

iSNS Internet Storage Name Service

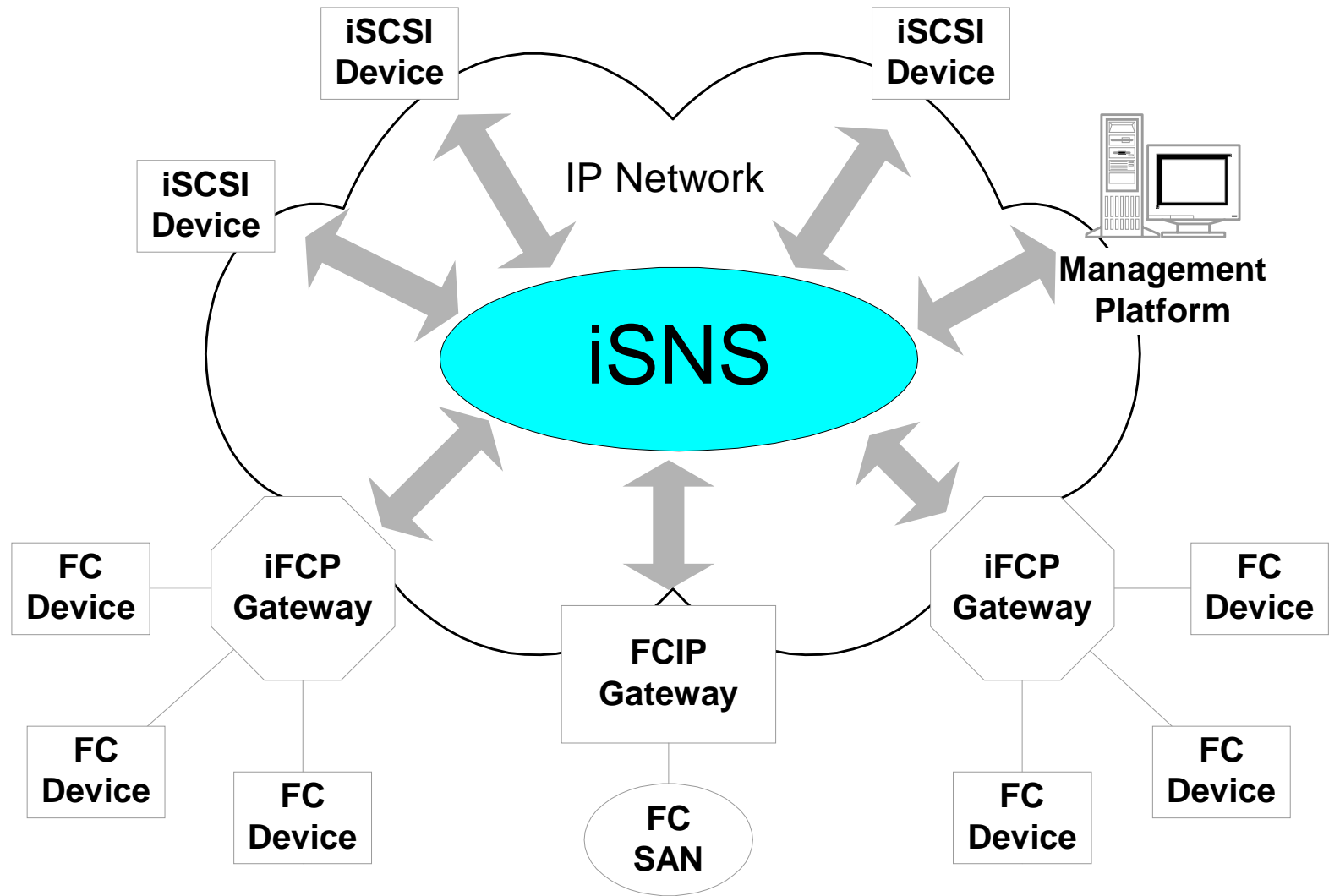
draft-tseng-isns-01.txt

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iSNS: What Does It Provide?

- Scalable information facility for registration, discovery and management of networked storage assets
- Unified Service Framework for Topology Discovery
 - iSCSI, iFCP, and extensible to FCIP and other IP storage protocols
 - Integrates with DNS infrastructure
- Zoning: iSNS maintains access control policy for registered targets and initiators
- Asynchronous notification of Zoning and Topology changes
- Lightweight protocol deployable in servers, switches, and targets

Unified Discovery & Management Framework



Why is iSNS Needed?

- Consolidate registration, discovery and management of storage assets
 - Simplify storage management implementation
 - Improve scalability compared to broadcast/multicast discovery methods
- Enable secure IP storage “Zoning” capability
 - Allow crypto key distribution for iSCSI login authentication
- Dynamic tunnel endpoint discovery (FCIP only)

Next Steps

- Draft found at:
 - www.ietf.org/internet-drafts/draft-tseng-ips-isns-01.txt
- Incorporate requirements and recommendations from iSCSI Naming and Discovery team
- Extend to include tunnel endpoint discovery for FCIP
- Evolve with iFCP specification

Action Request:

- Adopt iSNS as official IPS WG item