

A background graphic featuring a network of blue lines connecting yellow circular nodes, set against a dark blue gradient.

LFN Mentorship Project Presentation

November 2020

ETSI NFV APIs conformance test for OVP

› Introduction

- › **Name:** Simran Singhal
- › **Location:** Hyderabad, India
- › **University:** International Institute of Information Technology Hyderabad
- › **Mentor(s):** Yan Yang, Kanagaraj Manickam
- › **LFN Project:** ONAP

ETSI NFV APIs conformance test for OVP

Project Description:

- › VTP (VNF test platform) supports OVP VNF compliance and validation tests.
- › Manage and orchestrate different VNF testing scenario
- › Should include standard test cases from standard organization
- › Add support for ETSI NFV APIs conformance test.

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› **Project Objectives:**

- › Understand and set up VTP
- › Understand existing plug-ins integration methods in CLI
 - › cmd, http and snmp
- › Develop a new plugin: robot
- › Understand and add SOL005, SOL003, SOL002 ETSI NFV APIs conformance test cases to VIP
- › Automate the process

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› Project Deliverables:

- › Robot plugin: [VNFSDK-614](#), [Gerrit link](#)
- › Add conformance testcases: [VNFSDK-614](#), [Gerrit link](#)
- › Automatically discover and add testcases: [VNFSDK-614](#), [Gerrit link](#)

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Project Execution & Accomplishments:

› Completed:

- › Developed robot plugin
- › Added ETSI NFV APIs conformance testcases in VTP
- › Automated testcases discovery

› InProgress:

- › Unit Testing of robot plugin
- › Integrate automatic discovery of testcases in robot plugin

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Project Execution & Accomplishments:

› InComplete:

- › Build SOL005/003/002 simulator for verifying ETSI NFV APIs conformance test cases
 - › NFVO -> SOL005
 - › VNFM -> SOL003
 - › VNF -> SOL002

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Project Execution & Accomplishments:

› Challenges:

- › Set Up issues
- › Understanding the existing plug-ins (cmd, http and snmp)

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- › **Recommendations for future work:**
 - › Develop simulator to verify test cases
 - › Add user guide for robot plugin

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- › **Insights Gained:**
 - › Learned something new at every step!
 - › Technologies
 - › Importance of documentation
 - › Helpful community
 - › Networking

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THANK YOU!

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