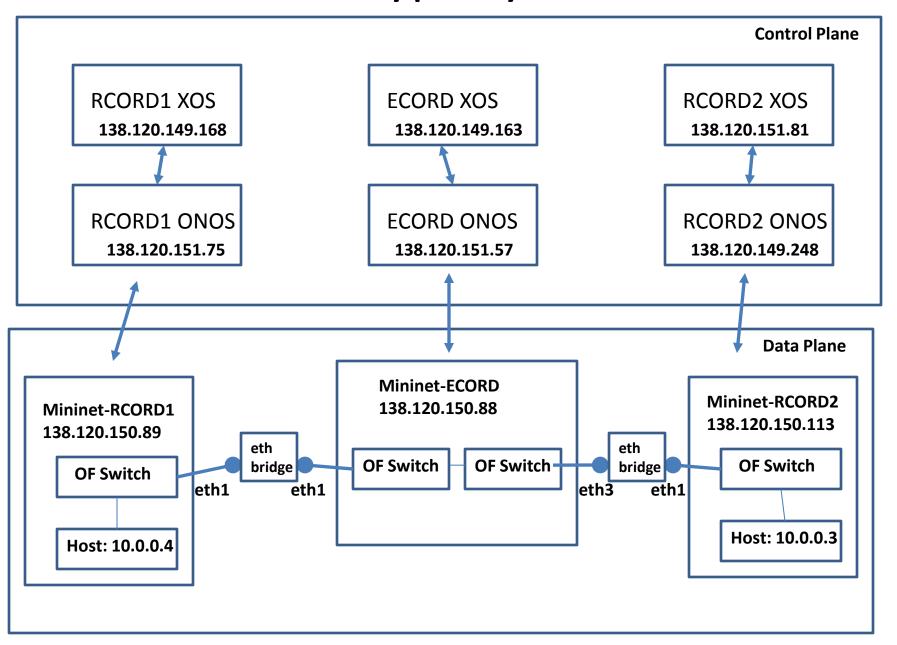
XOS ECORD/RCORD VnoD: Demo of NOKIA components

Michael Best Oct 27/2016

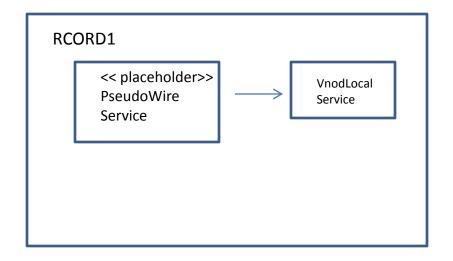
Intro

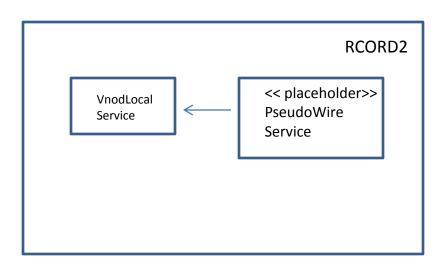
- Goal:
 - To provide a design overview on the NOKIA contribution to ECORD-VnoD Project
- Assumptions:
 - Familiar with ECORD
 - Familiar with VnoD Design
 - Familiar with RCORD

