

10-498v1

PROPOSAL FOR A NEW T11 PROJECT

INCITS Standard

Energy Efficient FIBRE CHANNEL SPECIFICATION (FC-EE)

1. Source of the Proposed Project

1.1 Title:

Energy Efficient Fibre Channel
(FC-EE)

1.2 Date Submitted:

December 8, 2010

1.3 Proposer:

T11

2. Process description for the Proposed Project:

2.1 Project Type:

Development

2.2 Type of Document:

INCITS Standard

2.3 Definitions of Terms:

None

2.4 Expected Relationships with Reference Models, Frameworks, Architecture:

None, the standard is expected to be used in closed Systems.

2.5 Recommended INCITS Development Technical Committee:

T11

2.6 Anticipated Frequency and Duration of Meetings:

Technical Committee T11 meets on a regularly scheduled basis. Specific Task ad hoc groups are called as required between the regular meetings but their results are not binding.

2.7 Target Date for Initial Management Review (Milestone 4):

October 2012

2.8 Estimated Useful Life of Standard or Technical Report:

5 years

3. Business Case for Developing the Proposed Standard or Technical

Report:

3.1 Proposed content

The Energy Efficient Fibre Channel Specification Standard (FC-EE) is intended to develop the required protocol to give

Fibre Channel devices the ability to enter and exit low power modes that will help reduce overall power consumption by allowing various components to enter a low power mode. Any required physical changes for implementation will also be incorporated. The following items may be considered for inclusion in FC-EE:

Specific goals:

1. Methods that allow communication between devices to go in and out of low power modes
2. Protocols that support energy efficient FC
3. Physical layer changes that support energy efficient FC
4. Methods that support power savings at the PHY level and upper Levels
5. Define methods for electrical and optical links
6. Additional methodologies as may be proposed

3.2 Existing Practice and the Need for a Standard:

The proposed project involves a compatible evolution of the present Fibre Channel physical and protocol layers.

3.3 Implementation Impacts of the Proposed Standard

3.3.1 Development Costs

Resources are provided by the members of T11. The members host the required meetings for development, provide for the necessary lab experiments and silicon technology development and provide the Technical Editor for the project.

3.3.2 Impact on Existing or Potential Markets

The nature of the proposed project is to ensure that Fibre Channel has an upward, highly compatible growth path. This ensures that current investments in Fibre Channel are provided with a stable managed migration path in the face of technological developments.

3.3.3 Costs and Methods for Conformity Assessment

The committee will consider the results of testing as may be available to the committee through the voluntary efforts of the various participants in T11. With this method all costs are borne by the organizations of the various participants and have for the most part been mainly an adjunct of their normal development costs.

3.4 Legal Considerations

3.4.1 Patent Assertions

Calls will be made to identify assertions of patent rights in accordance with the relevant INCITS, ANSI, and ISO/IEC

policies and procedures.

3.4.2 Dissemination of the Standard or Technical Report

Drafts of the document will be disseminated electronically.

Dissemination of the final Technical Report will be restricted as the document becomes property of INCITS, ANSI, or IS/IEC.

4.0 Related Standards

4.1 Existing Standards

FC-PI-5 (2118-D)

FC-FS-3 (1861-D)

FC-LS-2 (2103-D)

4.2 Related Standards Activity:

FC-PI-6 (32GFC)

4.3 Recommendations for Coordinating Liaison:

None

4.4 Recommendations for Close Liaison:

None

5. Units of Measurement used in the Technical Report:

Indicate units of measurement used in the Technical Report:

☒ International Systems of Units (SI)

☐ Inch/Pound

☐ Both

☐ Other

☐ Not Measurement Sensitive