

NVMe mapping for SCSI Layout

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Using the SCSI layout with NVMe

- ❑ RFC 8154 *“Parallel NFS (pNFS) Small Computer System Interface (SCSI) Layout”* was released in May 2017
 - The functionality is explicitly tied into SCSI
- ❑ NVMe has all the required functionality to support the same functionality with the same on the wire protocol
 - The **NVM Express – SCSI Translation Reference** document translates the required features between NVMe and SCSI
 - But unfortunately this document is not up to IETF normative reference standards

Using the SCSI layout with NVMe status

- *“Using the Parallel NFS (pNFS) SCSI Layout with NVMe”* (**draft-hellwig-nfsv4-scsi-layout-nvme-03**)
 - First update after many years
 - Replaces references to the not up to the NVMe STLR document with its own normative language
 - Ready for working group adoption as a standards track document

Open Questions:

- ❑ Define new designator types for SCSI?
 - Pro:
 - Reduces device search scope on the client
 - Might reduce administrator confusion
 - Con:
 - Requires a wire protocol addition
- ❑ Define a new UUID designator type?
 - Pro:
 - Allows for (SCSI or NVMe) devices from vendors without an IEEE OUI
 - Con:
 - Requires a wire protocol addition

Questions?