

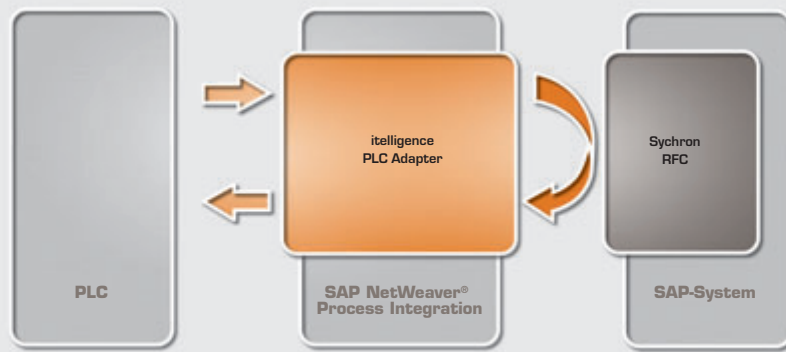
Conceptual Solution & Technical Specification

PLC ADAPTER

A programmable logic controller (PLC) is a device that is used for control or regulation of a machine or system and is programmed by digital means. In many cases, it makes sense to connect these devices via a central SAP NetWeaver Process Integration (SAP NW PI) or SAP NetWeaver Exchange Infrastructure (SAP NW XI) middle-ware component, in order to permit communication with back-end systems, for example. For this reason, itelligence has developed a corresponding adapter.

The itelligence PLC adapter is designed as an integrated SAP PI/XI adapter for direct integration in the SAP Adapter Framework. The adapter permits the use of the extensive monitoring and alerting functions of all incoming and outgoing PLC messages within a central SAP NetWeaver PI/XI platform. The communication protocol used supports a separate TCP transmit channel and a separate TCP receive channel with messages of fixed length for synchronous communication over PI.

Functional Overview



Technical Specification

Functionality	Supported
Supports 2 separate PLC server sockets for request and response	✓
Raw data transfer	✓
XML wrapper for PLC packets	✓
Logging and alerting for system response times	✓
Best Effort (BE) message service	✓
Exactly Once (EO) message service	✓
Exactly Once In Order (EOIO) and synchronous message service	✓
SAP Adapter and Communication Channel Configuration panel	✓

Potential customers

SAP

- Customers who are interested in introducing an SAP PI and who need to incorporate a PLC

Non-SAP

- Customers who already use a proprietary PLC connection and want to replace it with an integrated SAP solution

Requirements

The following service packs are supported:

- XI 3.0 from SP 16
- XI 7.0 from SP 9
- PI 7.1 from SP 6
- PI 7.11 from SP 3

The itelligence it.x family

In addition to various technical adapters, we offer a range of solution modules comprising it.x-change, it.x-atlas and it.x-press, based on SAP NetWeaver Process Integration (SAP NW PI, formerly SAP NW XI).

it.x-change is a sophisticated EDI solution that enables your business contacts (clients, suppliers and so on) to link to your IT systems easily and securely.

As an exporter, the certified solution it.x-atlas allows you to implement the electronic connection to the ATLAS export procedure of the German customs authorities, legally required as of July 1, 2009. With it.x-idee, a similar solution is also available to you for Switzerland. Other countries will follow step by step.

With it.x-press, itelligence has developed an integration solution which enables a direct electronic connection with CEP service providers. By means of it.x-press, you can easily and effectively integrate your courier, express and parcel service providers in your SAP system and implement a fully automatic, electronic exchange of data.

Additional information can be found at: <http://it-x-change.itelligence.de/en> and <http://it-x-press.itelligence.de/en>