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
THANK YOU!