

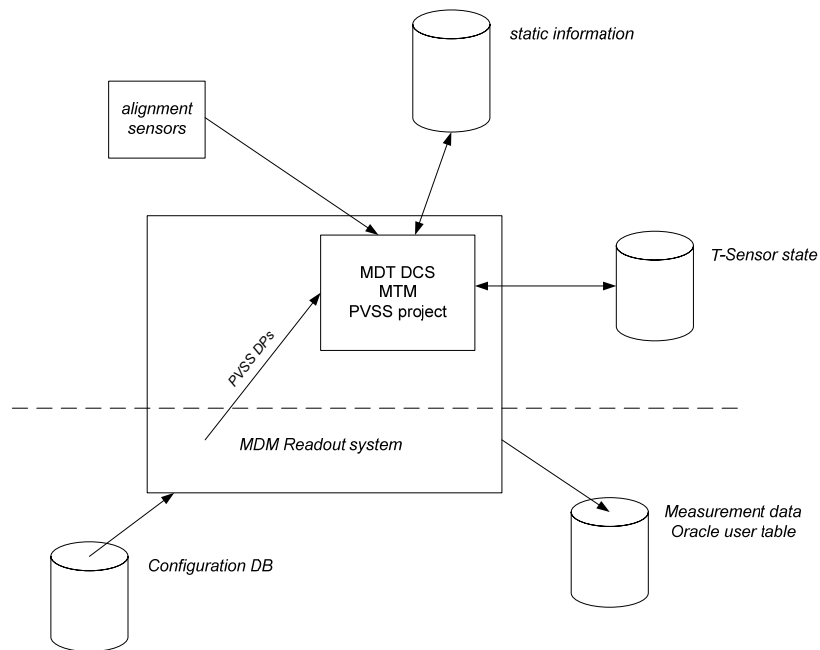
MDT DCS Muon Temperature Monitoring part

Data exchange

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The following pictogram gives an overview of the data exchanges in the MTM project.



Raw data

Raw data is received from MDM using datapoints. Received data follows the hardware system granularity (Channels, PCM, ...). Currently it is unclear how the T-Sensor data from the alignment system will be accessed.

- T-Sensor values
- T-Sensor data from the B-Field sensors
- T-Sensor data from the alignment system

Static information:

Data which is related to hardware (wiring, positioning). Changes are rare, updates involve human decision/action.

Read access required:

- Global (ATLAS) coordinates of T-Sensors (including orientation)
- Local (chamber) coordinates of T-Sensors
- Chamber dimensions (sizes)
- Number of T-Sensors on a chamber
- Calibration constants of T-Sensors
- Mapping information (DCS channel connectivity)

Read/Write access required:

- Masking information (for masking long-term non-working sensors)

Output:

The project will create a list containing the state of the T-Sensors and store it in a database.

Read/Write access required:

- Error Flags Contains the state and functionality of T-Sensors