###### Synchronous Ethernet

***Objective:***

Objective is to configure Synchronous Ethernet as the synchronization method on various SAOS 10.x platforms.

***Procedure:***

* SyncE is available using the basic SAOS 10.x licenses but it is still recommended to install the “SAOS SYNCHRONIZATION SOFTWARE LICENSE” if synchronization is going to be provisioned on the system.
* Go to CLI:
  + Enter “config”.
* Select an option (option 1 or option 2; default none)

sync global network-option option-2

* Select a reversion mode (Revertive or non-Revertive)

sync global reversion-mode revertive

* Configure a wait to restore time (0 to 5 minutes; default 5 min.) In this example, WTR is 0.

sync global wait-to-restore 0

* Configure a frequency protection group and assign a minimum quality level threshold

sync input-references synce-input-reference synce-p1

* Configure a syncE input reference and add to the Protection Group, set the Input reference QL (Rx QL or Forced QL), and set the input reference priority

sync input-references synce-input-reference synce-p1 (synce-input-reference)# interface 1

* You should see something like this on CLI

5170-010> show sync synce input-references

+ SYNC SYNCE INPUT REFERENCES +

| Name | Interface | Pri | Override Pri | Forced QL | Oper State | Oper Rx QL | Oper Rx SSM |

+ + + + + + + + +

| synce-p1 | 1 | - | - | - | Up | QL-ST2 | 7 |

+ + + + + + + + +

* Configue syncE output references as required

sync output-references synce-output-reference synce-out-p2 (synce-output-reference)# interface 2

(synce-output-reference)# exit

* You should see something like this on CLI

5170-010> show sync synce output-references

+--------------- SYNC SYNCE OUTPUT REFERENCES +

| Name | Interface | Oper State | Tx QL | Tx SSM |

+ + + + + +

| synce-out-p2 | 2 | UP | QL-ST3E | 13 |

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Test Case Results:

Passed: Yes No Verified by Date/Time Comments