MPI 4.2 Procedures and Logistics

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MPI 4.2 Timeline

~~September 2024 - Final Readings~~

December 2024 - Final 1st Votes

January 8, 2025 - Final 2nd/Errata Votes

- Virtual

March 3 - 6, 2025 - Release Candidate Meeting (RCM)

- In Person/Hybrid (HLRS)

June 4 - 6, 2025 - Final Ratification Meeting (FRM)

- Virtual

Timeline Between Now and MPI 4.2

- Finish the first votes
- Finish the second votes
- Make last chapter committee changes
- Publish RC document
- Review document
- Ratify document
- Elect new officers

| Jan 2025 Meeting | March (RCM) Meeting | June (FRM) Meeting |

Before the December 2024 Meeting

- Authors finalize tickets for MPI 4.2 changes
- Chapter committees complete changes tagged for MPI 4.2
  - https://github.com/orgs/mpi-forum/projects/6

During the January 2025 Meeting

- Authors:
  - Finish anything that needs votes for MPI 4.2 (2nd votes and errata)
- All:
  - Agree on remaining work for MPI 4.2

January 9 - January 27

- Chapter Committee Chairs (and committees)
  - Propose, get reviewed, and merge last minute changes to respective chapters

January 28 - February 3

- Document Editor
  - Publish a Release Candidate Draft for MPI 4.2
  - Create an MPI 4.2 "draft" branch in the repository where unmerged changes can be combined for the purpose of generating a document for the RCM.

February 3 - 28

- Chapter Committee Chairs (with committee's help):
  - At the RCM, each chair goes through their respective chapters and itemizes the changes since MPI 4.1.
    - Check out the latest version of the draft branch and run this:
      - `git diff mpi-4.1`
    - Other options:
      - https://www.diffchecker.com/pdf-compare
      - https://www.draftable.com/compare
      - Probably should build individual chapter PDFs to minimize compute time
  - Put together "reading" for chapter(s) to convey the list of all changes.
    - Could use marked up PDF, slides, etc.
    - Make sure to check all changes, not just the ones you *expect* to be there.
  - Itemize a list of things that need to be done to have the chapter be ready for a final version.
  - Work on resolving the list of changes (if any) via PRs against the draft branch.

February 3 - 28

- All MPI Forum Members:
  - Review the entire Release Candidate Draft
    - Wes will produce a spreadsheet with the entire MPI Standard chunked into pieces.
    - Everyone who has attended 3 of the previous 5 (and any other volunteers) will be assigned a chunk of pages to review.
      - That works out to about 28 pages per-person (about 42 people).
        - We need everyone's help here. Please do your homework.
        - List of authors, orgs, and reviewers if the list were generated today.
    - When each person finishes their section, provide feedback in the Google Form (will be emailed to you).
  - Each person should look for:
    - Formatting and whitespace problems, spelling errors, and other typos.
    - Logical inconsistencies in the overall document, or problems with approved changes.

At the RCM (March 3 - 7)

- Chapter Committee Chairs:
  - Chapter committee chairs "read" their chapters to have the forum confirm that all changes are correct.
  - Chapter committee chairs present a list of:
    - Unresolved issues found in implementing the approved changes
    - Technical issues found with the chapter
    - Changes made since the beginning of the RCM

At the RCM (March 3 - 7)

- MPI Forum Chair:
  - Present the compiled list of changes since the Release Candidate Document was published that have been made and will be made before completing MPI 4.2

At the RCM (March 3 - 7)

- MPI Forum Secretary:
  - Conduct a ballot on ratifying the entire Release Candidate Draft including the two lists of changes presented earlier.
    - If this fails, do everything again for the next meeting.

At the RCM (March 3 - 7)

- MPI Forum Chair:
  - Call for nominations for new offices for the next version of the MPI Standard.
    - Chair, Secretary, Treasurer, MPI Standard Document Editor
  - Nominations should occur either during the meeting or on the MPI Forum mailing list.

March 8 - April 21 (Dates Tentative)

- Resolve all remaining open issues from the previous lists.
  - Work with Bill to merge any changes (**prior to errata vote** at the FRM).
- All PRs need to be posted by April 21 to give time for Bill to review and merge them.

May 5 (Dates Tentative)

- MPI Standard Document Editor
  - Publish a new Release Candidate Document
    - Anything that was officially voted in at the previous meeting goes into the mpi-4.x branch.
    - Anything that still needs a vote goes into the mpi-42-rc branch.
    - The mpi-42-rc branch should be based on (or merged with) the mpi-4.x branch.

May 19 (Dates Tentative)

- MPI Forum Chair
  - MPI Forum officer nominations close

				March (RCM) Meeting		June (FRM) Meeting
	Jan 2025 Meeting					

At the FRM (June 2 - 5) (Dates Tentative)

- MPI Forum Secretary
  - Conduct a ballot for each change that happened between the RCM and FRM that **was** on the previously published list.
    - This follows **"errata"** rules and anything that fails will need to be reverted.
  - Conduct a ballot for each change that happened between the RCM and FRM that was **not** on the previously published list.
    - This follows the **"no-no"** rules and anything that fails will need to be reverted.

At the FRM (June 2 - 5) (Dates Tentative)

- MPI Forum Chair
  - Compile a list of all still-unresolved issues that could be fixed before releasing MPI 4.2.

At the FRM (June 2 - 5) (Dates Tentative)

- MPI Forum Secretary
  - If there is anything left on the chair's list, on a different date than the previous ballots, hold another ballot about whether to delay ratification.
    - If this passes, repeat the FRM at the next meeting.
  - Conduct a ballot on whether to ratify the entire document
    - If this passes, Bill publishes the final version of MPI 4.2 to the MPI Forum website.
    - If this fails, start back at the beginning of this slide deck.

Jan 2025 Meeting > March (RCM) Meeting > June (FRM) Meeting

At the FRM (June 2 - 5) (Dates Tentative)

- MPI Forum Secretary
  - Conduct ballots for the MPI Forum Officers
    - Following the procedures in the procedures document (i.e., continue ballots until some candidate for each office has a majority of non-abstain votes).
  - New officers begin their term and work with the old officers to transfer knowledge, state secrets, executive washroom keys, etc.