

802.1Qbc Provider Bridging – Remote Customer Service Interface

IEEE 802.1 Interim

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Volterra, Italy

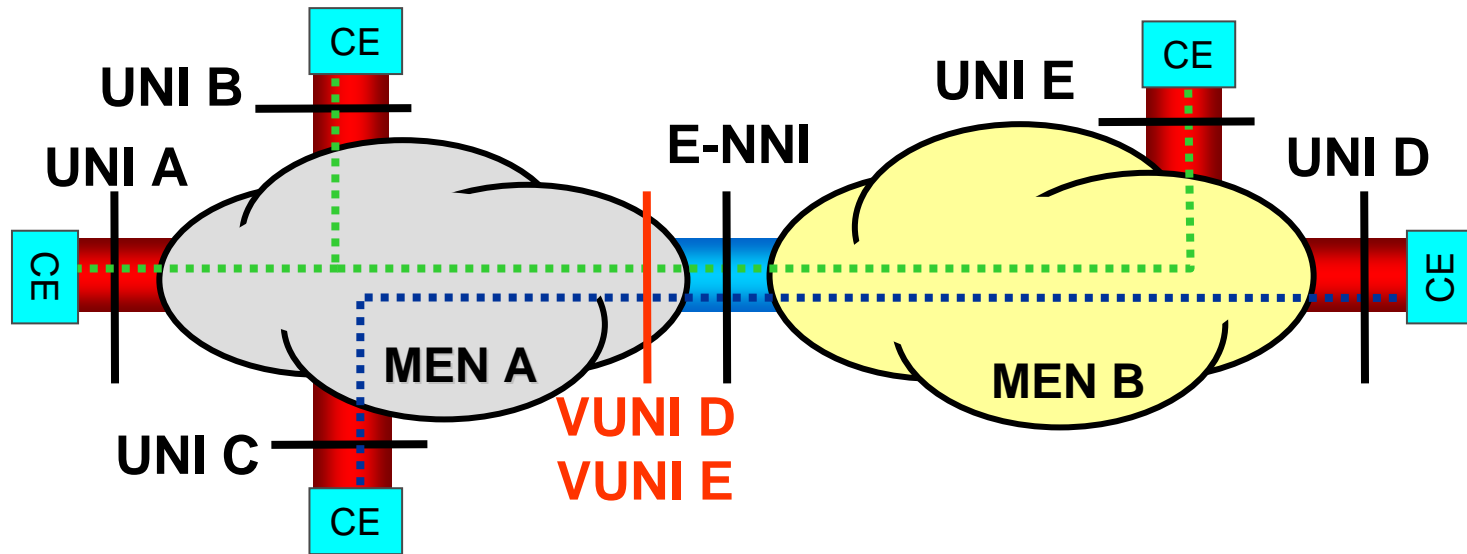
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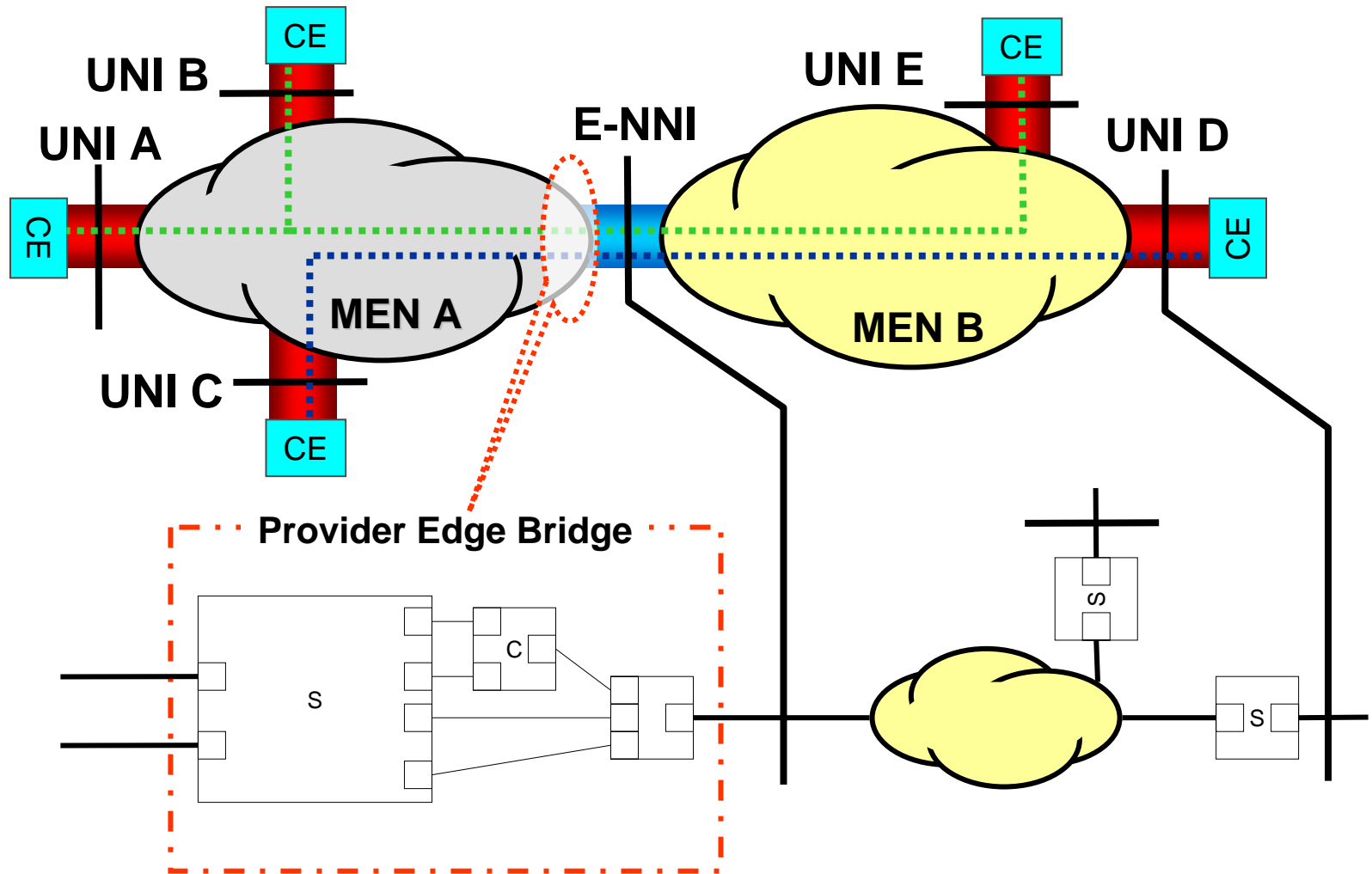
RCSI Solution Details Discussion

