

# D\_NA4-3.1: Fact sheets on specific JRA results - Part 1 - JRA 1: Connecting DER with a unique interface



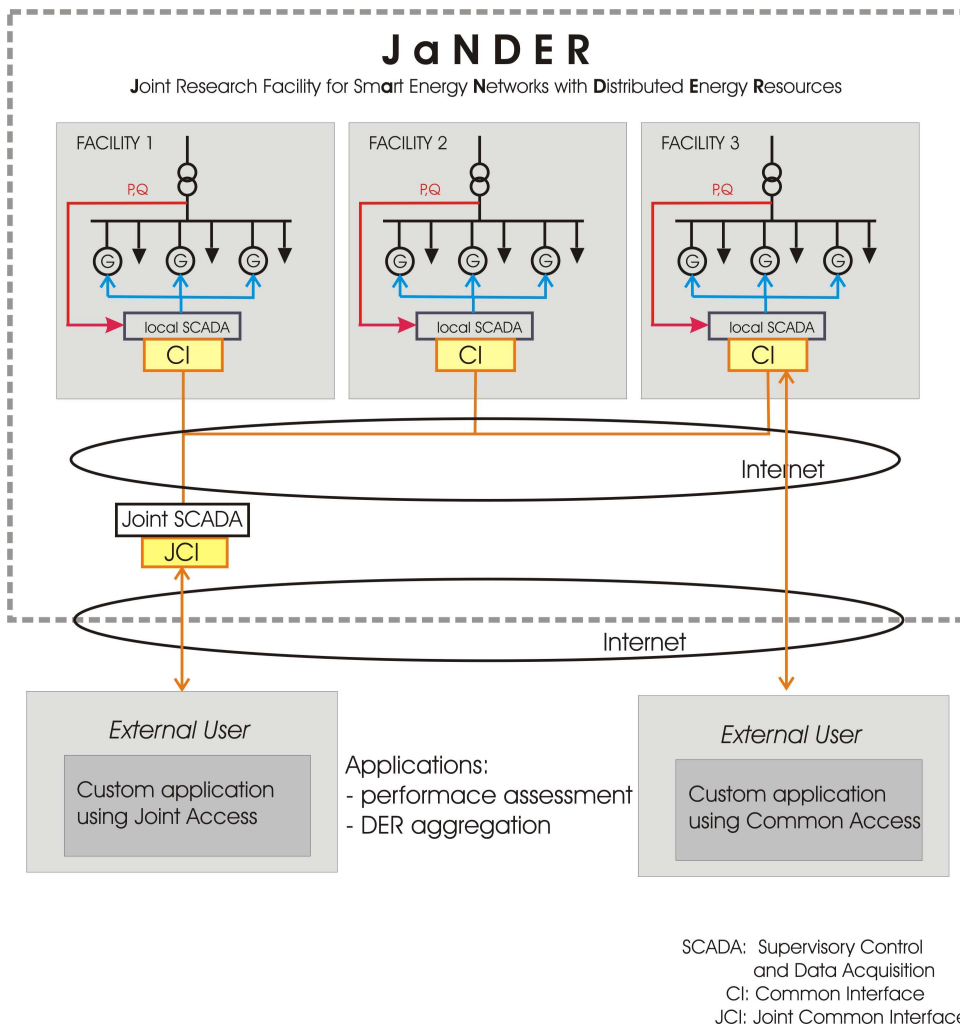
## Development of the JaNDER concept - Joint Test Facility for Smart Energy Networks with Distributed Energy Resources

In this task a concept for JaNDER ("Joint Test Facility for Smart Energy Networks with Distributed Energy Resources") was developed in details related to the infrastructure. Each facility has its own user application which is connected to a Common Interface (CI) that is unique, i.e. at each facility the same CI is used. Detailed descriptions of all laboratories among the partners

were generated. Several use cases were created in order to verify the concept. Different methods of measurements and concepts, requirements and benefits of simulated electrical coupling of the laboratories networks were studied. Different types of data were described in details, especially IEC 61850 and CIM models. In order to compare the results with other projects results of the FENIX and ADDRESS project were presented. Furthermore safety aspects have been discussed for the use of the laboratories. Finally all partners agreed on the JaNDER concept.

## Results of JRA 1:

- *JaNDER concept was developed for connecting DER with a unique interface*
- *several use cases have been defined.*
- *safety aspects have been discussed*



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