

MDONS OOF in R7

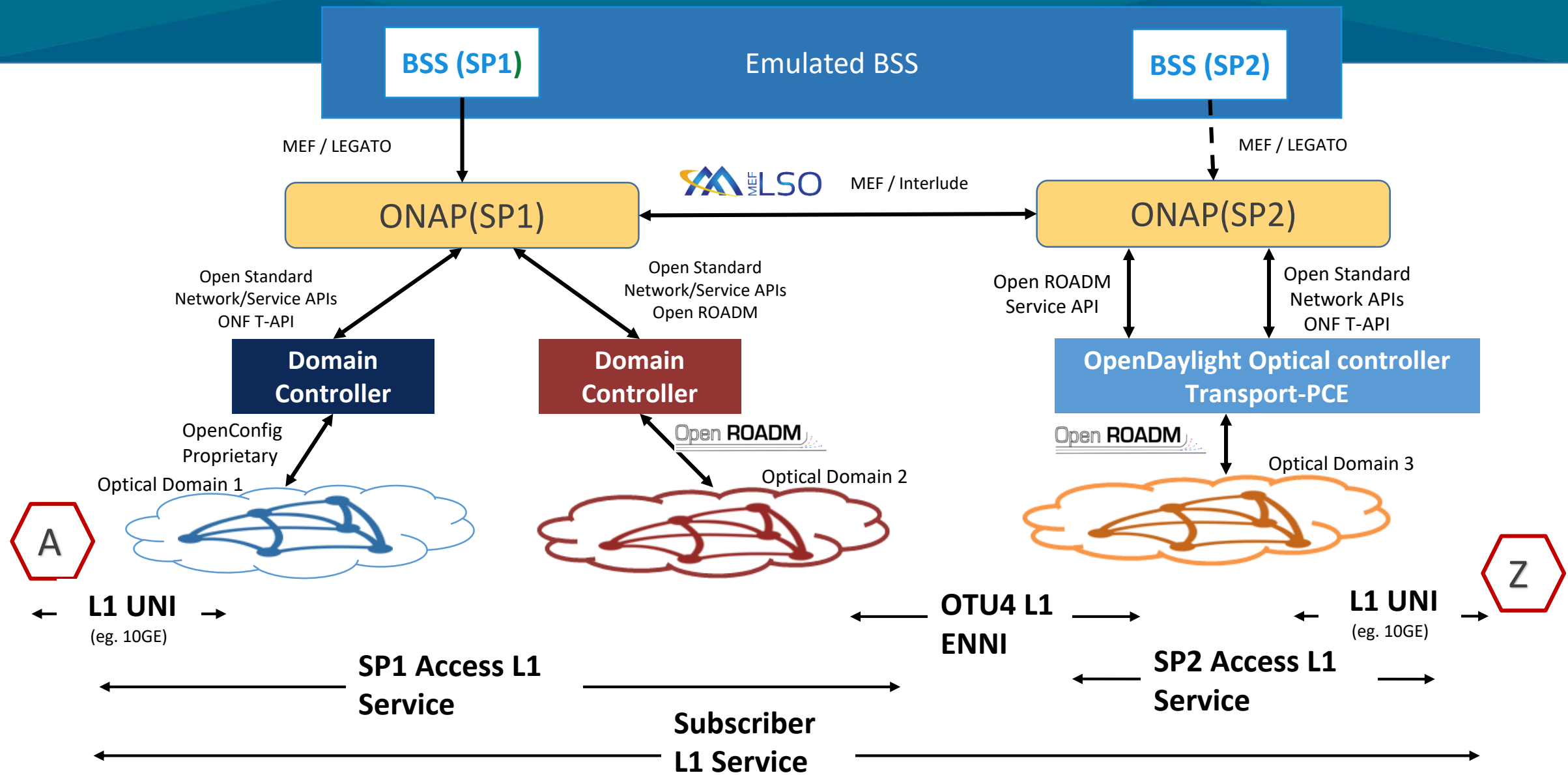
Introduction and work items in Guilin

June 2020 Fujitsu

