# 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
```

## 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.

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

- 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**
    - **fs-ds-agipd**
    - **fs-ds-percival**
    - **fs-flash-b**
    - **fs-flash-o**
  - The remaining directory structure is identical between all facilities
  - the scratch_cc (scratch space for computer centre) will never be transferred to the archive, that means that if a beam times data are taken offline (removed from gpfs) the scratch_cc folder is irretrievably lost.

        - 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