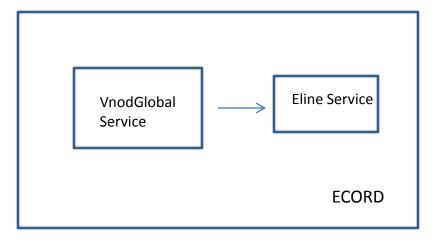
Prototype System



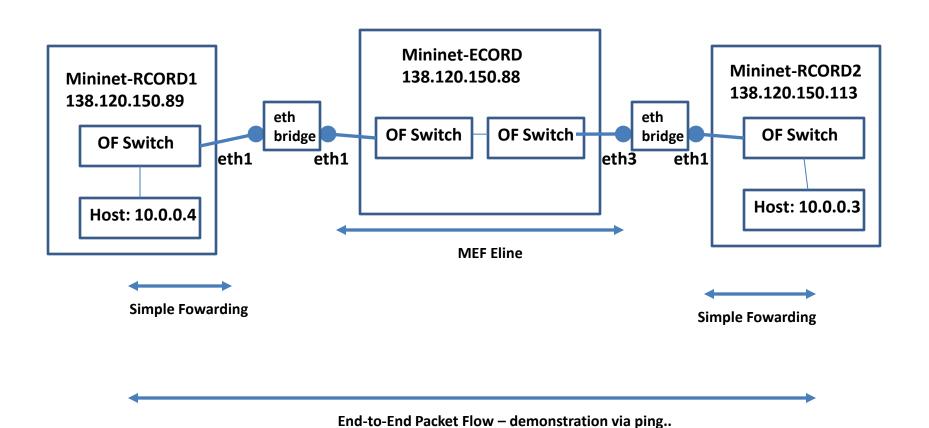
Demo Fast-Forward: XOS View

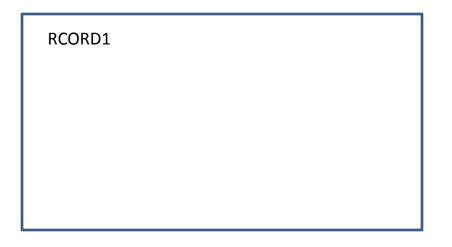


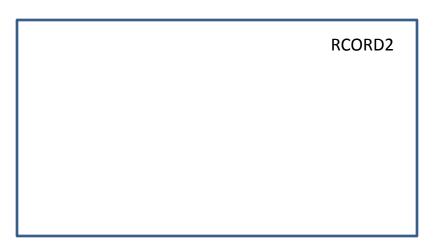


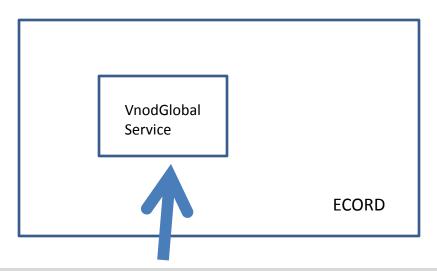


Demo Fast Forward: Data Plane





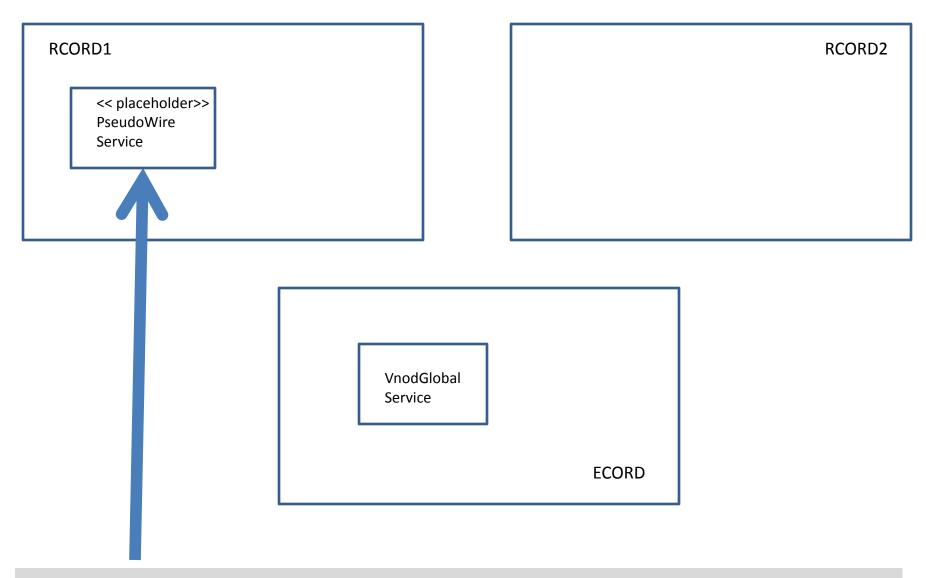




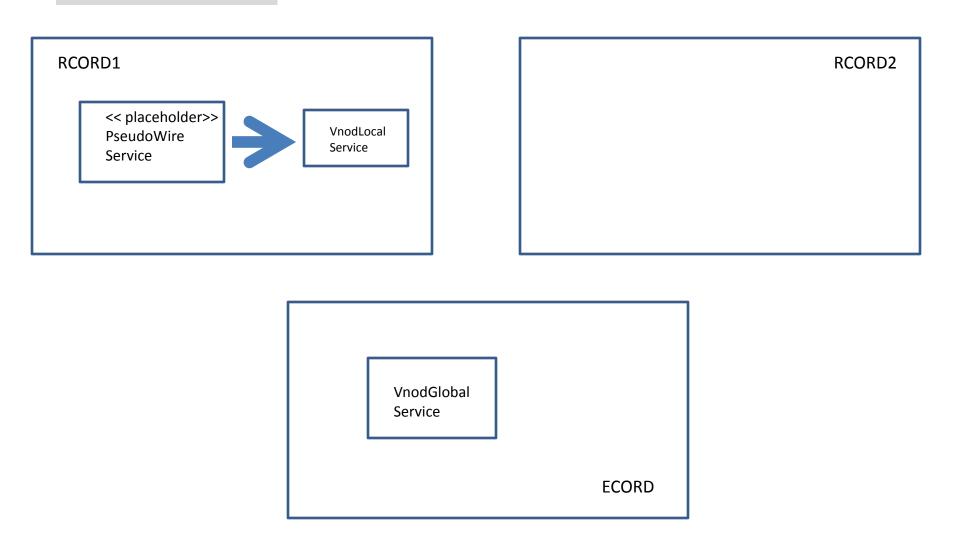
Step 1: In ECORD Create 'VnodGlobalService'