- RCSI S-Component
- Bridge protocol relationships
- OAM relationships

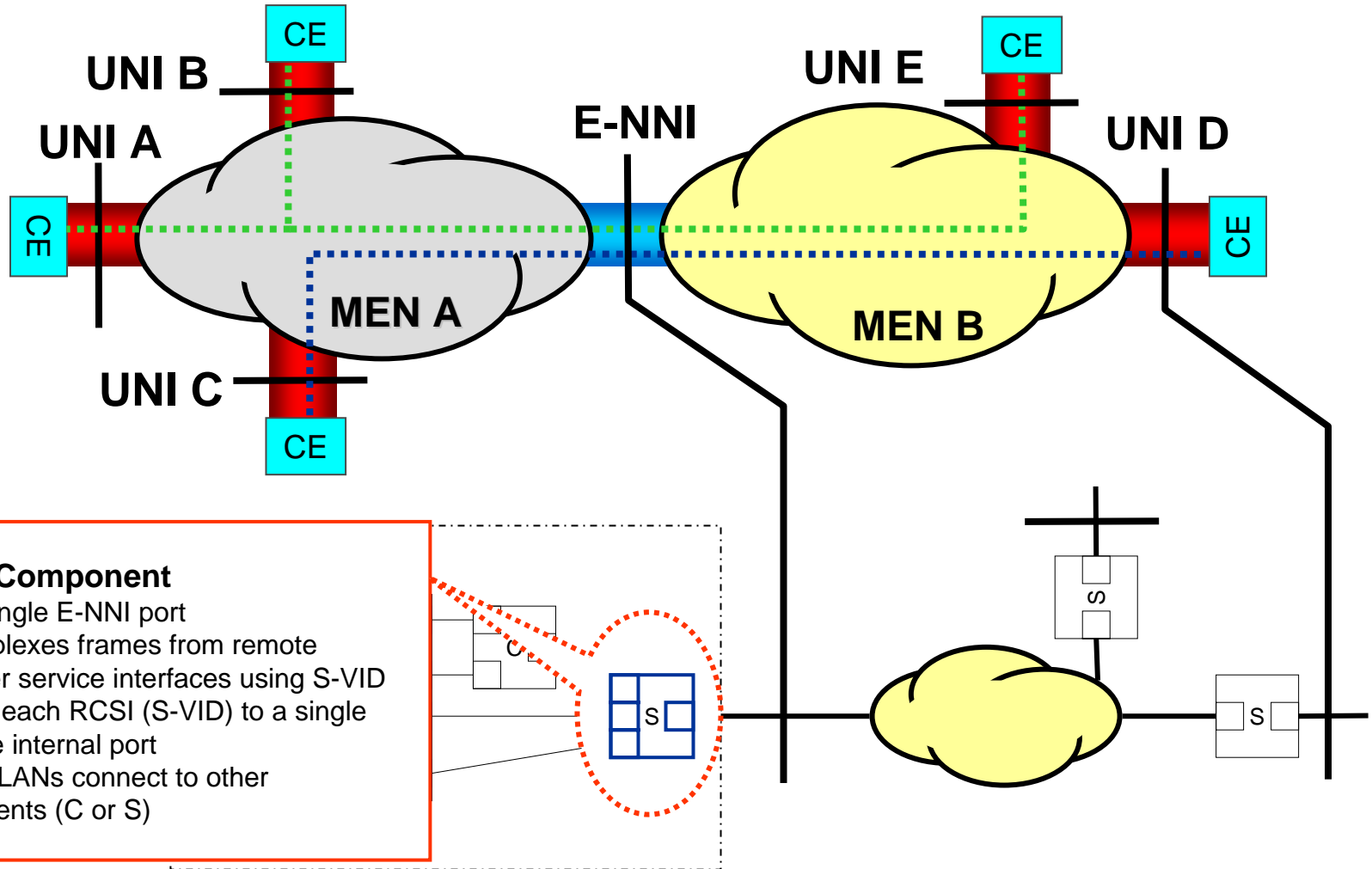
RCSI



RCSI PEB



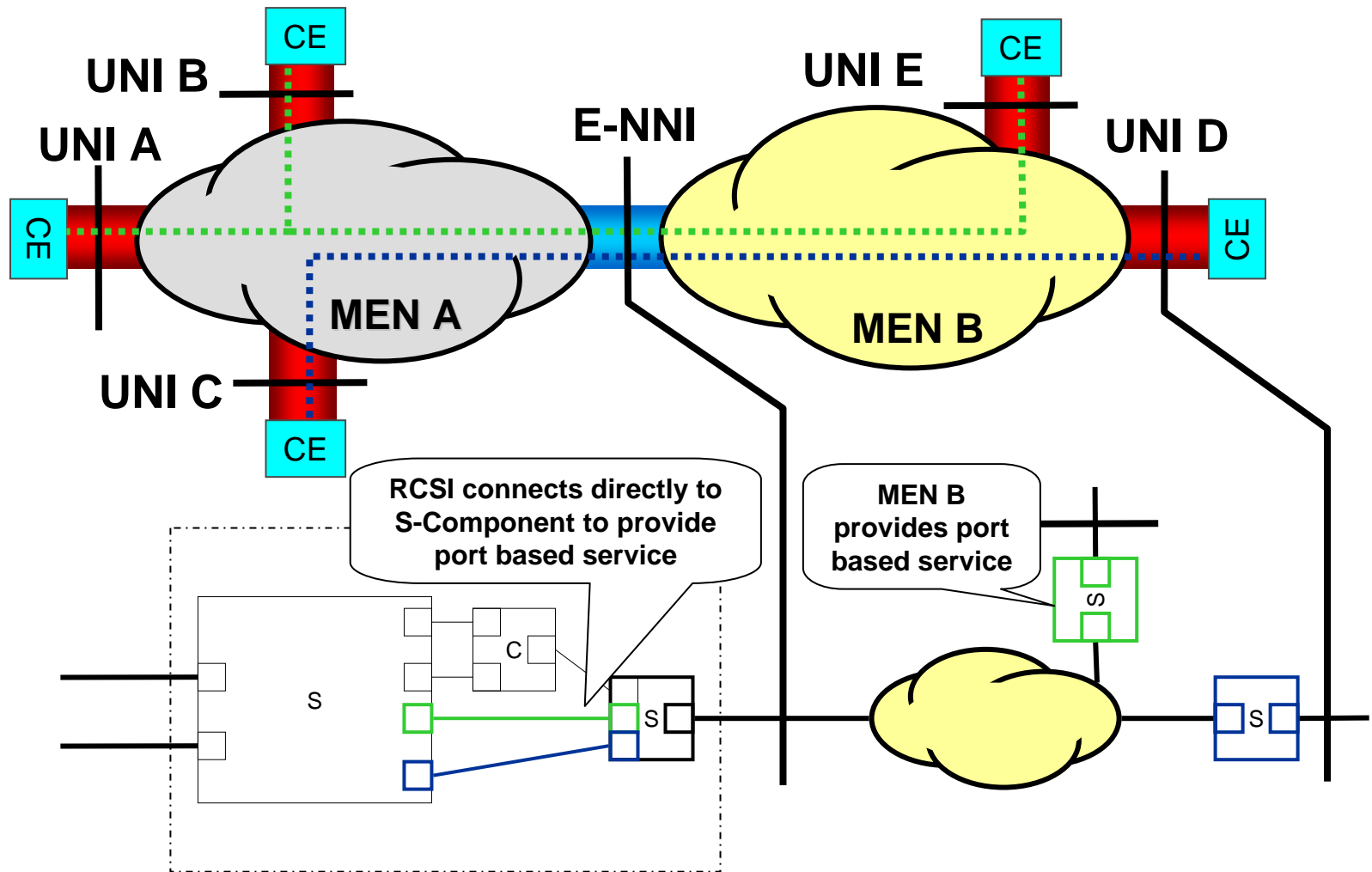
RCSI S-Component



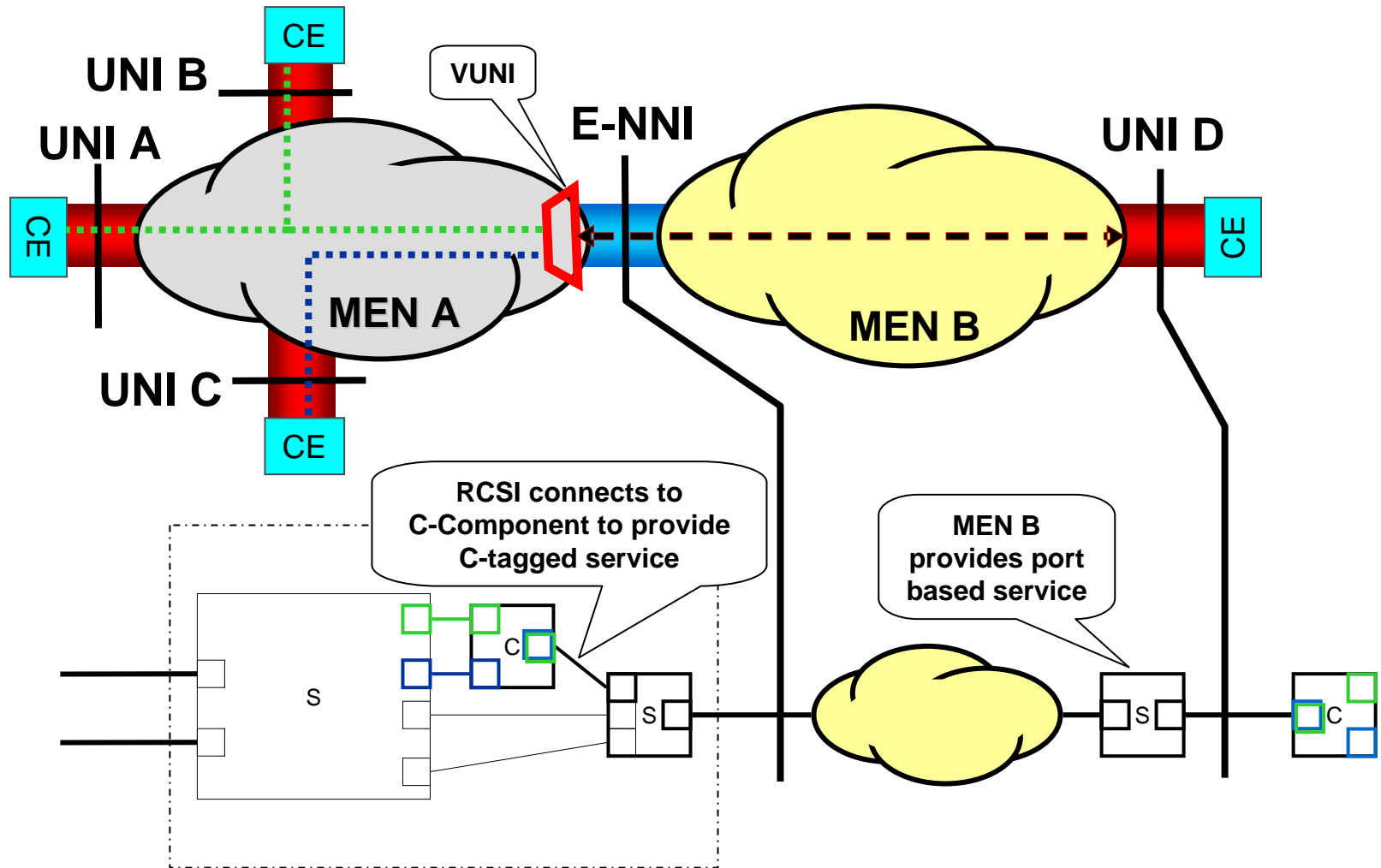
RCSI S-Component

- Has a single E-NNI port
- Demultiplexes frames from remote customer service interfaces using S-VID
- Assigns each RCSI (S-VID) to a single separate internal port
- Internal LANs connect to other components (C or S)

