



Clause 47 – XAUI

Electrical

Jonathan:

Goal of this week is to prepare for Task Force Ballot!

Brad:

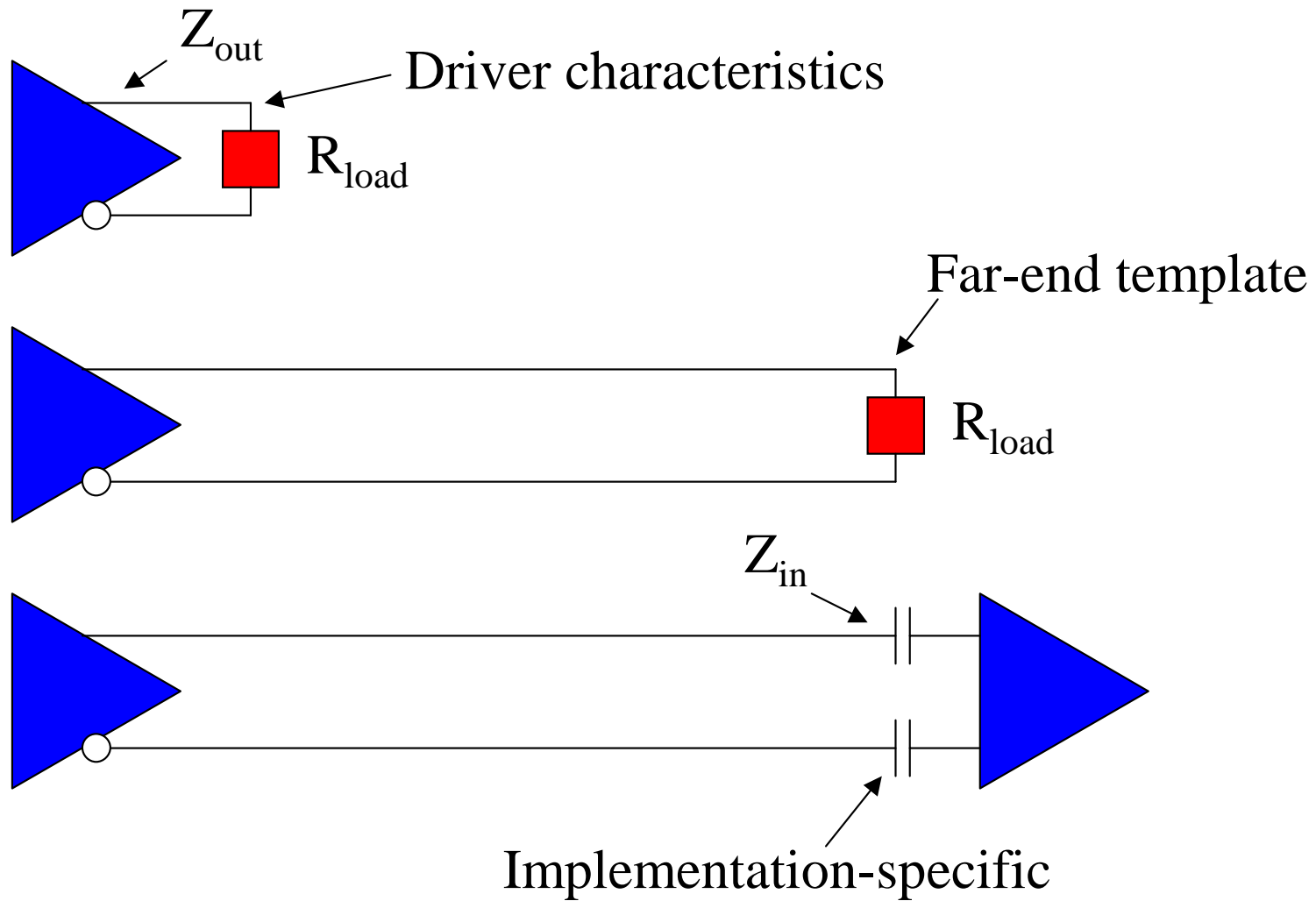
- Must resolve electrical interfaces and specs this week
- Must develop roadmap to close on jitter by March
- Must develop roadmap to close compliance and testing

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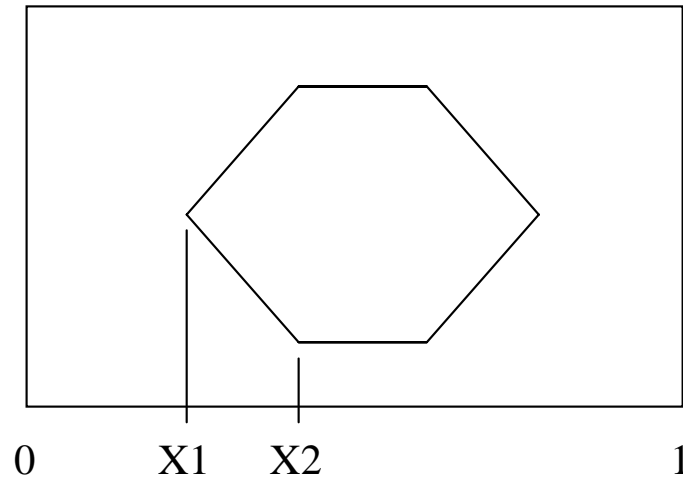
Electrical Issues

- **Receive eye** (Jeff, Shawn)
 - Approve complete eye definition
- **Transmit amplitude** (Ali, Richard)
 - Agree on (and approve) min and max amplitudes
- **Compliance channel** (Dawson)
 - Agree to method
 - Enlist volunteers to make measurements
- **Jitter specification** (Tord)
 - Form XAUI jitter ad hoc to parallel optical jitter ad hoc
- **Common mode specifications** (Dawson)
 - Agree on (and approve)
- **PICS**
 - Don't need until Draft 2

Compliance Points



Receive eye





Driver spec's

- Min amplitude
 - Loss budget (Ali)
 - Simulations (Richard)
- Max amplitude



Compliance channel

- Measured data
- Specification method
- Compliance limits



Jitter specification

- Transmit output and Receive tolerance
 - Low frequency jitter
 - Loop bandwidth
 - Sinusoidal jitter tolerance validity
 - CMR, PSRR
 - Compliance test method
- Form focus group
 - Identify leader
 - Enlist participants
 - Coordinate with PMD Jitter ad hoc

Common mode spec's

- AC CM spec to replace skew spec
 - Jitter is spec'ed already, without skew
 - EMI is more fully described by CM
 - Fibre Channel and InfiniBand spec's
- DC CM spec at driver
 - Limit AC coupling isolation
 - Allow DC coupled design
- CM impedance match
 - Driver, receiver, PCB (channel)

PICS

- Will not discuss in Tampa
- Less critical than technical content
- Needed for Draft 2