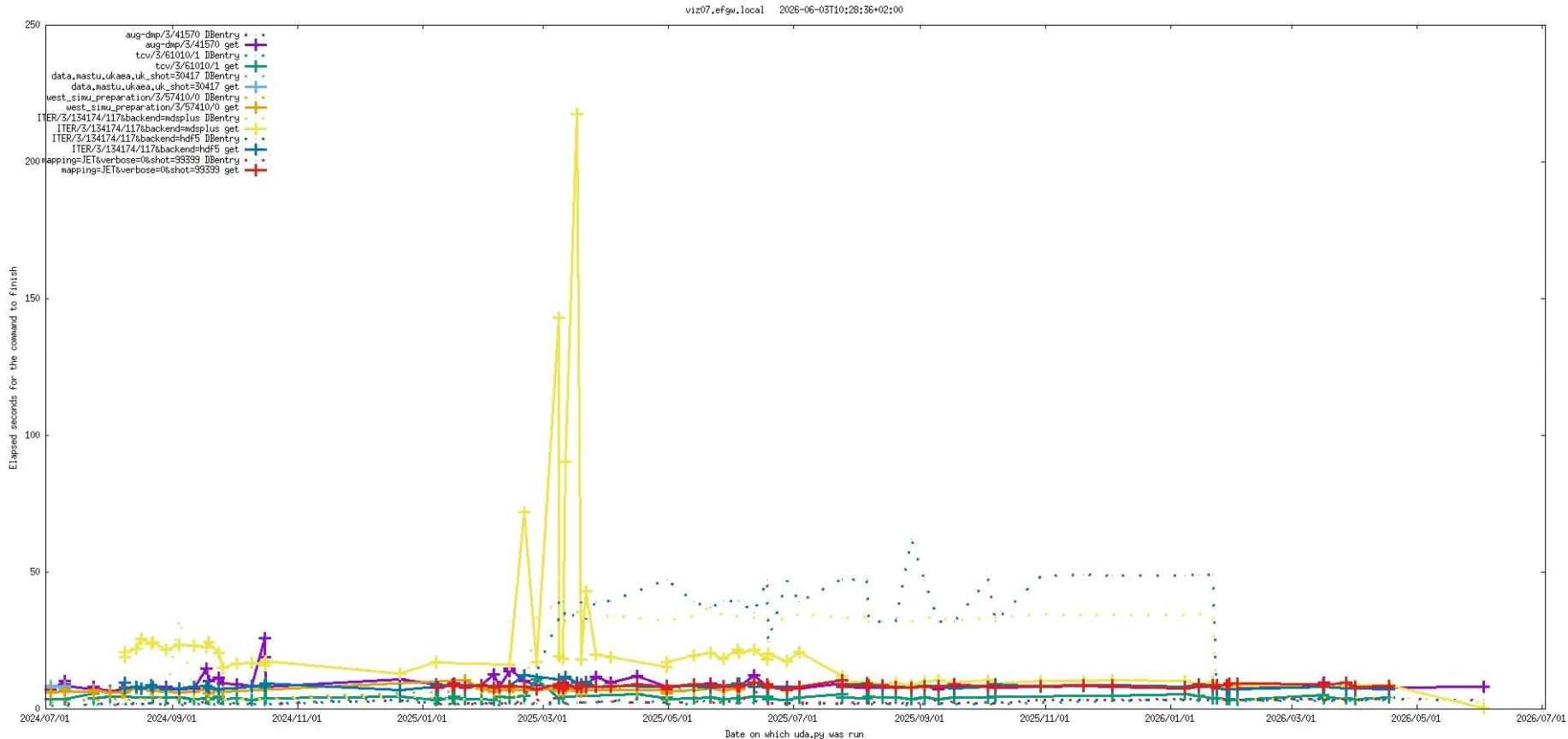


DMP Implementation Status of IPP

2025-06-03

Data access times: run on Gateway



Notes:

- ITER read time for mdsplus has dropped dramatically
 - 'imas://uda.iter.org:56565/uda?path=/work/imas/shared/imasdb/ITER/3/134174/117&backend=mdsplus'
 - idslst -u
'imas://uda.iter.org:56565/uda?path=/work/imas/shared/imasdb/ITER/3/134174/117&backend=mdsplus'
 - dataset_description: ? slices: time independent IDS
 - divertors : 1 slices: [0.]
 - edge_profiles : 1 slices: [0.]
 - edge_sources : 1 slices: [0.]
 - edge_transport : 1 slices: [0.]
 - radiation : 1 slices: [0.]
 - summary : 1 slices: [0.]
 - idslst -u "imas:mdsplus?user=public;pulse=134174;run=117;database=ITER;version=3"
 - core_profiles : 106 slices: [10.6 10.6 10.6 ... 75. 75. 75.]
 - core_sources : 106 slices: [10.6 10.6 10.6 ... 75. 75. 75.]
 - core_transport : 106 slices: [10.6 10.6 10.6 ... 75. 75. 75.]
 - edge_profiles : 650 slices: [10.1 10.2 10.3 ... 74.8 74.9 75.]
 - edge_sources : 650 slices: [10.1 10.2 10.3 ... 74.8 74.9 75.]
 - edge_transport : 650 slices: [10.1 10.2 10.3 ... 74.8 74.9 75.]
 - equilibrium : 106 slices: [1.2 1.5 1.8 ... 146.44 147.94 149.44]
 - summary : 106 slices: [10.3 10.3 10.3 ... 75. 75. 75.]
 - The second was copied from ITER – and ITER seems to have changed the data