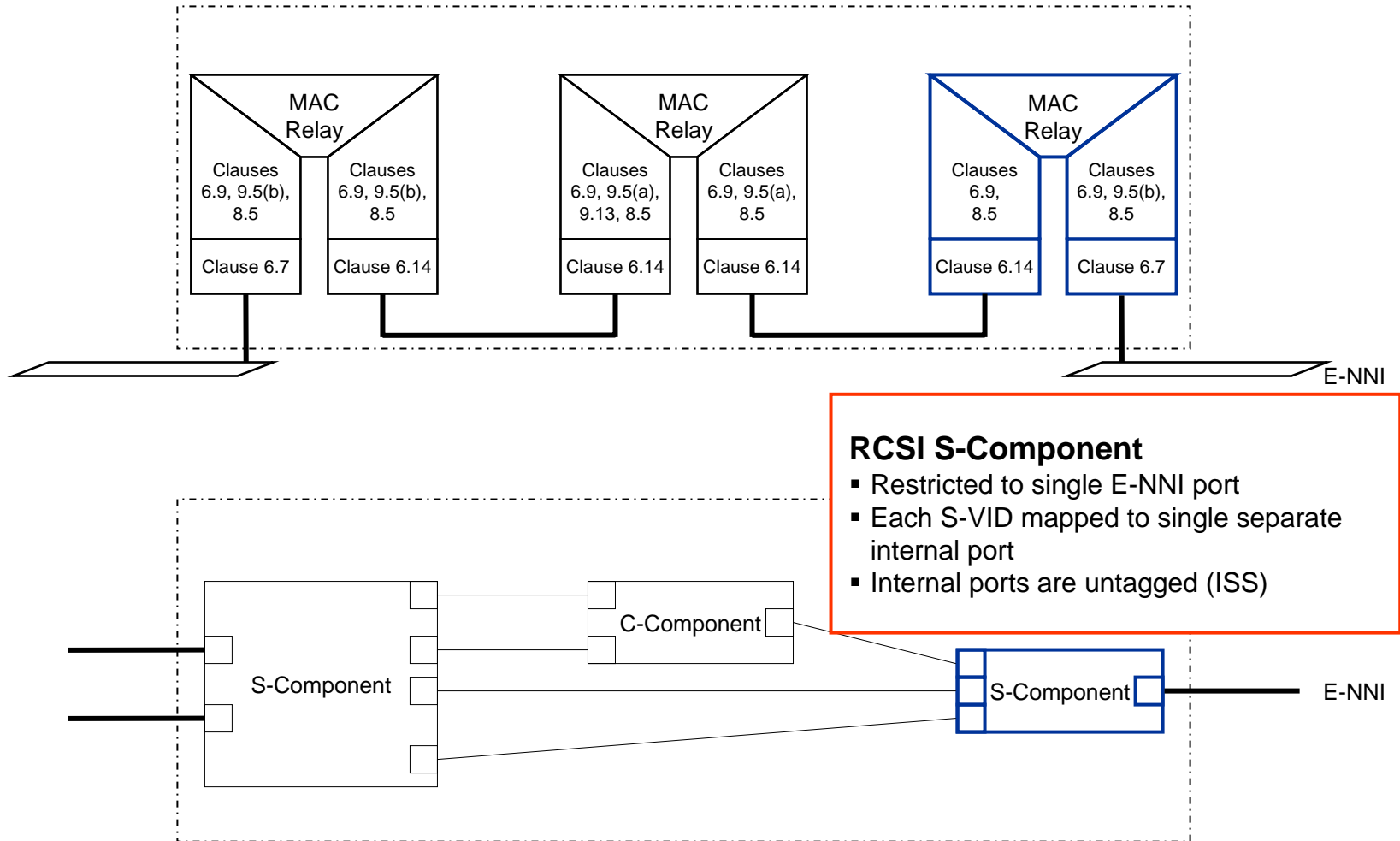
RCSI for Port Based Service



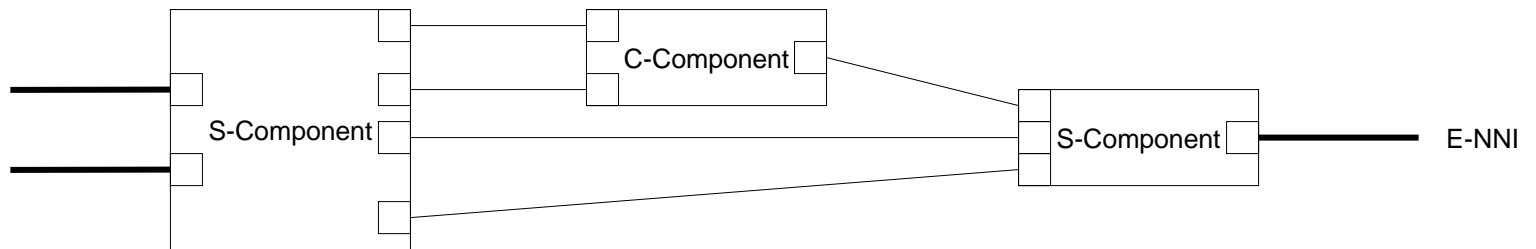
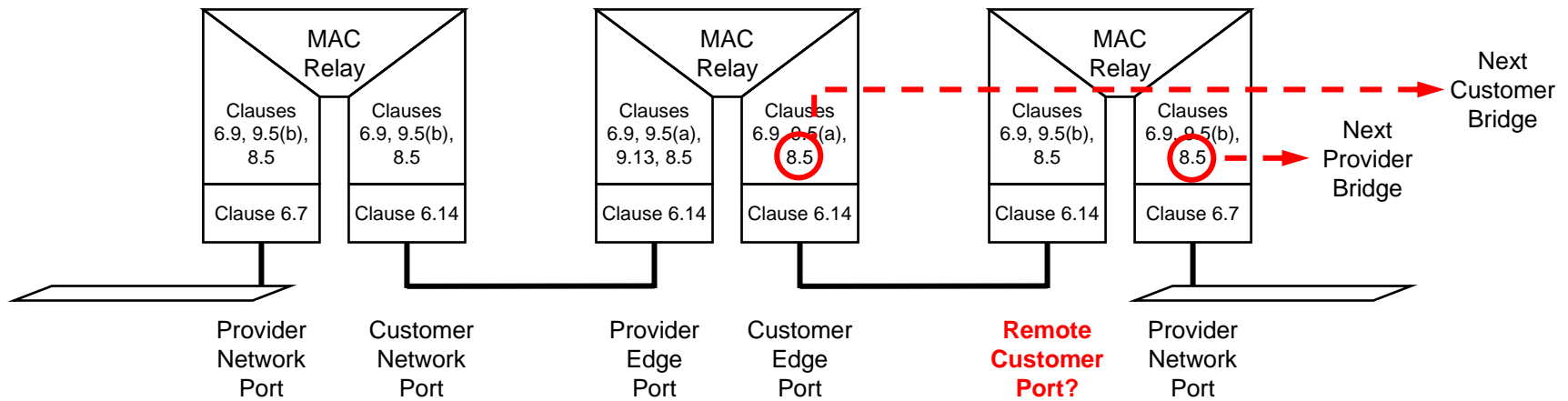
RCSI for C-Tagged Service



