Semansys XBRL Integrator

## Standard application for processing business reporting in XBRL format

Semansys XBRL Integrator is an advanced processing facility for receivers of business reports and financial statements in XBRL format.

The XBRL Integrator is used by organizations that need to receive, validate and process larger quantities of XBRL instances, include regulators, 'infomediaries', researchers, financial institutes and corporations. The XBRL Integrator provides quality and efficiency in receiving and processing business data.

Semansys has a long history in making XBRL work for companies and individuals. That experience is translated into a robust software application that is dedicated to making information available for end users.

Highlights Semansys XBRL Integrator

- Comprehensive system for receiving and processing XBRL reports
- Prepares data for analysis and reporting
- Fits in any technical and data architecture
- Provides data quality and assurance
- Runs automatically and autonomously
- Highest level of validation available
- Your standard solution for using XBRL data

Supporting existing architectures

A typical implementation of the XBRL Integrator involves mapping of XBRL information elements to the data structure of multiple existing databases and data warehouses. The system can be used to update any combination of standard relational database such as Oracle, SQL Server, DB2, Informix and Sybase. The XBRL Integrator uses standard database connectivity facilities. Once configured, the system will work quietly in the background while ensuring quality, reliability and accuracy in your financial information supply chain.
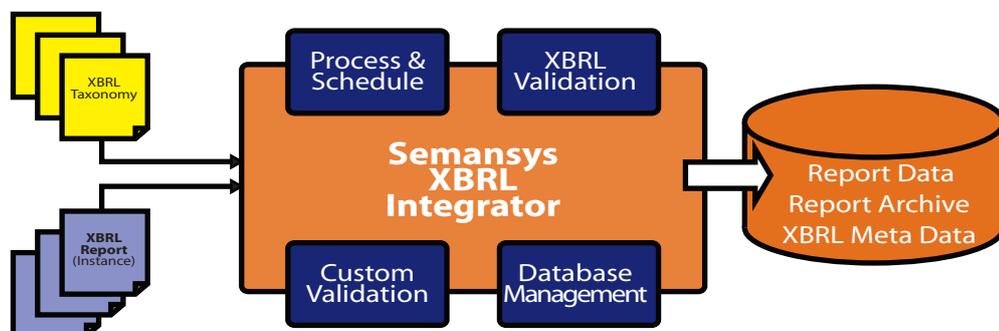
A versatile and simple to use facility

Semansys has developed the XBRL Integrator for those who want to receive and use the digital reports in XBRL known as Instance Documents. The XBRL Integrator supports the conceptually simple, but technically complex, process of transforming the exchange format XBRL into practical information in a database. It is designed to be used in virtually any technical environment and to run automatically, entirely without any manual assistance. The XBRL Integrator is your automated operator who is dedicated to processing incoming data and to making information available for your convenience.

Automatic exchange of business data

XBRL is the global standard for digital reporting. The standard allows for automated creation and processing of financial and business reporting in various sectors and industries. Quoted companies file their reports in XBRL and make them publicly available. Private companies are producing reports for tax agencies and various others. Subsidiaries produce XBRL reports for the benefit of local authorities and for corporate reporting. All this information is there to be leveraged from by corporate controllers, information brokers, financial analysts, credit managers, regulatory bodies, tax agencies and numerous other individuals and institutions. You only need to load the reports in a database system for further analysis and reporting.

Bridging XBRL and your database

Semansys XBRL Integrator hosts a number of tools that facilitate insight and control over the data being processed and stored. This tooling can be used to query the XBRL Integrator database for quality control, audit or data extraction. In certain specific occasions this functionality can also be used for database administration and maintenance. A query tool assists in creating specific queries.

Through our special hierarchical view of taxonomy data, the user is supported in understanding the contents and structure of the database. If required, this functionality can be used to visualize the relationships between the XBRL taxonomy elements and the XBRL data stored in the database and to create queries based on those views. This functionality is highly valued by business users and specialists who want to derive a maximum of value from the assembled business data.

Extensive checking and validation

In order to assure the quality of your data repository, the XBRL Integrator can perform a large number of validations and checks. The validation process - customized to fit your specific needs – can include:

- XML validation; to check XML syntax
- XBRL taxonomy validation; using more than 140 validation points to ensure compliance of the taxonomy to the appropriate specification of XBRL
- XBRL instance validation; applying more than 150 validations on the instance documents to ensure compliance of the report itself
- Custom validation; evaluation of business rules to check the completeness and correctness of the financial or business data

If an invalid XBRL document is submitted the XBRL Integrator will automatically generate a detailed validation report and store the original XBRL report plus the validation report in a separate subdirectory. The receiving company can review and decide how to handle the XBRL document not matching the customized criteria.

Database update, doing the actual job

Once configured, the XBRL Integrator can run continuously while waiting for reports to arrive. Also it can be applied to process batches of reports. A process monitor will provide feedback on the progress made. The event handler will log all operations for auditing purposes.

Particularly when public data is processed, it is very well possible that the structure of the recipient database does not fit the structure of the XBRL report. In that case a database structure can be created, maintained and updated automatically. By doing so, the user of the data can utilize the entire structure and richness of the XBRL document, independent of any existing data structures.

By choice one can customize the XBRL Integrator to store the meta data an concepts in the XBRL database. Full flexibility is provided to store all or parts of any number of taxonomies, eg only the elements, the relationships, the calculation structures, the labels or references.

Archiving for legal and quality reasons

The XBRL Integrator can automatically file and store validated reports in an XML database, in its original shape. This allows the receiving organization, such as regulators, to adhere to legal requirements, to provide feedback to preparers or to process the document for other uses.

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XBRL Services
- FTP/dir. handling
- Email processing
- Processing
- Scheduling
- XBRL validation
- Custom validations

XBRL data management
- Taxonomy objects
- Integrity
- Mapping
- Storage
- Archiving
- Query builder

Data store
- Taxonomies
- Usage details
- Report data (SQL)
- XBRL archive (XML)
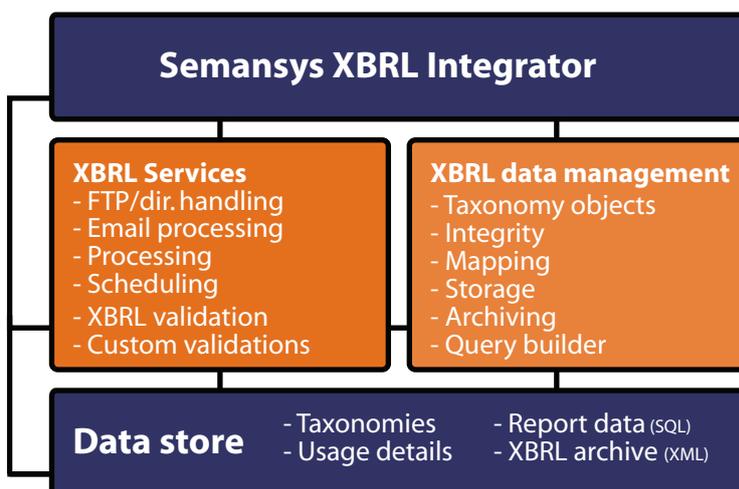
Availability

Semansys XBRL Integrator is available in various editions tailored for personal, departmental or corporate use. Ask Semansys or your reseller for your optimal configuration. Semansys XBRL Integrator runs on any standard configuration of Windows Server 2003 or Windows XP and up.

For more information about Semansys and other products by Semansys, visit www.semansys.com.

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