Data Management

Data storage

All types of data (raw, reco, analysis) should be stored in CASTOR (see more instructions). TOTEM's base directory is `/castor/cern.ch/totem/`. For each data type, there is a dedicated directory:

- **raw**  `/castor/cern.ch/totem/LHCRawData/`
- **reco** `/castor/cern.ch/totem/offline/Reco/`
- **analysis** `/castor/cern.ch/totem/offline/Analysis`

For short term work, there is a temporary AFS space allocated at `/afs/cern.ch/exp/totem/scratch`. The structure is similar to the one of CASTOR space:

- **raw**  `/afs/cern.ch/exp/totem/scratch/data`
- **reco** `/afs/cern.ch/exp/totem/scratch/offline/Reco/`
- **analysis** `/afs/cern.ch/exp/totem/scratch/offline/Analysis`

For both, CASTOR and AFS spaces, the subsequent directory structure shall be `year/subsystem`. The `year` obviously is like `2010`, the `subsystem` may be one of these:

- RP, RPT2, T1, T2

Conditions data storage

For RP positions, BLM and BPM data, etc. there is a temporary storage space allocated on AFS

`/afs/cern.ch/exp/totem/scratch/data/RP/<date>/conditions`

Eventually, these data shall be saved on CASTOR

`/castor/cern.ch/totem/LHCRawData/year/ConditionsData/<date>`

`year` is for example `2010`, `date` is the data-taking date in format `yyyy_mm_dd`. If the data-taking spanned over two calendar days, use e.g. `2010_08_04-05`. If there are several data-takings within the same days, use `_1, _2, ...` suffixes.

Alignment data

Alignment data can be found in

`/afs/cern.ch/exp/totem/scratch/data/RP/<date>/alignment`

There are usually several subdirectories with different versions of the alignment. Each directory shall contain a description file that gives information how the alignment has been obtained.

-- JanKaspar - 21-Jul-2010