SECURE

ADAPTRICITY/PQ

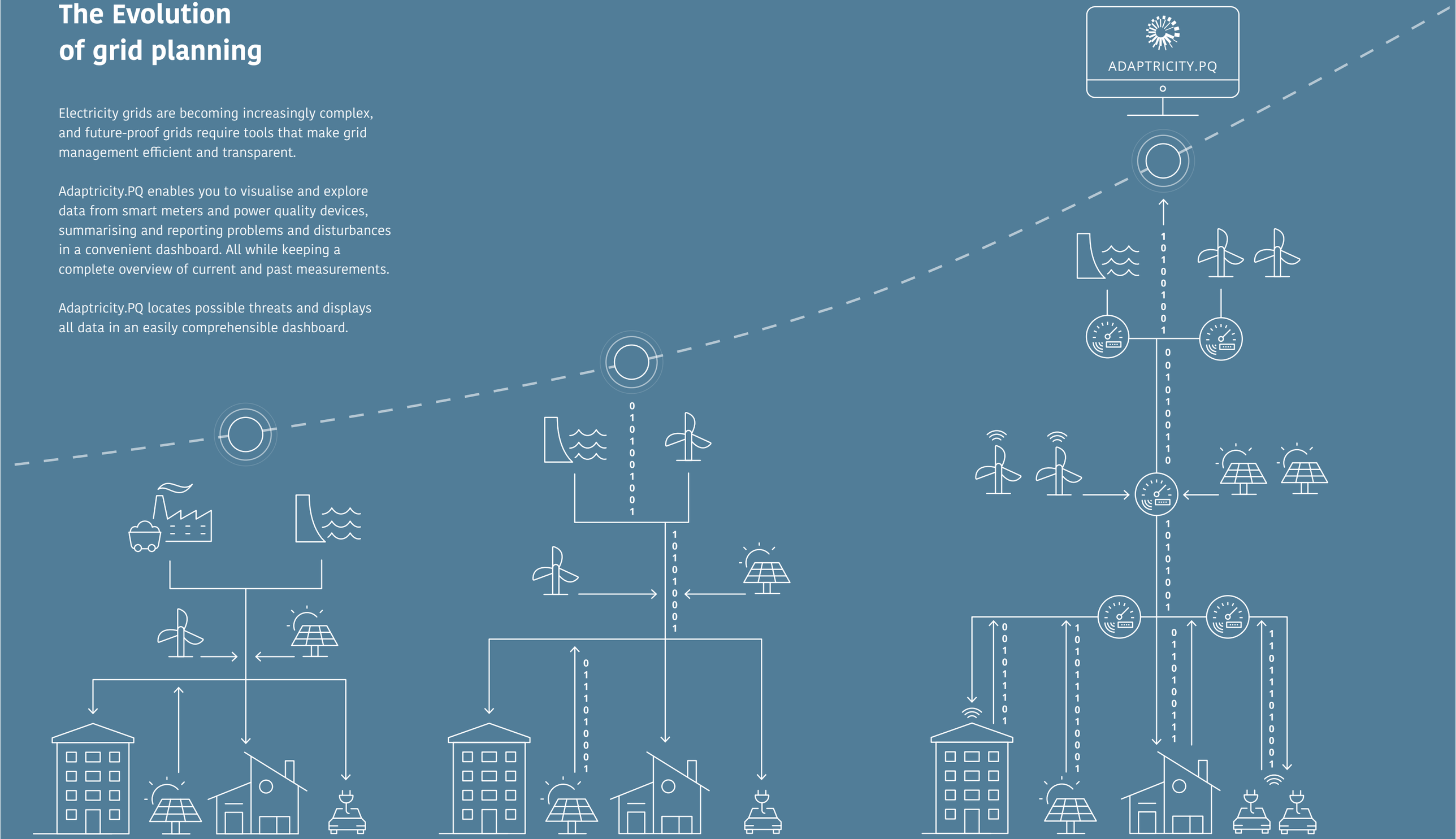
Analysis and evaluation of power quality data
with interactive visualisations and reports.

