Revised Layer Diagrams for 802.1AS

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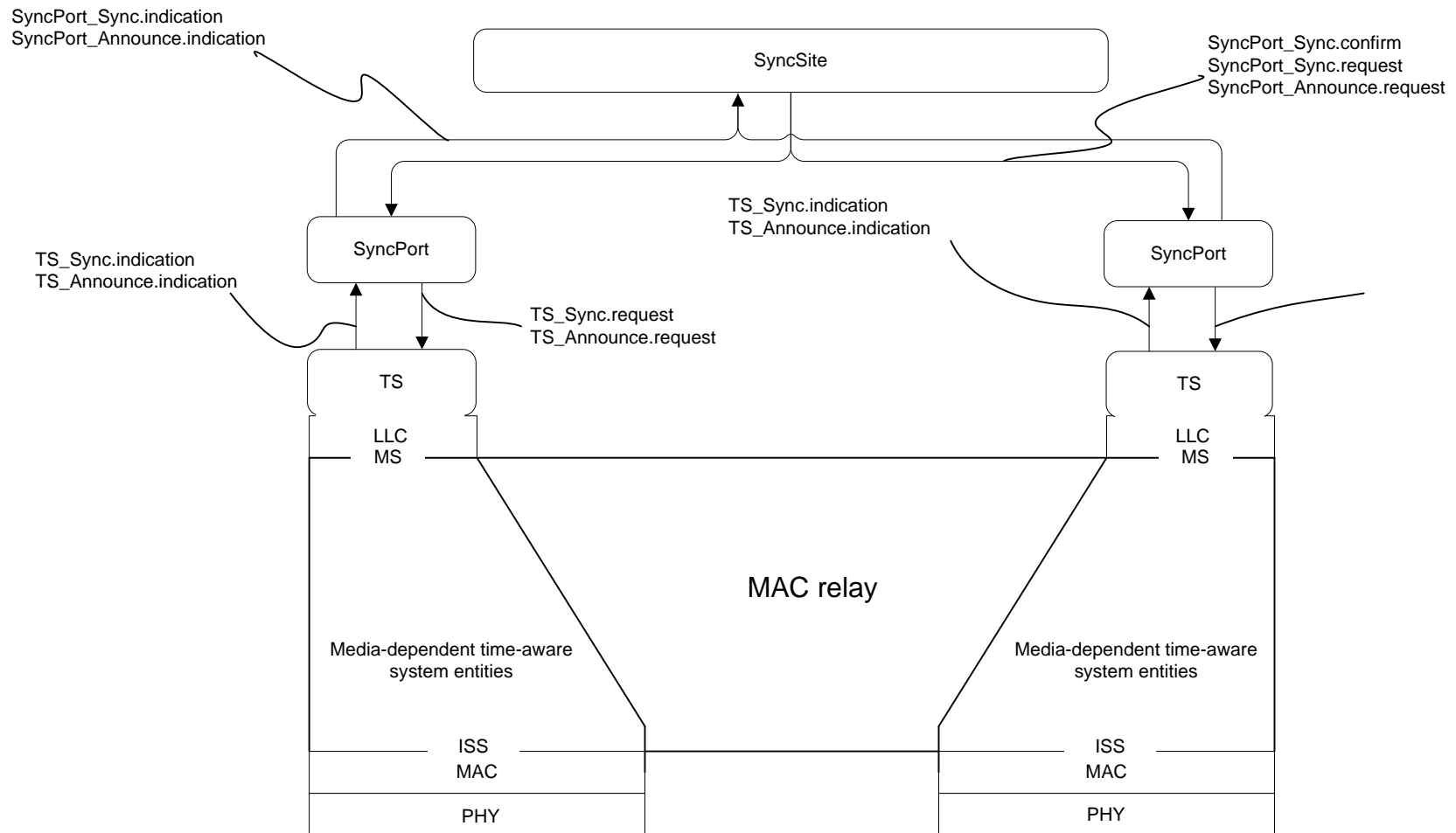**SAMSUNG Electronics (Consultant)**

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Summary

❑The following four slides contain revised layer diagrams for 802.1AS, based on discussions of Draft D1.1 at the January, 2008 AVB TG meeting, and in the February 4, 2008 802.1AS call

❑The diagrams include

- Media independent layers for a time-aware bridge

- Media independent and full-duplex, point-to-point link media-dependent layers for a time-aware bridge

