

Libelle *SystemCopy* Automated and optimized system copies for SAP® applications

Libelle **SystemCopy** (LSC) is a framework-based software solution to create fully automated and optimized homogeneous system copies for SAP® applications.

Key features of the solution are:

- Quick update of QAS, DEV, or TEST systems with fresh production data
- Fully automated pre-processing, full system copy, and post-processing
- Fast turnaround and minimum manual intervention during process
- Standardized procedures with consistent results
- No changes to existing SAP landscape necessary

Creating homogeneous system copies for SAP applications can be very time- and labor-intensive. With the complexity of modern-day service-oriented SAP landscapes with multiple production instances and dozens of non-production systems, it's important to save time by automating procedures. Avoiding manual interventions also avoids faulty or inconsistent results.

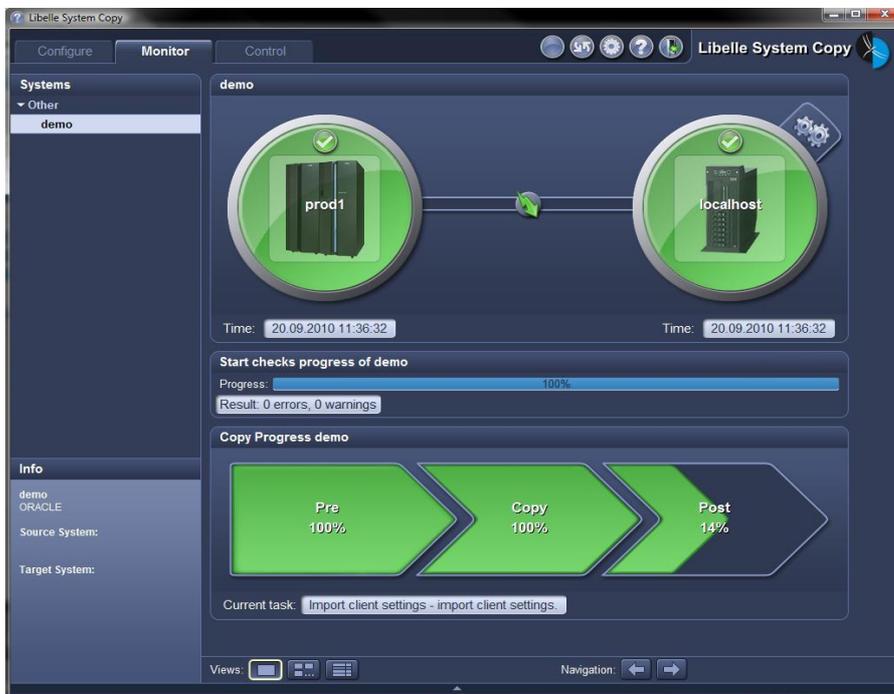
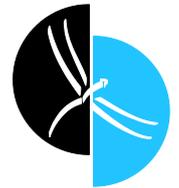
Automation of System Copies

There is potential for simplification. The Libelle **SystemCopy** (LSC) Software Solution reduces the challenges and manual work of SAP system copies to just two tasks: (1) start an automated process and (2) monitor the same. LSC is set up once specific to the database, SAP instance, and SAP version. Then the solution will execute the system copy procedure with consistent results as many times as needed with the flexibility to adapt to changing environments.

Advantages in a Nutshell

- Supports UNIX®, Linux, Windows® platforms with existing infrastructure.
- Supports all Oracle®, MaxDB™, SAP HANA®, Sybase/SAP® Adaptive Server® Enterprise, DB2®, or Microsoft SQL Server® databases.
- Easy installation and SAP landscape integration.
- Server Agents with standard TCP/IP for data exchange.
- Separate Client GUI to setup, manage, and monitor procedure (or command line).

The system copy procedure includes a full copy of the actual SAP data from production to QAS or DEV systems. Libelle **SystemCopy** supports existing copy infrastructure such as Snapshots® or Backup/Restore. Alternatively, Libelle provides an integrated copy tool which has been used to mirror databases and flat files for over a decade based on the Libelle **BusinessShadow**® solution.

