POWER SYSTEM ANALYSES AND MODELLING

If you need supoort for modelling and analyses of large transmission systems. Main expertise in load flow, RMS and small signal stability analyses. Expertise with network modelling and studies in tools such as PowerFactory, PSS/E, PSS/ODMS, PSLF. gridDigIt has a license of DIgSILENT PowerFactory.

NETWORK MODEL AND DATA MANAGEMENT

If you need to develop technical specifications and design of network models/data management systems for both transmission and distribution networks. Strong expertise in multi utility cooperation and related use cases.

INTEROPERABILITY & CONFORMITY

If you need to organise interoperability tests for validation of standards and data exchange profiles. If you need to design conformity assessement test procedures and related material and processes. If you are a conformity assessment lab.

gridDigIt SERVICES

Get ready for the future digital, innovative and interoperable power system

gridDigIt provides consultancy services mainly in the following areas:

- power system analysis and modelling,
- networks models and data management,
- IEC CIM, CGMES, conformity of IEC CIM related standards,
- interoperability aspects of grid models exchange,
- research, development and innovation activities as well as
- training activities on various topics.

Power system analytics and data management

Main consultancy services are as follows:

- Support network modelling and perform studies with PowerFactory and PowerFactory automation via Python scripting
- Preparation of PowerFactory user defined models
- Network model and data management – how to better organise to increase complience with legistation or other specifications
- Development of CIM based specifications and support for CIM and CGMES implementation

- Support for achieving conformity on IEC CIM standards and organization of inetroperability testing
- Development of W3C SHACL constraints for model/data validation

Knowledge sharing, research and innovation

- Training and knowledge sharing on CIM, CGMES, interoperability and conformity aspects.
- Support in research, development and innovation profiles across various topics data/model management, power system analytics
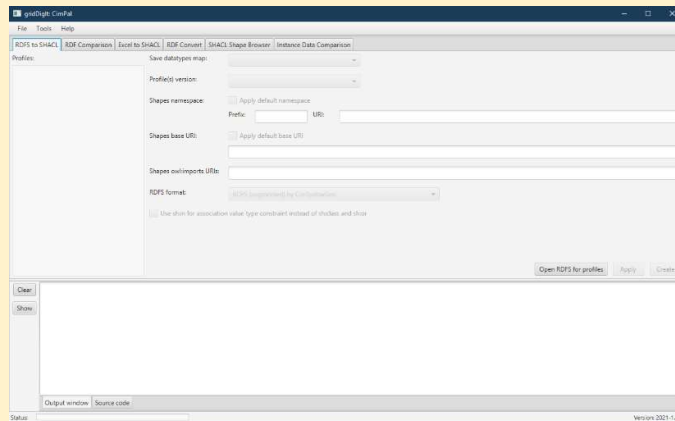- Support in planning the research, development and innovation as well as development of position papers.

gridDigIt has PowerFactory license for unlimited nodes with the following packages: Base Package, Contingency Analysis, Quasi-Dynamic Simulation, Network Reduction, RMS, Scripting and Automation, CIM Import/Export, PSS/E Export. Note the base package includes other imports like PSS/E, Integral in case data transfer from other tools is needed.

gridDigIt®
tools & solutions

CimPal helps you to implement CIM by providing tools which facilitate the work related to SHACL constraints and identification of changes between different versions of CIM profiles.

CimPal is an open source Java application published by gridDigIt and licensed under the EUPL-1.2-or-later. It is based on Apache Jena (Apache License v2.0), TopBraid SHACL API (Apache License v2.0), and JAVAFX (GPLv2+CE license).

gridDigIt aims at providing support and further enhancement of the CimPal. Please address any requests either via the support email or in GitHub.

gridDigIt's unique skills

- gridDigIt has been established in the beginning of 2020 with the objective to provide state of the art digital, innovative and interoperable tools and solutions. It provides consultancy services in above mentioned areas.
- Chavdar Ivanov, the founder and Managing Director of the company, has 20 years experience in activities of transmission system operators mainly in the areas of power system analysis, power system modelling, data/model management and R&D. He is a senior member of IEEE, member of Power System Dynamics Performance Committee and has been directing all major CIM interoperability tests in Europe. He has been working with Bulgarian TSO (ESO EAD), UCTE, ENTSO-E and one of the German TSOs (TenneT TSO GmbH).
- Chavdar Ivanov is also member of UCAIug Board of Directors and involved in IEC and CENELEC standardisation efforts where he is a member of TC57 (WG13, WG14, WG16 and WG19) and TC88. These working groups deal with CIM standards, ICT topics and the modelling of wind generation.
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