

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**
 - **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