The Evolution of grid planning

Electricity grids are becoming increasingly complex, and future-proof grids require tools that make grid management efficient and transparent.

Adaptricity.PQ enables you to visualise and explore data from smart meters and power quality devices, summarising and reporting problems and disturbances in a convenient dashboard. All while keeping a complete overview of current and past measurements.

Adaptricity.PQ locates possible threats and displays all data in an easily comprehensible dashboard.



Adaptricity.PQ is a cloud-based solution that allows grid operators to view metering data geographically and with periodic updates.

Adaptricity.PQ

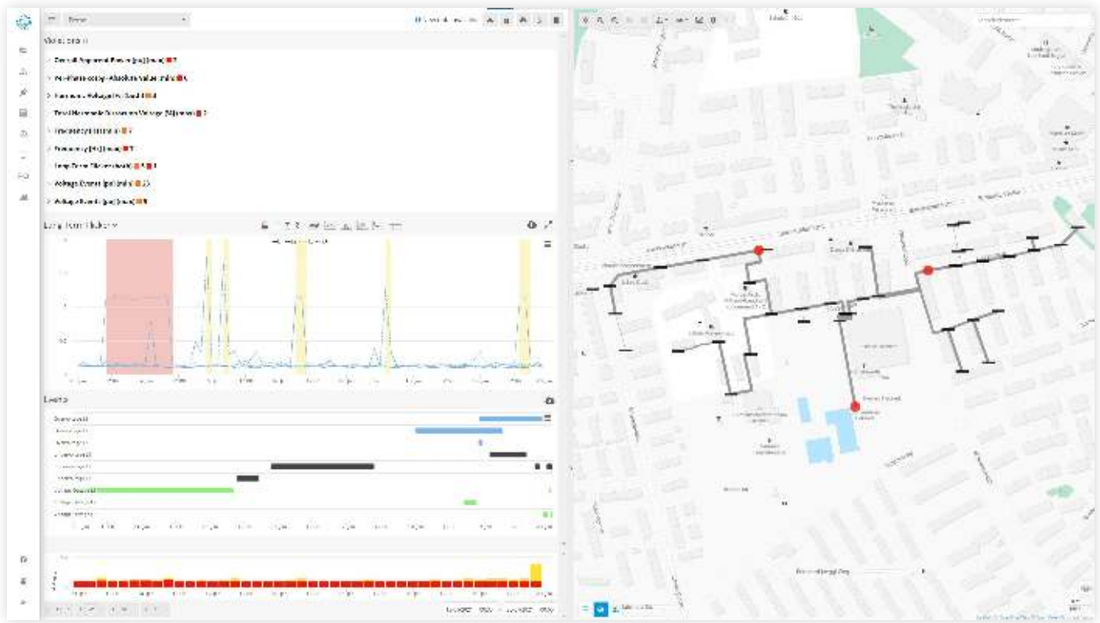
Adaptricity.PQ allows you to visualise and explore data from smart meters and power quality devices, summarising and reporting harmful events in a convenient dashboard. Grid operators have a complete overview of the current and past measurements of their devices.

Keep the overview

The main scope of Adaptricity.PQ is to summarise a large amount of data to provide an actionable overview to the grid operator. This not only allows a quick setup, but also keeps the functionalities to the very essential to provide a smooth user experience. We deliver an intuitive and dynamic user interface and user experience to enhance overall situational awareness.

Never out of date

As the needs of our customers evolve, so does the product. Whenever specific needs arise, we are keen to design and implement tailored new features with our customers to provide new value. The product can be customised to visualise various types of measurements, including new types of events and non-electrical quantities.



What comes with Adaptricity.PQ

> Integration and visualisation of both values of field measurements and event-related diagnostic information from the metering devices, such as over and under voltage, voltage imbalances, and meter failures.

