

AUG data mapping status card

David Coster

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This template can be used/hacked/extended to report on the current data mapping status at a given site (session on Monday morning):

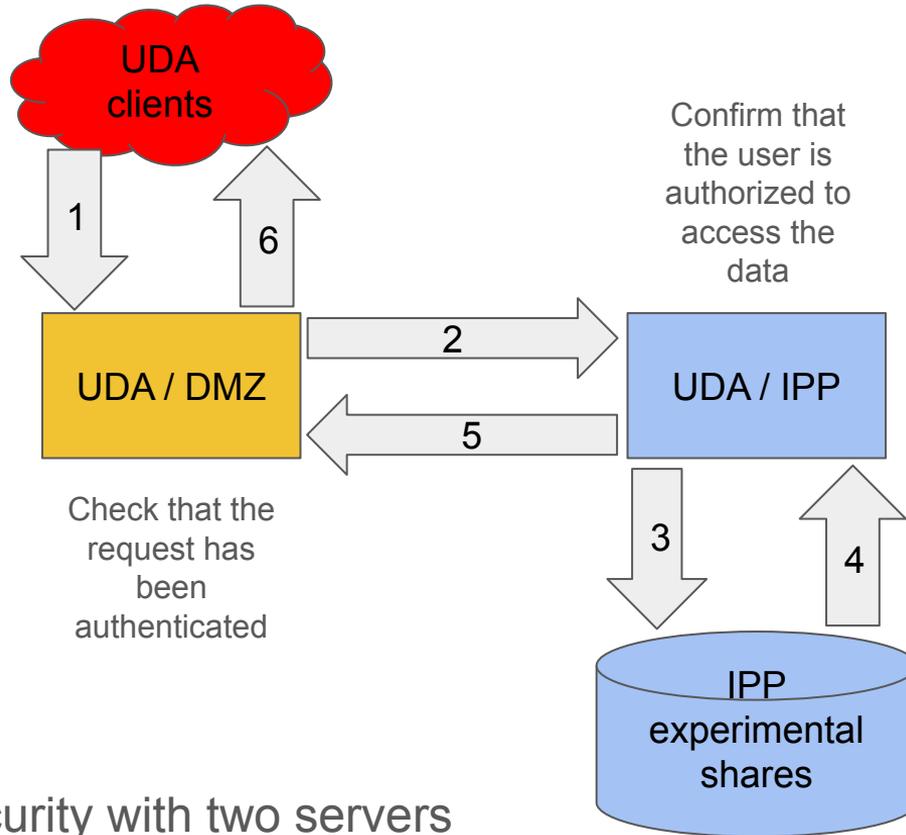
- Device name: ASDEX Upgrade (AUG)
- Native data format/data access library: AUG shotfiles / libdd, libww, libddww, class dd
- Contact persons (name + email) for IMAS / Data mapping: David Coster, David.Coster@ipp.mpg.de
- List of IDS with mapped data (+ DD version): core_profiles, core_sources, dataset_description, distributions, ec_launchers, ece, equilibrium, ic_antennas, magnetics, nbi, pf_active, pulse_schedule, summary, tf, wall, waves (3.42.0)
- How the mapping is done (manually, via tools/scripts, hard-coded vs mapping file...): summary by dedicated python code + trview; many by trview; some by dedicated program; mapping file started and abandoned because of outdated documentation
- Pulses (or ranges of) being mapped: summary (~ 11000 from 30000 onwards); specific test pulses for other IDSes
- Applications that are using the mapped IMAS data: ETS, JINTRAC, ...
- Data access policy (contact + collaboration + possibility to share test data): full availability waiting on AAI implementation; looking at providing one shot to everybody
- Plans over the coming year: continue mapping efforts as well as supplying data using existing tools

<https://docs.google.com/spreadsheets/d/18LBTtpIWxUVxRzY83PuQlfauyHTSv0UQUlpyZuXfjkc/edit?pli=1&gid=0#gid=0>

IPP Plans

<https://docs.google.com/presentation/d/1Y5em0SSU8GSXH84SkFDFfo1v31jWhC4acNjPI2OjVNY/edit?slide=id.p#slide=id.p>

