Is there any available simulators/emulators I could reuse for my own use case?

- List of simulators by category
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    - PNF simulator
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    - IETF/ACTN PNC Simulator

For the different use cases, people created emulators/simulators. This page aims to reference them and leverage on existing simulators.

In other words before creating yours, check that somebody did not already created it 😊

List of simulators by category

PNF Simulators

pnf onboarding

Owner: szabolcs.hutvagner AT ericsson.com
Repository: https://git.onap.org/integration/tree/test/mocks/pnf-onboarding
Description: PNF Package for Integration Test
Use cases: <list of use cases using this simulator>
Compatibility version:

PNF simulator

Owner: Krzysztof Kuzmicki
Repository: https://git.onap.org/integration/simulators/pnf-simulator/
Description: Core PNF simulator, Netconf simulator, simulator-cli
Use cases: 5G PNF, 5G PNF PnP
Compatibility version:

Sniro simulator

Owner: georab AT amdocs.com
Repository: https://git.onap.org/integration/tree/test/mocks/sniroemulator
Description:
Use cases: <list of use cases using this simulator>
Compatibility version:

Mass PNF Simulator
Owner: Tamas Bakai
Repository: https://git.onap.org/integration/simulators/masspnf-simulator
Description: Mimic the PNF for benchmark purposes
Use cases: <list of use cases using this simulator>
Compatibility version:

**PMSH PNF simulator**

Owner: Rajendra Jaiswal
Repository: https://git.onap.org/integration/tree/test/mocks/pmsh-pnf-sim
Description:
Use cases: <list of use cases using this simulator>
Compatibility version:

**RAN simulator**

**Ran simulator**

Owner: Priyadharshini B
Repository: https://git.onap.org/integration/simulators/ran-simulator/
Description: RAN-SIM is a Radio Access Network Simulator, it is used to simulate the various functionalities of an eNodeB
Use cases: E2E Network Slicing
Compatibility version: > Frankfurt

**A1 Policy Enforcement Simulator**

Owner: Krystian Kedron
Description: Simulator that supports the A1-P OSC_2.1.0 interface and also provides internal API to manage the RAN elements (Cells, Ues) and allows to customize and send VES Events.
Use cases:
Compatibility version: >= Frankfurt

**Misc**

**EMS simulator**

Owner: Enbo Wang
Repository: https://git.onap.org/integration/tree/test/mocks/emssimulator
Description:
Use cases: PNF software upgrade
Compatibility version:

**HV VES Simulator**

Owner: Marcin Przybysz
Repository: https://git.onap.org/integration/tree/test/mocks/hvessimulator
Description: Heat template for HV-VES simulator deployment
Use cases: 5G Realtime PM and High Volume Stream Data Collection
Netconf PNP simulator
Owner: Eliezio Oliveira
Repository: https://git.onap.org/integration/tree/test/mocks/netconf-pnp-simulator
Description: NETCONF Plug-and-Play Simulator
Use cases: E2E Integration Test for NETCONF/TLS Configuration Test Cases
Compatibility version:

DC simulator
Owner: Xin Miao
Repository: https://git.onap.org/integration/simulators/dc-simulator/
Description: Data Center simulator
Use cases: MDONS
Compatibility version:

ProvMnSProvider
Owner: Cheng Huang
Repository: https://git.onap.org/integration/tree/test/mocks/prov-mns-provider
Description: Provisioning management service provider for 5G NRM CM
Use cases: 5G NRM CM
Compatibility version:

Datafile-collector
Owner: Björn Magnusson
Repository: https://git.onap.org/integration/tree/test/mocks/datafilecollector-testharness
Description:
Use cases: <list of use cases using this simulator>
Compatibility version:

Core NSSMF Simulator
Owner: Zihao Zhang
Repository: https://git.onap.org/integration/simulators/core-nssmf-simulator
Description: A simulator that exposes standard NSSMF northbound api for 5G network slicing use case. Including allocate, deallocate, activate, deactivate etc
Use cases: 5G Network Slicing
Compatibility version: >= Frankfurt

IETF/ACTN PNC Simulator
Owner: Decheng Zhang
Repository: https://github.com/onap/integration-ietf-actn-tools
Description: A simulator that exposes IETF/ACTN northbound api for physical network domain controller (PNC). This simulator is used to test the Trandport Slicing (i.e., TN NSSMF functionality) in the 5G Network Slicing use case, CCVPN, as well as the Cloud Leased Line service in the IBN use case. Simulator user guide: ACTN Simulator User Guide
Usage Status Update: April 2021

Below table shows current assessment on simulators utilisation. Date of last commitment DOES NOT include PRs regarding verification jobs or repo maintenance, only commitments to the simulator code itself.

Usage assessment done with Code Hound instance to traverse all ONAP repositories. Onap's wiki was also searched through last year time span.

<table>
<thead>
<tr>
<th>Simulator name</th>
<th>Last update</th>
<th>Usecases/projects leveraging simulator</th>
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<tr>
<td>PNF onboarding</td>
<td>Jul 2019</td>
<td></td>
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<tr>
<td>PNF simulator</td>
<td>Jan 2021</td>
<td>5G PNF, 5G PNF PnP, sdnc/oam, testsuite, csit, pythonsdk-tests, ccsdk/cds</td>
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<tr>
<td>Sniro simulator</td>
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<td>Mass PNF Simulator</td>
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<td>pythonsdk-tests</td>
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<tr>
<td>PMSH PNF simulator</td>
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<tr>
<td>RAN simulator</td>
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<td>E2E Network Slicing, SO, DCAE, SDN-R/CCSDK</td>
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<tr>
<td>EMS simulator</td>
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<td>Oct 2018</td>
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<td>Datafile-collector</td>
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<td>A1 PE Simulator</td>
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<td>5G Network Slicing</td>
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<tr>
<td>ACTN PNC simulator</td>
<td></td>
<td>5G Network Slicing, IBN, CCVPN</td>
</tr>
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</table>

Legend:

<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Simulators not updated for Guin/Honolulu</td>
</tr>
<tr>
<td></td>
<td>Obsolete simulators</td>
</tr>
<tr>
<td></td>
<td>Continuously maintained</td>
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