SDN-R Development

Directory structure

In the gerrit ccsdk/feature repository in the path sdnr/wt the sources for all feature bundles are located.

In the following directory tree there are two sdnr services northbound and wt.

sdnr/ northbound features helloworld goodbyeworld energysavings oofpcipoc featureaggregator apigateway helpserver devicemodel devicemanager websocketmanager2 odlux pom.xml README.md

In sdnr/wt the features apigateway, helpserver, devicemodel, devicemanager, websocketmanager2, odlux are providing the functionality.

In sdnr/northbound there are the "development examples" helloworld and goodbyworld and the services energysavings and oofpcipoc.

Each feature contains a substructure

The sdnr/wt/featureaggregator and sdnr/northbound/features

- is packaging all the above sdnr wt feature bundles (apigateway, ..., odlux) into one ZIP installer to integrate them into a distribution image
- providing a single karaf feature that can be used to install the complete service "sdnr-wt-feature-aggregator", but also provides the sub-features
 and its repositories

Template structure for feature

The SDN-R template structure for one feature has the elements:

| name | content |
|-----------|---|
| feature | (mandatory) OSGi xml feature and dependency |
| installer | (mandatory) ZIP file containg mavenrepository content of helloworld feature for delivery to distribution ODL Karaf container. |
| model | (optional) OSGi bundles export interface source files as java or yang source |
| provider | (optional) OSGi bundles implementation source files as java or yang source |

A functional implementation should normally provide all elements, but it could be a subset only.

- feature aggregator: Feature xml and installer are required.
- model provider: feature, installer, model

Subsequent descriptions

The decriptions for creating a feature are:

- 1. Creating and Installing a New Feature into SDN-R
- 2. Creating a "Component Meta-Feature"
- 3. Creating SDNC/oam image with SDN-R functionality

The descriptions are provided with ONAP Casablance release. So the version numbers are related to Casablanca.