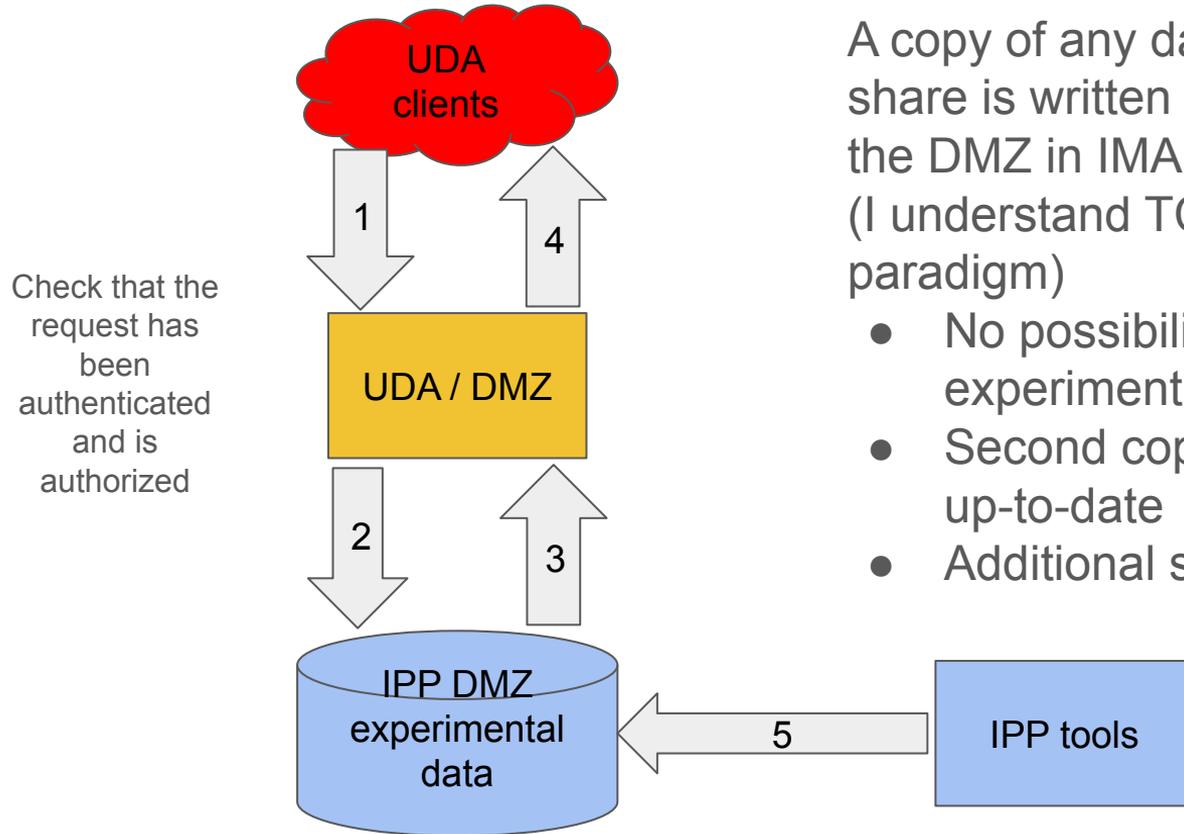
Proposed topology



- No second copy of data is needed
- Might need to throttle access during shot days

- Enhanced security with two servers

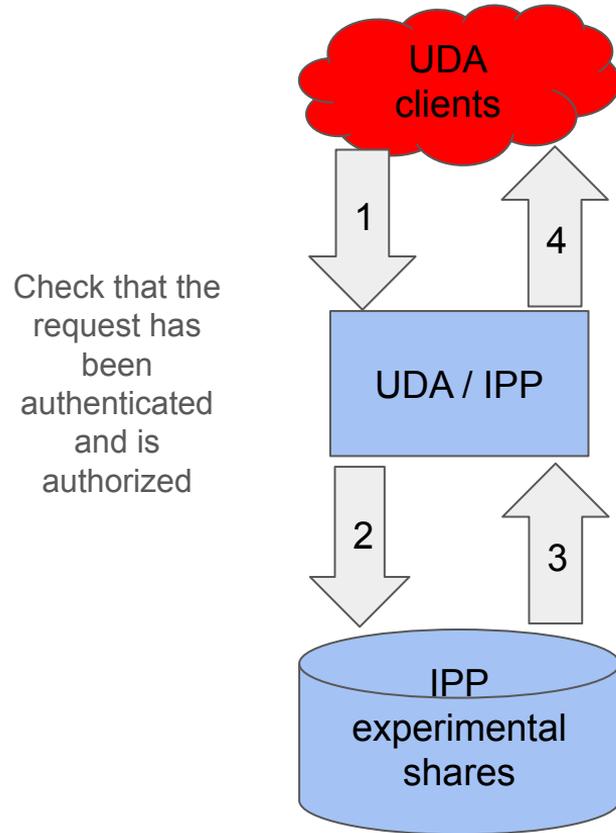
Alternative topology I



A copy of any data IPP wants to share is written to data storage in the DMZ in IMAS IDS format (I understand TCV is following this paradigm)

- No possibility of impact to experiment
- Second copy needs to be kept up-to-date
- Additional storage is needed

Alternative topology II



Direct access from the internet to a server inside IPP's firewall which has access to AUG data

- Shorter access path than main proposal but (in my estimation) less secure
- The server should be configured so that it only has read access to AUG data

Broader EU picture

Data Management Plan Implementing Project

Status across EU devices by IDS:

<https://docs.google.com/spreadsheets/d/18LBTtpIWxUVxRzY83PuQIfauyHTSv0UQULpyZuXfjkc/edit?pli=1&gid=0#gid=0>

Status for Summary IDS by device

<https://docs.google.com/spreadsheets/d/1IX61xqM6sDMjwpr-HG5NR8tlbauQ-NkCxZeKhXjYKY/edit?gid=1047540999#gid=1047540999>

Catalog of experimental data

<https://dmp.eufus.eu/dashboard/>