical Support:
- Giacomo Bernini, g.bernini@nextworks.it
- Elian Kraja, e.kraja@nextworks.it
- Jokin Garay, jokin.garay@keynetic.es
15-19 January 2018, ETSI, Sophia Antipolis, FRANCE

- Registration is **OPEN** (until 18th October 2017)
- Participation free and open to any organisation bringing an *implementation to test or to support the testing*
  - Remote integration & pre-testing from October 2017

ETSI OSM, Open Baton, OpenStack and OPNFV confirmed as supporting open source communities

- Initial discussions with ONAP

Co-located with 1st ETSI OSM Hackfest
SCOPE

Coordinated multi-party **interoperability Test Sessions**
- VNFs, MANO, VIM, NFVI.. as many combinations as possible

Building on the learnings of the **1st NFV Plugtests**
- NS & VNF on-boarding, instantiation, scaling, update, termination

Considering new aspects, such as:
- fault and performance management, network path, multi-site, enhanced platform awareness,..
- a parallel track for NFV APIs validation

Final scope and test plan will be shaped with input from:
- participants (you!)
- supporting open source communities,
- ETSI NFV
THE “PROGRAMME” CONCEPT

Continuous program to support future Plugtests events and NFV Testing activities

Rationalise Plugtests preparation & participation overhead
- Technical: Connect to Plugtests HIVE once, keep it up in between Plugtests
- Admin: Sign 1 NDA once, then just register to specific Plugtests events

Many practical Benefits:
- Permanent access to testing partners
- Allow for remote testing any time (before & after Plugtests events)
- Allow for other types of testing (PoCs, experimentation, validation)
- Allow for local infrastructure & tools hosting @ETSI
HIVE – SEVERAL OPTIONS

Connect as Plugtests participant

Bring your implementation to ETSI (from the remote integration phase Oct-Nov)

Connect as OSM remote lab

We are looking for organisations interested in providing HW locally @ETSI: servers, NFVI, tools..
Registration at [http://www.etsi.org/nfplugtests2](http://www.etsi.org/nfplugtests2) before 4th / 18th October

NDA sent to participants upon registration

Access to Plugtests resources is provided as soon as NDA signed, and remote integration can start
PARTICIPATION TIMELINE

4th October
- Registration deadline to be mentioned as Plugtests participants at SDN NFV world congress – The Hague (9th October)
- NFV-PLUGTESTS mailing list purge

16th October
- Remote integration starts (requires NDA signed): connection to HIVE, local deployment, FUT documentation, descriptors, ...
- Start of weekly conf-calls

18th October
- Registration closes

30th October
- Deadline for NDA signature

6th November
- Remote pre-testing starts among connected/available VNFs, MANOs, VIMs (on-boarding, instantiation, termination ..)

30th November
- Deadline for remote integration / local deployment: all participants connected to HIVE (remotely or locally from ETSI)

15 - 19 January
- On-site presence (min 1 engineer/ FUT)

26th February
- 2nd NFV Plugtests Report release
REMOTE INTEGRATION: REQUEST HIVE CONNECTION

**HIVE**

*Hub for Interoperability and Validation at ETSI*

*Site-to-Site remote access*

<table>
<thead>
<tr>
<th>Company</th>
<th>ID</th>
<th>Status</th>
<th>GRE</th>
<th>Subnet or IP</th>
<th>Ping test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mahindra Conviva</td>
<td>22</td>
<td>✗</td>
<td>✗</td>
<td></td>
<td>172.21.132.1</td>
</tr>
<tr>
<td>EANTC AG</td>
<td>23</td>
<td>✗</td>
<td>✓</td>
<td></td>
<td>172.21.133.1</td>
</tr>
<tr>
<td>Netrounds</td>
<td>24</td>
<td>✗</td>
<td>✓</td>
<td></td>
<td>172.21.134.1</td>
</tr>
<tr>
<td>Fraunhofer FOKUS</td>
<td>25</td>
<td>✗</td>
<td>✓</td>
<td></td>
<td>172.21.135.1</td>
</tr>
<tr>
<td>Adva</td>
<td>26</td>
<td>✗</td>
<td>✓</td>
<td></td>
<td>172.21.136.5</td>
</tr>
<tr>
<td>Sandvine</td>
<td>27</td>
<td>✗</td>
<td>✓</td>
<td></td>
<td>172.21.137.1</td>
</tr>
<tr>
<td>Sonus Networks</td>
<td>28</td>
<td>✗</td>
<td>✓</td>
<td></td>
<td>172.21.138.223</td>
</tr>
<tr>
<td>HPE</td>
<td>29</td>
<td>✗</td>
<td>✓</td>
<td></td>
<td>172.21.139.1</td>
</tr>
<tr>
<td>Keynetic Technolo</td>
<td>30</td>
<td>✗</td>
<td>✓</td>
<td></td>
<td>172.21.140.106</td>
</tr>
<tr>
<td>Ericsson</td>
<td>35</td>
<td>✗</td>
<td>✓</td>
<td></td>
<td>172.21.145.1</td>
</tr>
<tr>
<td>Fortinet</td>
<td>36</td>
<td>✗</td>
<td>✓</td>
<td></td>
<td>172.21.146.1</td>
</tr>
<tr>
<td>AdiONetworks</td>
<td>37</td>
<td>✗</td>
<td>✓</td>
<td></td>
<td>172.21.147.1</td>
</tr>
<tr>
<td>Palo Alto Networks</td>
<td>38</td>
<td>✗</td>
<td>✓</td>
<td></td>
<td>172.21.148.1</td>
</tr>
<tr>
<td>F5 Networks</td>
<td>21</td>
<td>✗</td>
<td>✓</td>
<td></td>
<td>172.21.131.1</td>
</tr>
</tbody>
</table>

**VPN Request**

*Business Information*

*Contacts*

*Company name:*

*City/Country where VPN tunnel is set:*

*Password:*

*Confirm Password:*

*Warning: This password will be shared by the three contacts listed below.*

**First name**

**Last name**

**Email**

**Phone**

**Service Data**

*Linux StrongSwan (OPV, ETSI coming)*

*Logonos span*
REMOTE PRE-TESTING

Sanity-check different (as many as possible) combinations of MANO – VIM -VNF

- Connectivity, credentials
- Images, descriptors
- Basic testing:
  - On-boarding
  - Instantiation
  - Termination
ONSITE - DAILY TEST SESSIONS

Several Parallel Test Sessions

Evening wrap-up meetings
Detailed results only accessible to those organisations involved in the Test Session
OVERALL RESULTS (AGGREGATED DATA)

Main Goals:
- max # Test Sessions (FUT combinations)
- max # individual tests run
- Feedback to ETSI NFV
ETSI does not certify or endorse companies or products participating to Plugtests

- We provide the framework, the means, the methodology, the procedures, the test plan...
- Actual testing is run collaboratively by participants

NFV Plugtests are a tool to validate ETSI NFV work and gather consolidated feedback from implementers

The 1st NFV Plugtests Test Plan was contributed to ETSI NFV-TST007 (about to be published)

Recommended reading for new Plugtests participants:
- 1st NFV Plugtests Report
QUESTIONS?
Silvia Almagia
Centre for Testing and Interoperability, ETSI
silvia.almagia@etsi.org
plugtests@etsi.org

Thank you!