intertrust®

Optimize your energy operations

Manage your energy asset infrastructure to maximize revenue generation.

Intertrust's Virtual Operation Center – VOX – helps you optimize daily energy operations, improve infrastructure reliability, and enhance your overall business performance.

Harnessing data to streamline energy operations

VOX centralizes information by seamlessly and securely integrating different data sources, such as SCADA systems, maintenance logs, and IoT sensors, allowing real-time data collection and aggregation across OT and IT environments.

In this era of big energy data, you face the overwhelming task of managing vast amounts of information. Data can become scattered and siloed, making it difficult to extract meaningful insights and hindering efficient decision-making.

VOX addresses this challenge by implementing a robust dashboard that provides a single pane of glass for disparate IT and OT data sources. It works with a structured taxonomy and easily searchable database that lets you quickly identify and retrieve relevant information, eliminating the time-consuming process of overcoming your IT team's cumbersome request process to grant you access to data or manually sifting through countless files and folders.
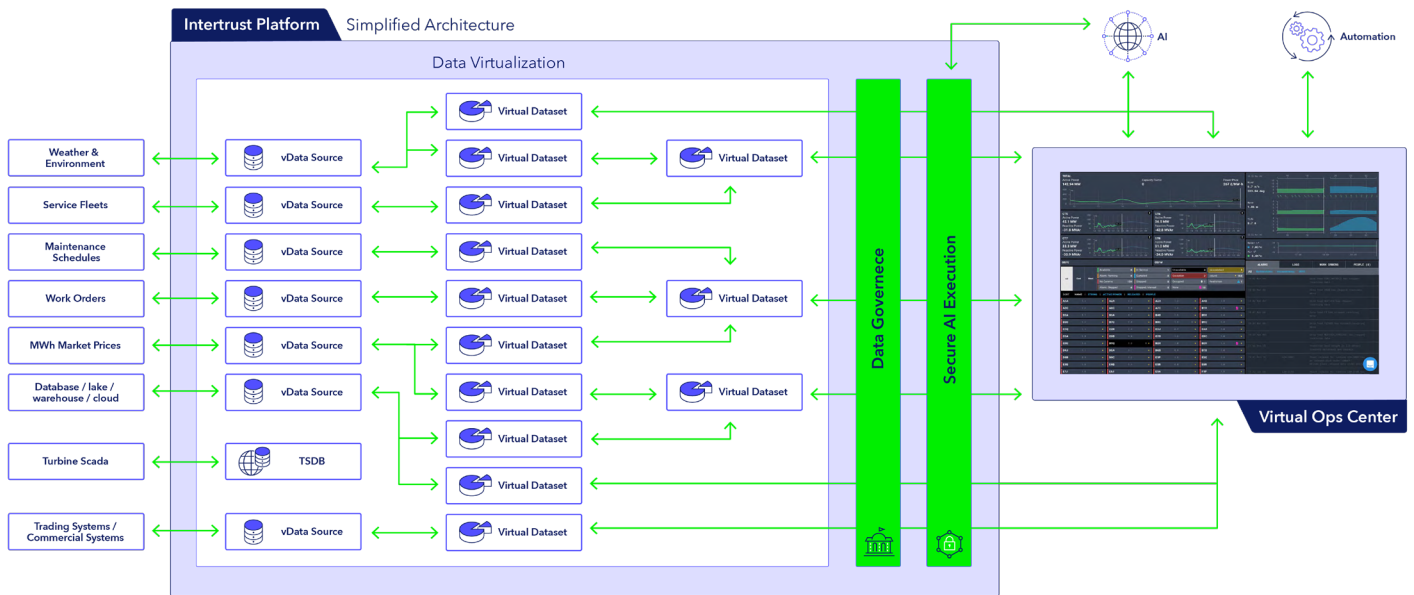
This streamlined approach enables your teams to make data-driven decisions efficiently, ultimately improving overall performance. VOX features our groundbreaking XPN technology that protects the data itself – whether the data is in transit or at rest, each data packet is protected between the device and the data server.

As the energy landscape evolves, so do the regulatory requirements placed upon your organization. VOX eases reporting processes and makes them streamlined and accurate. VOX helps you generate comprehensive reports that align with regulatory standards. This not only saves your team valuable time but also reduces the risk of non-compliance and associated penalties.

Our solution

VOX is a modern data and asset management platform that goes beyond visualization. It provides you with deep awareness of your business inefficiencies. It gives you a 360° perspective of your day-to-day operations to help you make informed, proactive decisions.

Intertrust Platform — Simplified Architecture

Data Virtualization

Weather & Environment
Service Fleets
Maintenance Schedules
Work Orders
MWh Market Prices
Database / lake / warehouse / cloud
Turbine Scada
Trading Systems / Commercial Systems

vData Source
TSDB

Virtual Dataset

Data Governece
Secure AI Execution

AI
Automation

Virtual Ops Center

Key features

Real-time monitoring
Trusted information available in real time that is easily visualized and customized.

Data integration and management
Assemble disparate data sources into one single system.

Customizable dashboards
Make it your own. VOX gives you ample flexibility to view the information that is most relevant to you and to work with third party applications.

Analytics and reporting
Derive critical insights from data that will help your team be more productive and cost-saving.

Compliance and audit
Collect the information you need to keep demonstrating you follow all the regulations you adhere to.

Scalable and extensible
VOX expands with your business – whether you add new renewable infrastructure or you revamp your energy management systems.

VOX applications

VOX Dashboard
A single pane of glass of your entire operation. Its panoramic view includes real-time operational status, performance metrics, alerts, and maintenance schedules.

VOX Operations
A visual representation of all assets – wind turbines, substations, vessels, technicians, etc. It can include relevant third-party data, such as power production forecasts, weather, and energy pricing.

VOX Assets
Detailed technical information related to an individual site, such as wind turbines, PV systems, or substations. The information displayed depends on the asset type. For a turbine, this will include turbine metadata, status, SCADA data, etc.

VOX Catalog
Catalog is your data control center, governing access to a wide range of operational datasets and providing robust tools for data exploration. This includes data driving the operations screens, but it also includes additional datasets added by an IT manager or data curator.

VOX Workspace
Where all your team's fragmented data analysis is now fully integrated. You can use Apache Superset, Jupyter Notebooks, and Grafana dashboards. VOX supports third-party integrations where your data scientists can use their existing AI and ML tooling to access data via governed interfaces.

VOX Audit
Audit ensures the security and compliance of your operations by providing comprehensive audit records that include data access details, including query statements. It offers enhanced security, compliance, and traceability.

intertrust®

Building trust for the connected world.