

Hello World xApp Use Case Flows

Up-to-date information

See section "Demo on how to deploy the near-RT RIC, compile and connect the E2 simulator, compile the hello-world go xapp and how use the dms_cli to deploy it" in [2022-05-24 Release F](#) or generally the links here: [Introduction and guides#Installingthenear-RT RIC](#)

Some old information from 2020 related to A1 (not sure if still works)

Create a Policy Type

Here we define a new policy type and call the A1 mediator to create such a policy type.

Run ...

```
$ cd ~/dep/
$ POLICY_TYPE_ID="20008"
$ echo '{ "name": "tsapolicy", "description": "tsa parameters", "policy_type_id": 20008, "create_schema": {
"$schema": "http://json-schema.org/draft-07/schema#", "title": "TS Policy", "description": "TS policy type",
"type": "object", "properties": { "threshold": { "type": "integer", "default": 0 } }, "additionalProperties":
false } } ' > ts-policy-type-20008.json
$ curl -v -X PUT "http://$(hostname):32080/a1mediator/a1-p/policytypes/${POLICY_TYPE_ID}" -H "accept:
application/json" -H "Content-Type: application/json" -d @./ts-policy-type-${POLICY_TYPE_ID}.json
```

List Policy Types

We now should see the newly created policy type when querying the A1 mediator.

Run ...

```
$ curl -X GET --header "Content-Type: application/json" --header "accept:
application/json" http://$(hostname):32080/a1mediator/a1-p/policytypes
```

Create a Policy Instance

Policy type is merely a declaration. Now we create a policy instance, filling the properties with actual values. This is also carried out by the A1 mediator.

A1 mediator will distribute the new policy instance to the Traffic Steering xApp.

And then we should see that the TS xApp receives this policy instance and its behavior of "filtering RAN data by threshold" changing to using the new threshold value.

Run...

```
$ POLICY_ID="tsapolicy145"
$ curl -X PUT --header "Content-Type: application/json" --data "{\"threshold\" : 5}" http://$(hostname):
32080/a1mediator/a1-p/policytypes/${POLICY_TYPE_ID}/policies/${POLICY_ID}
```