

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. In the hands of specialists 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.

On invalid XBRL document the XBRL Integrator will automatically generate a detailed validation report and store the original XBRL report plus the validation report in a separate Refused 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 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.

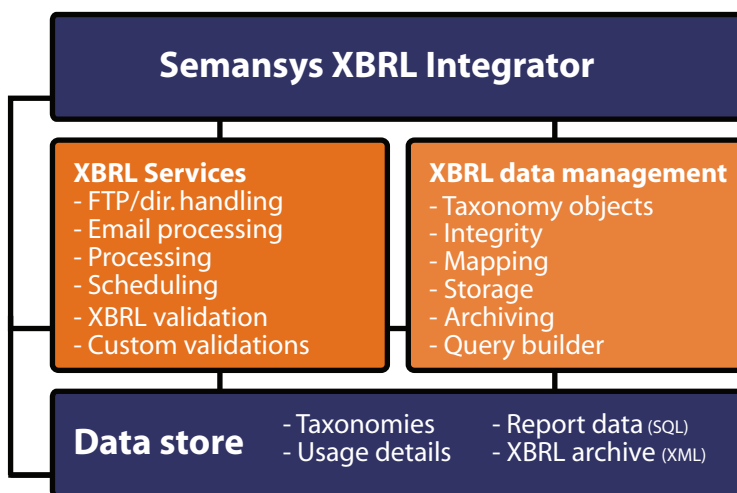
Particularly when public data is processed, it is very well possible that the structure of the recipient database

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 and 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.



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.

Semansys Technologies BV

Tel.: +31 793 615 931

E-mail: sales@semansys.com

Visit: www.semansys.com

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

© 2009 Semansys Technologies. All rights reserved. This data sheet is for informational purposes only. Semansys Technologies makes no warranties, express or implied, in this summary. The example companies, organizations, products, domain names, e-mail addresses, logos, people, places and events depicted herein are fictitious. No association with any real company, organization, product, domain names, e-mail address, logo, person, place or event is intended or should be inferred.

Semansys, Semansys Technologies, Semansys XBRL Integrator, Semansys XBRL Composer, XBRL Enterprise Manager, Semansys XBRL Reporter, xbrlOne are either registered trademarks or trademarks of Semansys Technologies BV in The Netherlands and/or other countries and respective owners..

"XBRL™" is a trademark of the American Institute of certified Public Accountants ("AICPA")." www.xbrl.org