

Establish/Maintain a Portal and Distributed Relay

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Agenda

- Initialize a Portal
- Monitor the function port
- Monitor the IPL /Portal System

Initialize a Portal

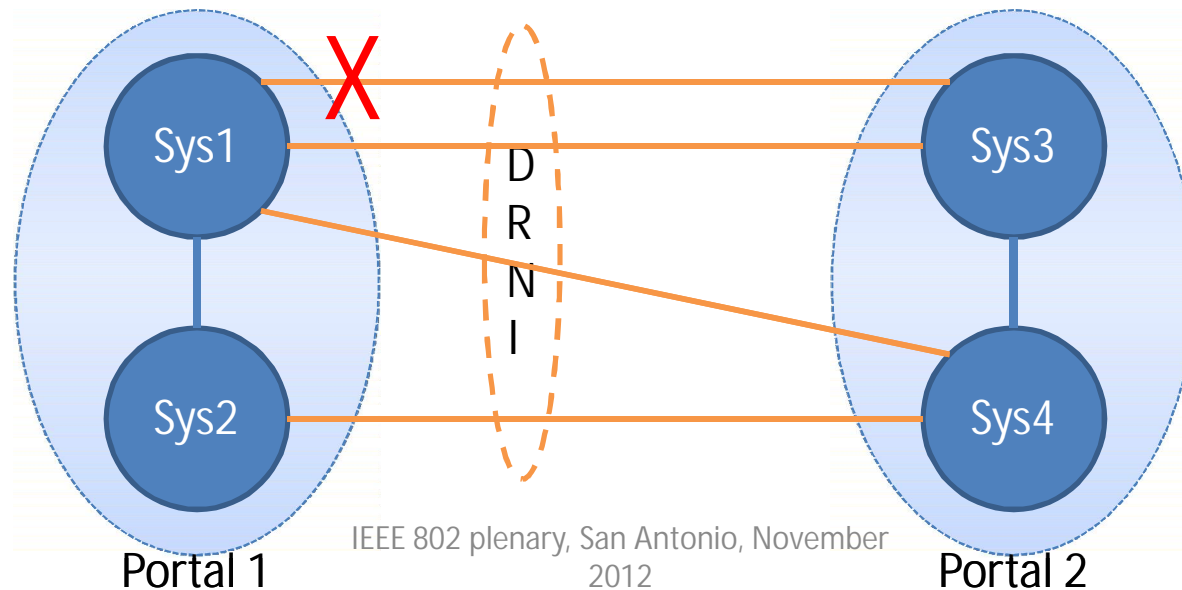
- Each Portal System configure parameters to it's "local" managed objects.(6.4)
- Enable DRCP to start Portal System's DRNI ability notification to each Portal Systems among the Portal
- Portal Systems exchange(Periodic or Event driven) local managed objects if they're required to be "global" to the Emulated System:
 - Portal ID
 - Portal System Number
 - Aggregator Ports assigned to this Portal
 - Conversation - administrative Gateway list / operational Gateway
 - Conversation - administrative Function Port list / operational Function Port
 - FP algorithm and gateway algorithm
 - MEP-IDs
 - Link Cost

Initialize a Portal

- Concerns:
 - Define DRCP structure, define a DRCP_subtype following the Slow_Protocols_Type?
 - Define TLVs for all needed information exchange
 - The logic of transmitting and receiving DRCPDU
 - DRCP state machines and LACP state machines may trigger each other
 - Each operational managed objects synchronize by Events driving
 - LAG entity ready
 - Aggregator port failure/recovery
 - Portal System failure/recovery

Monitor the Aggregation Port

- If one of the Aggregator Port of one DRNI become unavailable, the Portal System need to:
 - Detach the link from the aggregator
 - Switch all the affected conversations to their “next highest priority Aggregator Ports (backup Aggregator Port) ”
 - Trigger the modification of relative operational parameters

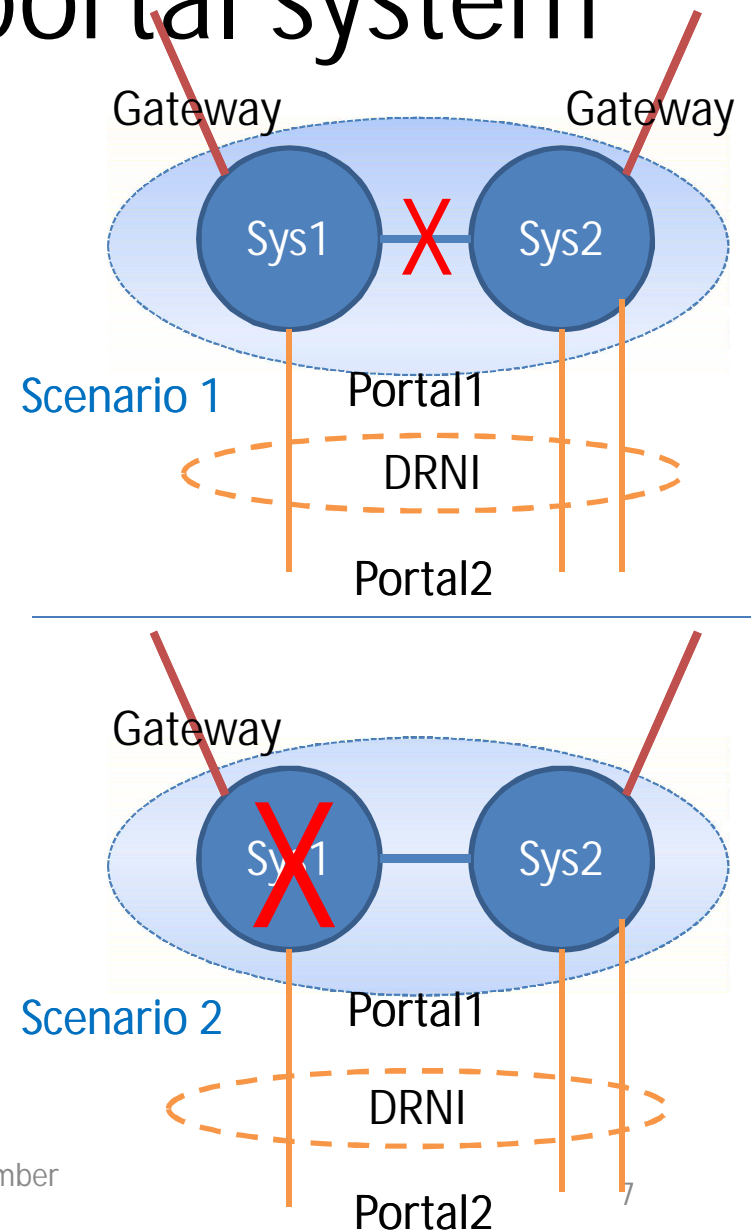


Monitor the Aggregation Port

- Concerns:
 - Different conversations may switch to different backup Aggregator Ports
 - Different backup Aggregator Ports may locate on different Portal Systems.
 - How to minimize the interaction between Portal Systems? Consider efficient DRCP TLV design.
 - If the failure Aggregator Port recovers, should conversations be switched back?
 - Need to define DRCPDU TLV structures for the interaction

Monitor the IPL and portal system

- Scenario 1 and Scenario 2 may be the same to maintain a Portal if you reference < axbq-nfinn-graceful-name-change-0511-v1.pdf >
- Portal System parameters will Change
- Conversation gateway switch to second Prior Portal System
- Switch conversation to available backup Aggregator Port
- Detach links of the unavailable portal system from the LAG



Proposals

- Complete the draft about the circumstances and scenarios to make it clear to the implementer.

Thank you!