### vCPE Design and Test Cases

All related issues are listed under JIRA Epic **INT-57** - This epic includes all stories and tasks related to vCPE use case for R1 [CLOSED]

<table>
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<th>JIRA story</th>
<th>Design / Test Case</th>
<th>Tools</th>
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<th>Committers</th>
<th>On track to M4</th>
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| INT-63     | VPP-based VNF development | VPP-based VNF development | Danny Zhou | on track |  | VPP-based VNFs: vGMUX, vG, vBNG, vBRG  
Cross test with APPC if needed  
Cross test with SDNG if needed  
Cross test with DCAE if needed |
| INT-58     | VNF packaging & certification | Heat templates, env files, images | Marco Platania, Brian Freeman, Danny Zhou | on track |  | Create HEAT and ENV files for the following VNFs and the virtual networks required for this use case  
VPP-based VNFs: vGMUX, vG, vBNG, vBRG  
Generic Application VNFs: vDHCP, vAAA, vDNS  
If needed, validate the templates using ICE  
Heat templates: [https://gerrit.onap.org/r.gitweb/?p=demo.git;a=tree;f=heat;h=07cb146e622c0c349aebd4456e65e7e2f3f;h refs/heads/master][1]  
Install scripts: [https://gerrit.onap.org/r.gitweb/?p=demo.git;a=tree;f=vnfs/vCPE/scripts;h=e3994ce3c78fb998ae6ba1172a3f55c51098726c71b refs/heads/master][2] |
| INT-93     | VNF TOSCA template development | VNF TOSCA template development | DeWayne Filippi | on track |  |  |
| INT-84     | VNF onboarding | VNF templates, env files, references to images, VNF packages | Marco Platania, Brian Freeman, Danny Zhou | on track |  | Onboard all the VNFs in SDC and get them ready for service design  
Every HEAT received by SDC should be previously certified by ICE. ICE is not integrated with SDC so far.  
Images are not stored in SDC. Either in openstack directly or pulled from the Internet. |
| AA1-292    | Add mac-address to p-interface node-type | A&AI data model | Christina Monteleone | on track |  | Update the schema by adding a MAC address attribute on the P-interface. |
| CLAMP-20   | vCPE support Design | Closed loop design, CLAMP, SDC, DCAE | Ron Shacham, Gervais-Martial Nguemo | on track |  | Distribute blueprint template to SDC  
Distribute vGMUX restart policy to policy engine |
| INT-87     | Test of generic service level and resource level workflows | Generic workflow test | Rob Daugherty | on track |  | Service level generic flows  
Resource level generic flows |
| INT-88     | SDNC artifacts | Custom workflow design and test | Camunda Modeler, Workflows diagrams, BPMN and groovy files | Michael Zinnikas, Saryu Shah | on track | Service level flow: vCpeResCust  
Resource level flow: TunnelXConn  
Resource level flow: BRG |
| INT-89     | APPC artifacts | Text editor & DG Builder, Yang files and DG | Dan Timoney | on track |  | Yang models  
DGs  
API data model  
Configure vBRG  
Configure vGMUX for data collection |
| INT-90     | Data analytics application | Data analytics application | Alexei Nekrassov | on track |  | TCA to process packet loss events |

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### Notes

[1]: [https://gerrit.onap.org/r.gitweb/?p=demo.git;a=tree;f=heat;h=07cb146e622c0c349aebd4456e65e7e2f3f;h refs/heads/master](https://gerrit.onap.org/r.gitweb/?p=demo.git;a=tree;f=heat;h=07cb146e622c0c349aebd4456e65e7e2f3f;h refs/heads/master)

[2]: [https://gerrit.onap.org/r.gitweb/?p=demo.git;a=tree;f=vnfs/vCPE/scripts;h=e3994ce3c78fb998ae6ba1172a3f55c51098726c71b refs/heads/master](https://gerrit.onap.org/r.gitweb/?p=demo.git;a=tree;f=vnfs/vCPE/scripts;h=e3994ce3c78fb998ae6ba1172a3f55c51098726c71b refs/heads/master)
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<th>Task ID</th>
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| INT-91 - DCAE Collector | Create VES collector docker image  
Test VES collector with vGMUX | CLOSED   | -                                                                        |
| INT-92 - Robot to instantiate vGMUX | Not needed anymore. vGMUX is now instantiated through VID. | CLOSED   | -                                                                        |
| INT-215 - SNIRO Emulator | A Robot to emulate BSS. It monitors DMaaS to capture BRG registration event, queries AAI to obtain service and customer data, and then invokes the custom service level workflow to instantiate customer service. | CLOSED   | -                                                                        |
| INT-126 - Infrastructure Service template creation | An emulator to providing homing information.  
It is used by the service level custome workflow vCpeResCust to determine the homing information. | CLOSED   | -                                                                        |
| INT-127 - Customer Service template creation | A Robot to call the vGMUX REST API to set desired packet loss rate. This is used to emulate packet loss to trigger closed loop control. | CLOSED   | -                                                                        |
| INT-128 - Infrastructure Service template creation | Customer Service template creation  
SDC vGMUX, vBNG, vDHCP, vAAA, vDNS packages  
Service template in TOSCA | CLOSED   | Marco Platania  
Brian Freeman  
Danny Zhou  
on track   | -                                                                        |
| INT-129 - Customer Service template creation | Customer Service template creation  
SDC vBRG, vG packages  
Service template in TOSCA | CLOSED   | Marco Platania  
Brian Freeman  
Danny Zhou  
on track   | -                                                                        |
| INT-130 - vCPE Test Case creation | Creat integration test case  
Completed: vCPE Integration Test Case | CLOSED   | -                                                                        |
| INT-131 - vCPE Test Case creation | Robot suite for E2E test  
Integration Test | CLOSED   | Daniel Rose  
on track   | -                                                                        |