



Industrial Data Xchange

Operational Excellence Unlocked



# IDX Nexus Brochure

## 2025

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# About IDX Nexus

Flexible plant data  
management for  
industrial plants.



## Transform Complex Plant Data into Actionable Real-Time Insights

The IDX Nexus Framework is a smart, scalable solution designed to turn complex industrial data into clear, actionable insights. It provides a cost-effective way to collect, store, and visualise plant data, while offering flexibility to adapt to legacy and modern systems.

Designed for efficiency, it helps plants eliminate complexity, reduce downtime, and improve decision-making with real-time insights. Its intuitive dashboards, trending tools, and custom alerts ensure you always know what is happening across your plant, from process efficiency to equipment health.

The built-in alarming and notification features keep teams informed of deviations, poor tag quality, or equipment failures, enabling faster response and better control. With scalable architecture, it grows alongside your plant, ensuring long-term value without the need for costly overhauls.

Whether you need on-site deployment or remote flexibility, Nexus adapts seamlessly to your environment, giving you visibility anytime, anywhere. It is more than a data platform; it is the key to unlocking operational excellence and long-term business growth.



- Increase Efficiency
- Reduce Downtime
- Permanent Monitoring
- Real-time Insights

- ### IDX Nexus Features
- High-speed data transmission
  - Integration with existing systems
  - Flexibility and scalability
  - Real-time monitoring
  - Unlimited data storage
  - Customisable dashboards
  - Remote access capabilities
  - Fault detection
  - Data trending
  - Alarm notifications
  - Remote or local deployment

# IDX Nexus Solutions

## Simplifying Plant Data Management

IDX Nexus makes plant data easy to collect, store, and use by bringing everything into one clear framework. Instead of struggling with disconnected systems, Nexus connects your equipment, logs data securely for the long term, and gives you visual tools to track and control operations.

Whether you need a powerful historian, or intuitive dashboards, IDX Nexus brings it all together. The result greater efficiency, and smarter decision-making.



### Nexus Connectivity

Nexus Connectivity ensures communication across your plant by linking equipment, devices, and systems through flexible, reliable connectors.

It removes integration challenges, breaks data silos, and enables smooth information flow. As Nexus's backbone, it delivers scalable, reliable, future-ready connectivity.



### Nexus Historian

Nexus Historian is designed for high-performance data logging, capturing, managing, and storing plant information easily and without limits.

Its advanced compression handles high-frequency tags, saving space while maintaining accuracy. Built for reliability, it preserves critical data, tracks performance, and enables informed decisions.



### Nexus Visualisation

Nexus Visualisation transforms complex plant data into clear, actionable insights through interactive dashboards and insightful trends.

It provides users with real-time visibility to monitor, analyse, and control operations. Intuitive displays make decisions faster and more effective across every plant process.

## End-to-End Plant Data Solutions

### Route Data Across Disparate Systems

Nexus Connectivity simplifies the routing, storage, and management of data between different systems, enabling seamless cross-platform communication.

### Store Unlimited Plant Tag Data

Nexus Historian securely stores unlimited plant tag data, easily accessed through Nexus Visualisation or integrated applications via the Nexus API.

### Access and Integrate Data Anywhere

Retrieve historian data through the Nexus API for smooth integration with your applications and workflows.

### Visualise Trends and Insights

Trend and analyse real-time or historical tag data with customisable time frames for comprehensive operational insights.

### Enable Remote Monitoring

Deploy flexible remote or local monitoring with built-in cloud or on-premise data logging and visualisation options.

### Customise Alarms and Alerts

Define alarms and alerts based on process limits or data quality, with instant multi-channel notifications.

# IDX Nexus Use Cases



## Real-time data storage boosts process efficiency

A global mining company improved platinum processing efficiency using IDX's Nexus Historian. The SQL-based solution provided seamless integration, high-resolution data logging, and real-time optimisation, enabling better process control, reduced energy use, and enhanced product quality.

[Read more](#)



## Connecting control systems with real-time connectivity

A global mining company enhanced efficiency using IDX's Nexus Framework. The middleware enabled data exchange, real-time connectivity, and integration between control systems, overcoming OPC DA challenges and strengthening process optimisation across operations.

[Read more](#)



## Improving data availability for operational decisions

IDX 8 Historian offers a cost-effective, high-performance data logging solution built on Microsoft SQL. Designed for scalability and efficiency, it supports real-time data capture, flexible configuration, and easy integration, bridging the gap between enterprise and low-cost historians.

[Read more](#)



## Migrating historical data between historians

Migrating historical data between historians is complex, especially with large datasets. IDX Historian's built-in Data Migration tool provides verified, efficient, and parallelised migration with analysis, reporting, and plugin support, ensuring accurate, reliable data transfer between systems.

[Read more](#)



## Simplifying tag management across industrial systems

IDX 8 Tag Manager streamlines real-time data tag migration and synchronisation between systems. Using rule-driven processes, it ensures accurate and efficient updates across sources and historians, reducing manual effort while maintaining consistent and reliable data management.

[Read more](#)

## Contact Us

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