- Media independent layers for a time-aware end station

- Media independent and full-duplex, point-to-point link media-dependent layers for a time-aware end station
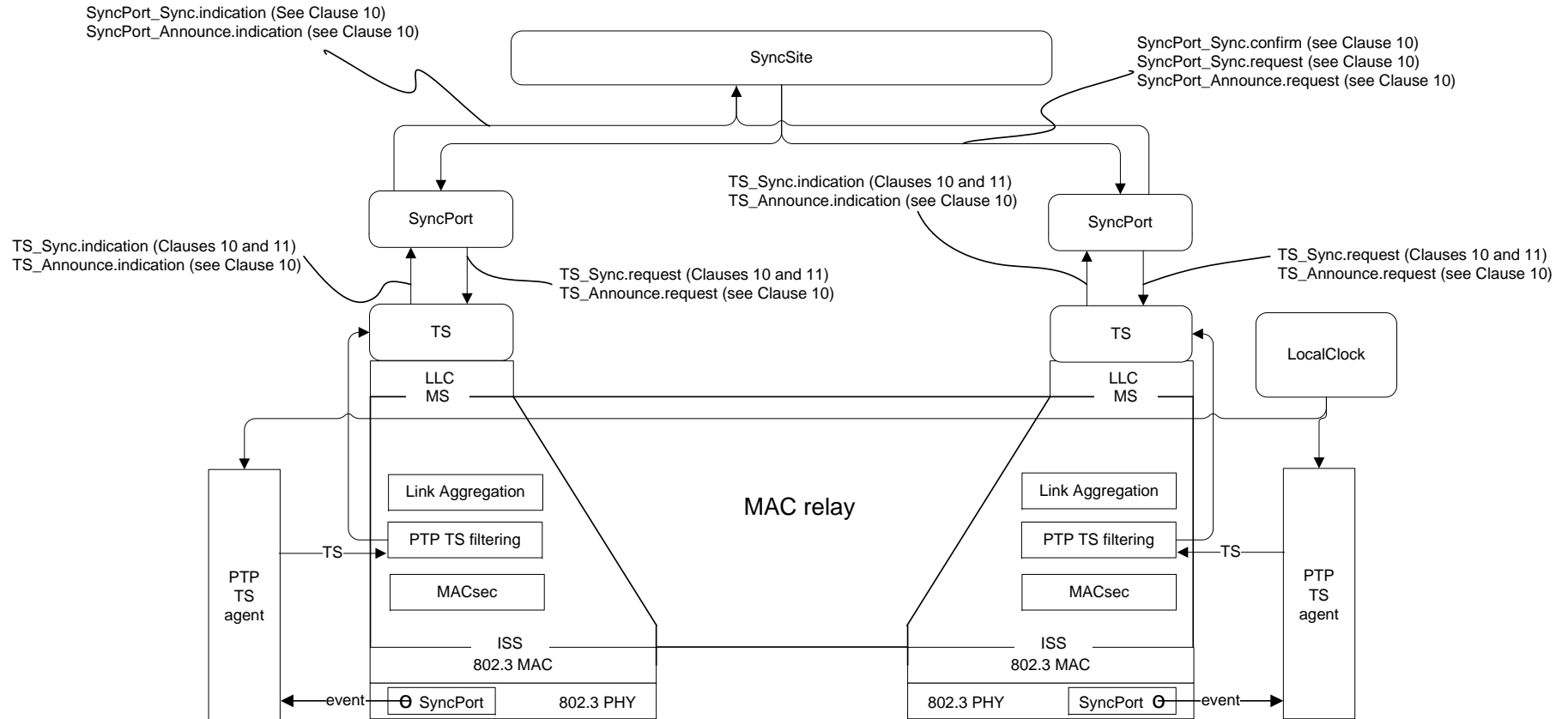
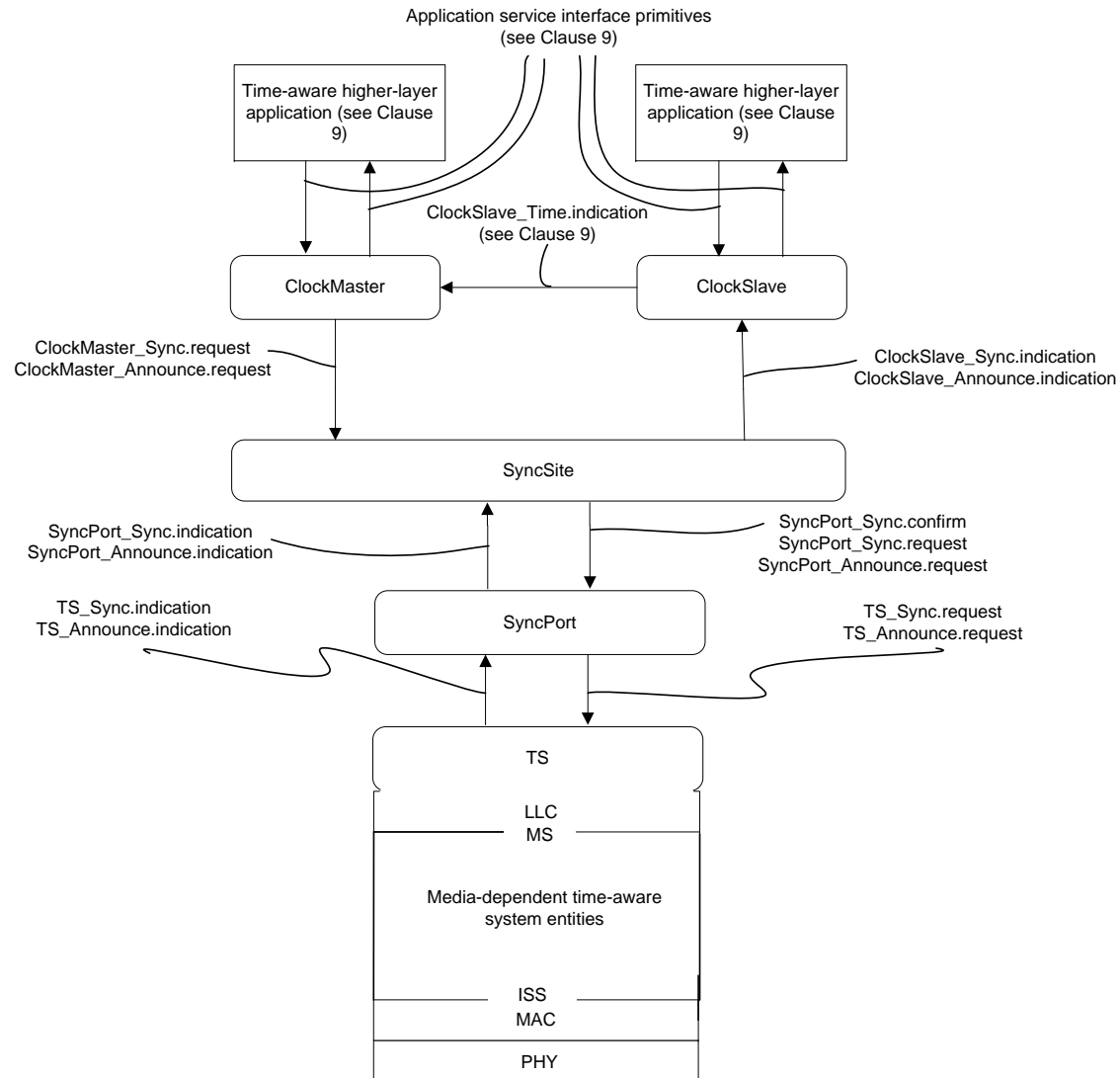# Time-aware bridge media-independent layers