Notes:

- ITER read for hdf5 has failed
 - 'imas://uda.iter.org:56565/uda?path=/work/imas/shared/imasdb/ITER/3/134174/117&backend=mdsplus'
 - idslist -u
'imas://uda.iter.org:56565/uda?path=/work/imas/shared/imasdb/ITER/3/134174/117&backend=hdf5'
 - ERROR:root:b'al_begin_dataentry_action: [ALBackendException = HDF5 master file not found: /work/imas/shared/imasdb/ITER/3/134174/117/master.h5]'
 - idslist -u "imas:hdf5?user=public;pulse=134174;run=117;database=ITER;version=3"
 - core_profiles : 106 slices: [10.6 10.6 10.6 ... 75. 75. 75.]
 - core_sources : 106 slices: [10.6 10.6 10.6 ... 75. 75. 75.]
 - core_transport : 106 slices: [10.6 10.6 10.6 ... 75. 75. 75.]
 - edge_profiles : 650 slices: [10.1 10.2 10.3 ... 74.8 74.9 75.]
 - edge_sources : 650 slices: [10.1 10.2 10.3 ... 74.8 74.9 75.]
 - edge_transport : 650 slices: [10.1 10.2 10.3 ... 74.8 74.9 75.]
 - equilibrium : 106 slices: [1.2 1.5 1.8 ... 146.44 147.94 149.44]
 - summary : 106 slices: [10.3 10.3 10.3 ... 75. 75. 75.]
 - The second was copied from ITER – and ITER seems to have removed the data

Notes:

- Previously available data for JET no longer available
 - 2026-04-17_12:38:49
imas://uda.jetdata.eu:56565/uda?mapping=JET&verbose=0&shot=99399&batch_size=20
3.494 8.280 0.036
- Previously available data for SPC no longer available
 - 2026-04-17_12:38:49
imas://spcimasdata.epfl.ch:443/uda?path=/data/imas/public/imasdb/tcv/3/61010/1/&backend=mdsplus 3.049 4.122 0.016
 - 2026-04-17_12:38:49
imas://spcimasdata.epfl.ch:443/uda?path=/data/imas/public/imasdb/tcv/3/68340/2/&backend=mdsplus 3.775 4.062 0.016
- Continued unavailability of data from MAST and WEST
 - 'imas://data.mastu.ukaea.uk:56560/uda?mapping=MAST&verbose=0&shot=30417&batch_size=20'
 - 'imas://irfm-uda.partenaires.cea.fr:8083/uda?path=/lmas_public/imas_simulation/public/imasdb/west_simu_preparation/3/57410/0&backend=hdf5'

Notes:

- DMP Wiki
 - MAST
 -
 - AL-5.0.0 DD-3.39.1 (currently only supported for this DD version, mapping files created for 3.39.1)
 -
 - Tested on SDCC but should work on the gateway
 -
 - module load IMAS/3.39.0-5.0.0-foss-2022b
 -
 - uri = 'imas://data.mastu.ukaea.uk:56560/uda?mapping=MAST&path=/&verbose=0&shot=30417&batch_size=20'
 -
 - IDS: 'summary'
 -
 - *Warning other shots may fail....
- idslist -u
'imas://data.mastu.ukaea.uk:56560/uda?mapping=MAST&path=/&verbose=0&shot=30417&batch_size=20'
 - ERROR:root:b'al_begin_dataentry_action: [ALContextException = URI cannot contain both path and mapping query arguments]'
 - ERROR:root:b'al_begin_dataentry_action: [ALContextException = URI cannot contain both path and mapping query arguments]'
 - [06/03/26 10:57:00] ERROR Can not find data entry
Namespace(uri='imas://data.mastu.ukaea.uk:56560/uda?mapping=MAST&path=/&verbose=0&shot=30417&batch_size=20',
yaml=False, comment=False, ids=None, fullarray=False) database.py:541
 - ERROR:module.idstools.database:Can not find data entry
Namespace(uri='imas://data.mastu.ukaea.uk:56560/uda?mapping=MAST&path=/&verbose=0&shot=30417&batch_size=20',
yaml=False, comment=False, ids=None, fullarray=False)
 - ----> Aborted.

