



# SAP®/STARLIMS Integration at Novozymes



**Novozymes is the world leader in enzyme solutions. Based on an advanced biotech platform, Novozymes produces and sells almost 500 enzyme products in 120 countries. Since 1941, Novozymes has introduced almost every new industrial enzyme on the market, making it the world's largest manufacturer of enzymes today, with a global market share of more than 40%.**

Novozymes' Quality Control department is responsible for testing in-process and final product quality. STARLIMS is used to support this effort.

Like many other companies, Novozymes uses SAP® as its Enterprise Resource Management system. SAP® is the recognized leader in providing collaborative e-business solutions for all types of industries and for every major market. SAP® is the world's largest inter-enterprise software company, and the world's third-largest independent software supplier overall.

SAP® has 10 million users; 1,000 partners; and 22 industry solutions. Today, more than 13,000 companies in over 100 countries run more than 30,000 installations of SAP® software.

In the course of a STARLIMS User Group conference, Terry Smith of Novozymes presented his experiences on the interaction of SAP® and STARLIMS.


The STARLIMS/SAP® Interface at Novozymes covers the Sample Registration in SAP®, the Sample Receipt in STARLIMS, Results Entry and validation in STARLIMS and finally posting the Batch values to SAP®.

### **Sample Registration using SAP®**

The operator produces a Materials and Goods Receipt into inventory. An inspection plan is located and assigned to the material. Sample Numbering is allocated and Sample Drawing Instructions are determined by SAP®, and the Sample Labels are printed. Once sampling occurs, the inspection request is flagged for download to STARLIMS.

### **Delegate Inspection Requirements**

At this stage, a SAP® Batch Job polls for all STARLIMS delegated Inspection requests. It uses a slightly customized version of SAP® QM-IDI and extracts Inspection Lot Header Data, Inspection Lot Detail Data and the relevant Catalog Data.



**“Use of SAP® has allowed Novozymes' STARLIMS to focus on true laboratory functions.”**

# Flexibility . Responsiveness



Execution / Error logs are written and the data is transferred to the local STARLIMS database. The STARLIMS Batch Processor then translates the data into planned analysis and provides any new inspection requirements. The sample is released by bar-code scanning of the sample number, and is submitted by a SAP® inspection plan to STARLIMS. The SAP® methods are translated into the appropriate LIMS methods and the Results Recording procedure is activated.

## Result Entry

The appropriate SAP® Method is defined as Method of Results Recording. Thus, the results are processed statistically within the lab before publishing to SAP®. The lab analysts control the production of results, with tools surrounding STARLIMS' results table.

## Upload Inspection Results

Once STARLIMS has finalized result processing, the data is translated into SAP® format and is then transferred to the SAP® database. A SAP® batch job is then run to upload the individual results' data to the corresponding inspection lot.

## Conclusion

In summary, Smith states, the SAP®/STARLIMS integration has been a success. The lab inspects over 1,000 lots a month, with 8,000 tests and 11,000 Weightings of Samples each month. The SAP® integration requires heavy usage of the STARLIMS batch processor, which runs approximately 3,000 times a month with an uptime of 99.8%.

Use of SAP® has allowed Novozymes' STARLIMS to focus on true laboratory functions, instead of dealing with the material management functions that were run by STARLIMS before the SAP® implementation. This focus will allow the LIMS team at Novozymes to further invest in automating the results entry functions, using work lists and a variety of instrument links.

**STARLIMS Corporation delivers cost effective, easy-to-use collaborative LIMS solutions to organizations in the public health, pharmaceutical, petrochemical, forensics, food & beverage, environmental and chemical industries. The STARLIMS full featured, flexible, multilingual laboratory information management system provides complete traceability leading to regulatory compliance. The company's 15-year track record together with STARLIMS architecture have earned it recognition for "future proofing" customers' investments in internal know-how and for straightforward conversions of disparate legacy systems.**

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