



NCITS T11.2

- Assistance to IEEE 802.3 HSSG -

IEEE 802.3 HSSG - Coeur d'Alene, ID

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NCITS T11.2

- ❖ NCITS Task Group T11.2 is the ANSI-sanctioned standards body chartered with Fibre Channel PHY development.
 - In existence since the early 1990's
 - Includes semi-permanent Optical, Copper and Jitter Working Groups
 - Played a major role during GbE PHY development
- ❖ Current concern exists about the potential impact of development of alternate but related multi-gigabit Physical layers on the timeliness and quality of T11.2 standards.
- ❖ T11.2 Interested in PHYs faster than 1 Gbps also
 - 2 and 4 Gbps PHYs currently being developed
- ➔ **Proposal:** Promote TG T11.2 è NCITS Technical Committee



New TC Scope and Mission

- ❖ Proposed New TC Scope and Mission would fit well within the NCITS Scope and Mission:
- ❖ **Proposed Scope:** Standardization in the field of information technology which encompasses the physical transfer of information and management thereof.
- ❖ **Proposed Mission:** Produce market-driven, voluntary consensus standards in the areas of intercommunication among computing devices at the Physical layer focusing on Local, Regional, Storage and Wide-Area Networks.



What Changes?

- ❖ New TC number: **T14** or T9 or T1 or T?
- ❖ New TC name: **Physical Layer Interfaces**
- ❖ New Task Groups: **Optical, Copper, Jitter**
- ❖ New subjects to address:
 - **Parallel Payload Interface, Transmission Code, Auto-Negotiation, Serialization/Deserialization, Clock and Data Recovery, Connector requirements, Others???**
- ❖ TC Projects: **FC-PI, MJS-X, CUTR-X?, Others???**
- ❖ Task input from:
 - **T11, IEEE, Industry Associations such as OIF, NGIO, Future I/O, SFF, Others???**



Advantages to the Industry

- ❖ Permanent panel of experts already exists (T11.2)
 - Similar resources are generally temporary in other committees
- ❖ Interoperable multi-use PHYs
 - Enables high levels of component sharing between standards
 - **Component Sharing** è **High Volume** è **Low Cost**
- ❖ Faster PHY development cycles
- ❖ Development of PHY standards targeted at the development of technically and economically superior products with broad market potential
- ❖ Common industry PHY engineering and terminology



Status/Next Steps

- ❖ Floated proposal by Optical WG, T11.2 and T11
 - Strong interest according to straw poll: 33 Yes, 3 No, 2 Abstain
- ❖ Communication with NCITS to assess impact
- ❖ Float proposal by IEEE 802.3 HSSG in Idaho
- ❖ Float proposal by others