

Electronics Manufacturing in real time: Fideltronik standardizes production monitoring across more than 25 lines



Electronic
Case Study

Fideltronik standardizes production monitoring across more than 25 lines

Fideltronik now has real-time visibility into the status of its production across more than 25 manufacturing lines. Deviations become immediately visible, enabling the electronics manufacturer to respond faster and steer production more precisely. Production data that was previously only available the following day via business intelligence analyses is now accessible in real time.

This significantly improves Fideltronik's operational control and creates a solid foundation for systematically analyzing and optimizing processes. The enabler: the iTAC.Asset.Analyzer from iTAC Software AG.



Specialized EMS provider for manufacturing

About Fideltronik

Fideltronik is Poland's largest EMS (Electronics Manufacturing Services) provider. Founded in 1986 and headquartered in Sucha Beskidzka, the company operates manufacturing facilities in Kraków and Sucha Beskidzka.

Fideltronik serves industries including Automotive, MedTech, Industrial, Consumer Electronics, Telecommunications, and Lighting.

Its service portfolio covers hardware design, prototyping, production automation, test engineering, and software development.

40-year
experience

End-to-end
services

AI-driven
processes

Smart Factory



Fideltronik

Time lag instead of transparency: why existing data was not enough

Production data was already available in Fideltronik's EMS operations. However, it was analyzed via business intelligence systems and only became available with a time delay. For day-to-day operations, this meant that deviations could only be analyzed after they occurred, not at the time they occurred.

What was missing was a continuous, up-to-date view of the production status. As a result, immediate reactions to disruptions were not possible, and a consistent, real-time production overview for all

stakeholders could not be provided.

Fideltronik therefore looked for a solution that could make production conditions visible in real time, reliably support a large number of assets, and integrate seamlessly into a heterogeneous manufacturing environment. At the same time, it needed to reduce the load on existing systems and serve as a foundation for further optimization initiatives.

Choosing iTAC: scalability and integration as key factors

During the selection process, Fideltronik evaluated several production monitoring solutions. The decisive factors were scalability, stable performance with a high number of connected assets, and the ability to integrate non-standardized equipment. The iTAC.Asset.Analyzer met these requirements and additionally impressed with its flexibly configurable dashboards and comparatively straightforward implementation.

„As an EMS provider, real-time transparency is critical for us. Since introducing the iTAC.Asset.Analyzer, we have achieved a level of control over our production status that was previously not possible. We were particularly impressed by how quickly machines can be connected, even non-standard stations such as test or coating systems.“

Marcin Wnek, COO of Fideltronik



Step-by-step rollout without major infrastructure effort

The implementation followed clearly defined phases aligned with production areas.

- Initially, the iTAC.Asset.Analyzer was introduced in the SMT process, followed by special processes such as coating systems and additional production segments.
- Machine integration was carried out step by step and process by process, allowing lessons learned in each phase to be directly applied to subsequent expansion stages. Even non-standardized equipment could be connected with minimal effort.
- The existing Oracle ERP system was integrated via standard interfaces, keeping additional development work to a minimum. At the same time, monitoring and analysis functions were decoupled from the ERP and MES environments and consolidated within the specialized platform.
- Thanks to low hardware requirements, no extensive infrastructure measures were necessary, enabling rapid productive use.

All data in one place: a central platform for monitoring and analytics

Today, Fideltronik uses the iTAC.Asset.Analyzer as a central platform that consolidates machine and process data from across the entire factory and provides it in real time.

Different user groups receive exactly the information they need thanks to individually configurable dashboards. These dashboards provide everything from live status displays on the shop floor to aggregated KPIs for production managers and executives.

In addition to real-time monitoring, the platform enables historical analyses at machine, line, and factory level. This makes it possible to identify correlations, track developments, and systematically uncover optimization potential.

From fragmented views to a unified perspective: integrating all equipment types

At Fideltronik, the iTAC.Asset.Analyzer is deployed across the entire EMS production landscape. In addition to SMT lines, non-standard equipment such as coating and test stations is also integrated.

This creates a unified monitoring foundation across different equipment types. Production states can be visualized consistently, deviations identified systematically, and improvements transferred beyond individual lines.

A key advantage lies in the flexible machine connectivity. Equipment can be integrated with minimal effort, regardless of manufacturer or level of standardization. Even as the number of connected assets grows, system performance remains stable.



Faster response, more targeted optimization

With the transparency gained, Fideltronik has significantly improved its operational control. Disruptions and deviations become immediately visible, enabling faster responses and reducing unplanned downtime.

Continuous monitoring also supports the systematic identification of bottlenecks and weaknesses. Processes can be standardized and optimized across lines, resulting in improved cycle times and more stable operations.

For users, this means much better day-to-day visibility. Customizable dashboards enhance situational awareness and support well-informed, data-driven decisions based on real-time data.

Next expansion stage: more assets, deeper integration

Fideltronik plans to further expand its use of the iTAC.Asset.Analyzer, connect additional production areas, and deepen integration with existing systems.

„Fideltronik demonstrates how real-time production monitoring can be consistently implemented even in complex, heterogeneous manufacturing environments across many lines and without extensive infrastructure projects. This creates the basis for responding more quickly to change and continuously improving production.“

Martin Heinz, CEO bei iTAC Software AG





iTAC Software AG, an independent company of Dürr, a mechanical and plant engineering company, is a leading MES/MOM provider.

With the iTAC.MOM.Suite, the company offers a comprehensive manufacturing management system that is used worldwide by companies in discrete manufacturing. The industries addressed include automotive, e-mobility, electronics/EMS, telecommunications, medical technology, metal industry, and injection molding.

Other systems and solutions for implementing IIoT and Industry 4.0 requirements complete the portfolio. Among other things, the company offers the iTAC.MA.Suite for in-depth analyses at machine, line, and factory levels, as well as AI-supported solutions.

iTAC Software AG is headquartered in Montabaur, Germany, and has subsidiaries in the USA, Mexico, China, and Japan, as well as a global partner network for sales and service. The iTAC group of companies include DUALIS, Cogiscan, and accevo.

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