



ECP Community BOF Days: Updates and Roadmap for the PMIx Community

You can find these slides on the wiki:

<https://github.com/pmix/pmix-standard/wiki#events>

Kathryn Mohror (LLNL)
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Joshua Hursey (IBM)

Slack:

[#events](https://pmix-workspace.slack.com)

<https://github.com/pmix/pmix-standard>
<https://github.com/pmix/governance>



Introduction & PMIx Overview

Agenda & Logistics

- **Agenda**

- (10 min) Introduction & PMIx Overview
- (25 min) PMIx Standard Working Groups
- (40 min) PMIx Users from the ECP Community
- (15 min) Panel Q&A and Open Discussion

- **Logistics**

- Please Mute yourself when not speaking
- Use the Zoom Chat for Questions/Comments
- Engage with the community on Slack and the mailing list

Slack:

[#events](https://pmix-workspace.slack.com)

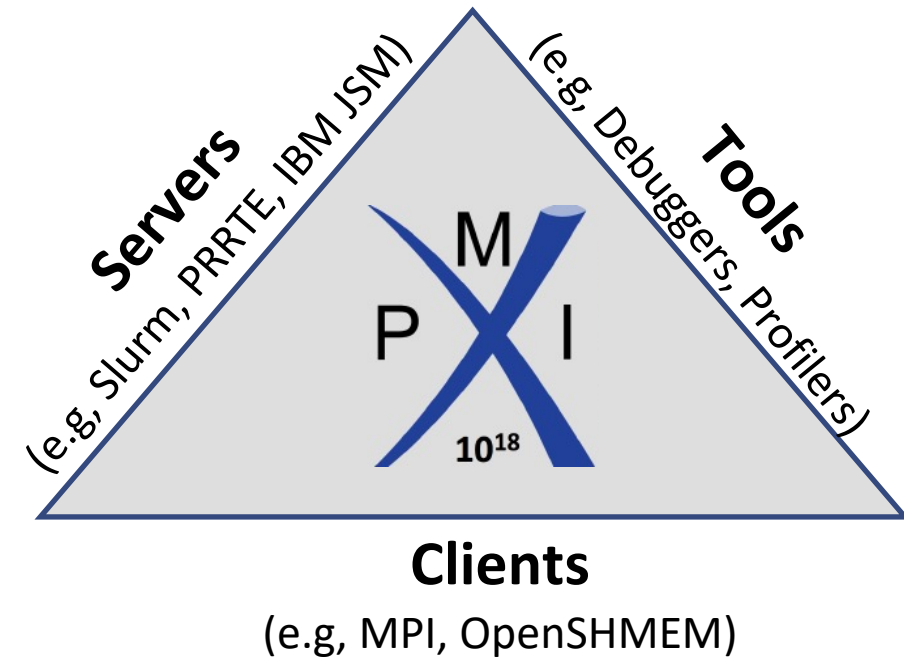
Mailing List:

<https://groups.google.com/g/pmix-forum>

What is PMIx?

PMIx is a standard API providing libraries and programming models with portable and well-defined access to commonly available system services.

- PMIx is a messenger between these pieces of software, not a doer.
 - Facilitates the interaction between applications, tools, runtime environments.
- Open, community driven standard.
- Use cases: (summarized list)
 - **Process wire-up** via either business card exchange or “instant on” (where supported)
 - **Tool connections** including debugger support
 - **Event notification** used by fault tolerant libraries
 - Application/Job/Node **environment discovery**
 - Job scheduler interaction



PMIx Administrative Steering Committee (ASC)

The open governance body for the PMIx Standard with broad representation.

- Mission:

- Define the mission of the PMIx Standard
- Plan release timelines for versions of the PMIx Standard
- Assemble working groups for areas of interest
- Vote on all issues (1 vote per Member organization)
- Vote on ASC leadership positions

- Meetings:

- Quarterly ASC meetings to vote on items that move the PMIx Standard forward.
 - One quarter per year may be face-to-face.
- Regular PMIx Standard teleconference to drive progress between quarterly meetings.
- Working Group meetings to drive specific areas of interest and need.



How to get involved?

Check out the latest [PMIx Standard v4.0](#)

Talk to PMIx Users!

Join a [Working Group](#)

Ask Questions on the [PMIx Forum Mailing List](#)

Start a discussion on [Slack](#)

Review [Proposed Changes](#) to the PMIx Standard

Present a Technical or User Talk at an ASC Meeting

Join a PMIx ASC [Monthly Meeting](#)

Post a [Discussion Topic or Use Case](#)

Ask Implementation Questions on the [OpenPMIx Mailing List](#)

Join a PMIx ASC [Quarterly Meeting](#)

Checkout the [OpenPMIx Library Project](#)

Checkout the [PRRTE Runtime Project](#)



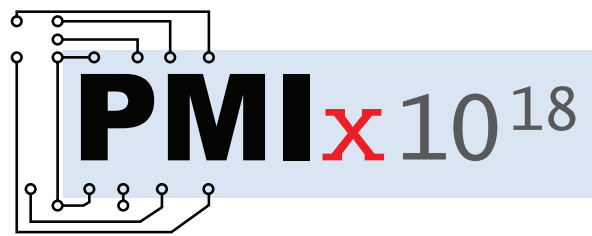
PMIx Standard Working Groups

PMIx Standard Working Groups

- **Client Separation / Implementation Agnostic Document**
 - David Solt (IBM)
- **Slicing/Grouping of Functionality**
 - Stephen Herbein (LLNL)
- **Dynamic Workflows**
 - Jai Dayal (Intel)
 - Kshitij Mehta (ORNL)
- **Storage**
 - Shane Snyder (Argonne Nat. Lab.)
- **Tools**
 - Isaias Compres (TU Munich)

Working Groups:

<https://github.com/pmix/pmix-standard/wiki>



PMIx Users from the ECP Community

PMIx Users from the ECP Community

- **Cheetah/Savanna**
 - Kshitij Mehta (ORNL)
- **Mochi**
 - Shane Snyder (Argonne Nat. Lab.)
- **MPICH**
 - Ken Raffenetti (Argonne Nat. Lab.)
- **OpenSHMEM**
 - Thomas Naughton (ORNL)
- **User Level Failure Mitigation (ULFM) in Open MPI**
 - Aurelien Bouteiller (UTK)
- **UnifyFS**
 - Michael Brim (ORNL)



Panel Question & Answer Open Discussion



Thank you for participating today!

Next ASC Monthly Teleconf:
Thurs., April 8, 2021

<https://github.com/pmix/pmix-standard>
<https://github.com/pmix/governance>

Next ASC Quarterly Meeting:
Tues., May 11 & Thurs., May 13

Mailing List: <https://groups.google.com/g/pmix-forum>
Slack: <https://pmix-workspace.slack.com>