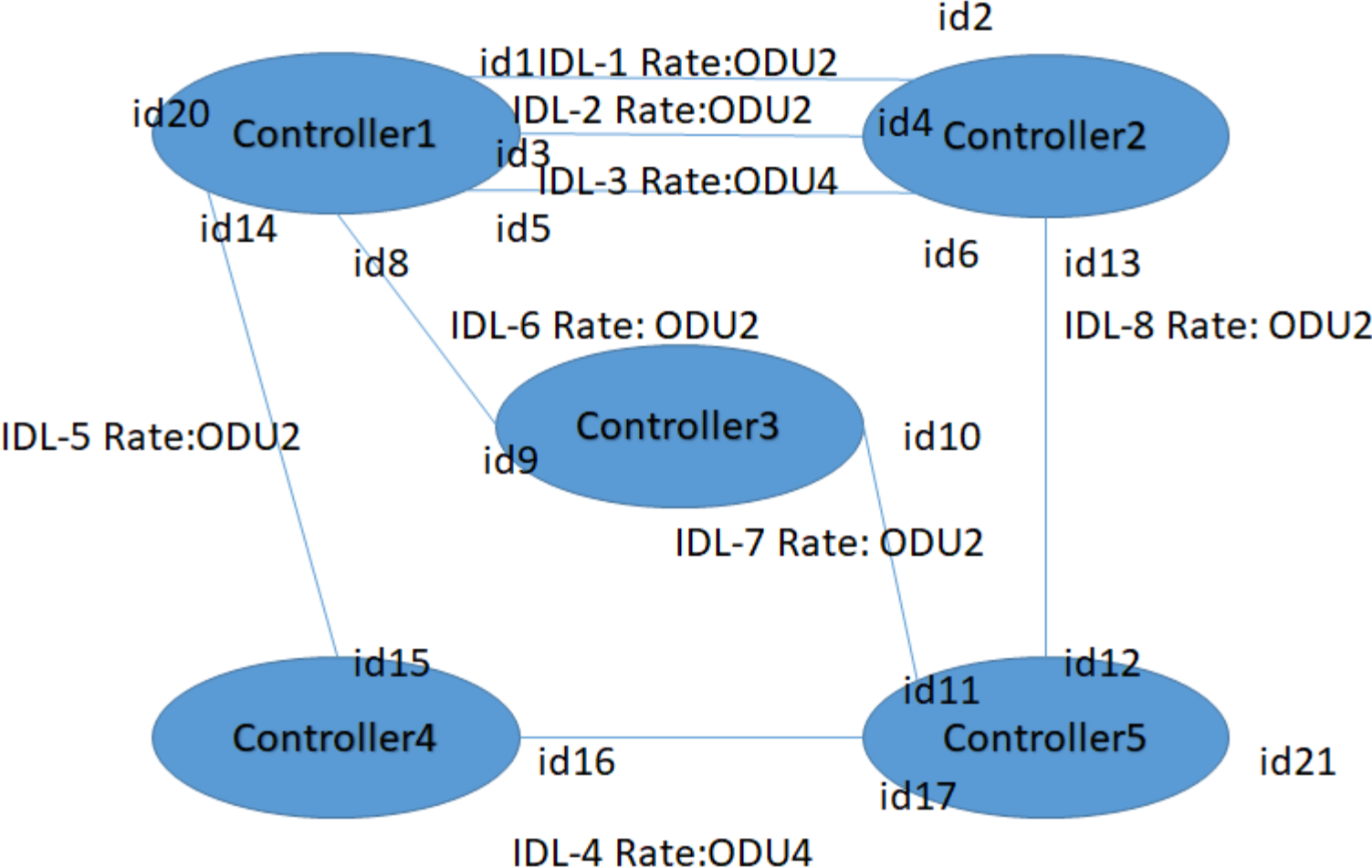
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Cross Carriers L1 Service – MEF based.

