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Product Sheet

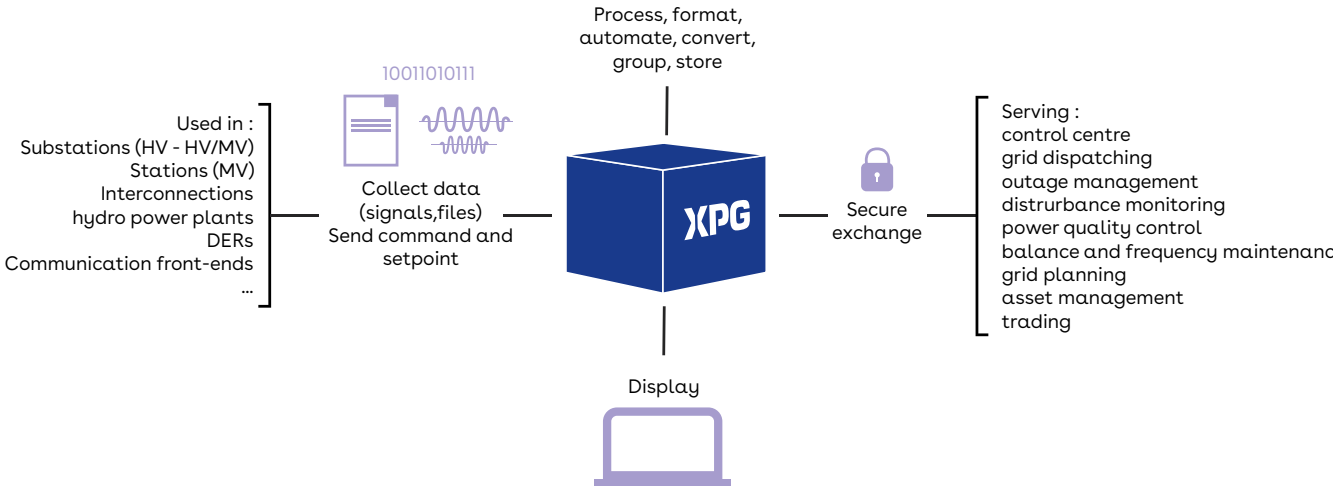
Grid Control

XPG Virtual Gateway

Proven interoperability. Optimise your power grid infrastucture with the virtual version of the XPG Gateway

Why choose XPG as a Virtual Machine?

The digital transformation of power grid infrastructures demands flexible, scalable, and secure solutions. The virtual machine version of XPG offers all functionalities of the physical one, with the added benefits of software deployment: speed, agility, cost reduction, and simplified integration into IT environments.



Key benefits of a 100% software-based solution

- Rapid deployment on servers or cloud environments
- Reduced costs related to hardware and maintenance
- Full interoperability with the same protocols as the physical version
- Enhanced security with VPN, SSH, SFTP, LDAP, and more
- Centralised updates and simplified management: CLI, dedicated tools, RBAC, etc.
- Multi-hypervisor compatibility: KVM, VMware, SEAPATH, Oracle, etc.

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Typical use cases for XPG Virtual Gateway

- Gateway and HMI in digital substations: fast integration into IEC 61850 architectures or flexibility to interface with existing systems
- Gateway for specific data collection and exchanges application : disturbance fault analysis and power quality
- Front-end gateway in centralised systems (e.g. NCC Network Control Center SCADA) : data collection and multi-protocol conversion
- Gateway for data exchange between system operators: TSO-TSO, TSO-DSO, DSO-DSO, TSO-Producer, DSO-Producer
- Gateway for energy monitoring : data processing and transmission to cloud or centralised platforms. Ease and openness for interfacing with analysis tools
- Gateway in edge computer : local data processing with synchronisation and exchange to central systems

Robust and secure architecture

The virtual version of XPG integrates seamlessly into virtualised environments and supports the most demanding industrial and IT protocols.
It enables fine-grained management of data flows, user access, and updates. High availability is ensured by traditional redundancy options or cluster operation.

This field experience ensures proven reliability, broad compatibility with major hypervisors, and full mastery of cyber security and performance challenges.

Proven technology since 2018

XPG Virtual Gateway is not an experimental solution, it has been deployed in projects since 2018, including :

- Digital substations in IEC 61850 environments
- Centralised SCADA systems with multi-protocal support
- System for monitoring disturbances and power quality
- Cloud-based energy supervision platforms

Ready to Virtualise your system?

Contact us so our experts can respond to your specific needs.

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