

CASE STUDY

WMS software retrofit:
LANDI Switzerland AG and SSI SCHAEFER adopt a big bang approach

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 **WAMAS**[®]

 **SSI SCHAEFER**

A CLASS A WAMAS® RETROFIT

LANDI Switzerland and SSI SCHAEFER skip not one but two software generations thanks to successful big bang adoption

The central warehouse at LANDI Switzerland AG in Dotzigen supplies 270 LANDI stores in German-speaking and western Switzerland. To do so, LANDI Switzerland works with 1000 suppliers worldwide and distributes around 8000 products to LANDI stores. A WAMAS® warehouse management system and material flow system from SSI SCHAEFER takes care of the intralogistics processes. LANDI Switzerland uses the high-performance WAMAS® Lighthouse system for complete visualization and control of the entire system, which integrates seamlessly into the existing IT infrastructure.

In November 2020, the successful go-live marked the completion of a software retrofit unlike any other: The extraordinary big bang adoption by LANDI Switzerland and SSI SCHAEFER involved skipping not one but two software generations.

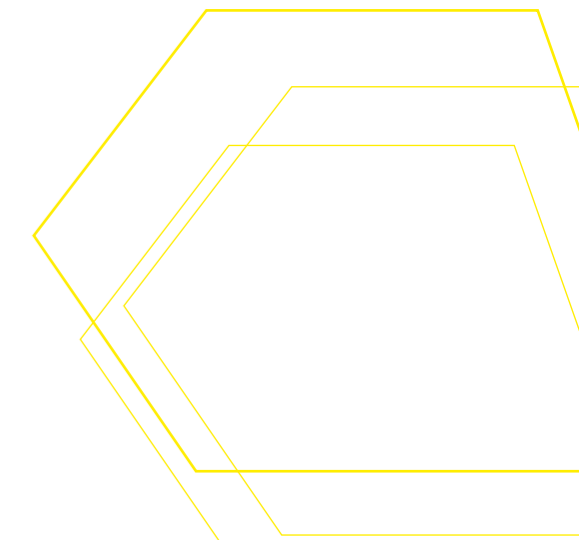
In 2003, SSI SCHAEFER installed its WAMAS® version 3 warehouse management system at LANDI Switzerland. Seventeen years later, a completely new software generation - WAMAS® version 5 - replaced the tried-and-tested system to significantly optimize the logistics tasks in the warehouse.

INCREDIBLE COMPLEXITY IN A COMPACT SPACE

Almost all types of intralogistics - from manual to fully automated systems - are used to store, pick, and ship the range of around 8,000 items.

LANDI'S 35,000 m² central warehouse houses an extremely high density of goods and services. Warehouse logistics have been continually expanded with several double-deep high-bay warehouses and Pick by Voice support in the tunnel picking, automatic bin warehouses, and Commissioner, as well as several goods-to-person stations set up by SSI SCHAEFER and intensive process monitoring with automatic scanners and balances on the conveyor systems.

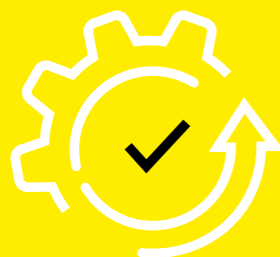
WAMAS® impresses with its ability to control an automated warehouse of this level of complexity and optimize workflows, resulting in a smooth, error-free process.



LANDI Facts & figures

- Sector: Retail sector
- Headquarters: Dotzigen municipality in the canton of Bern
- Locations: 270 stores, 2 central warehouses (Dotzigen, Switzerland and Lahr, Germany)
- Employees: The LANDI retail sector (LANDI stores) employs around 4,000 members of staff, while LANDI Switzerland in Dotzigen employs 400.
- Size: 80,000 m²
- Turnover: 1.4 billion CHF (2019)

RETROFIT



In intralogistics, the term „retrofit“ refers to the modernization of machines, equipment, and software systems. It is a cost-effective alternative to buying new, ensures sustainable operation, and goes hand in hand with increased system efficiency. The complex and strategically challenging nature of the Class A project, not to mention the associated scheduling difficulties, involved updating the **WAMAS® warehouse management system and WAMAS® material flow system** logistics software, as well as the **WAMAS® Lighthouse system visualization** and information platform.



WAMAS® makes a real impression with its stability and process reliability:

So much so that the established project team decided to change their original plan - a two-stage go-live. The team had complete confidence in the new system so they decided to opt for a big bang instead: the software for the entire warehouse in Dotzigen and thus for all manual and automatic intralogistics processes was changed over in parallel and as quickly as possible - in just one day.