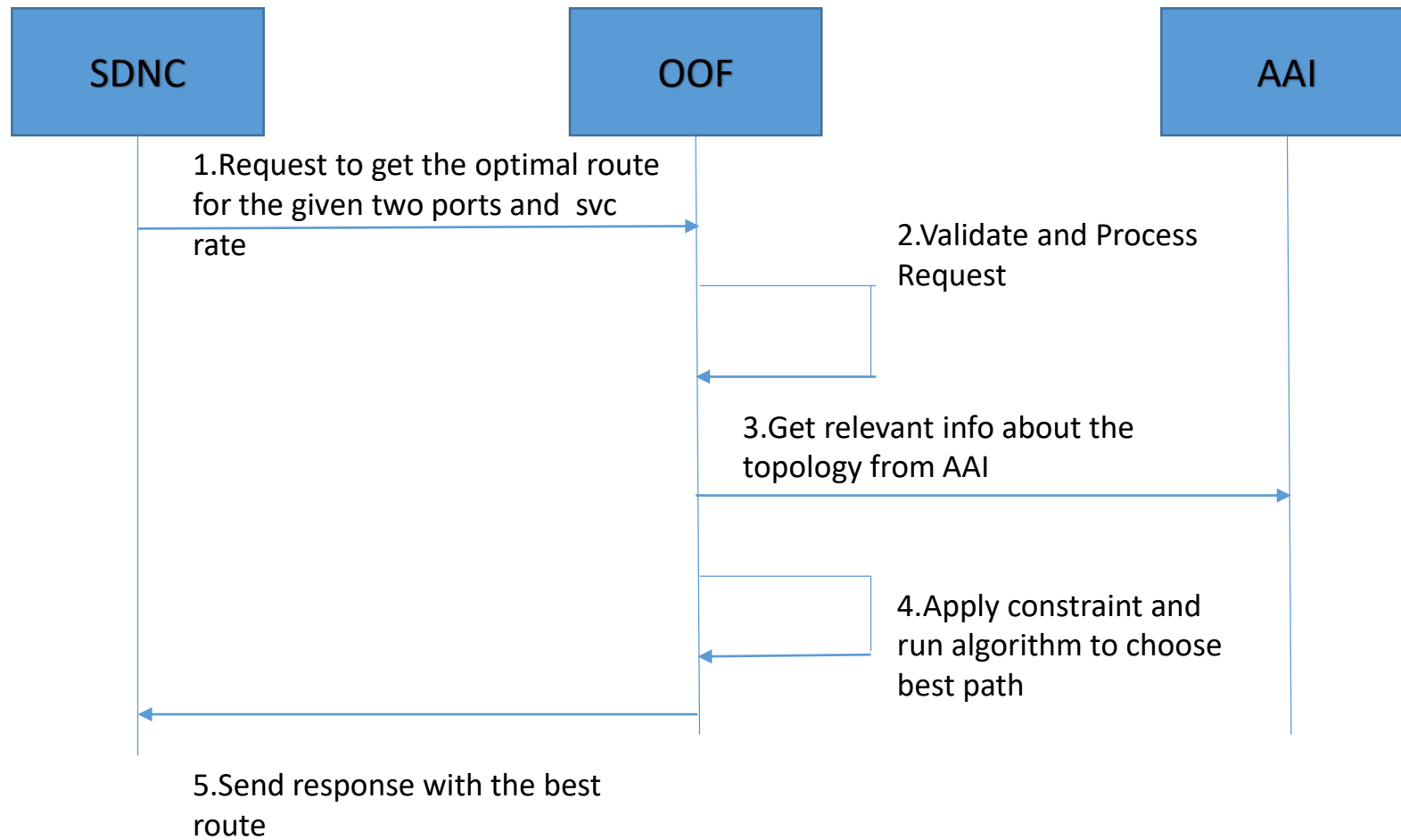


Inter Domain Link Path Selection



End Point - id x
IDL - Rate y

Flow Diagram



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OOF Impact

- A new API will be defined in the `osdfapp.py` class in `optf-osdf` repository for the MDONS route selection.
- Under the Route Optimizer section a new class has to be added to handle the MDONS route selection.
- The standard minizinc template which gives the shortest path in a graph data structure will be used for MDONS, same as the CCVPN use case.
- [OPTFRA-753](#)

API Input/Output

API: POST /api/oof/mdons/route/v1

BODY:

```
{
  "requestInfo":{
    "transactionId":"xxx-xxx-xxxx",
    "requestId":"yyy-yyy-yyyy",
    "callbackUrl":"",
    "sourceId":"SDNC",
    "requestType":"create",
    "numSolutions":1,
    "optimizers":[
      "route"
    ],
    "timeout":600
  },
  "routeInfo":{
    "routeRequest":{
      "srcDetails":{
        "interfaceId":"interface-id-1",
        "nodeId":"node-1",
        "controllerId":"Virtuora-TAPI1"
      },
      "dstDetails":{
        "interfaceId":"interface-id-2",
        "nodeId":"node-2",
        "controllerId":"Virtuora-TAPI2"
      },
      "serviceRate":"ODU2"
    }
  }
}
```

```
{
  "transactionId":"123456",
  "requestId":"789101",
  "requestStatus":"completed",
  "statusMessage":"success",
  "solutions":{
    "startTime":"2016-10-01T00:30+01:00",
    "finishTime":"2016-10-01T00:40+01.00",
    "routeInfo":[
      {
        "serviceRoute":[
          {
            "srcInterfaceId":"id20",
            "dstInterfaceId":"id8"
          },
          {
            "srcInterfaceId":"id9",
            "dstInterfaceId":"id10"
          },
          {
            "srcInterfaceId":"id11",
            "dstInterfaceId":"id21"
          }
        ],
        "linkList":[
          "IDL-6",
          "IDL-7"
        ]
      }
    ]
  }
}
```


References

- [MDONS Extension in ONAP Guilin Release](#)
- [MDONS OOF in R7](#)

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MDONS Closed Loop - Cross Domain OTN service IDL failure