> Computation and reporting of alerts according to EN 50160.

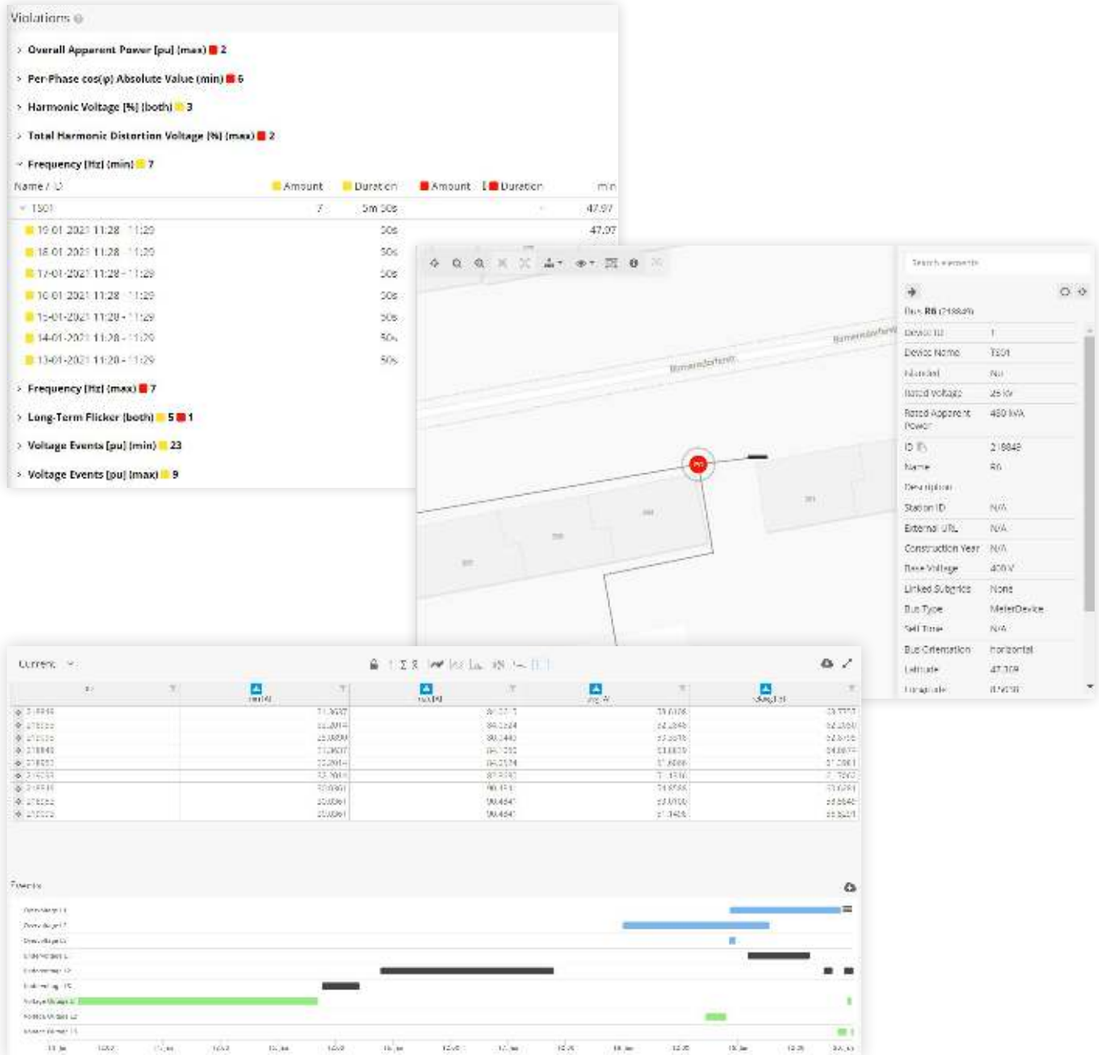
> Reporting functionality with creation of PDF documents.

