802.1Qbc Provider Bridging – Remote Customer Service Interface
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RCSI Solution Details Discussion

- RCSI S-Component
- Bridge protocol relationships
- OAM relationships
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 connects directly to S-Component to provide port based service

MEN B provides port based service
RCSI for C-Tagged Service

RCSI connects to C-Component to provide C-tagged service

MEN B provides port based service
RCSI S-Component

- Restricted to single E-NNI port
- Each S-VID mapped to single separate internal port
- Internal ports are untagged (ISS)
RCSI Protocol Relationships

Clauses 6.9, 9.5(b), 8.5
Clause 6.7
Clause 6.14

MAC Relay

Provider Network Port

Customer Network Port

Provider Edge Port

Customer Edge Port

Remote Customer Port?

Next Provider Bridge

Next Customer Bridge

Clause 6.7
Clause 6.14
Clause 6.14
Clause 6.14
Clause 6.14
Clause 6.14
Clause 6.14
Clause 6.14
Clause 6.14
Clause 6.14

Next Provider Bridge

Next Customer Bridge

S-Component

C-Component

E-NNI
Port Based Service Protocols

How to support E-LMI protocol for V-UNI?

ELMI-07? (blocked by S-component)
C-Tagged Service Protocols

How to support E-LMI protocol for V-UNI?
OAM for Port Based Service

[Diagram showing various OAM types for different layers and components.

- Service OAM
- Customer OAM
- UNI OAM
- Tunnel OAM
- Link OAM]
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