2.5G/5GBASE Backplane Auto-Negotiation Baseline Proposal

January 20, 2016

William Lo, Marvell

Supporters

▸ **Anthony Calbone (Seagate)**

▸ **Peter Wu (Marvell)**

MARVELL®

Agenda

▸ **Define Auto-Negotiation Baseline Requirements**

▸ **Goal: Adopt set of baselines so we can get bulk of text started**

Auto-Negotiation Baseline Proposal

▶ **Adopt Clause 73 Backplane Auto-Negotiation**

▶ **2.5G Specifics**
  ▪ **Technology Ability Field bit A11 (or next available bit) to advertise 2.5GBASE-KX**
  ▪ **Require parallel detect support for 2.5GBASE-KX**

▶ **5G Specifics**
  ▪ **Technology Ability Field bit A12 (or next available bit) to advertise 5GBASE-KR**
  ▪ **Running Clause 73 Auto-Negotiation is mandatory prior to link**
  ▪ **Disabling Clause 73 Auto-Negotiation for 5GBASE-R operation is outside the scope of the standard**

▶ **No FEC defined for 2.5G and 5G backplane**

▶ **Use Clause 73A.4 to advertise EEE**
  ▪ **U16 – 2.5GBASE-KX (or next available bit)**
  ▪ **U17 – 5GBASE-KR (or next available bit)**

MARVELL®

THANK YOU