

Basic requirements of RoE

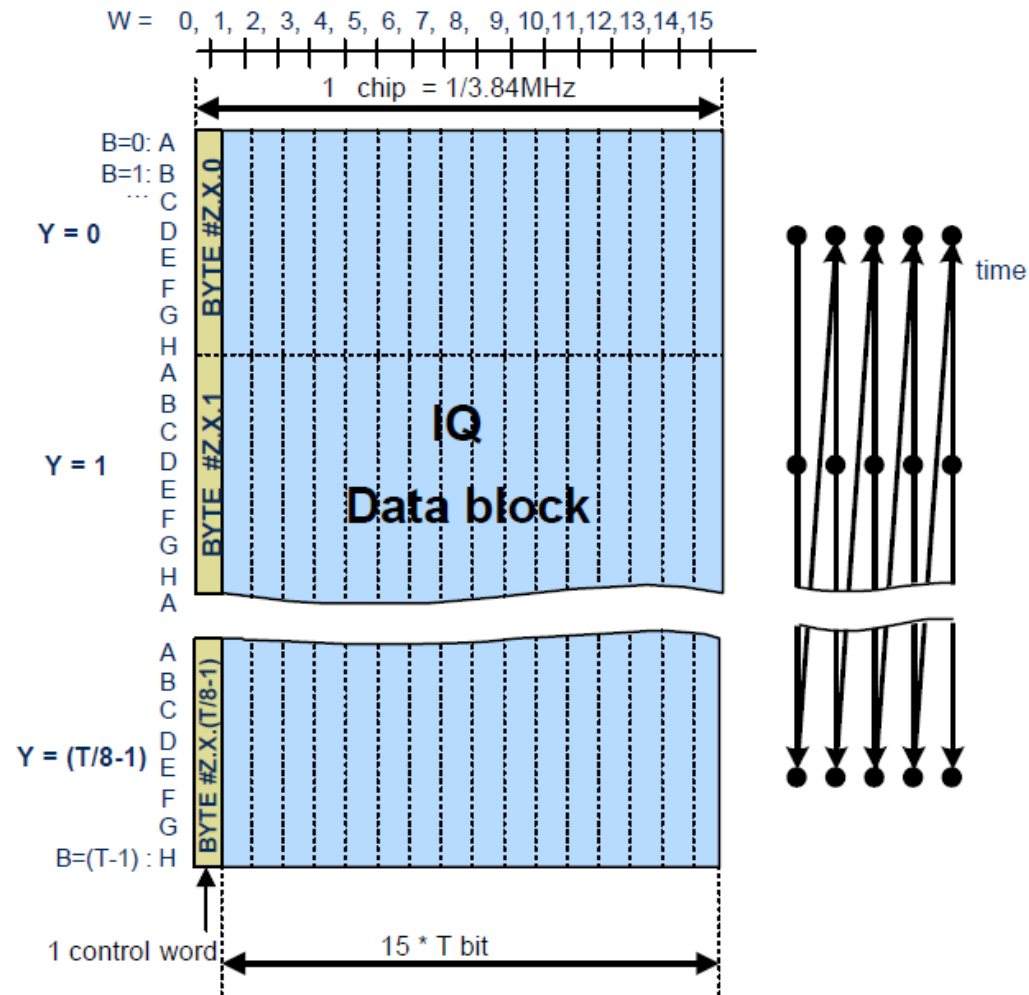
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What is the key requirement for carried Radio

- CPRI interface would be as reference for define the requirements for RoE
- Delay between RRU and BBU need consider delay introduced by RoE equipments
- Synchronization mechanism
- Adaptive to carried variable data rates of radio data.
 - As current CPRI specification, CPRI data block(including Control, Sync and User data) size is different according line rate options, the Max Size is about 16*192 bits(12165.12M/s)



Requirement for Ethernet encapsulation

- Interoperation required unified encapsulation method for different interface types(1G Ethernet,10G Ethernet, etc...)
 - MAC frame should be agnostic for PHY layer
 - Jumbo frame may be supported for better transmission efficiency optional
 - IQ data and C&M data may need process separately
 - Fragment CPRI's IQ data to adapt Ethernet Mac frame may be needed
- Processing for RoE frame between RRU and BBU should feed the requirements for carried radio
 - Limited the process delay from ingress to egress of RoE equipment(for example: TDM multiplexing)
- Identification of RRUs for forwarding RoE frame

Some aspects affect the RoE processing

- Topologies
 - Tree topology
 - Ring topology
 - Chain topology
- Services
 - Hybrid with other services
 - Pure RoE services


Bringing you Closer

Thanks!