iSCSI MIB Team Status

iSCSI Interim Meeting
February 2002

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Status

- iSCSI MIB
  - SCSI MIB Relationship worked out
  - Proposed revision to object model structure
    - Better consistency with iSCSI MIB
    - Reduces some duplication of attributes
  - Published new authorization model
    - Consistent with iSCSI login and authentication
    - May want to keep separate from iSCSI MIB
  - Proposed writable attributes

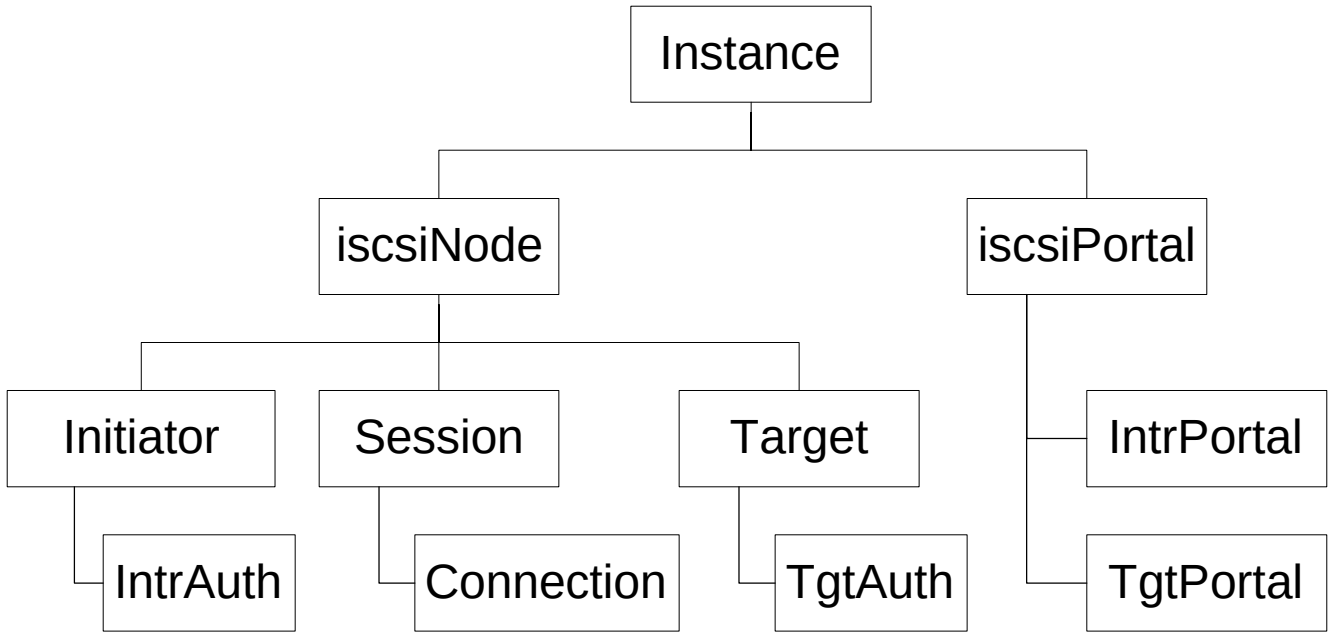
SCSI MIB Relationship

- SCSI Device has list of Transport objects
  - Each transport object points to iSCSI, FCP, etc device (read “iSCSI Node”)
- SCSI Device can be initiator, target, or both
- Transport MIB (e.g. iSCSI MIB)
  - Provides pointer in initiator and target to the SCSI Transport object
- View Object Model drawings at:
  - ftp://ftpeng.cisco.com/mbakke/ips/

Object Model Revision

- SCSI Device only has one pointer
  - Must point to both initiator and target in iSCSI MIB
- Add an object called iscsiNode
  - Move iscsiInitiator and iscsiTarget attributes to iscsiNode
- Add an object called iscsiPortal
  - Move most iscsiInitiatorPortal and iscsiTargetPortal attributes to iscsiPortal
- Move iscsiSession under iscsiNode
- MIB is cleaner and smaller, with no duplication

iSCSI MIB Structure



- iscsiNode can be initiator, target, or both
- Session belongs to node on “this end”

Consensus Call

- Any objections to revising Object Model with iscsiNode and iscsiPortal?

New Authorization Model

- No longer called Access Control
  - Due to confusion with SCSI access control
- iSCSI “user” identified by combination of:
  - iSCSI Initiator Names
  - iSCSI IP Address Ranges
  - iSCSI CHAP/SRP/KRB Credentials
  - Certificates
- A target can have a list of “users” that will be allowed to establish sessions.

Authorization MIB

- Authorization is not that iSCSI-specific
- We have a few options on where to put it:
  - In the iSCSI MIB
    - Only used for iSCSI
  - In a separate iSCSI Authorization MIB
    - Optional MIB, but still only for iSCSI
  - In a separate IPS Authorization MIB
    - Can be used for other IPS protocols

Consensus Call

- Recommend the Authorization MIB be:
  - As a separate iSCSI authorization MIB
  - Or a separate IPS authorization MIB

Writable Attributes

- We do not need a write locking scheme
- List of creatables
- List of writables

Plan

- Use IPS reflector for further work
- February/March 2002
  - Restructure MIB
  - Finish writable attributes
  - Finish Authorization MIB
- After iSCSI draft submitted
  - Submit final iSCSI MIB draft to IESG