

Framework on Customer Premises Equipment Control in Optical Transport Network

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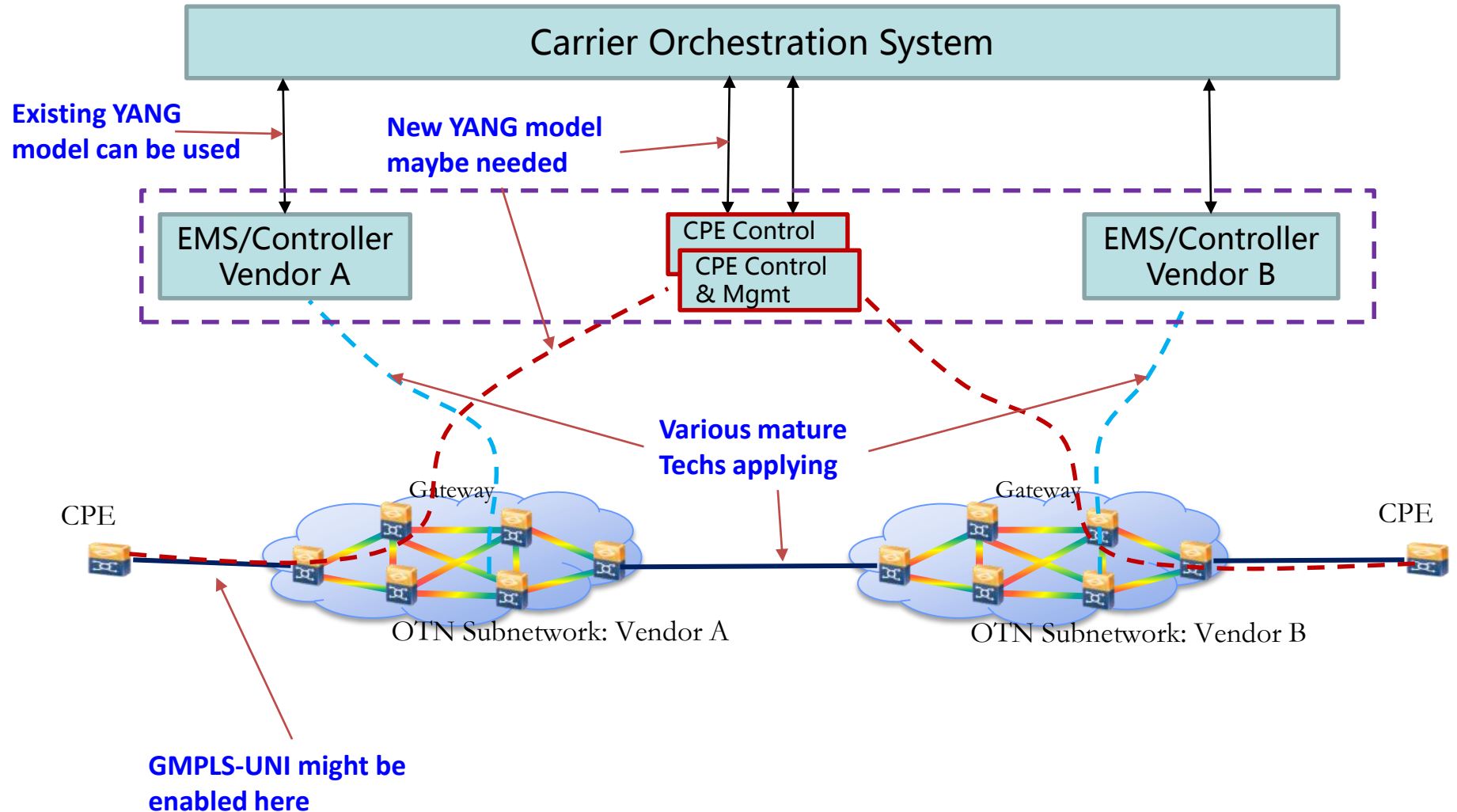
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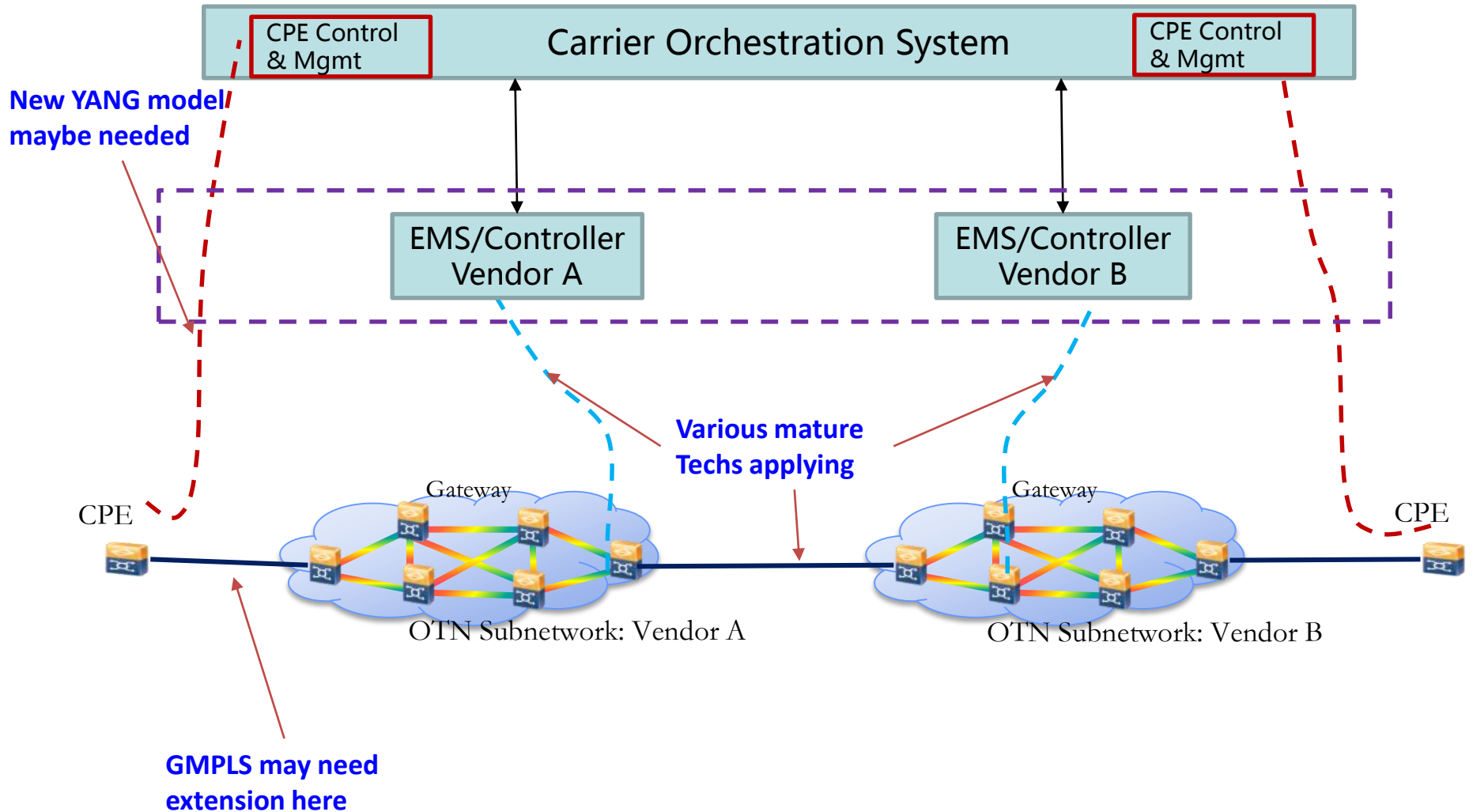
Motivation

- Address the following problem **automatically**:
 - Discover and map CPE to the OTN access;
 - Address the CPE configuration to access OTN;
 - Set up connection between CPE and OTN access;
 - Management of the CPEs;
 - Management of the connections;
- An automatic solution is required;

Reference Architecture



Variant Architecture Example



Summary

- Provide CPE control architecture;
- YANG models required between any control system and the CPE devices;
 - To be augmented for CPE and management features;
 - To be simplified for efficiency;
- GMPLS-UNI protocols required to connect CPE to OTN networks;
 - To be extended for CPE-specific features;
 - To be simplified for efficiency;

Next Step

- Common Interest;
- Figure out the scope for detailed work;
- Produce solution documents;

Thank you!