

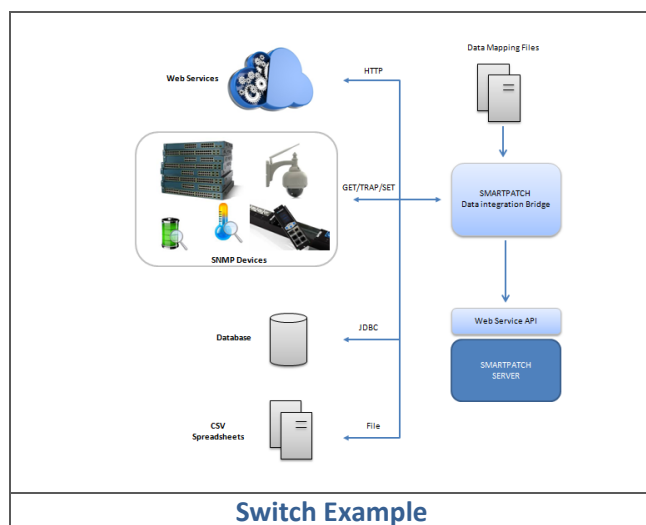
APPLICATION

The Data Integration Bridge is a software tool that seamlessly synchronizes data to and from external sources with SmartPatch CMS. For synchronizing data into SmartPatch CMS, the tool updates user defined data fields (attributes and resources) in SmartPatch CMS with their corresponding values from the external sources, thus avoiding data duplication, time consuming manual entry and ensuring that the information viewed in SmartPatch CMS is automatically up to date. For synchronizing data from SmartPatch CMS, the process works in reverse, with the values of user defined data fields being sent to the corresponding external sources, for example to send SNMP control commands to SNMP-enabled devices.

The tool supports a number of standard mechanisms for interfacing with the external source data:

FEATURES

- Synchronizes data to and from external sources
- Avoids data duplication and time consuming manual entry



ORDER INFO

Brand-Rex Part Number	Item Description	Integration
IPSSWSVRDIB	SmartPatch enhanced software - Server - In-house - GIS integration	System integration possibilities when using IPSSWSVR20R as the basic requirement
IPSSWSVRDIB-CA	SmartPatch enhanced software - Software as a Service - Data Integration Bridge	System integration possibilities when using IPSSWSVR20R-CA as the basic requirement

STANDARD INTERFACING MECHANISMS

The tool supports a number of standard mechanisms for interfacing with the external source data:

- SNMP
 - The SNMP integration capabilities in the Bridge provides for synchronization with SNMP Object values from any SNMP enabled device types such as switches, routers, power and HVAC devices. Object values in the devices are retrieved via either SNMP GET according to user-defined schedules or on-demand via SNMP TRAPS. Object values in the devices are updated using SNMP SET.
- DATABASE
 - The database integration capabilities in the Bridge provide for synchronization with database fields from the following DBMS types; MySQL, MS SQL Server, Oracle, IBM DB2, PostGreSQL. Database field values are synchronized via JDBC.

- Web Services
 - The database integration capabilities in the Bridge provide for synchronization with Web Services endpoints using HTTP(S).
- File Based
 - The file integration capabilities in the Bridge provide for synchronization with values in comma-separated value (CSV) text files.
- Deployment
 - Interfacing between the external data sources and SmartPatch manager is performed via the standard SmartPatch Web Services API. The Bridge itself is a lightweight Java-based tool that is suitable for deployment on both Windows and Linux based systems.
- Configuration
 - Configuration of the tool is simple, flexible and easily maintainable: Specification of the mapping between user defined data fields (attributes and resources) in SmartPatch and their corresponding values from the external sources is configured by the user in spreadsheet-based data mapping files. Any combination of the supported synchronization mechanisms can be configured, so for example, if only SNMP synchronization is required, then only the SNMP mappings need be configured.

When multiple mechanisms are configured, they run seamlessly in parallel. Specification of the frequency at which the synchronization between the external data sources and SmartPatch occurs is configured in user-defined schedules in the data mapping files. This allows the user to construct efficient fine-grained scheduling.

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