Time-aware bridge media-independent and full-duplex point-to-point link media-dependent layers

<<Editor's Note: Would PortSync be a better name for the per-port media-independent entity? If so, would SiteSync or some other name where "Sync" is at the end rather than at the beginning be better for the central entity?>>

SyncPort_Sync.indication (See Clause 10)
SyncPort_Announce.indication (see Clause 10)

SyncPort_Sync.confirm (see Clause 10)
SyncPort_Sync.request (see Clause 10)
SyncPort_Announce.request (see Clause 10)

SyncSite

TS_Sync.indication (Clauses 10 and 11)
TS_Announce.indication (see Clause 10)

SyncPort

SyncPort

TS_Sync.indication (Clauses 10 and 11)
TS_Announce.indication (see Clause 10)

TS_Sync.request (Clauses 10 and 11)
TS_Announce.request (see Clause 10)

TS_Sync.request (Clauses 10 and 11)
TS_Announce.request (see Clause 10)

TS

TS

LocalClock

LLC
MS

LLC
MS

PTP
TS
agent

TS

Link Aggregation

PTP TS filtering

MACsec

MAC relay

Link Aggregation

PTP TS filtering

MACsec

TS

PTP
TS
agent

ISS
802.3 MAC

ISS
802.3 MAC

event

SyncPort

802.3 PHY

802.3 PHY

SyncPort

event

Time-aware end station media-independent layers

Time-aware end station media-independent and full-duplex point-to-point link media-dependent layers

Application service interface primitives
(see Clause 9)

<<Editor's Note: Would PortSync be a better name for the per-port media-independent entity? If so, would SiteSync or some other name where "Sync" is at the end rather than at the beginning be better for the central entity?>>

Time-aware higher-layer application (see Clause 9)

Time-aware higher-layer application (see Clause 9)

ClockSlave_Time.indication
(see Clause 9)

ClockMaster

ClockSlave

ClockMaster_Sync.request
ClockMaster_Announce.request

ClockSlave_Sync.indication
ClockSlave_Announce.indication

SyncSite

SyncPort_Sync.indication
SyncPort_Announce.indication

SyncPort_Sync.confirm
SyncPort_Sync.request
SyncPort_Announce.request

TS_Sync.indication
TS_Announce.indication

SyncPort

TS_Sync.request
TS_Announce.request

TS

LLC
MS

Link Aggregation

PTP
TS
agent

TS

PTP TS filtering

MACsec

ISS
802.3 MAC

event   Ө SyncPort   802.3 PHY