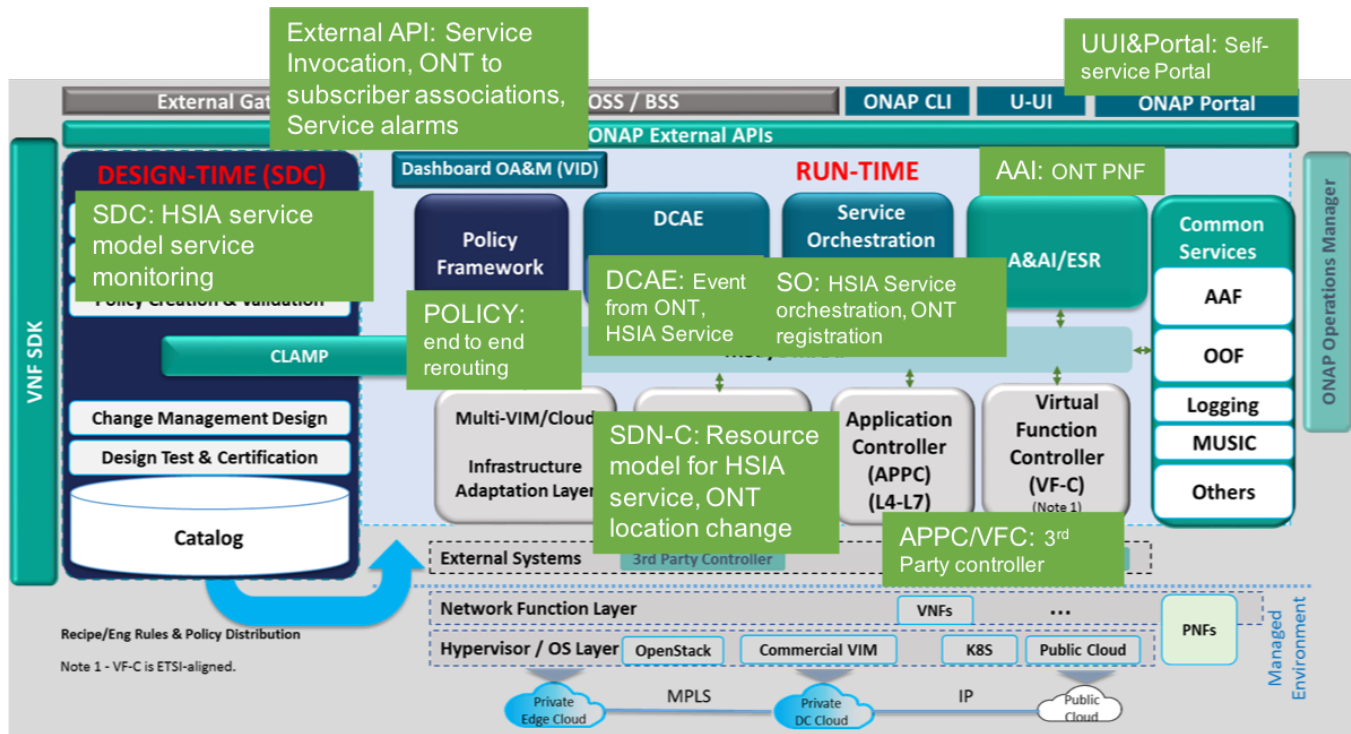


# BBS Impacts

## Platform Requirements

- PNF re-registration
- Hybrid (VNF+PNF) service orchestration
- Existing RFS onboarding and association to CFS, e.g. new CFS HSIA associated with existing RFS transport (infrastructure) and RFS Fiber Access (infrastructure)



| Project       | Usage  | Work to be done by Team   | Work needed in Project Team  |
|---------------|--|---|--|
| SDC           | CFS HSIA design  | Use the platform PNF model in definition of service   | None - using platform  |
| SO            | CFS HSIA orchestration<br>ONT PnP and PNF registration & re-registration               | New BPMN recipe for nomadic ONT case<br>Assumption: PNF registration (discovery) is implemented   | 5G Use Case to develop PNF discovery and re-registration - Nokia led WIP<br>re-use Service instance update API |
| Policy        | Trigger service reconfiguration due to nomadic ONT event (re-registration)             | Support for creating policies during run-time (configuration policies associated with RestConf collector and VES mapper)<br>Support new operational policy(s) in CL | None - but informing there is a creation of PNF re-registration policy   |
| SDN-C (CCSDK) | Integrated with 3rd party controller   | New DG/YANG model for service creation, activation and change<br>New DG/YANG for ONT location change<br>Modify generic resource API for NBI                         | None - Update DG repository with new DGs   |
| UII           | ONT to customer association (customer ID)<br>Service health dashboard                  | BBS custom UI   | None - not going to use  |
| A&AI          | DM for ONT PNF Association with subscriber<br>3rd party controller interfaces for VNFs | A&AI needs to scale to support high number of CFS instances<br>update A&AI schema for new data model  | None - using platform  |

|               |   |  |   |
|---------------|---|--|---|
| External APIs | CFS HSIA LCM<br>ONT location change notification<br>ONT and CFS HSIA alarms /notifications<br>Service modification request (subscription plan change) |  | Nice to have: Support for TMF 638 ServiceStateChangeNotification or ServiceAttributeValueChangeNotifications - Huawei   |
| DCAE          | Collect the event data for CFS HSIA health<br>ONT PNF (re-)registration   | <p>New Restconf2VES mapping support</p> <p>Enhance Restconf collector</p> <p>New microservice to handle CPE authentication event</p> <p>Support to be added to detect nomadic ONT move and build DCAE_CL_Event to trigger Policy to modify the existing services.</p> <p>Assumption: Use PRH for PNF re-registration</p> | <p>Must have:</p> <ul style="list-style-type: none"> <li>Restconf2VES mapper (BBS only have resources - TechM)</li> <li>Restconf collector microservice (BBS only have resources - Huawei)</li> <li>CPE authentication microservice (BBS only have resources - Nokia)</li> <li>PRH microservice needs to trigger policy (generic 5G use case resource - Nokia)</li> </ul> |
| VF-C /APP-C   |   |  | None - not using  |
| Modeling      | CFS HSIA model  | <p>Need new data types: ONT PNF, OLT connectivity</p> <p>Dublin: Assumption is ONT PNF has both ONT and RG functionality</p>   | Update platform data model for PNF resource which will provide a field for PNF re-registration (from the additional information field of the PNF registration VES event) - Swisscom/Huawei/Nokia  |
| CLAMP         | Define nomadic ONT closed loop  | Restconf collector; VES mapper; PRH; VES collector with Policy interactions needed   | None - creating BBS closed loop   |