

## The company

SRI is located in the South of Germany. The corporation is a long-term specialist in electronic products and provides superior support to a diverse customer structure in Manufacturing & Sourcing, Engineering & Services and Consulting & Training. SRI has developed into an extremely efficient electronics manufacturer and competent partner for the introduction of new products while still being an independent corporation within the Nokia Siemens Networks group.



Since the beginning of 2000, SRI persistently pushed forward the implementation of Lean Management in the manufacturing of electronic devices. In 2005, it has received the “Best Factory Award.”

The portfolio of SRI is a customer specific manufacturing of electronic and electro-mechanical products based on SMT and THT technologies. The functionality of electronic devices increases. SRI responds to these challenges with a high-tech manufacturing and testing technology that is individually adjusted to manufacturing requirements:

- Five high-tech SMT assembly lines
- Hourly production: up to 200,000 SMD´s
- Single sided or double sided, leaded or unlead mounting of devices
- Controlled quality

## The goals of the project

In 2001 SRI introduced OEE in the shop floor using a manual data input system based on MS-Excel. This method was applied on 5 key machines and enabled first basic improvements of the process. The concerned operators became familiar with OEE and accepted the tool for their daily work. Shortly after the first project period SRI was confronted with the barriers of the manual data input: high additional workload for the operators and inaccurate evaluations for further corrections. It was evident that the Excel method was not efficient for an area-wide utilization of OEE.

SRI decided in 2006 to find a new OEE product offering an automated operation. 8 different products including an in-house development were tested, compared and evaluated. Finally SRI decided for our OEE Analyser considering all technical features and commercial requirements. The product should offer a simple implementation and extension, deliver precise results and unburden the operators from manual effort as far as possible.

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## The implementation

The OEE Analyser was introduced stepwise. For new production areas, the users and IT administrators were trained and supported. Today the system covers all production machines and testing equipment. A central server with an Oracle database is used.

The OEE Analyser supplies large screens (LCD monitors) as well. These monitors are installed in the shop floor and display accurate performance data of the shift. For additional individual reports and analysis, SRI is using the business intelligence software from Jaspersoft.



## The results

With the OEE Analyser, the planned target to increase the productivity by 6 % after the first year could be achieved. Due to the current business situation, SRI is facing a new challenge: Minor production batches and a raising product portfolio lead to higher setting-up activities. Based on the KPIs from the OEE Analyser, SRI could keep her high productivity level by measures to shorten the setting-up times (SMED activities).

Markus Wintergerst, Process Optimization at SRI: “The OEE Analyser is easy to handle and was quickly accepted by our personnel. The precise data analysis and adaptability were the background for further improvements of our processes. Today OEE is a vital method in our plant and contributes to assure our international competitiveness.”



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