

iSCSI Naming & Discovery

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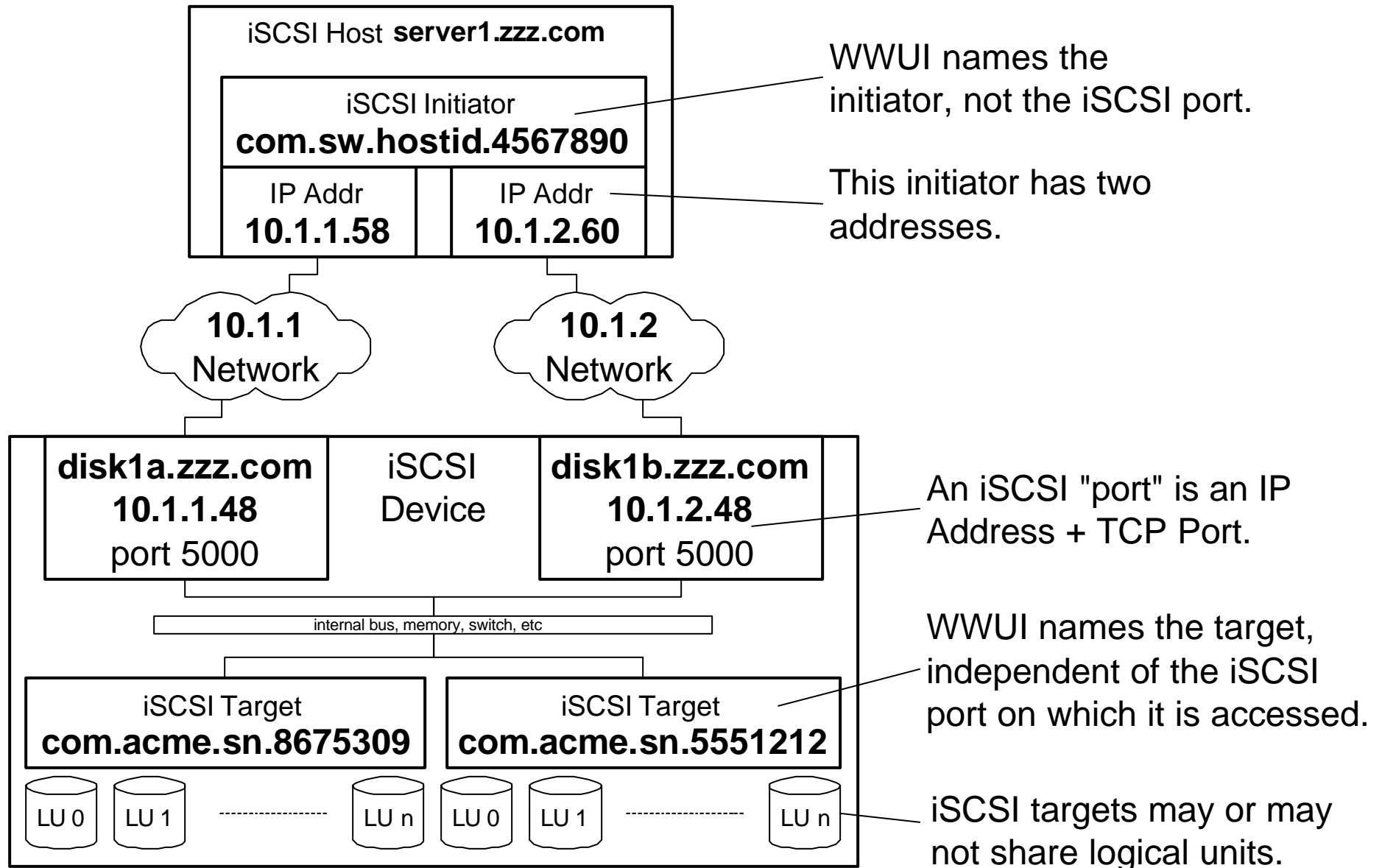
Status

- Key Decisions
 - Consistency with iSCSI, Boot and MIB drafts
 - Multicast discovery of targets, SNS uses SLP
- Milestones
 - WWUI complete; part of iSCSI login process
 - SendTargets and redirects integrated w/iSCSI
 - Name service and discovery requirements
 - Open questions from interim meeting resolved
 - NDT draft submitted as WG document

Naming and Addressing

- WWUI Satisfies URN Requirements
 - UTF-8 Format
 - WWUI Naming Authority Specified
 - WWUI Comparison Defined
 - URN Format Defined
- iSCSI URL (Address) Defined
 - Includes the WWUI
- Use (and non-use) of Alias Defined

iSCSI Names & Addresses



Discovery / SNS Requirements

- Discovery Domains
 - Constrain discovery to avoid scaling problems
- Access Control
 - Which initiators allowed to access each target
- Support iSCSI Object Model
- Authentication of SNS protocol messages
- Registration and Query
- State Change Notification

Discovery Approach

Deploy and interoperate in three stages:

1. Naming and Static Configuration
 - Configure both targets and initiators
 - Use SendTargets to reduce initiator config
2. SLP for simple discovery
 - Configure targets
3. iSNS for centralized management
 - Configure central iSNS server

Current Work Items

- Storage Name Services
- iSCSI and T10/SAM-2 Mapping
 - Mapping iSCSI and SCSI names, ports, etc
 - Mapping iSCSI sessions and SCSI nexus?
 - Third Party Addressing (T10 Issue)
 - Which entity gets the reservation?

Issues & Questions

- Naming and Discovery Issues
 - Integrating WWUI with authentication
 - Proxies and middle boxes
 - Ensure that beneficial ones work
 - Implementations needed for standardization?
- General Issues
 - Authenticate Network Entities vs. WWUIs
 - Authentication for Third Party Commands

Plan

- April-July
 - Revise Naming & Discovery Draft
 - Continue work on T10 items
- September
 - Submit Naming & Discovery to IESG

References

- iSCSI NDT Requirements
 - Draft-ietf-ips-iscsi-name-disc-00
- iSNS document
 - Draft-ietf-ips-isns-01
- URN document
 - Draft-bakke-iscsi-wwui-urn-00
- SLP document
 - Draft-bakke-iscsi-slp-00