

Using the Parallel NFS (pNFS) SCSI Layout with NVMe

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Intro

- ❑ 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
- ❑ This document specifies how to use the layout type defined in RFC 8154 with NVMe-based storage devices

Status

- Working group document now
 - ***draft-ietf-nfsv4-scsi-layout-nvme-02***
 - Moved to Standard track
 - Got a good detailed review from David Noveck

Open Items:

- ❑ The current name (*“Using the Parallel NFS (pNFS) SCSI Layout with NVMe”*) doesn’t seem to fit a standards track document.
- ❑ Proposals:
 - **Noveck:** *“Use of NVMe-based Transports to Access Block Devices using the SCSI Layout Type”*
 - **Hellwig:** *“Using the Parallel NFS (pNFS) SCSI Layout to access NVMe storage devices”*
 - **Black:** *“Using the Parallel NFS (pNFS) SCSI Layout to access NVMe storage”*
- ❑ The draft currently uses xml2rfc v1, which doesn’t support the <bcp14> tag.
 - Convert to either xml2rfc v2, or a markdown / RST based format

Questions?