



OPC UA based user data interface at ELBE

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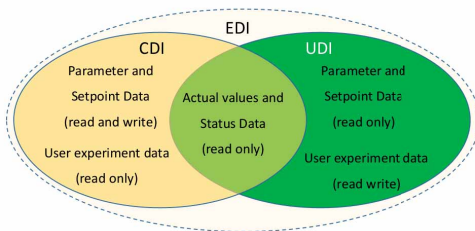
ELBE – Live Data Access via OPC UA

ELBE Data Interface (EDI)

- OPC UA based retrofit solution with scalable security (not a new control system)
- access to selected ELBE machine data for „script control“ and slow control applications (update rate 1-10 Hz)
- data availability from C/C++, Python, LabVIEW, ... on multiple platforms (Linux, macOS, Windows ...)
- Status: infrastructure set up and working, stepwise testing and extension of available data set

CDI

- available within ELBE network only
- Read and write access to ELBE machine data like magnet currents, RF gradients and phases, beam position
- access control and monitoring via ELBE WinCC



UDI

- available within FZR network
- Read ELBE machine data
- Supply selected user experiment data like countrates

EDI – ELBE Data Interface
UDI – User Data Interface
CDI – Control Data Interface

EDI – Realisation Scheme