Params: "String: servicehandle", "Enum: Eline, Etree, Elan",

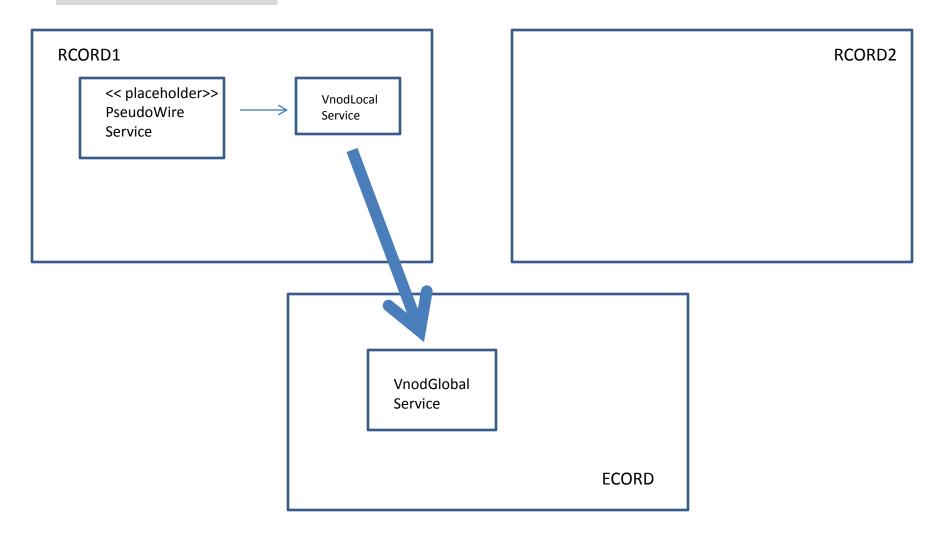
Array[Intended RCORD Sites].



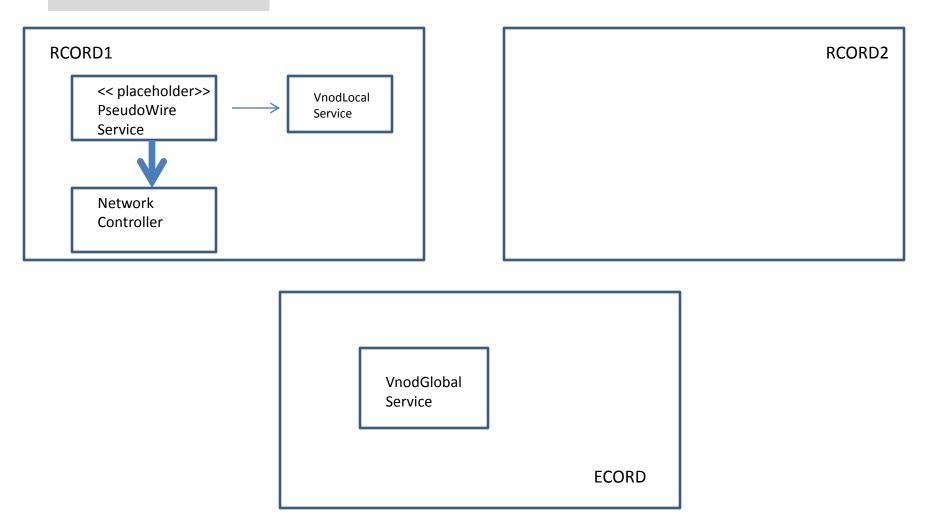
Step 2: In RCORD1, using 'serviceHandle' from ECORD and a local 'sourcePort' create 'PseudoWire Service' Service and request activation