Notes:

- DMP Wiki
 - WEST
 -
 - The WEST public UDA server can be accessed using:
 -
 - UDA_HOST=irfm-uda.partenaires.cea.fr
 - UDA_PORT=8083
 -
 - The UDA connection provides currently the « simulation » database in which you will find the output of METIS interpretative simulations which are carried out systematically for each pulse.
 -
 - The 'C7' campaign from shot 57269 to 58693 is available.
 -
 - For example, the following URI allows to access the WEST shot 57410 with run=0:
 -
 - uri = 'imas://irfm-uda.partenaires.cea.fr:8083/uda?path=/Imas_public/imas_simulation/public/imasdb/west_simu_preparation/3/57410/0&backend=hdf5'
- idslst -u
'imas://irfm-uda.partenaires.cea.fr:8083/uda?path=/Imas_public/imas_simulation/public/imasdb/west_simu_preparation/3/57410/0&backend=hdf5'
 - ERROR:root:b'al_begin_dataentry_action: [ALException = [createConnection]: Connection timed out\n[idamClient]: No Socket Connection to Server\n']
 - ERROR:root:b'al_begin_dataentry_action: [ALException = [createConnection]: Connection timed out\n[idamClient]: No Socket Connection to Server\n']
 - [06/03/26 11:17:58] ERROR Can not find data entry
Namespace(uri='imas://irfm-uda.partenaires.cea.fr:8083/uda?path=/Imas_public/imas_simulation/public/imasdb/west_simu_preparation/3/57410/0&backend=hdf5',
yaml=False, database.py:541
comment=False, ids=None, fullarray=False)
 - ERROR:module.idstools.database:Can not find data entry
Namespace(uri='imas://irfm-uda.partenaires.cea.fr:8083/uda?path=/Imas_public/imas_simulation/public/imasdb/west_simu_preparation/3/57410/0&backend=hdf5',
yaml=False, comment=False, ids=None, fullarray=False)
 - ----> Aborted.

Persistent Identifiers (PIDs)

- Do we want to create a questionnaire for the data suppliers (experiments and others) about their intention to support PIDs?
 - We should also see if EUROfusion is interested in supporting a central PID service or contracting this out to one of the members of the Consortium
 - Or do we accept that EUROfusion data will never be FAIR?

- Reminder: FAIR data requirement
 - F1. (Meta)data are assigned a globally unique and persistent identifier

Persistent Identifiers (PIDs)

- Do we want to (re-)open the discussion on PID granularity
 - For IMAS
 - At the collection level? [pointed to by an IMAS URI]
 - At the IDS level?
 - At the AOS level?
 - At the leaf level?
 - For non-IMAS experimental data
 - At the shot level?
 - At the “file” level (PPF, JPF, AUG shotfile)?
 - At the signal level?
 - For other non-IMAS data
 - At the collection level (as stored on the LTDSF)?
 - At the “file” level?

Persistent Identifiers (PIDs)

- <https://fair-impact.eu/technical-eosc-pid-implementation-guide-program>
 - Technical EOSC PID implementation guide & program
- <https://doi.org/10.5281/zenodo.14779609>
 - MS3.8 Technical EOSC PID implementation guide & program
 - The milestone report "MS 3.8 Technical EOSC PID Implementation Guide & Program" provides a hands-on framework for adopting PIDs in alignment with EOSC policies and core solutions. The report features a series of infographics that outline clear, actionable steps for incorporating PIDs into existing workflows, organised across three levels:
 - National Initiatives
 - PID Service Providers
 - Research Institutions

Persistent Identifiers (PIDs)

- R2 Lahtinen, A., Lukkarinen, A., Koivula, H., Liimatainen, J. O., Parland-von Essen, J., Tana, J., Koironen, J., Hakala, J., Herrala, J., Pajari, J., Hakkila, K., Hilska-Keinänen, K., Nissin, L., Karlsson, L., Kuusniemi, M. E., Vuorinen, M., Frosterus, M., Kaarakainen, M.-T., Salminen, N.-M., ... Pääkkönen, T. (2020). **Choosing and implementing persistent identifiers : Guide for research organisations**. <https://doi.org/10.5281/zenodo.4395767>
- R3 Madden, F., van Horik, R., van de Sandt, S., Lavasa, A., & Cousijn, H. (2020). **Guides to Choosing Persistent Identifiers - Version 3** (Version 3). Zenodo. <https://doi.org/10.5281/zenodo.4192174>
- R4 Netwerk Digitaal Erfgoed. (n.d.). **A Guide to Choosing PIDs for Heritage Institutions**. <https://www.pidwijzer.nl/en/>
- R5 Parland-von Essen, J., Alaterä, T., Sipola, T., Lukkarinen, A., Pääkkönen, T., Kiiskinen, H., Aalto, T., Kaurahalme, O.-P., Salminen, N.-M., Lötjönen, S., Pajari, J., Hakkarainen, J.-P., & Silander, K. (2019). **The use of Persistent Identifiers for Research Datasets : Recommendation by the Finnish Scientific Community for Open Research** (1.0). Zenodo. <https://doi.org/10.5281/zenodo.3560738>