

WR Node A
(WR Master)

WR Node B
(WR Slave)

time

time

Extended PTP
Announce

Announce*

WR Node B recognizes another WR node
by the suffix of the Announce message

SLAVE_PRESENT*

WR Node B becomes WR Slave (conditions
in 6.7.1 fulfilled) and notifies the **WR Node A**
which enters WR Master mode (6.7.2)

LOCK*

Syntonization of the WR Slave
clock over the physical layer

LOCKED*

CALIBRATE*

Calibration of the WR Master
fixed delays

CALIBRATED*

CALIBRATE*

Calibration of the WR Slave
fixed delays

CALIBRATED*

WR_MODE_ON*

WR Link Setup finished
successfully

t_1

Sync

t_2

PTP delay request-response mechanism
(with two-step clock). It calculates
the delay and offset of the WR Slave.
Sub-ns accuracy is achieved thanks to
the precise knowledge of the link delay.

Follow_Up

Delay_Req

t_3

t_4

Delay_Resp

Standard
PTP
sync
messages

t_1

Sync

t_2

PTP synchronization is
repeated periodically

Follow_Up

Delay_Req

t_3

t_4

Delay_Resp

* WR-related messages described in section 6.5.