BIG BANG

WAMAS® at LANDI: quick, reliable, uninterrupted

A big bang adoption is the immediate transition to a new software generation, during which all old systems are changed over to the new, fully functional system in parallel on a specific date. The advantages of a big bang are the fast go-live and the avoidance of several WMS (old and new) being in use in parallel for ERP. This approach is, however, more resource-intensive and therefore requires more coordination as all previously described processes must be switched over at the same time and intensive preparations are needed to prevent errors. In this case, the longstanding partnership between LANDI Switzerland and SSI SCHAEFER, as well as the excellent teamwork on the project, made the switchover easier.

WAMAS® controls and visualizes continuously and without interruption

To fully exploit the potential of a warehouse, all systems must function without any interruptions both during and after the release upgrade. The new WAMAS® warehouse management system and the material flow system controls the western and eastern part of the warehouse infrastructure - both with separate goods-in and goods-out, connected via a 100-meter long gangway, with a roller conveyor for pallets. The WAMAS® Lighthouse system visualization is the central information platform which provides a constant overview of all systems and highly complex logistics processes in the warehouse. It provides a topological view of the system, allowing the bigger picture to be examined. Continuously adjustable zooming down to individual conveyor, storage, and picking systems makes

analysis and key performance indicators visible in ever more detail: for example, the filling rate of the conveying system or an exact description of the individual storage locations. Special attention was paid to the high number of automatic barcode scanners and handheld scanners. WAMAS® Lighthouse reports barcode scanner errors in real time so that they can be resolved without delay. A high level of confidence in the standardized and individually adapted customer processes in WAMAS®, professional project management, and the accompanying quality assurance measures facilitated the successful big bang release update.

There were no interruptions to operations or any significant backlog as a result of the switchover.

Stefan Eggli, Head of Conveying Systems / IT Logistics, LANDI Switzerland AG

RETROFIT: THE SSI SCHAEFER SERVICE PACKAGE

Replacing existing warehouse technology with modern software applications during ongoing operation is one of the biggest intralogistics challenges.

Technical progress, growth, and market changes call for a migration concept that enables a reliable release upgrade with minimal impact on operations. On the one hand, it is about future-oriented and user friendly software solutions, which intuitively address the challenges of complex warehouses. As a uniform group software solution, WAMAS® is not restricted by the number or geographical location of sites - offering a scalability which provides the highest possible investment protection. Thanks to continuous further development alongside innovative and

customer-specific solutions, LANDI Switzerland has a powerful tool that will fully meet future market requirements. On the other hand, highly professional project management is extremely important: intensive, trust-based collaboration with the customer is always, without exception, the priority. This calls for a skilled team to take on the project management together with the customer with complete transparency.



A **big bang**, which involves switching over both manual and **automatic processes as well as a variety of technology all at the same time**, is extremely exciting. Thanks to our excellent collaboration with LANDI, this has been a complete success.

Karoline Poderschnig,
Project Manager IT, SSI SCHAEFER

CONCLUSION



For around two decades now, LANDI Switzerland has been putting its faith in the expertise of SSI SCHAEFER. This longstanding partnership and associated intensive collaboration enabled the software release upgrade of the WAMAS® warehouse management system using the big bang approach - a successful migration, which skipped not one but two software generations. Immediate transition to WAMAS® 5.8 in the central warehouse was quick, smooth, and did not significantly affect ongoing operation.

SIX REASONS WHY YOU SHOULD CHOOSE SSI SCHAEFER

- **Security**

As a financially independent family business, SSI SCHAEFER thinks long-term; you can rely on our expert team to be there for you today, tomorrow and into the future.

- **Cost effectiveness**

SSI SCHAEFER solutions are scalable and grow with your requirements, so you can retrofit or modernize at any time.

- **Quality**

As a system specialist with its own production facility, SSI SCHAEFER delivers you high-quality solutions tailored for your individual needs, all from one source.

- **Reliability**

Thanks to our own worldwide customer service support network, SSI SCHAEFER can ensure your system functions smoothly in the long term, both during and even long after installation.

- **Expertise**

SSI SCHAEFER's solutions are always state-of-the-art and can be integrated seamlessly into your existing (IT) landscape.

- **International presence**

As a global business, SSI SCHAEFER has local branches worldwide; with around 70 operating companies, our expert team speaks your language.

WAMAS®: Part of the Magic Quadrant

The renowned US research and advisory company **Gartner, Inc.** lists SSI SCHAEFER and its software WAMAS® 2021 in the "**Magic Quadrant for Warehouse Management Systems**". This underlines the quality and central role of the software by SSI SCHAEFER.*

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We assume no liability for printing errors.

* Gartner, Magic Quadrant for Warehouse Management Systems, Simon Tunstall, Dwight Klappich, 30 June 2021

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