

T11.5 Status for IMSS

(<http://www.t11.org/t11/docreg.nsf/ulfile/06-519>)

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Topics

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- Recent T11.5 completed work
- T11.5 Work in Progress
- Futures

Background

- First IETF work related to Fibre Channel (FC) was RFC 2625 (IP & ARP over FC) in 1999
- IP Storage WG produced some FC–related documents
 - RFC 3821 – Fibre Channel over TCP/IP
 - RFC 3643 – FC frame Encapsulation
 - RFC 4044 – FC Management MIB

T11.5 Overview

- T11.5 is a sub group of the INCITS (accredited by ANSI) Tech Committee (that produces the Fibre Channel Standards)
 - T11.5 is focused on management of storage
 - See <http://www.t11.org/>, follow T11.5 link
 - Group has been in operation 4 years
 - Also has projects for APIs (FAIS & HBA)
- Defined process for working with imss on MIBs:
 - See <http://www.t11.org/t11/docreg.nsf/ulfile/03-624>
 - Includes a (online) letter ballot of parent INCITS TC

Recent T11.5 Completed Work

- On June 2, T11.5 passed change control to imss for:
 - Fibre-Channel Zone Server MIB
 - draft-kzm-imss-fc-zs-mib-03.txt
 - Fibre Channel Fabric Configuration Server MIB
 - draft-kzm-imss-fc-fcs-mib-02.txt
 - Fibre Channel Registered State Change Notification (RSCN) MIB
 - draft-kzm-imss-fc-rscn-mib-03.txt
- Result of motions approved at T11.5 & T11 meetings on April 6 plenary

Recent T11.5 Completed Work

- With these 3 MIBs, have completed the work envisaged in first presentation to imss (Silvano Gai's I-D)
 - 8 MIBs submitted to imss
- Have essentially “caught up” with development projects in T11
 - Now have managed object definitions for all key parts of FC architecture

T11.5 Work In Progress

- Approved a Project Proposal for a Security Protocols MIB at latest T11.5 meeting (June 15 in Anchorage, AK)
 - T11.5 acronym is SM-SPM
 - FC Security Protocols (FC-SP) project itself is at first Public Review stage in INCITS
 - FC-SP-2 project has been approved to define additional functions etc.

T11.5 Work in Progress

- Other projects in progress in T11 may be candidates for management work
 - Inter-Fabric Routing (FC-IFR)
 - Fabric Application Interface (FAIS)
 - Avionics Environment protocols??
- Minor updates to existing definitions may be needed because of:
 - Ongoing development work on Generic Services (FC-GS-6) and Switch Fabrics (FC-SW-5)
 - Additional physical interface types defined in FC-BaseT, FC-PI-4 etc.

Futures

- Intent is to create management definitions in parallel with referenced work
 - As work becomes stable (e.g. starting at T11 Letter Ballot stage)
- Creating online management dictionary to cross reference “base” T11 standards with MIB definitions
 - Use as a basis for future joint work
 - May see if we can include a common format “management annex” in relevant T11 standards

Details of T11.5 Processing

Zone Server MIB

- T11.5 acronym for project was SM-ZSM:
 - For project details see:
 - <http://www.t11.org/t11/stat.nsf/uproj/sm-zsm>
 - Final T11.5 draft is:
 - <http://www.t11.org/ftp/t11/pub/sm/zsm/06-047v1.txt>
 - Resolution of T11 Letter Ballot comments is:
 - <http://www.t11.org/t11/docreg.nsf/ulfile/06-019>
 - Transmission cover letter to imss is:
 - <http://www.t11.org/t11/docreg.nsf/ulfile/06-407>

Fabric Configuration Server MIB

- T11.5 acronym for project was SM-FCFGM:
 - For project details see:
 - <http://www.t11.org/t11/stat.nsf/uproj/sm-fcfgm>
 - Final T11.5 draft is:
 - <http://www.t11.org/ftp/t11/pub/sm/fcfgm/06-197v0.txt>
 - Resolution of T11 Letter Ballot comments is:
 - <http://www.t11.org/t11/docreg.nsf/ulfile/06-050>
 - Transmission cover letter to imss is:
 - <http://www.t11.org/t11/docreg.nsf/ulfile/06-409>

Registered State Change Not. MIB

- T11.5 acronym for project was SM-RSCNM:
 - For project details see:
 - <http://www.t11.org/t11/stat.nsf/uproj/sm-rscnm>
 - Final T11.5 draft is:
 - <http://www.t11.org/ftp/t11/pub/sm/rscnm/06-198v0.txt>
 - Resolution of T11 Letter Ballot comments is:
 - <http://www.t11.org/t11/docreg.nsf/ulfile/06-051>
 - Transmission cover letter to imss is:
 - <http://www.t11.org/t11/docreg.nsf/ulfile/06-408>