

DMP Implementation Status of IPP

2023-05-05

IMAS installation

On the TOK cluster (i.e. linux systems hosted by MPCDF)

- IMAS/3.24.0-4.2.0
- IMAS/3.25.0-4.4.0
- IMAS/3.30.0-4.8.4
- IMAS/3.32.1-4.9.1
- IMAS/3.34.0-4.10.1
- IMAS/3.35.0-4.10.0
- IMAS/3.36.0-4.10.0
- idstools/1.2.3
- idstools/1.5.1
- UDA/2.5.1

Would like to get a recommendation of which version to install, and which tools

trview

- Tool already used to prepare inputs for core simulations
- Outputs IDS's
- Should be run at IPP
- Output IDS's could be copied to Gateway or
 - (future) made available via UDA server providing access to IDS's (no mappings needed)
 - What security model will UDA support?

SUMMARY IDS

- Have a tool to prepare SUMMARY IDS's (mdsplus, ascii, hdf5, csv)
- Should discuss
 - Which additional fields would be desired?
 - What timebase do we want?

On a longer time-scale

- Based on the requests from stakeholders, explore mappings to lower level data
 - Have the data mappings from Rui as a starting point
 - Will need to engage with experimentalists
 - Also would like to engage with the ITER-IDA activity
- “Discussion accelerating scenario B (FSD request)”
 - Had difficulty in finding additional people from IPP to answer the DMP Call – not sure if things will be better for a new Call
 - Need to have a good idea what the community needs are
 - Need to have a much better idea about how to setup UDA mappings, and its capability to perform simple calculations
 - Precalculate core_profiles by running trview (or equivalent)
 - Trigger trview (or equivalent) by the UDA server running at IPP
 - For equilibrium, different runs for different equilibrium codes?

Needs from central team

- Requirements for hosting UDA server?
- How will we manage
 - Authentication?
 - Authorization?