Location Information for DER:
EDC requirement to provide Load Bus ID

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DISRS
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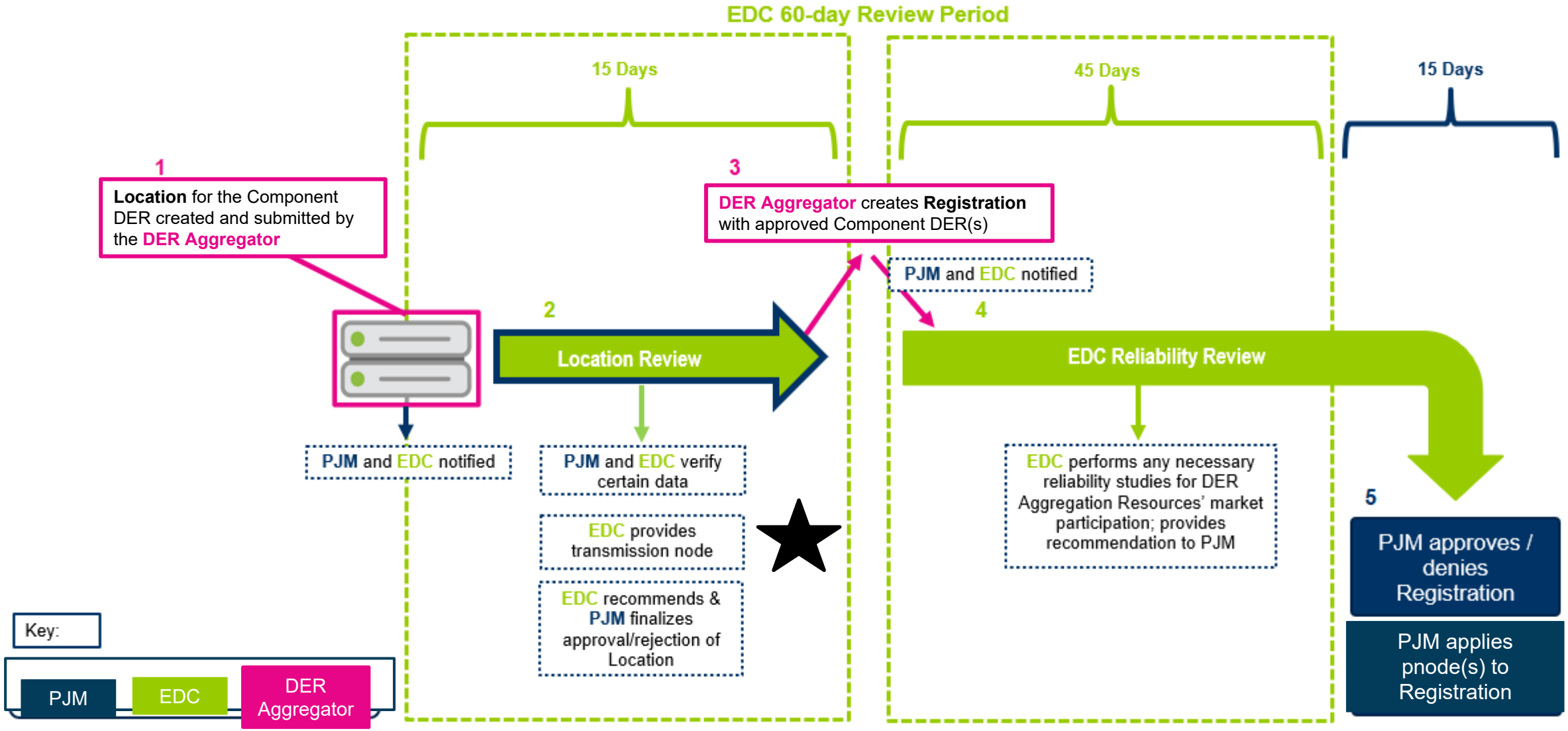
Locational Requirements

- What do locational requirements define for DER Aggregation Resources?
  - Locational requirements define which Component DER can be aggregated into a market resource (DERA) based on their location on the distribution system.
    - Location requirements will define how DERAs are modeled and dispatched for Energy & Ancillary Services.
    - These locational requirements will *not* define Capacity Market participation, Ancillary Service performance evaluations, or Ancillary Service Only aggregations.

