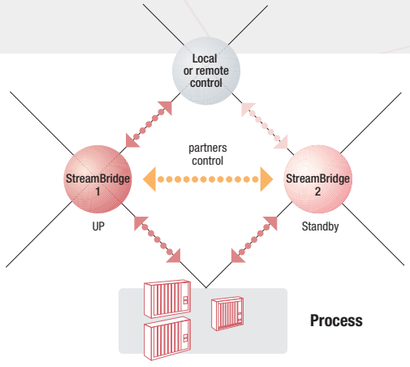
Transitions processing

StreamBridge associates an event recordable to the nearest millisecond with every change of state. This enables event sequences to be backed up in a database offering multiple sort and search possibilities for analysis purposes. Events can be recorded to local or remote destinations and configuration.

Recording values

StreamBridge integrates value recording functions using time-based specifications.
For example, a set of measurements can be memorized once every five seconds in the database. This information can then be re-used in the form of graphs for analysis purposes.



Acquisition redundancy

To increase data availability, StreamBridge can operate in a dual configuration with hot redundancy. In that case, each StreamBridge permanently verifies the state of its partner through dedicated communication channels. Material failure of a unit automatically activates a StreamBridge permutation. The operator can also effect this permutation manually.
This redundancy gives StreamBridge an essential degree of security which enables communication with the process to be guaranteed at all times.

…ensures data conversion between sources using heterogeneous communication protocols. This type of gateway also enables different applications to be interfaced.

StreamBridge safeguards your investments.

streamx

StreamBridge technologies

Designed for Microsoft Windows® 32-bit operating systems, StreamBridge benefits from all the advantages of widely used high-performance software.

Based on the latest Microsoft® .NET technologies, its components are easy to deploy and configure.

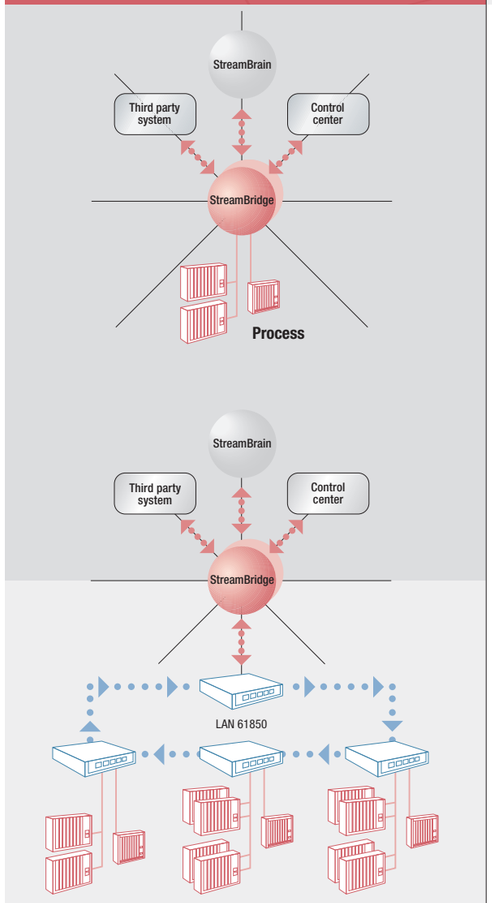
Microsoft® SQL Server™ offers StreamBridge robust, high-performance databases.

StreamBridge publishes all its data natively in compliance with standard OPC DA 2.05.

Features

- Redundant system
- Simultaneous communication of several acquisition protocols
- Data conversion between sources using heterogeneous protocols
- Tracing and recording of communication transactions to processing systems
- Flexible and easy configuration by StreamTools
- Modularity
- High performance level
- Based on the latest generation of Microsoft technologies

StreamBridge is used for the acquisition of process data and for communication between heterogeneous systems. Including many data exchange and acquisition protocols, it serves as a gateway between different systems. Thanks to its modular structure, StreamBridge has many different application areas.



Communication gateway

StreamBridge allows the acquisition of data from many different sources. It also serves as a gateway to send orders and instructions to the process. StreamBridge ensures data conversion between sources using heterogeneous protocols. For example, information acquired by protocol IEC 61850 can be transmitted by protocol IEC 60870-5-104 or vice-versa.

Communication protocols handled by StreamBridge

- IEC 61850 Client
- IEC 60870-5-101 Master and Slave
- IEC 60870-5-103 Master
- IEC 60870-5-104 Client and server
- Landis & Gyr TG800 Master and Slave
- SAIA S-BUS TCP/IP – Master Series
- SNMP V1, V2 Client
- ALSPA S8000 Client
- OPC DA 2.05 Client and Server
- RP 570, 571 Master
- Modbus/JBUS TCP/IP – Master Series
- TASE 2 (ICCP)
- ABB MB300

Process image

StreamBridge keeps all states for which it has been configured up-to-date. It activates communication protocol modules to obtain data, stores values received, assigns values dates if they are not native to the proprietary protocol and keeps up to date information concerning the quality of values. All process image data are published natively in compliance with standard OPC DA 2.05. Configuration of the process image can be changed online without interrupting acquisitions from the process.

Information transfer

StreamBridge forwards process information to many applications such as :

- The StreamBrain module (SCADA)
- A third party market system (e.g. via OPC DA 2.05)
- A control centre (e.g. via IEC 60870-5-104)
- A third party communication gateway (e.g. via TASE.2)

Information processing

Streambridge offers the possibility of creating objects derived from process objects.
These objects are defined with complex mathematical functions and conversions and can be configured in cascade.