

Differences in E2 between OSC and WG3 plan of record

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- Reuse of X2 IEs
 - X2 provides Configuration Update providing details of served cells and neighbors
 - Load Indication
 - Resource Status Reporting
 - Setup
 - Error Indication
- Setup direction
 - OSC E2 connection is initiated by RIC
 - WG3 plan of record is to initiate from E2 Node
- Providing an X2 termination
 - OSC E2 includes a RIC Pseudo Cell Definition.
 - This is the additional set of information needed in order to enable a RIC to appear as a valid eNB to other E2 Nodes.

Differences between OSC version and WG3 version

- Co-Create / OSC project E2 interface makes significant reuse of X2 specification
 - Much of the data needed to support RIC Use Cases is available over X2
 - RIC terminates an X2 interface and appears as an “eNB” to eNBs / gNBs connecting to it
 - This enables the RIC to acquire data from connected eNBs without those eNBs providing any E2 support or even being aware of a “RIC” entity
 - RIC needs to support a set of Information Elements to enable it to appear as an eNB
 - ANR will not report it as a neighbor so it will not appear in a neighbor list despite having an X2 connection.
- In the OSC E2 specification, the X2 interface connection is setup by the RIC. (This is necessary since the E2 Node (RAN) has no previous knowledge of the RIC)
- O-RAN WG3 does not reuse X2
- O-RAN WG3 E2 is setup by the E2 Node (This is consistent with DU-CU relationship and other 1-to-many interfaces)
- O-RAN WG3 E2 needs a RAN based Service model to provide the set of data that the OSC version acquires as part of the X2 dataset.

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