- **Each Component DER in an aggregation must share the same primary electrical location**
- **The primary electrical location is the PSS/E Load Bus ID**
- **The EDC must supply the PSS/E Load Bus ID(s) for each Component DER**

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Location Information Within 15 Day Window



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Registration – Managing Nodal Aggregations

Component DER	Size (MW)	Locational Factor (PSSE Bus ID(S) and weights)	Primary tranx. location	Aggregation Definition	Capability Factor	Modeling Impact Factors
Comp DER1	1	100% Node A	Node A	DERA 1	0.25	Node A - 0.25
Comp DER2	1	100% Node A	Node A	DERA 1	0.25	Node A - 0.25
Comp DER3	1	80% Node A, 20% Node B	Node A	DERA 1	0.25	Node A - 0.20 Node B - 0.05
Comp DER4	1	70% Node A, 30% Node D	Node A	DERA 1	0.25	Node A - 0.175 Node D - 0.075
Comp DER5	1	70% Node B, 30% Node A	Node B	DERA 2	1	Node B - 0.70 Node A - 0.30
Comp DER6	1	100% Node C	Node C	DERA 3	1	Node C - 1.0

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Comp DER3	1	80% Node A 20% Node B	Node A	DERA 1	0.25	Node A - 0.20 Node B - 0.05
Comp DER4	1	70% Node A, 30% Node D	Node A	DERA 1	0.25	Node A - 0.175 Node D - 0.075
Comp DER5	1	70% Node B 30% Node A	Node B	DERA 2	1	Node B - 0.70 Node A - 0.30
Comp DER6	1	100% Node C	Node C	DERA 3	1	Node C - 1.0

DERA 1
0.875 – Node A
0.050 – Node B
0.075 – Node D

DERA 2
0.70 – Node B
0.30 – Node A

DERA 3
1.0 – Node C

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Changes to Component DER Electrical Location

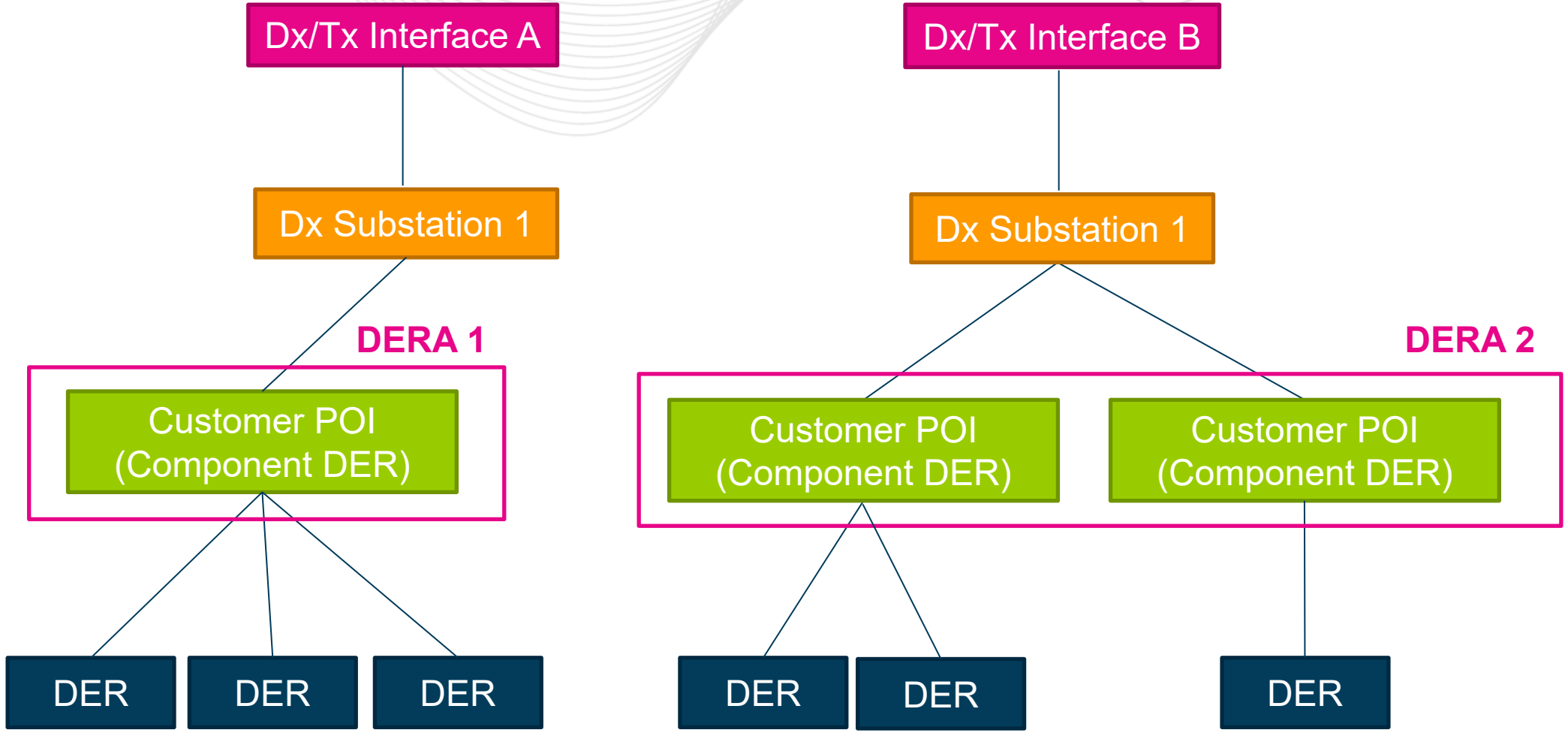
- Locational modeling can be updated but is not intended to be dynamic on an hourly/daily basis
  - Modeling will be done on “normal” distribution configurations
    - Capturing dynamic updates in real-time for distribution system is unattainable
  - This will not impact DERA market participation and small inaccuracies may exist based on distribution switching
  - Long term changes will be addressed with a modeling update
    - PJM will update mapping when provided by the utility
    - No less than a yearly review on locational mapping accuracy

