



RDB Gateway

Realtime Database Gateway

Real-Time Data Conversion Solution,
effortlessly stream diverse data into
your time-series database.

Integrate critical real-time data to establish a
robust data channel for big data applications.

Realtime Database Gateway – Your Key Gateway to Big Data Applications!

RDB Gateway is a powerful module that seamlessly connects real-time data to time-series databases. It captures data from diverse sources such as OPC UA/DA and Suitelink, and writes them into multiple time-series database systems, including InfluxDB, AVEVA Historian, and AVEVA PI.

With RDB Gateway, you can unlock flexible data applications to meet all your needs, such as:

1. Serving as the foundation for big data analytics, data visualization, model training, in-plant AI predictive analysis, maintenance planning, and CloudOps.
2. Combined with Senwaiy software such as the Report Generation System (RGS) and the Auto Trend Chart System (ATC), it forms a complete solution from data collection to data analysis.

Benefits



Connect multiple data sources seamlessly — eliminate the hassle of complex conversions and integrations.



Simplify backup and real-time data access — ensuring no data is ever lost.



Deliver stable and diverse data sources — building a solid foundation for big data collection, report analysis, and more.

Key features

Real-Time Data Acquisition and Flexible Database Integration

Seamlessly capture data from diverse sources and write it into multiple database systems. With support for protocols such as OPC UA/DA and Suitelink, RDB Gateway instantly collects data from sources like Kepware, AVEVA InTouch, CGW, and AUG, and stores it into mainstream time-series databases including InfluxDB, AVEVA Historian, and AVEVA PI System — delivering high-level data integration and application flexibility.

Uninterrupted Data Protection with Auto-Recovery

Even during disconnections, data is automatically cached to the local disk to prevent loss. Once the connection is restored, data is processed and resent to ensure completeness and continuity. If the source connection is lost, the system can also perform scheduled auto-reconnection to resume data flow seamlessly.

Dual Database Output for Easy Backup

Each data entry can be written simultaneously to two databases, greatly simplifying backup processes and strengthening data security.

Built-In Toolkit for Secondary Development

With a comprehensive toolkit offering ready-to-use code and command lists, RDB Gateway supports secondary development for enhanced data visualization, big data analytics, predictive modeling, and more — empowering you to expand the value and application of your data with ease.

Applications

Report Generator System (RGS)

Unified Data Import, Instant Report Generation.

Auto Trend Chart (ATC)

Visualize historical database records and generate diverse trend analysis charts to detect and prevent anomalies.

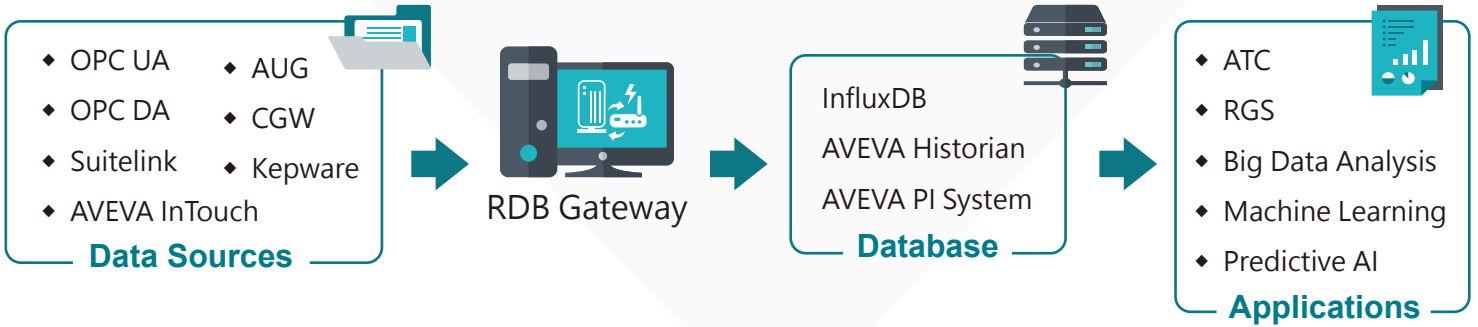
Smart Applications & Secondary Development

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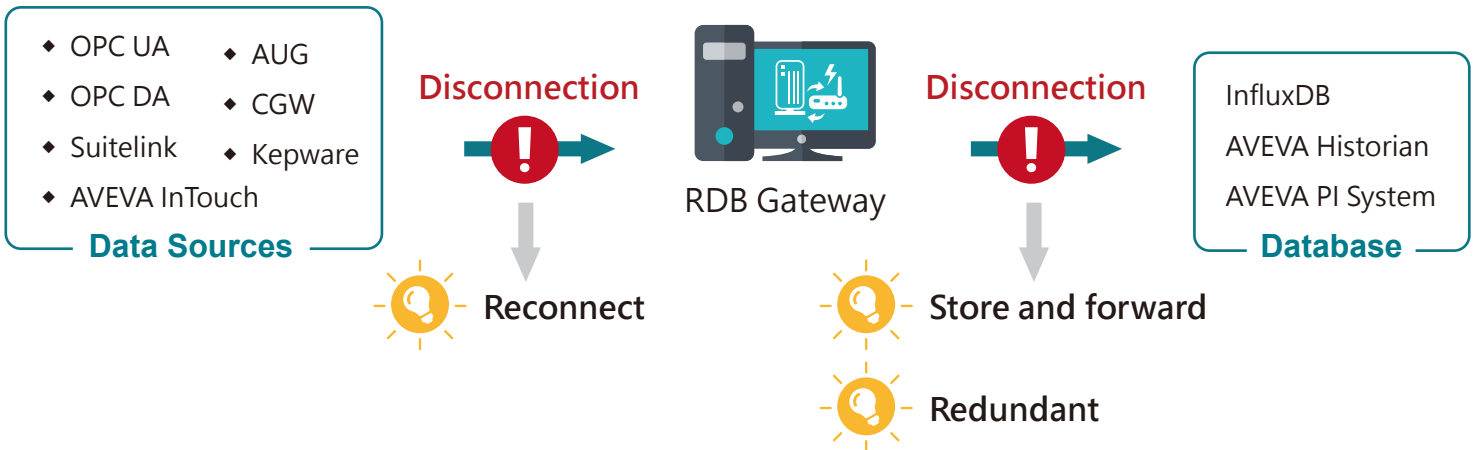
Cross-System Data Integration

Centralize and streamline data from different devices and platforms, eliminating the communication barrier and reducing the time and effort of complex data conversions.

System architecture



RDB Gateway Data Safeguard Against Disconnection



System compatibility



Operating system

- ◆ Windows 10 / 11 Pro or above
- ◆ Windows Server 2022 or above; Standard / Data Center



Database

- ◆ Microsoft SQL Server 2022 or above; Express / Standard / Enterprise



Hardware requirements

- ◆ CPU : 4 cores or higher · 2.6 GHz or above
- ◆ RAM : DDR4 16 GB or above
- ◆ SSD with at least 1 TB
- ◆ Network : 1 Gigabit Ethernet
- ◆ Display : 1920 × 1080 or higher

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