

# **nfsv4wg Milestone Review**

**Dave Noveck**

**WG Meeting at IETF 102**

**July 16, 2018**

# Current Milestones

## Slide One of Two

Item	Type	Goal	Owner	Target	Status
Migration Issues	Inf.	WGLC	D. Noveck	6/2018	Expected by 8/2018.
NVMe for pNFS	Std.	Final Doc.	C. Hellwig	6/2018	NVMe Slides
NFSv4.0 Trunking Discovery	Std.	Final Doc.	C. Lever	11/2018	On Track.
NFSv4.1 Trunking Discovery	Std.	Final Doc.	D. Noveck	3/2019	On Track (as one document)
NFSv4.1 Transparent State Migration	Std.	Final Doc.	D. Noveck	3/2019	

# Current Milestones

## Slide Two of Two

Item	Type	Goal	Owner	Target	Status
CM Private Data	Inf.	Final Doc.	C. Lever	6/2019	On track (Need WG Doc by 12/2018)
RDMA Layout for pNFS	Std.	Final Doc.	C. Hellwig	9/2019	RDMA Layout Slides
RPC-over-RDMA, Version 2	Std.	Final Doc.	C. Lever	12/2019	On Track (Need WG Doc by 3/2019)

# Potential Added Milestones

## With Target Dates Before 8/2020 (Two-year window)

- Needed:
  - An owner
  - A target date
  - A preliminary document (can be an I-D).
  - Working group interest
- Some possibilities:
  - Draft-ietf-nfsv4-integrity-measurement
  - Other descendants of draft-cel-nfsv4-linux-seclabel-xtensions?
  - Descendant(s) of draft-haynes-nfsv4-delstid?
  - Flexible files v2?
  - Does anyone know of others?

# NVMe for pNFS

## Current Status, Expectations, and Work Needed

- Current status:
  - Existing I-D expired with no progress beyond what was discussed at IETF 99.
  - Current target date has gone by.
- Expectations for progress:
  - Author appears interested in working on this. ↑
  - Author has not provided a new target date. ↓
- Work needed on document:
  - Implement changes discussed at IETF 99.
  - Convert to working group document
  - Working group review and discussion, including WGLC

# NVMe for pNFS

## Possible Actions

- Possible actions regarding current milestone:
  - Remove from milestone list.
  - Leave on list with a TBD date until author can provide one.
- Other possible actions in this area:
  - Consider whether a more limited, easily achievable milestone (e.g. an informational document) could be put on milestone list.
  - See if it is possible to accelerate progress, adding an editor or co-authors to the effort.

# pNFS RDMA Layout

## Current Status and Expectations

- Current Status
  - No active document (either I-D or WG document)
  - There has been some prototyping work based on the original expired document.
- Expectations for progress
  - Prototype work has raised additional issues that may need to be addressed in this document. ↓
  - Author still interested in working in this area. ↑
  - Existing target date (9/2019) for final document submission still in effect ↔ .
  - Need to consider how realistic that date is (see [Next Slide](#))
  - Needed work on NVMe document is a potential complicating factor. ↓

# pNFS RDMA Layout

## Issues/Actions Regarding Milestone Target Date

- Need to consider plausibility of current target date, in light of:
  - Lack of progress since IETF 99.
  - Author's lack of communication with the working group.
- Need to determine work needed for completion and assess:
  - Whether work was at such an early stage that assigning milestones was done in a vacuum, over-optimistically.
  - Whether we know enough to assign a new milestone target date now.
  - Whether we can arrive at a new target date that fits within our two-year window.
- Possible actions regarding milestone list:
  - Remove from milestone list (with continued WG interest)
  - Retarget document to a later date, if one can be arrived at



# pNFS RDMA Layout

## Other Actions to Consider

- Look at other ways to get progress in this area:
  - Is there interest in a more general document in this area, such as a requirements document?
  - Could additional authors help make progress?
  - Are there useful ways to encourage further prototyping?
- May need to have further working group discussion of this area:
  - Need to assess level of working group interest.
  - Discussion of our options regarding work on this layout type.
  - Might require something beyond email discussion, either at IETF 103, an interim meeting, or a conference call.