CONDIS®

Product Sheet

Grid Control

IT/OT monitoring with XPG

Historically, information technologies (IT) and operational technologies (OT) have developed separately, with separate goals and in separate areas of application. Yet there is much to be gained by linking, aligning, and integrating them in both areas. Integration of IT and OT is taking place in many sectors and industries.

With the increasing use of mature smart grid technologies in electrical power distribution, IT and OT applications are increasingly being used together to improve the performance of distribution networks. Potential benefits include transforming unplanned outages into anticipated ones.

Key advantages

- Complete mastery of the infrastructure
- Facilitated maintenance
- Operational actor of security

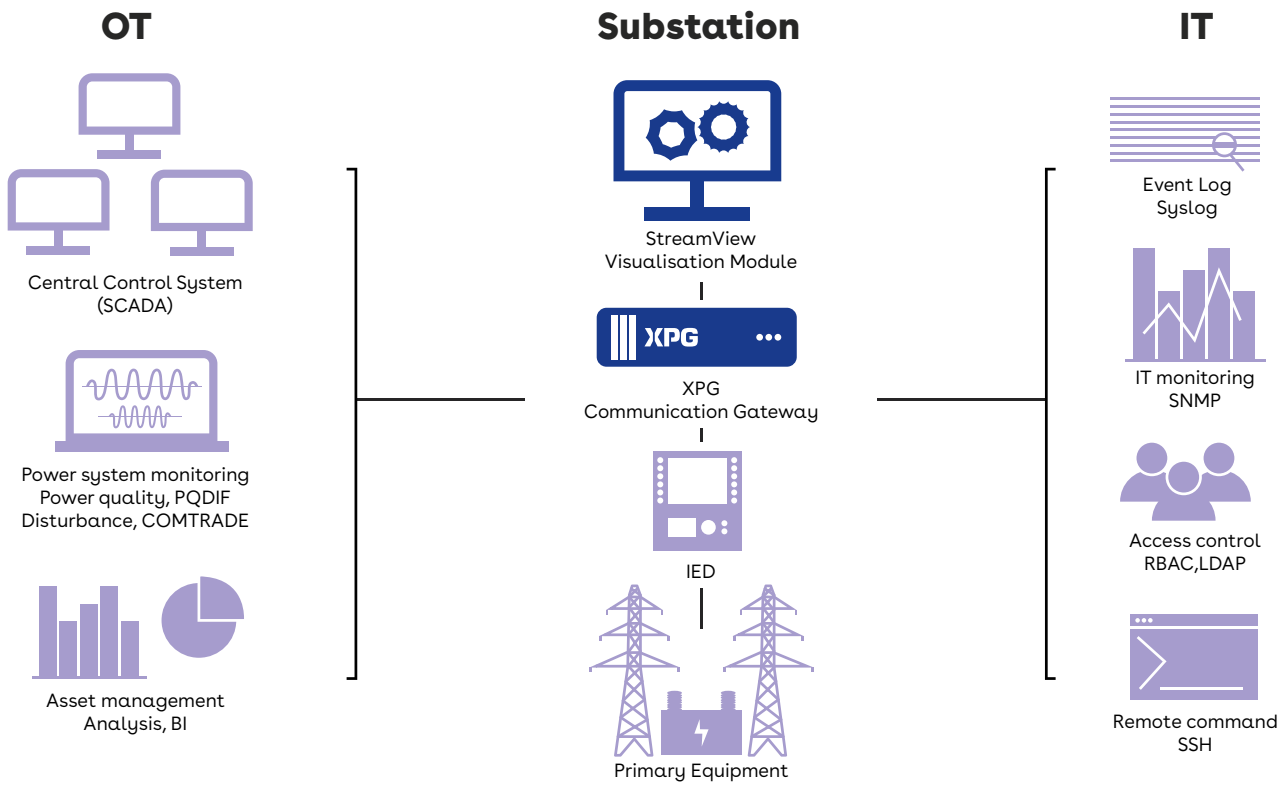
Available data

- Disturbance Recording files (COMTRADE)
- Power quality files (PQDIF)
- Event Log
- Predictive Maintenance Data(Asset management)
- Power Data
- ...and more

IT standard

- Syslog
- SNMP v3
- RBAC (LDAP-S, Radius)
- SSH

Architecture



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XPG

XPG (Secure StreamX Protocol Gateway) is a product line based on StreamBridge, a modular multi-protocol communication gateway, ISOS (Industrial Secure Operating System) and a chosen hardware or virtual appliance which is used for all communication applications, data processing and protocol conversion.

XPG fully complies with the various IT and OT requirements of today's Smart Grid Technologies. XPG can provide Utilities with a variety of different data while meeting high security standards.



IG2



DA681C



DA820C



ICS P-371



Virtual Machine

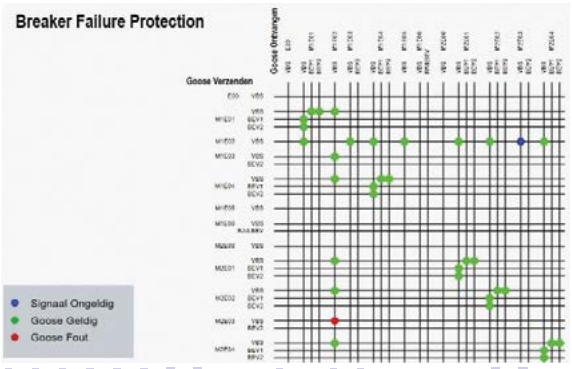
XPG monitoring capabilities

In addition to IT and OT monitoring, XPG provides monitoring capabilities that can be accessed locally and remotely. XPG ensures that the operating status of the infrastructure is optimal.

- Status of equipment and networks
- Events logging
- Communication monitoring
- Device Configuration and version control (e.g.-IED)

Use case: Goose supervision

Use XPG to acquire the status of the Goose messages sent between IEDs in a substation. This status data can be monitored in a Goose matrix with StreamView on HTML pages. This provides you with an overview if there is a problem with the exchanged Goose messages in your substation.



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