

# Reference report

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## About SIGMA

As a renowned system house group, SIGMA Chemnitz GmbH acts as a system integrator and partner of well-known providers in the IT sector. Our more than 80 employees at the Chemnitz and Dresden locations form a competent team. With know-how, competence and more than 30 years of experience we offer our customers reliable and powerful solutions.

## About our AutoID and RFID solutions

AutoID and RFID solutions for production, logistics and supply chain. Our customers appreciate us as competent, innovative partner, to accompany them from the initial problem analysis until the goal with commitment. Many years of project experience of our employees form the foundation for effective AutoID and RFID solutions for production, logistics and supply chain.

## About GRAIDWARE®

The AutoID middleware GRAIDWARE® is an intelligent abstraction layer for different hardware components and business applications. Work tools, production steps and AutoID data can be identified, monitored, controlled and configured.

## Transparent window production in batch size 1

JTI Sonneborn Industrie GmbH is a German production company of the VELUX Group with headquarters in Sonneborn, Thuringia, and is a pan-European exporter of high-quality wood and vinyl windows.



[www.velux.de](http://www.velux.de)

## Decision for RFID

Make-to-stock production is increasingly being replaced by make-to-order. Production to order demands a high degree of flexibility from producers. The window manufacturer VELUX was also faced with the challenge of reacting efficiently to individual orders in its production. Due to the variety of window models and variants as well as an order quantity up to batch size 1, the use of conventional production papers is no longer possible. Therefore, VELUX decided to completely convert its three production lines at the JTI Sonneborn plant to paperless manufacturing. UHF RFID technology emerged as the most suitable for one-off production.



## About the project

With the Chemnitz IT company SIGMA, VELUX found an experienced system integrator as a partner who integrated the GRAIDWARE LOS middleware developed in-house, thus ensuring greater transparency of the manufacturing process and an error rate approaching zero. All control processes of the individual system parts are brought together by means of the Softing OPC Suite, which in turn is linked to GRAIDWARE LOS via OPC-UA. Pick-by-light systems on the line also signal to the plant operators which RFID-labeled component has to be removed for assembly.

## This is what our customer says...

*"In the last 2 years we have changed our production from a pure mass production to a single-part production ... Production papers are no longer tradable in this environment. With the RFID technology and SIGMA as a competent partner we have found a technology that meets our requirements in this area and which we will roll out in other production areas in the coming years."*

Toralf Brandt, Production Manager at JTI Sonneborn Industrie GmbH

## Überschrift

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## ***Our customer says so...***

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*Vorname Nachname, Position, Kunde*