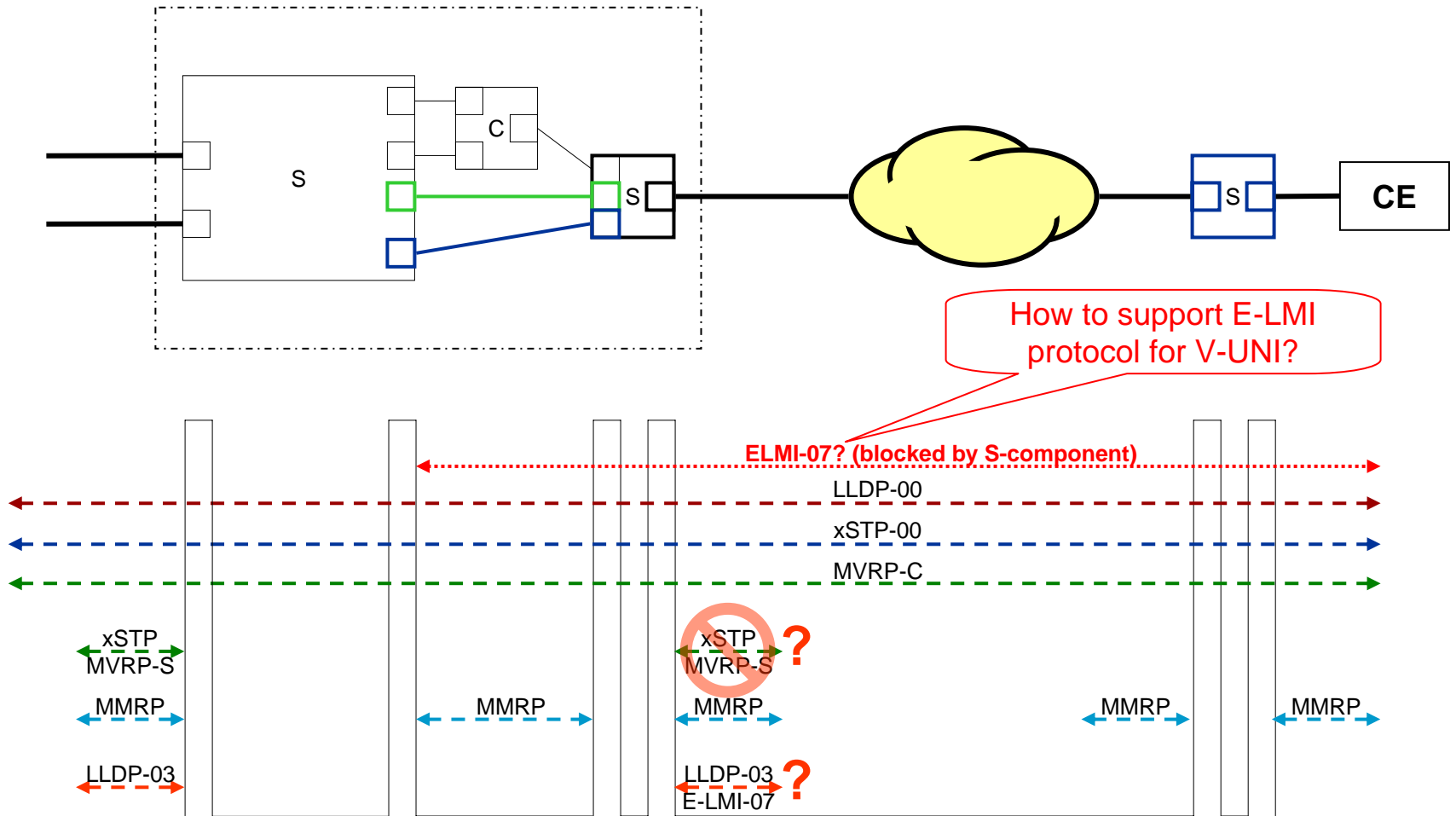
RCSI S-Component



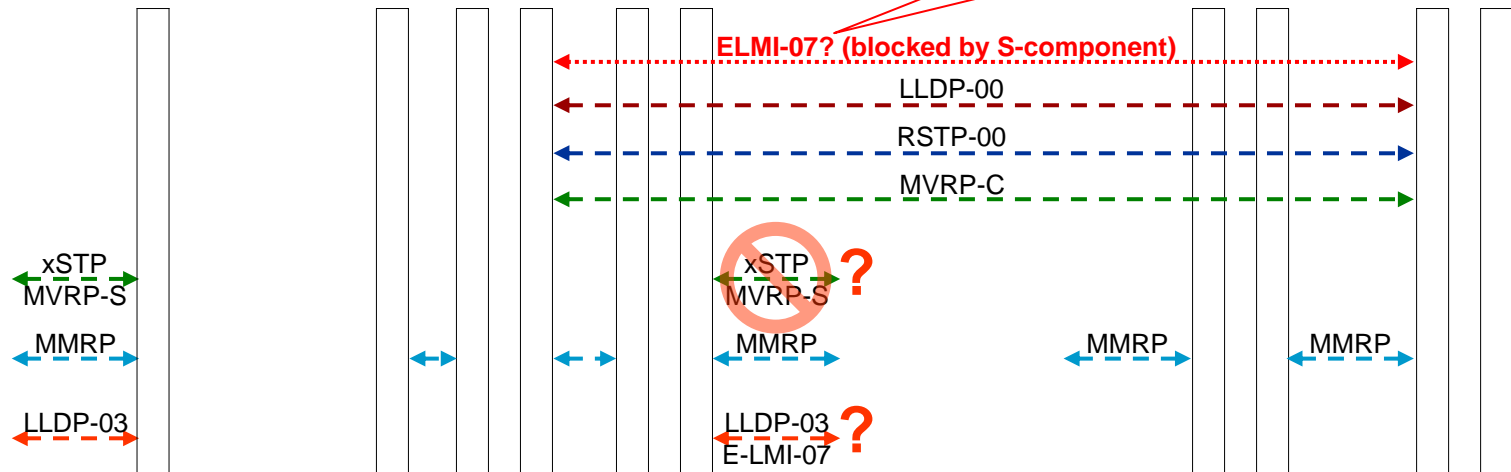
