Directory Structure

as seen from a machine at the beamline

beamline file-system

```
/gpfs/
 local
 current
 |    raw
 |    processed
 |    shared
 |    scratch_bl
 commissioning
      raw
      processed
      shared
      scratch_bl

/common/
 <beamline>

/bl_documents
```

as seen from maxwell

core file-system

```
/asap3/
 <facility>
    gpfs
       <beamline>
          |          <year>
          |              data
          |    |    <beamtime-ID>
          |    |      raw
          |    |      processed
          |    |      shared
          |    |      scratch_cc
          |              commissioning
          |          <commissioning-tag>
          |          |   raw
          |              processed
          |              shared
          |              scratch_cc
       common
          <beamline>
```

Description

- 'local':
    - A **3 TiB** local share of the beamline file-system which stays there independently of the beamtimes
    - It is managed by the beamlines themselves
    - There is no syncing across to the core file-system.
    - It serves as a local buffer.
    - Anybody on the beamline can read/write from/to it
    - Cannot be accessed from the core file-system
- 'current':
    - Non-permanent share from the beamline file-system
    - It will appear when a beamtime is started and disappear if it is stopped
    - Meaning of the different directories:

        - raw:
            - For raw data
            - will be
                - migrated into the core file-system
                - written to tape
                - shown in the Gamma-portal
        - processed
            - For meaningful processed data
            - will be
                - migrated into the core file-system
                - written to tape
                - shown in the Gamma-portal
        - shared
            - For user specific macros, scripts, metadata, text-files,...
            - will be
                - migrated into the core file-system
                - written to tape
                - shown in the Gamma-portal
        - scratch
            - Meant for
                - temporarily data
                - data it is not known in advance if is meaningful or not. That data can be written here and if its meaningful copied into 'processed' afterwards.

Description

- Access only with a valid DESY or Science Account
- '<facility>'
    - Determines the facility, where the data has been acquired
    - Supported facilities
        - **petra3**
        - **flash**
        - **spec.instruments**
    - The remaining directory structure is identical between both facilities

- will not be migrated into the core file-system
- 'commissioning'
  - Same as 'current' but for commissioning runs
  - Commissioning runs are limited to a **1 TiB** hard quota
- 'common':
  - Mounted read-only in the beamline space
  - Its world-readable meaning that all beamlines can read it
  - Meant for documentation, macros, ... provided to the users by the beamline staff
  - If users has to edit something, like a macro, they can copy it into 'shared'
  - Can be changed from the core side by the beamline staff
- bl_documents:
  - Mounted read-write in the beamline space with **1TiB** hard quota per beamline
  - only the beamline specific part is mounted
  - stays there independent of the beam times
  - has 2 snapshots daily, 28 (4 weeks) are kept.
  - For scripts and documentation
  - Is not visible from Maxwell and will remain so