MIB Framework Latest Changes

- Submitted *draft-ietf-ipfc-mib-framework-03.txt*
- Added new section 6: MIB Documents
  - Serves as guide to final and in-progress MIBs
- FC Management Framework Integration MIB
  - *draft-ietf-ipfc-fcmgmt-int-mib-04.txt*
- Fabric Element MIB
  - *RFC 2837*

Fibre Channel Management Framework Integration MIB

The Fabric Integration MIB addresses more general fabric topology and management issues for the entire storage network, with particular emphasis on integrating the management of end node devices and HBAs and their Fabric capabilities (draft-ietf-ipfc-fcmgmt-int-mib-04.txt).

The MIB is to provide an integrated management environment for an enterprise class storage network (or SAN in short). An enterprise class storage network consists of fibre channel elements like hubs, switches, converters, gateways, and HBAs that are developed by many different vendors. The large number of vendors that can exist in a storage network makes management a very hard and complicated problem. The main goal of the document is to enable interoperability among the various vendors involved in the Fibre Channel marketplace.

Fabric Element MIB - RFC 2837

The Fabric Element MIB defines the objects for managing the operations of the Fabric Element portion of the Fibre Channel Standards. As such, it deals specifically with switches and their ports and how to manage them via SNMP.

A Fibre Channel Fabric is an entity which interconnects Node Ports (N_Ports) or Node Loop Ports (NL_Ports). It provides transport and routing functions. In essence, a Fabric is a network of N_Ports and/or NL_Ports to communicate with one another. A Fabric is composed of one or more Fabric Elements that are interconnected via Inter-element Links (IEL). A Fabric Element is the smallest unit of a Fabric that meets the definition of a Fabric. It must consist of at least three external ports to connect to either N_Ports, NL_Ports or other Fabric Elements. The management of such a fabric is the purpose for the Fabric Element MIB.

MIB Framework Next Steps

- If no more changes/comments…
  - **Submit as Informational RFC**
  - **Update as needed for new Fibre Channel technologies/standards?**