"It's The I_T Nexus, Stupid"

- George Penokie 20 February 2000

Ralph Weber 01-093r1

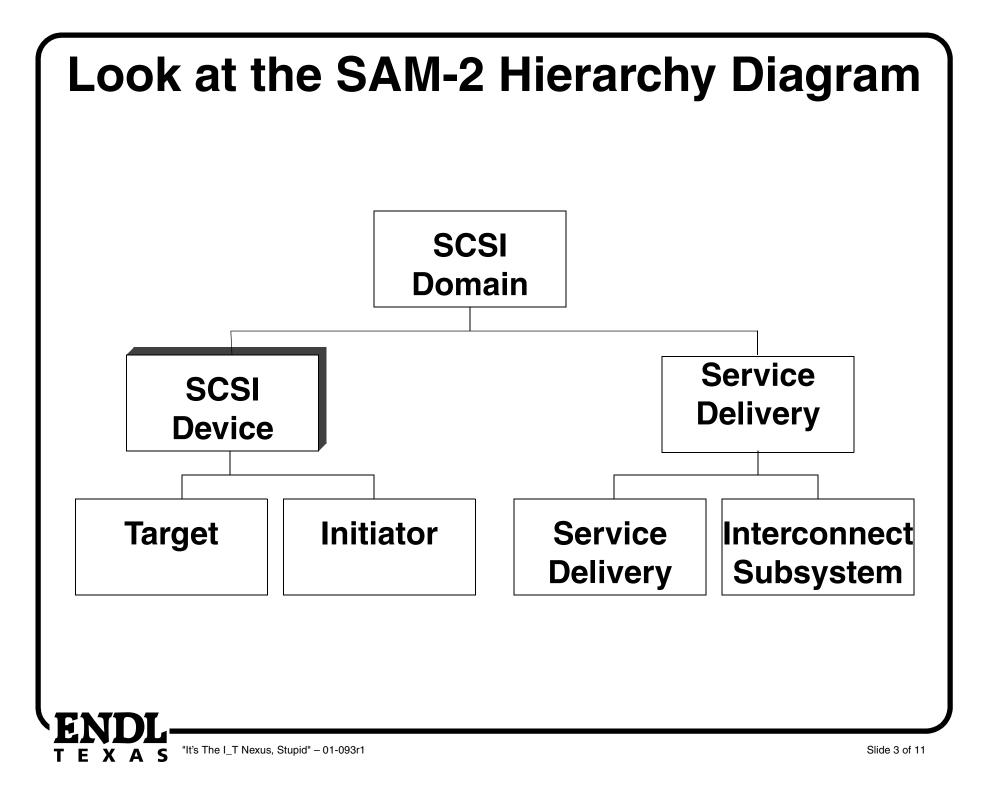


The Central Concept in SAM-2 is the I_T Nexus

This quixotic adventure started with a claim that the I_T Nexus is the central concept in SAM-2

