802.1Qca for Small Networks

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Example Network
IS-IS Hellos (IIH) Exchanged between Neighbors

PCE

Bridge 1

Bridge 2

Bridge 3

Bridge 4

Bridge 5

E1

E2

E3

E4

IS-IS Hello

IS-IS Hello

IIH

IIH

IIH

IIH

IIH

IIH
Station MAC Learnt from MRPDU

- PCE
  - Bridge 1
  - Bridge 5
  - Bridge 4
  - Bridge 2
  - Bridge 3
  - E1
  - E2
  - E3
  - E4

MRPDU1 → E1
MRPDU2 → E2
MRPDU3 → E3
MRPDU4 → E4

e.g. TA
Or Station MAC Learnt from LLDP

Diagram:
- PCE
- Bridge 1
- Bridge 2
- Bridge 3
- Bridge 4
- Bridge 5

Interfaces:
- E1
- E2
- E3
- E4
LSPs Flooded

- End Station MAC is conveyed by LSP
- Not all LSPs are shown in the figure
LSDB Built
Static Explicit ECT Algorithm is used (see Table 45-1)
FDB Entries Installed
MSRP Stream – 1 Talker Advertise
MSRP Stream – 2 Listener Ready (1)
MSRP Stream – 3 ET for Stream

LSP conveying Topology sub-TLV specified by 802.1Qca
MSRP Stream – 4 Listener Ready (2)