HUMAN HEALTH

ENVIRONMENTAL HEALTH

CONNECT YOUR LABORATORY TO SAP

Connector for SAP provides seamless integration between SAP, instruments and laboratory data systems such as ELN, LIMS and SDMS.

- Integrate laboratory instruments directly with SAP to retrieve Inspection Lots, collect data from instruments, perform calculations and post results back to SAP.
- Receive requests and triggers from SAP to execute calculations on behalf of SAP or initiate workflows within the laboratory.
- Automate the transfer of information between SAP and any laboratory system such as Nexxis ELN, Nexxis Sample Tracker, or any third party LIMS, ELN and SDMS.
- Initiate ELN worksheets using SAP triggers.

Connector for SAP uses LimsLink, the industry standard integration tool, to interact with SAP in a variety of ways. Each of these interactions can be linked together to provide full workflow control.

INTERACTION WITH SAP	EXAMPLES
Query SAP for information	1. Retrieve a list of samples for processing, convert it to a sequence file and forward to an instrument. 2. Retrieve additional information associated with a sample, such as limits or lot information, to be used for subsequent calculations, processing, or decision making.
Update SAP with information	1. Send test results or instrument data to SAP.
Accept Notifications from SAP	1. Receive notification of a newly created lot and initiate a worklist retrieval process.
Accept requests from SAP	1. Receive a request from SAP for LimsLink to perform a calculation, and send results back to SAP. 2. Receive a request for data from an external system or instrument.

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Example Workflows

1. **Worklist Driven Workflow** – SAP notifies Connector for SAP that a new lot has been created. Connector for SAP queries SAP for a work list and associated limits. This information is sent to the instrument for sample analysis. Results are received by Connector for SAP which processes the data and reports results back to SAP.
2. **Instrument Driven Workflow** – The instrument analyzes samples and sends results to Connector for SAP. Connector for SAP processes the data, sends raw data files to an SDMS and final results to SAP. SAP can also be provided with a link back to the raw data file.
3. **Calculations Workflow** - Connector for SAP receives a request to perform calculations and it queries SAP and other third party systems for the required information. Connector for SAP performs the calculations and returns results to SAP.
4. **Initiate Analysis Workflow** - SAP notifies Connector for SAP of pending tests and Connector for SAP initiates ELN worksheets, assigns appropriate analysts and schedules the work automatically.

Each of these workflows is able to execute in either black box mode (no user interaction with Connector for SAP during runtime), or client mode (user interacts with Connector for SAP client to initiate actions).

Connector for SAP uses LimsLink to incorporate advanced functionality including automated email notification, checking out of bound conditions and real time monitoring and reporting, into any of the above workflows.

Connector for SAP simultaneously supports multiple SAP systems as well as SAP Custom Functions and Custom Fields. Connector for SAP also connects SAP to Nexxis iLAB, the integrated laboratory solution from PerkinElmer Informatics. Nexxis iLAB compliments SAP by providing many of the lab specific functions not found in SAP. Nexxis iLAB stores all of the metadata not normally stored in SAP, and it automates the analyst at the bench level controlling all of the lab processes. Combining Nexxis iLAB, Connector for SAP and SAP provides a fully integrated solution for the laboratory.

For more information, visit www.perkinelmer.com

PerkinElmer, Inc.
940 Winter Street
Waltham, MA 02451 USA
P: (800) 762-4000 or
(+1) 203-925-4602
www.perkinelmer.com

PerkinElmer®

For a complete listing of our global offices, visit www.perkinelmer.com/ContactUs

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