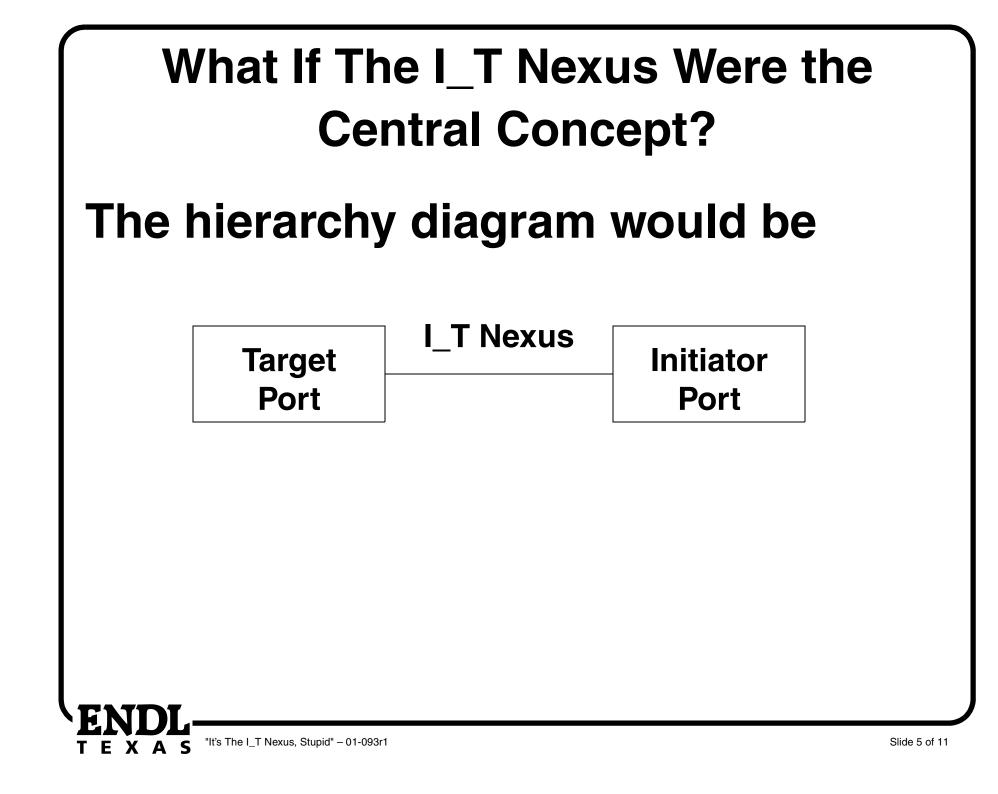
X In fact, however, it's not

- The central concept in SAM-2 is the SCSI Domain
- From which devolves the SCSI Device and the Service Delivery Subsystem



It's Really Worse Than That

- X The SCSI Domain contains SCSI Devices
- X The SCSI Devices contain Initiator Ports and/or Target Ports
- **X** Initiator Ports and Target Ports Have Identifiers
- ✓ An I_T Nexus is a pairing of →1 Initiator Identifier &
 - →1 Target Identifier



What If The I_T Nexus Were the Central Concept?

Initiator and Target Identifiers Belong to an I_T Nexus Don't belong to a port



What If The I_T Nexus Were the Central Concept?

A Protocol Could Map an I_T Nexus ✓ To a Login

Making Initiator/Target Identifiers
 + Arbitrary 8-byte Numbers
 + Unique Only In The Target

Protocols Stop Using Identifiers as Globally Unique Addresses in the SCSI Domain



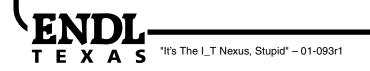
But If Identifiers Are Not Addresses Then What Are?

Names

Names Used to Effect Login

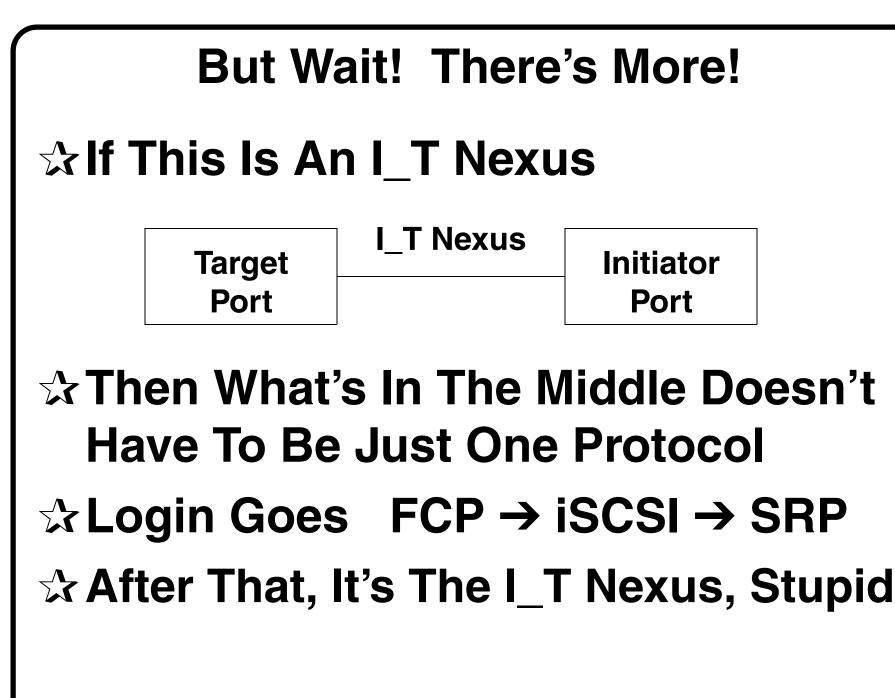
☆After Login

- *** Identifiers Function Like Today**
- *** Name Based Identifier Assignment**



Will It Work?

X Can't be sure Consistent with SRP and iSCSI ✓ SPI-4 *** Name = Identifier *** Arbitration = Login * the legacy case ✓ FCP-2 & SBP-2 * Login already exists *** [FCP-2] ADISC & PDISC support** Name Based Identifier Correlation





What About Bridging in the I_T Nexus?

- It's Possible
- → Definitions In Protocol Documents
- →Or, in Bridging Documents
 →SCSI Transport Protocol layer
- ☆ Bridging NOT Constrained By SAM