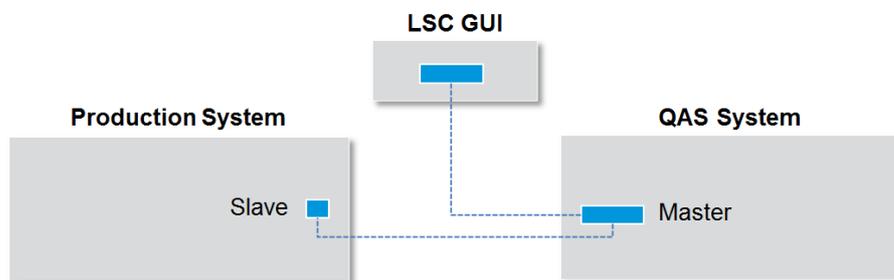


LSC GUI

The Graphical User Interface is used to setup the system copy configuration and monitors the progress of the system copy.

Libelle SystemCopy (LSC) Architecture

To set up LSC, a master server agent is installed on the target system (for example QAS). If the Libelle copy tool is used for copying all the database and flat files from the production, or other production data is required, an additional slave server agent is installed on the production system. All agents run directly on the server to allow any operation outside the SAP application (database, file system, etc.) and SAP transactions with any SAP user as necessary.



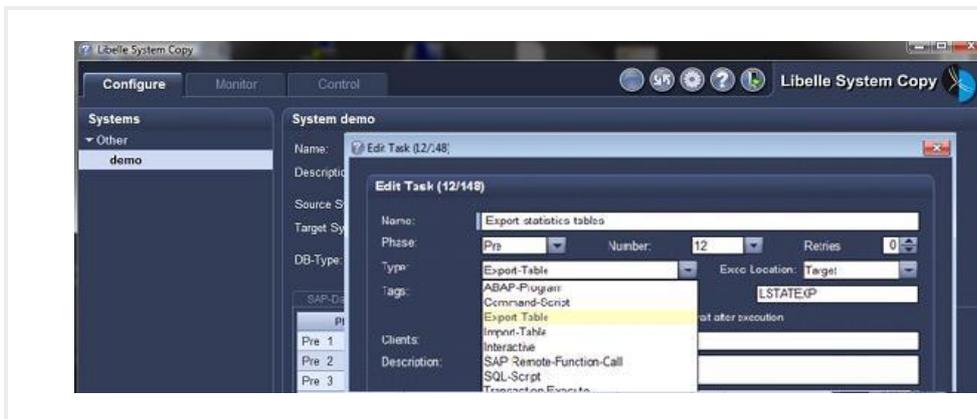
LSC Architecture

The solution is based on hard-coded master and slave server agents and are managed with a separate GUI

LSC Tasks

Creating system copies requires the execution of a certain number of activities. LSC categorizes these activities into dedicated tasks which are pre-defined and pre-configured upon installation. The customer can extend the tasks with own procedures and activities. LSC can run the following task types:

- Run ABAP® Programs
- Run Command-Scripts
- Export or Import Database-Tables
- Wait for Administrator-Interaction ('Interactive Task')
- Execute SQL-Scripts
- Execute SAP-Transactions



Tasks

LSC allows the definition of tasks which are pre-configured upon installation and can be extended by the customer.

Libelle SystemCopy Procedure

The **SystemCopy** procedure itself is based on years of best-practices field-experience and executed in three phases. In each phase any number of LSC tasks will be executed automatically:



The master server agent is managing and monitoring the sequence of execution of each task in each phase. After every successful task completion, the next task is started automatically. The administrator is able to set intentional break-points ('interactive task') to execute other activities and forces LSC to wait for administrator intervention.

<p>Automated Pre-Processing</p>	<ul style="list-style-type: none"> • Validate the Infrastructure • Prepare the Systems • Adjust Job Statuses • Back up critical System Components <ul style="list-style-type: none"> · Tables · License Data · User Access Data
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<p>Automated Copy-Process</p>	<ul style="list-style-type: none"> • Transfer of current production database and flat files data to the target system (Libelle copy) or • Support of existing infrastructure to create copies of production data (customer copy)
<p>Automated Post-Processing</p>	<ul style="list-style-type: none"> • Clear and/or adjust all relevant system areas • Restore relevant settings and system components • Verify system environment

Process Optimization

With the vast automation features, Libelle **SystemCopy** is already providing enormous time-savings for the procedure. In addition, Libelle implemented specific optimization functionality for the system copy process. An example is the dramatic reduction of time necessary to run the SAP BDLS transaction to convert logical system names as LSC provides a massively parallelized procedure to provide a fresh QAS System under a new name in the shortest possible time.

More Information

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