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Locational Requirements

Example 1:

Two DER Aggregation Resources



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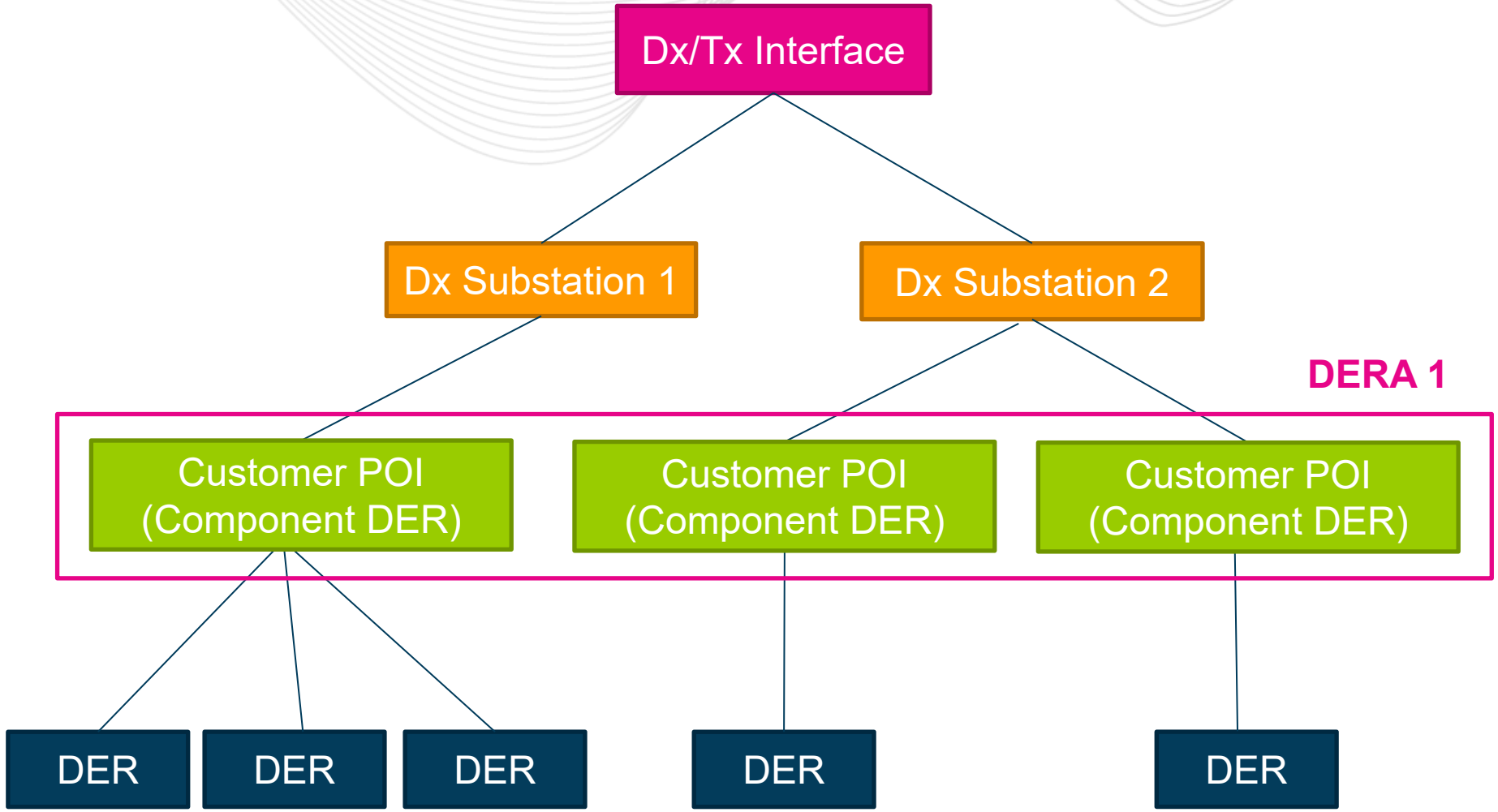
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Locational Requirements

