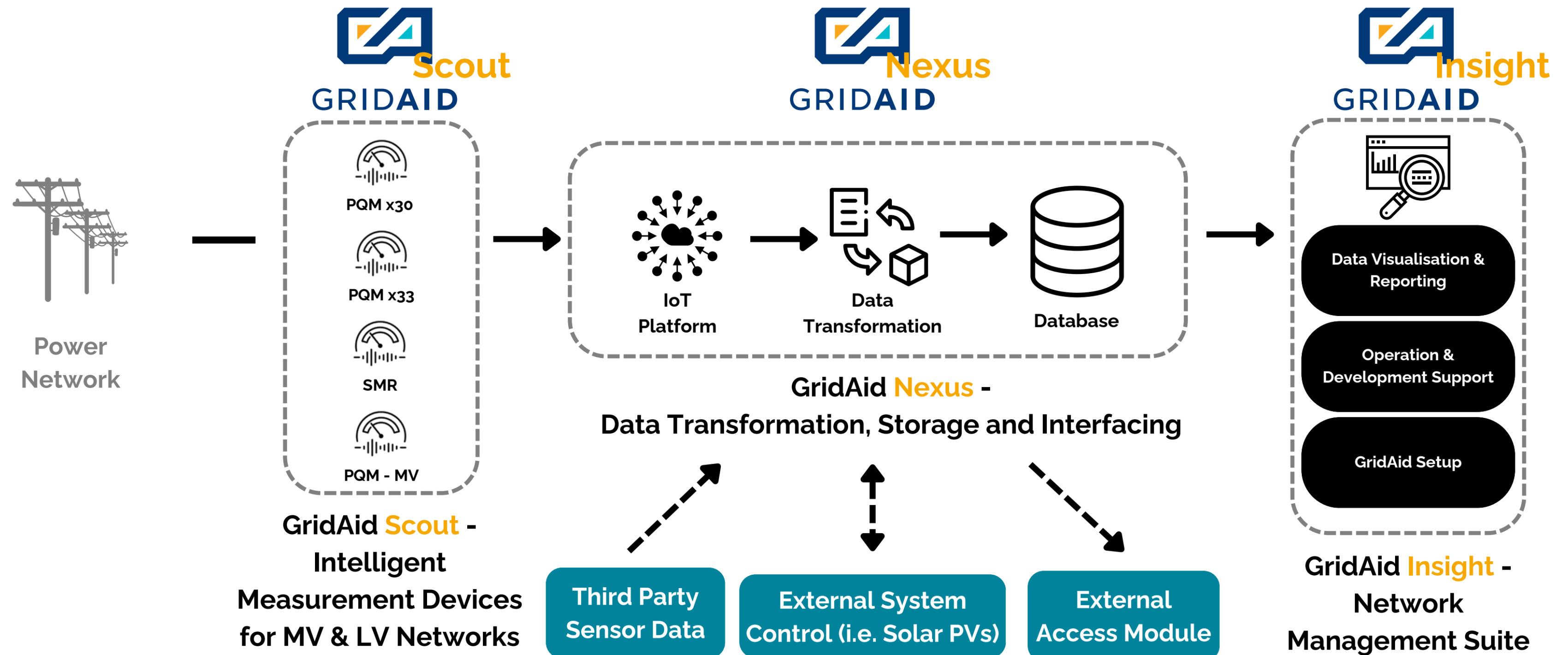
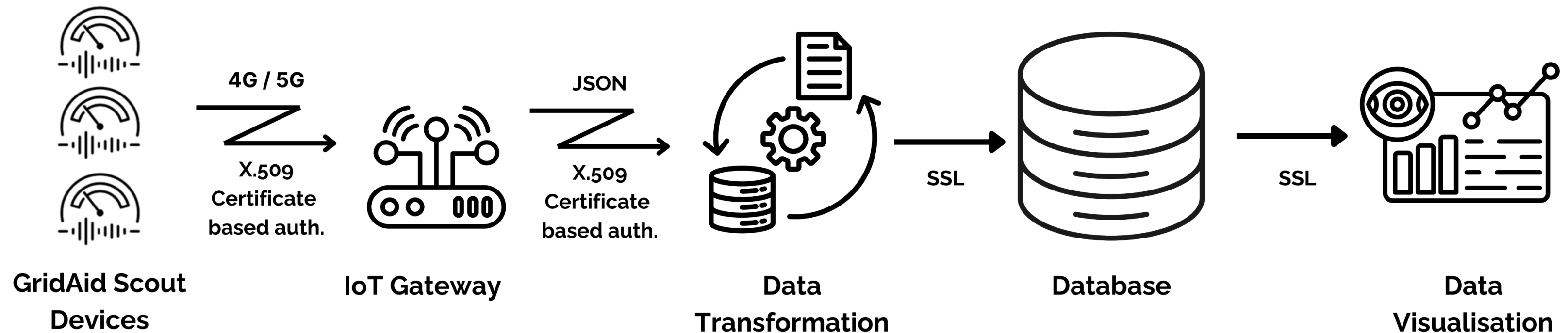


# GridAid Nexus

## System overview

GridAid Nexus connects measurement devices with the applications that use their data. It handles data collection, transformation, storage and delivery. As part of the modular GridAid system, it links field measurements with network monitoring.





### Authenticated connections

X.509 certificate-based authentication and encrypted connections support device identification and secure data transmission.

### Data flow to visualisation

Data received through the IoT gateway is transformed and stored before it is delivered to Insight or other connected systems.

### Centralised data management with interfaces tailored to your application

#### Data collection and transformation

Nexus receives data from measurement points and converts it into the format required for further processing. JSON supports machine-readable data exchange within the communication chain.

#### Third-party device integration

The solution supports the integration of third-party devices. The connected data sources and technical interface requirements are defined according to the needs of each project.

#### Scalable architecture

Nexus can adapt as the measurement network grows and data management needs evolve. The required components are selected as part of the complete system solution.

#### Database and storage

A central database stores measurement data and makes it available to the applications that use it. The data management architecture is tailored to the needs of the monitoring system.

#### Data delivery to multiple systems

Data can be delivered to multiple applications to support integration and testing. In addition to GridAid Insight, Nexus can connect to external systems.

#### Connection to GridAid Insight

Nexus provides the data management foundation. GridAid Insight handles visualisation, analysis and reporting to support daily operations and network development decisions.

### Deployment tailored to your IT environment and operational requirements

#### On-premises deployment

A self-hosted solution running on local infrastructure. Nexus provides data management and storage functions aligned with the customer's IT environment and internal operational requirements.

#### Cloud deployment

A cloud-based data management and storage architecture. As part of the complete GridAid system, the configuration is tailored to the project's data collection, access and integration requirements.

#### System design with our team

Our team supports you from measurement device selection through to the design of data communications and system interfaces. Together, we define the right configuration based on the measurement task, your existing IT environment and data security requirements.

#### Contact our team to discuss your GridAid system solution.

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