

AVB Verification Plan for DSP Ethernet

2022.04.12 | Samsung



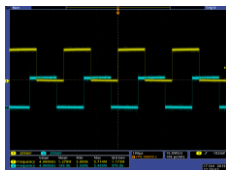
WORK SCOPE

□ Deliverable from Samsung for Ethernet AVB

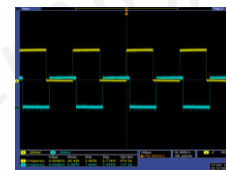
- Ethernet driver for DSP core
- TX/RX API for DSP applications
- **AVB reference stack in Linux VM**
- PLL setting support
- **AVB reference for DSP core**
- PWM timer 1ch support (SYS, IVI, SFI and DSP should be able to access PWM timer.)

ETHERNET AVB VERIFICATION SCENARIO

□ DSP AVB talker verification



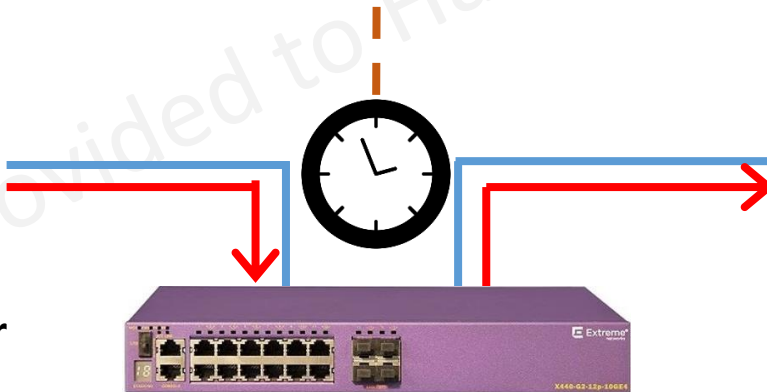
— — **Clock Synchronization** by MCGR in Linux domain — —



— — — **Time Synchronization** by gPTP in Linux domain — — —



DSP AVB Talker
(Samsung Discovery)



AVB Switch



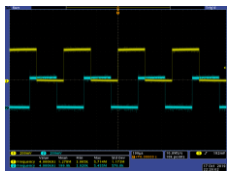
Linux AVB Listener
(Samsung Discovery)



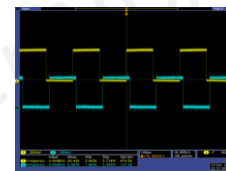
Speaker

ETHERNET AVB VERIFICATION SCENARIO

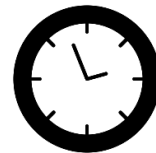
□ DSP AVB Listener verification



— — **Clock Synchronization** by MCGR in Linux domain — —



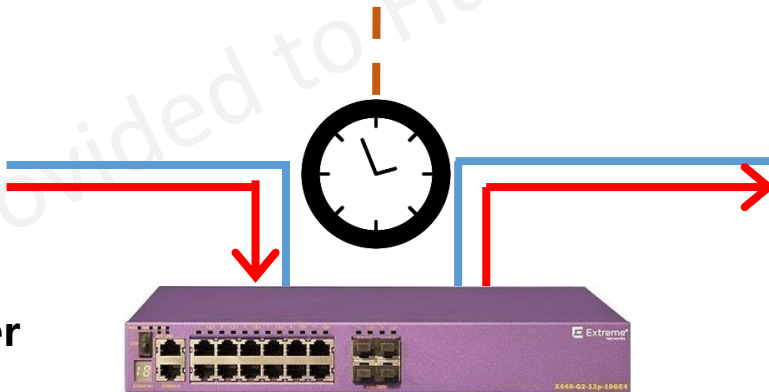
— — — **Time Synchronization** by gPTP in Linux domain — — —



Audio File



Linux AVB Talker
(Samsung Discovery)



AVB Switch



DSP AVB Listener
(Samsung Discovery)