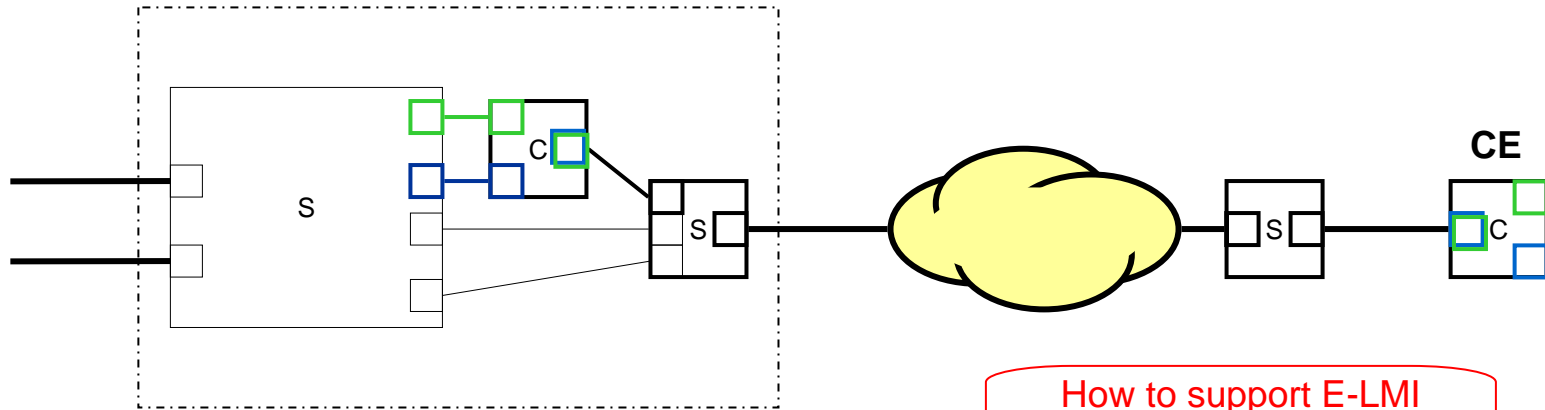
RCSI Protocol Relationships



