

Project Proposal For A New INCITS Standard

Fibre Channel – Link Services - 2

(FC-LS-2)

T11/08-015v1

1 Source of the Proposed Project

1.1 Title

Fibre Channel – Link Services - 2 (FC-LS-2).

1.2 Date

11 January 2008.

1.3 Proposer(s)

INCITS TC T11, with a current membership of 48.

2 Process Description for Proposed Project

2.1 Project Type (Development or Revision)

Type D (Development done within INCITS TC T11).

2.2 Type of Document

Standard.

2.3 Definition of Concepts and Special Terms

None.

2.4 Expected Relationship with Approved Reference Models, Frameworks, Architectures, etc.

All Fibre Channel standards are intended for use in closed systems. This technology is applicable to any storage network environment.

2.5 Recommended INCITS Development Technical Committee (Existing or New)

It is recommended that this project be assigned to TC T11, in order that the project be coordinated with work on other Fibre Channel and Storage Networking standards.

2.6 Anticipated Frequency and Duration of Meetings

This project will make use of the regularly-scheduled bimonthly T11 plenary

meetings. Informal Working Groups will be organized on an ad-hoc basis.

2.7 Target Date for Initial Public Review (Milestone 4)

June 2009.

2.8 Estimated Useful Life of Standard or Technical Report

It is anticipated that this standard will have a useful life of over 10 years.

3 Business Case for Developing the Proposed Standard or Technical Report

3.1 Description

Fibre Channel Extended Link Services provide a invaluable service for management and control of Fibre Channel systems. This project proposal recommends the development of additional and enhanced Extended Link Services functions to the Extended Link Services defined in the FC-LS standard. The specific goals of the FC-LS-2 standard are:

Incorporate new ELSs required for FC-BB-5 (FCoE and other protocols).

Provide for new and/or amended Link Services as required by T11 standards work groups.

3.2 Existing Practice and the Need for a Standard

Current Fibre Channel Extended Link Services are defined in the FC-LS standard. Requests for additional and enhanced Extended Link Services functions are coming from existing and new implementation areas of Fibre Channel.

3.2.1 Development Costs

This standard will be developed through the voluntary and cooperative efforts of T11 Task Committee members. No significant development costs are anticipated.

3.2.2 Impact on Existing or Potential Markets

The proposed standard will provide an upward growth path that complements and enhances existing supplier products and support schemes. The proposed standard will result in expanded applications for existing and conceived products in both the channel and network markets.

3.2.3 Costs and Methods for Conformity Assessment

The committee will consider the results of testing provided to the committee through the voluntary efforts of the 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.

3.2.4 Return on Investment

The return on investment for this development is expected to be high, due to the commonality of effort directed to a singular method of providing the services covered by the proposed standard.

3.3 Legal Considerations

3.3.1 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. T11 is aware of patent assertions that have been made and letters indicating compliance with INCITS policies have been received.

3.3.2 Dissemination of the Standard or Technical Report

Drafts of this document will be disseminated electronically. Dissemination of the final standard will be restricted as the document becomes the property of INCITS, ANSI, or ISO/IEC.

4 Related Standards Activities

4.1 Existing Standards and Technical Reports

ANSI INCITS 424-2007, Fibre Channel – Framing and Signaling - 2 (FC-FS-2)

ANSI INCITS 418-2006, Fibre Channel – Switch Fabric - 4 (FC-SW-4)

ANSI INCITS 433-2007, Fibre Channel – Link Services (FC-LS)

ANSI INCITS 426-2007, Fibre Channel – Security Protocols (FC-SP)

4.2 Standards Under Development

Project 1822-D, Fibre Channel – Switch Fabric - 5 (FC-SW-5)

Project 1796-D, Fibre Channel – Backbone - 4 (FC-BB-4) BB-5

Project 1861-D, Fibre Channel – Framing and Signaling - 3 (FC-FS-3)

Project 1835-D, Fibre Channel – Security Protocols - 2 (FC-SP-2)

IEEE 802.1Qau, Virtual Bridged Local Area Networks – Amendment 7:
Congestion Notification

4.3 Recommendations for Close Liaison

None.

5 Units of Measurement used in the Standard

Système Internationale d'Unités (International System of Units).