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- API allows modifying PowerFactory objects from your external applications and sending data to external data repositories. Smart Grids planning and event analysis are typical applications where you can exploit the full potential of PowerFactory connectivity.

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An example of Smart grid project based on PowerFactory is the ERDF (French DNO) LINKY Project. ERDF "LINKY" project aims at creating value from the large amount of data from smart meters in terms of distribution network planning and power quality improvement. A prototype was presented in this paper, consists in automatically running a “playback”, day after day, of the system.

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The objective of this chapter is to present a general introduction to the DIGSILENT PowerFactory, the most important aspects of advanced smart grid functionalities, including special aspects of modelling as well as simulation and analysis, e.g. wide area monitoring, visualization, and control; dynamic capability rating, real-time load measurement and management, interfaces and co-simulation for modelling and simulation of hybrid systems.

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API - Application Interface (API is part of the module “Scripting

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and Automation”, see following section) OPC DA/UA Interface 1 - SCADA interoperability standard, A/D signal interfacing; Unit Commitment Interface (for external solvers CPLEX, GUROBI or data exchange via AMPL-NL file format) IEEE C37.118 simulation interface 1 – PMU protocol

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PowerFactory is a leading power system analysis software application for use in analysing generation, transmission, distribution and industrial systems. It covers the full range of functionality from standard features to highly sophisticated and advanced applications including windpower, distributed generation, real-time simulation and performance monitoring for system testing and supervision.

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This complexity is particularly high when dealing with modern smart grids. The Python API provided with DIgSILENT PowerFactory is a great asset when it comes to automating simulation-related tasks. Additionally, in combination with the well-established Python libraries for data analysis, analysis of results can be greatly simplified.

Python Scripting for DIgSILENT PowerFactory: Leveraging ...

Introduction. This book consolidates some of the most promising advanced smart grid functionalities and provides a comprehensive set of guidelines for their implementation/evaluation using

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DIgSILENT Power Factory. It includes specific aspects of modeling, simulation and analysis, for example wide-area monitoring, visualization and control, dynamic capability rating, real-time load measurement and management, interfaces and co-simulation for modeling and simulation of hybrid systems.

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