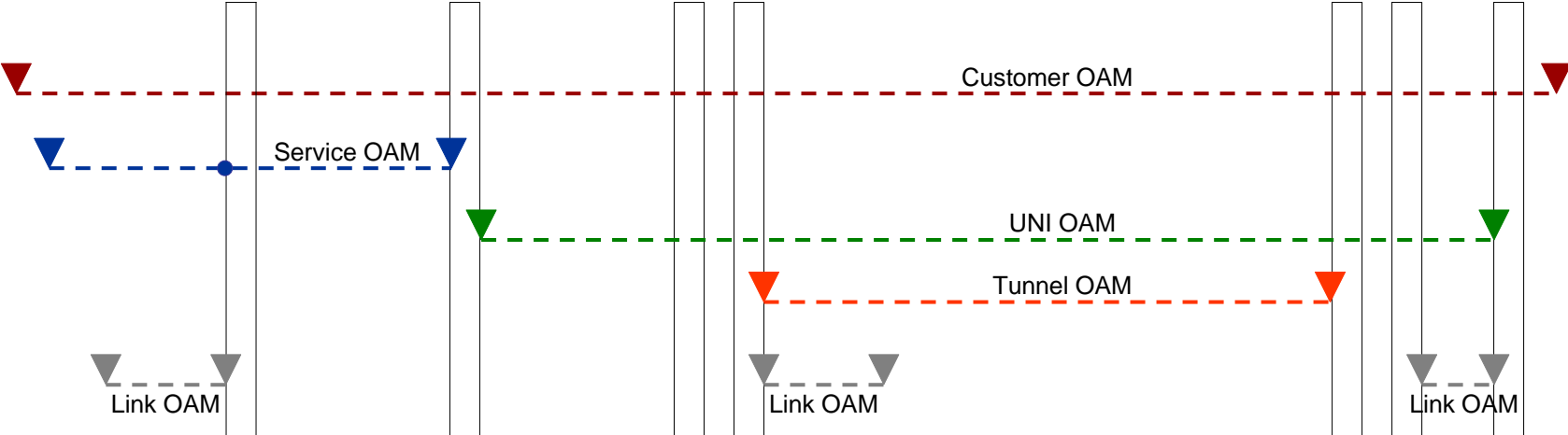
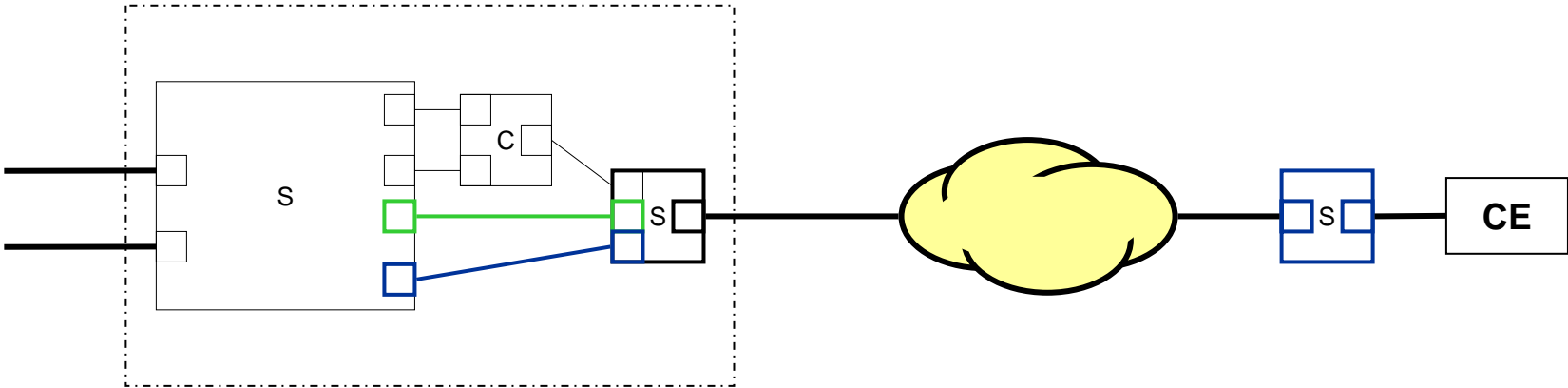
Port Based Service Protocols



