ISS Status Parameters
Version 2

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OperState variable

Service has operational state of up or down

Determined by local operational state variables

Local state (e.g. state machines)

Read-only by management

Management

Port Stack

OperState
AdminState variable

Service configured to be down or permitted to be up via administrative state

Directly or indirectly affects the operational state

See next slide

Read-write by management
What can change AdminState?

- Much of the discussion/disagreement centered on the arrow going up into the AdminState variable. This was intended to represent other “administrative controls” that could potentially change the AdminState value configured by management.

- When mapping to an ifTable this is an issue because there could be management methods other than SNMP (e.g. local CLI) that could change the AdminState value.

- We concluded that the document would not try to specify a structure that reconciled multiple management methods, and that within the Link Aggregation sublayer we would not specify any other administrative or operational controls that modified AdminState. Therefore within the context of the Link Aggregation sublayer we model a single management interface as the only mechanism for writing AdminState.

- Documents specifying other sublayers could potentially reach a different conclusion.
ISS status parameters

How I interpreted the ISS status parameter definitions

- I think there is agreement on MAC_Operational.
- Evidently there are different interpretations of MAC_Enabled. This interpretation appears (to me) to be consistent with:
  - 802.1AC-2016 section 11.2
  - 802.1Q-2018 Support of the EIIS (6.8.2), Multiplexing Entities (6.17, 6.18, 6.19), Bridge Transmit and Receive (8.5), TPMR (23.1.1)
Use of the ISS status parameters

In a very simple sublayer the status parameters pass through (e.g. “Support of the EISS”).

Local state (e.g. state machines)
Use of the ISS status parameters

- **MAC Enabled**
- **MAC Operational**
- **OperState**
- **AdminState**
- **Local state (e.g. state machines)**

Slightly more complex sublayer may generate its own OperState (e.g. CFM).
ISS status parameters

If it makes sense to enable/disable the sublayer independent of the underlying service layer then can have its own AdminState (e.g. Aggregator Port).
Back up slides
Thank You