> Possibility of co-developing custom detection methods for leak detection, neutral integrity, and demand management features.

How is Adaptricity.PQ set up?

Adaptricity.PQ works without the need of a computable grid model. The only requirement is the location of the meters. A whole grid representation can however be imported for improving the visualisation experience.

Once the meters are active and the APIs are implemented, you only need to insert the API login credentials in the configuration dashboard and define the geographical locations of the devices. The data will be pulled on a regular basis and made available for visualisation and reporting.



What’s beyond?

Adaptricity.PQ is only the entrance door to the ecosystem of tools available in the Adaptricity platform. Once a computable grid model is integrated, Adaptricity.PQ can be upgraded to Adaptricity.Mon, bringing the analytic potential to the next level. Exploiting the combination of the grid model with the close-to-real-time meter data, Adaptricity.Mon runs large-scale simulations and offers tools to automatise daily operations, such as:

Monitoring of further operational grid parameters such as line loadings or node voltages

Execution of short-circuit computations

Workflows for streamlining the approval of connection requests based on real data

Planning and assessment of protection schemes

Computation of hosting capacity for new distributed generation or loads

Stress-tests with automated Monte-Carlo simulations

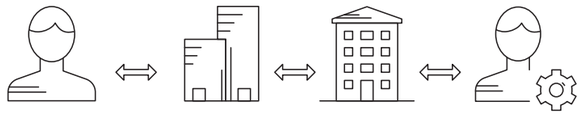
...and many more.

Your Adaptricity benefits at a glance

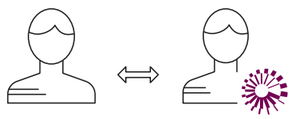
Adaptricity: your expert partner

Only a professional direct-sales consultant with technical experience can ensure your company receives comprehensive advice and guidance. With Adaptricity, we guarantee you will get the support you need. Our product development closely reflects market demands, and your requirements are integrated directly into future development.

Complicated support system:



Adaptricity support system:



Compatible with other Adaptricity tools

Adaptricity.PQ is based on the same platform as Adaptricity's other tools. You can upgrade to a time-series based analysis and planning method at any time, even during the current license period.

Multi-language support

Work in the language that you feel most comfortable with. The choice is yours because Adaptricity.PQ is designed for multi-language use. User interfaces and help texts are already available in German and English and new languages will be continually added. Support by phone is also available in Italian and French.

Specifications

Infrastructure	
Server location	Germany, Switzerland, other locations may be possible upon request
Data transfer	SSL-encrypted data transfer between server and user interface
Login	Two levels: Instance login by HTTP BasicAuth; individual user login
Backup cycle	Daily, one-week retention time
Product specifications	
Power quality evaluation rule set	EN 50160 (2011)
Data acquisition methods	REST API, file-based via customisable data import pipeline
Automatic data updates	Daily, customisable
Web interface	REST-API, format for data transfer: JSON
Integrated grid model interfaces	Native XML format, UCTE, Matpower, PSS/E, IEEE Common Data Format
Grid model interfaces with previous initial project	PowerFactory, ENTSO-E CIM, CDE, GEONIS, LIDS7, AutoDesk Map3D, G!NIUS, or others via customisable data import pipeline
Version control	Versioning of selected data models
Documentation	Comprehensive support integrated into the software
Preferred browsers	Chromium-based browser (Google Chrome, Iron)
Languages available	German, English

Licenses		
	Enterprise license	**Individual license**
Maximum number of teams	50	1
Maximum number of users	500	1
Create new users/teams	yes	no
Admin interface	yes	yes

Service	
Customised developments	Available on request
Response time to support queries	Within one business day
Software updates	Usually every 7 days
Development cycle	Upgrades to the Adaptricity Platform are usually released every 10 weeks.

Instant availability, fast installation, immediate benefits – Adaptricity.PQ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