

Remember: Agenda must be complete (with estimated times) on the day before the meeting.
Any additions after that must go at the bottom (AOCB)

>>> 16th January

Dundee: Helen, Kenny, Will, Mark, June, Dom, Petr, Simon, Roger, Riad, Emil, Balaji,
Remote: Seb, Jean-Marie, Josh, Wilma, David, Mark, Andreas, Chris, Melissa
Start: 2:00 pm

1. Accepting minutes from [last meeting](#)

2. Project Status

(2-3 minutes each)

- “Now”
 - Robot in devspace. Looking at improving speed and stabilizing tests
 - Looked at running them in parallel ([pabot](#)). New library (0.4)
 - Down to 4 failures on Firefox. Close to stability
 - Working on [Facility Manager workflow](#) for next training (end of January)
 - Preparing for Trends in Microscopy (March)
 - Figure release later this month. Working on final PRs and Help docs
 - Polygon support not in this release.
 - Kubernetes presentation. Simon, 6th Feb.
 - Assume knowledge of Docker & Docker-compose
 - Set aside time to consolidate Docker & other training
 - Chris: looking for potential dates for microservices training
- “Next”
 - ROI/HDF5 (PRs & Grants)
 - Update on 5.4.2 timeline
 - Targeting release for Tuesday
 - Docs
 - Code
 - (Apps?)
 - Etc.
 - Any final changes to get in?
 - Last PRs on Thursday
 - Public user testing
 - Enable public user temporarily on web-dev-merge
 - Need a way to test other server configs
 - Read-only work - to mainline OR IDR branch
 - Currently captured in <https://trello.com/b/Z3y5ty8o/idr-050>
 - Likely 5.4.3 (maybe 5.4.4) by Users’ meeting.
 - Roger - HDF data from ROIs in sample files.
 - Ready to try import these into OMERO
- Glencoe (Chris):
 - Changing process wrt Bio-Formats in particular
 - Will try to open all PRs initially against opensource Bio-Formats github
 - Adding some formats in the near future
 - Want to test against next major version etc.

- Try same approach with OMERO too.
 - Features related to scripts and scripts UI
 - More new hires involved
 - Run scripts in parallel, show progress/feedback to user etc.
 - Use as much real test data as possible
- Microservices- rendering regions. Improving scalability
- Community
 - IDR Next Release (Seb)
 - 0.4.5 planned for February - 2 new Datasets.
 - Create new production server and start import soon
 - Need to update/fix all notebooks
 - Mid-term future - moving to OMERO 5.4.x
 - Need to improve tracking of data submission requests.
 - Looking at redmine as an option to manage these
 - Meltdown/Spectre (Josh)
 - Send out response? Chris: no big gain in recycling existing security advisories.
 - Patching our systems is in progress (completion needs scheduling)
 - Restart devspace to update

3. AOB

(5 min. max; tech. Discussion should be highlighted to relevant people and rescheduled)

- Breaking jobs & devspaces
 - Ci cleanup. Remove breaking jobs (been disabled for a while now)
 - Now: Define branches for large feature development and use devspace for testing
 - Mark: will anything test DB upgrade paths?
 - Seb: no - this will still need to be a manual setup
 - JM: ported Training testing to devspace - except Matlab
 - Simon: testing DB upgrade is similar to testing server config (above).
- Kenny: taking DB dumps etc from old nightshade2 and rsync to squig.
- June: Should be able to confirm user meeting dates next week

4. Main Topic

(20-25 minutes plus 15 minutes questions max)

- [Binary Vessels](#) (Seb)
- Recent discussions on team priorities...
- 3 main areas of work: OMERO ecosystem, scaling IDR and Binary vessels
- Current state (of the art):
 - OME-TIFF - tiff files with ome.xml file for metadata etc
 - BigDataViewer (BDV) - HDF5 file with bdv.xml
- BDV is efficient for pixel storage, multi-dimensional etc
- But, BDV is not versioned, no upgrade path, limited metadata support
- Combine best features from OME-TIFF and BDV.
- Requirements:
 - Target Users' meeting 2018
 - Supported components(core)
 - Containers: TIFF, H5, KLB
 - Codecs
 - Workflows

- Reading BDV v1 filesets
 - Reading writing OME-BDV v2 filesets
 - Clients (ImageJ/BDV stack, OMERO?)
 - Implementation languages - Java, C++?
- Tech choices:
 - OME Data Model / spec
 - Add BDV xml elements
 - OME Pixels elements - deprecate vs upgrade
 - Subresolutions handling [design #74](#)
 - Container formats
 - Reader/writer API
 - Binary data access: plates -> blocks
 - OME-XML code generation (Metadatastore API)
 - Codecs: detection/extensibility
 - Thread-safety
 - Next steps
- What about Bio-Formats?
 - B-F 5.7.3
 - Included in OMERO 5.4.2
 - Moving towards B-F 5.8.0
 - New format readers (Glencoe software)
 - Community contributions
 - Beyond 5.8.0
 - Releases as needed
 - Open-source team - no planned work, maintenance/support
- Mark: What about ROI storage?
- Seb: masks stored as for images
 - But ROI storage is not a priority, given size of other tasks.