Example 2:

One DER Aggregation Resource

- Single location requirement (primary node) evaluated at the Dx/Tx Interface



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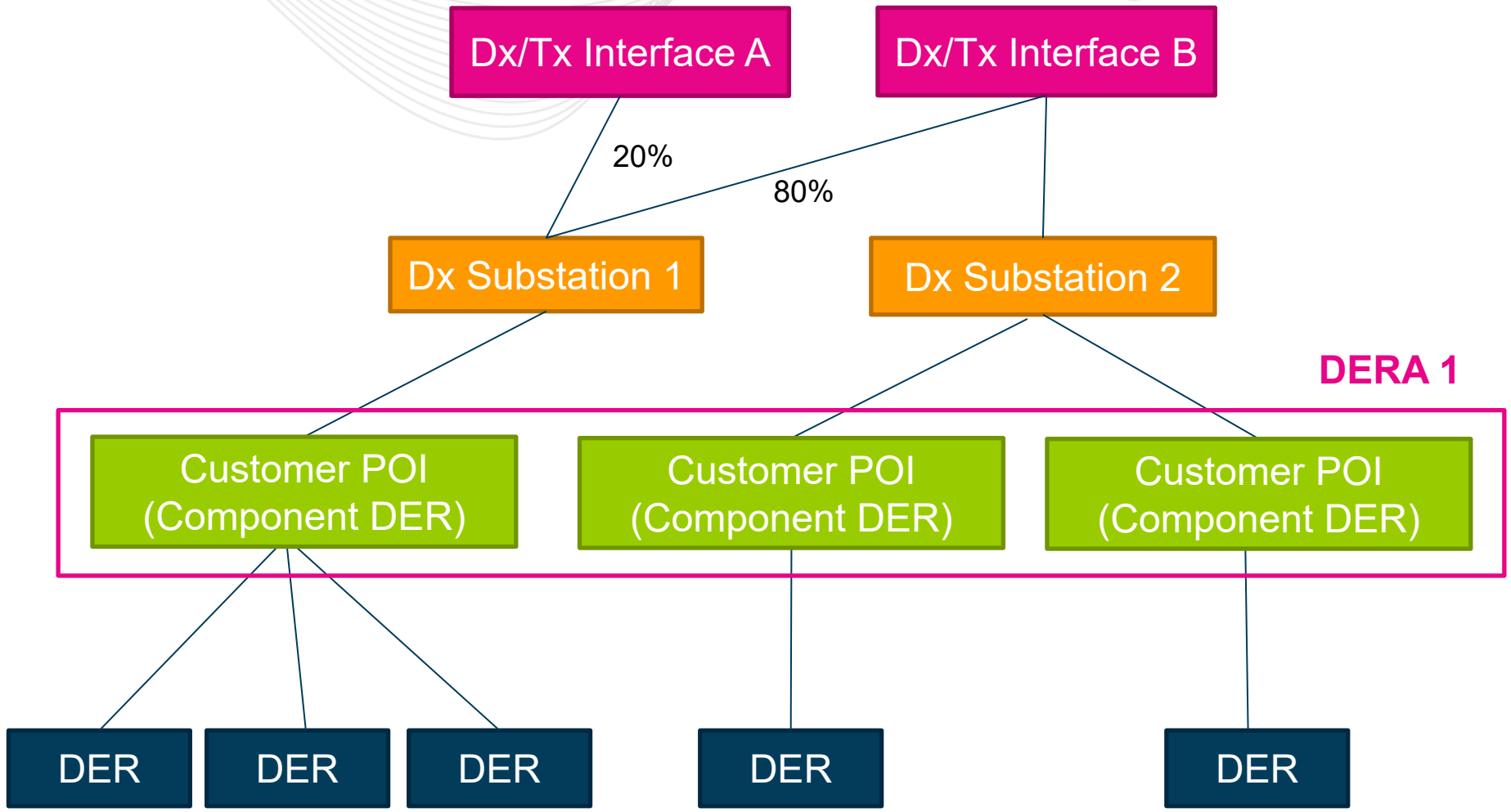
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Locational Requirements

Example 3:

One DER Aggregation Resource

- Single location requirement (primary node) evaluated at the Dx/Tx Interface
- Split Nodal Mapping



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Contact

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Location Information for DER:
EDC requirement to provide Load Bus ID



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