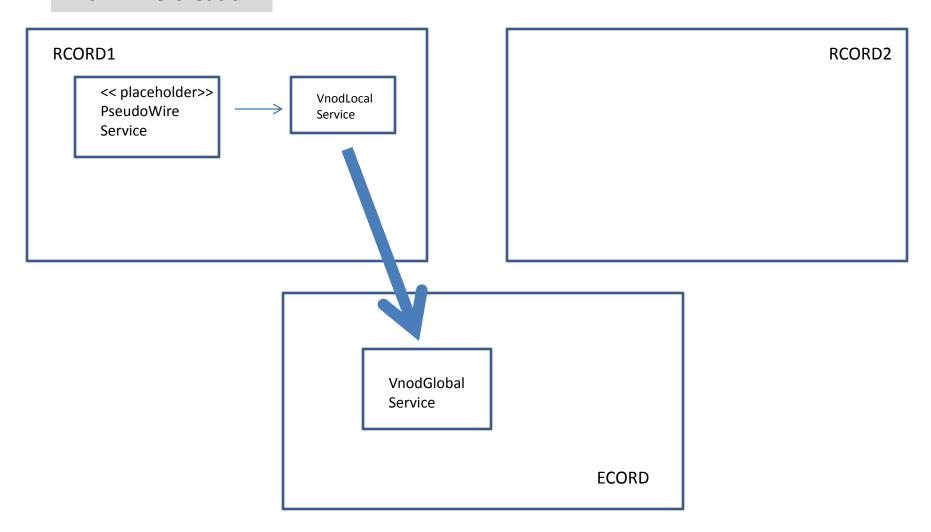
Step 3: In RCORD1, 'PseudoWire Service' creates a 'VnodLocal Service' providing the 'serviceHandle'



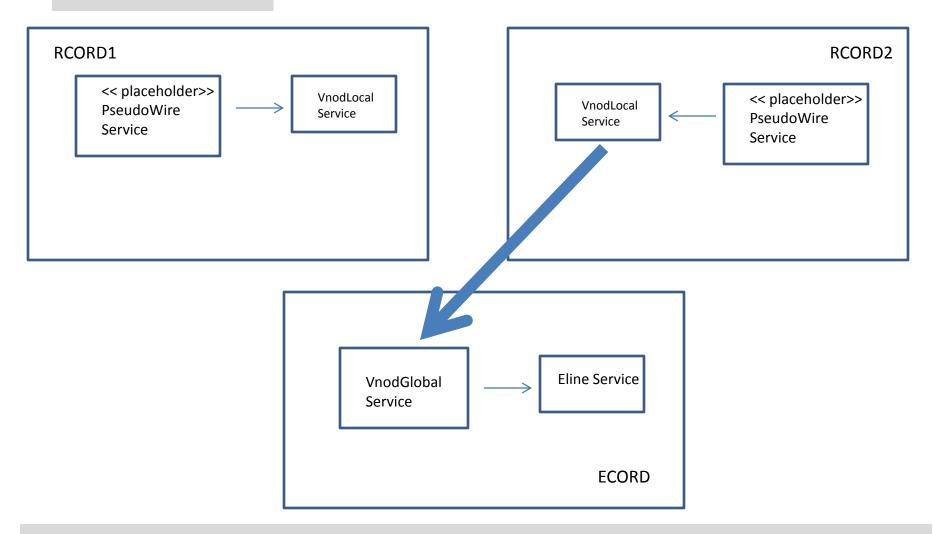
Step 4: In RCORD1, using the ECORD REST API with the 'serviceHandle' parameter the 'VnodLocal Service' retrieves NNI Port and VLAN configuration from ECORD



Step 5: In RCORD1, the 'PseudoWire Service' uses its sourePort and the NNI/Vlan info from the VnodLocal to activate a PseudoWire via the Network Controller



Step 6: In RCORD1, using the ECORD REST API with the 'serviceHandle' parameter, the VnodLocal Service Activation is reported to the VnodGlobal Service object in ECORD. The VnodGlobal Service notes the Spoke state change.



Step 7: In RCORD2, same procedure as Steps 2-5, using the ECORD REST API with the 'serviceHandle' parameter, the VnodLocal Service Activation is reported to the VnodGlobal Service object in ECORD. The VnodGlobal Service notes the Spoke state change. Since both Spokes are Activated an Eline Service is created – bits flow!!

Status

• ECORD:

- VnoDGlobal Service Implemented we will push to Gerrit soon
- Some additional changes to Eline/Etree/Elan services are pending

RCORD:

- VnodLocal Service Implemented integration into RCORD requires coordination with RCORD Design
- PseudoWire Service Implemented this is a placeholder for testing and demonstration, we will need to adjust based on RCORD posture
- We can push these to Gerrit 'as is' if that will help