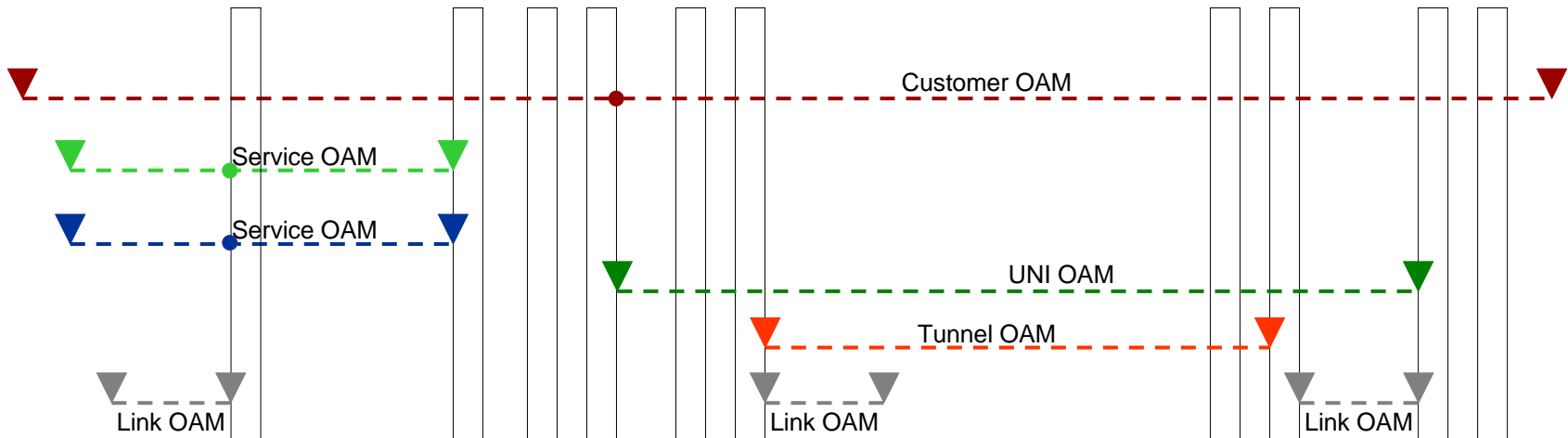
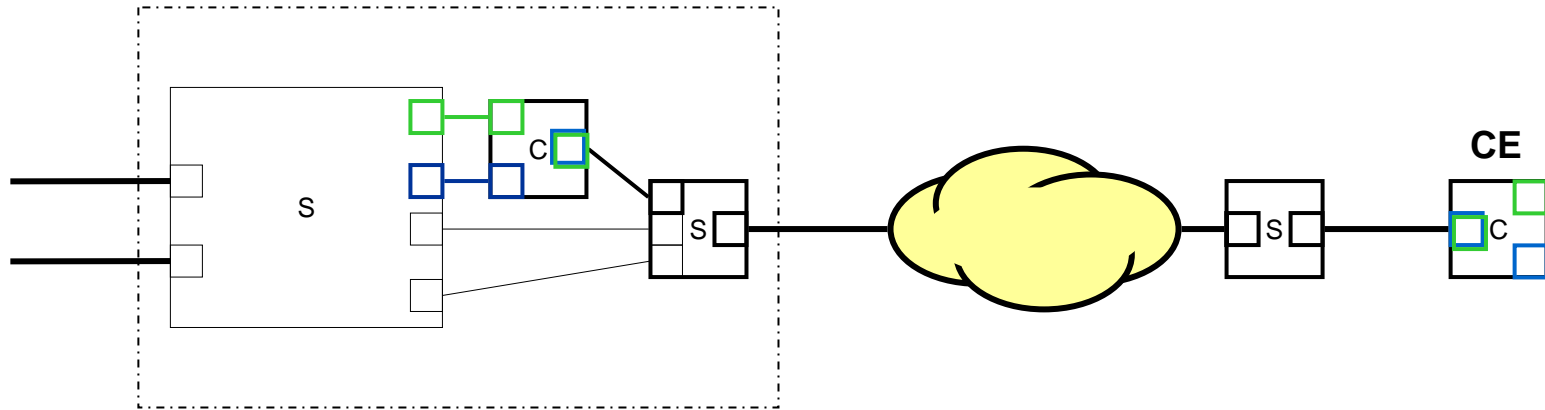
C-Tagged Service Protocols



OAM for Port Based Service



OAM for C-Tagged Service



RCSI Additional Requirements?

- Report service status to Customer via E-LMI
 - Including UNI interface (tunnel) status
- Require tunnel service status report from access operator (via E-LMI?)
- Management channel to Service Provider controlled NID