Using the Parallel NFS (pNFS) SCSI Layout with NVMe

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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 documents 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?