

**When precision is the core business, analytical intelligence becomes even more valuable.**

*Tachyonix automates data refinement in the SAP ecosystem and eliminates dependence on manual processes at weapons manufacturer Taurus.*



## History

Founded in 1939, Taurus Armas S.A. is the world's largest seller of light weapons, with a strong presence in the defense, security, and civilian markets.

Throughout its trajectory, the company underwent intense growth cycles, consolidating a strategy focused on innovation, industrial expansion, and investments in automation. Within the context of Industry 4.0, Taurus has been expanding its technological capabilities to increase operational efficiency, ensure product quality, and sustain global competitiveness.

## Challenge

Taurus's accelerated growth and factory modernization brought the need to manage a massive volume of operational information, but access to this SAP data depended on slow and decentralized processes. To track production indicators, such as assembly defects and scrap control per factory, teams had to resort to complex spreadsheets and execute macros that retrieved information from the system. This format caused major headaches with manual extraction and manipulation of files on the network, which demanded time, left room for human error, and created inconsistencies, such as blank data due to the daily registration of new materials and components.

Dependence on static reports prevented leadership and operators from having a global, real-time view of what was happening on the factory floor. Additionally, creating integrated views required constant involvement from the development team for complex coding, leading to IT backlogs and reducing the agility of business areas.

## Solution

In partnership with Tachyonix, Taurus implemented an analytical solution capable of connecting and refining data from the SAP system directly, transparently, and without the need to write complex code. Through the visual interface of the platform's query builder, the business team themselves began creating relationships between tables and structuring data modeling in a simple and intuitive way, eliminating dependence on specialized technical support for the manual creation of services.

The implementation allowed for the design of two distinct and complementary scenarios to meet the manufacturer's demands:

- **Real-time analytical dashboards:** Focused on daily production routines, these dashboards use Tachyonix's end-to-end solution to display live, instantly updated information. A practical example is the assembly defects dashboard by product family, which allows for the identification of major deviation points on the same day. The company's intention is for the analytical dashboards to assist supervisors and directors in monitoring and decision-making.

- **Optimized integration with Power BI:** For historical analysis and data cross-referencing that require sources external to SAP, the platform acts as an agile bridge, providing consistent and automatically updated data links. This integration resolved traditional slowness issues by bringing in structured product hierarchy information, ensuring the report ignores synchronization failures and remains always reliable.

*"The implementation process was conducted in a quick and structured manner, which allowed us to advance with deliverables to the business units without compromising quality. We had very close support from the Tachyonix team throughout all stages, which made a big difference, especially in the configuration phase. This collaboration ensured effectiveness, in addition to making the entire implementation smoother. The union between the Tachyonix team's experience and the alignment with our needs contributed to an efficient and successful process."*

**Odilon Devens**  
IT Coordinator



## Results

The implementation of Tachyonix brought important structural gains to Taurus' operation, especially in the way data is consumed and used.

### 1 Data consistency and reliability

The elimination of manual processes significantly reduced the risk of errors and inconsistencies, ensuring greater integrity of information.

### 2 Reduced technical dependence

The ability to model data without ABAP development increased the autonomy of business areas and reduced the time required to generate new analyses.

### 3 Real-time data for operation

The availability of continuously updated information allowed for faster action on production problems.

As an example, the immediate identification of recurring defects enables near real-time adjustments on the assembly line.

### 4 Support for decision-making

The expanded visibility of operational data makes it possible to generate direct insights for the business, transforming real-time indicators into strategic decisions that accelerate efficiency and correct deviations as they occur.

### 5 Evolution of SAP Usage

The solution allowed Taurus to advance in the use of SAP itself, moving beyond simply using it as a data repository and beginning to explore it as a basis for operational intelligence.

## Conclusion

By connecting data, technology, and usability, Tachyonix supported Taurus in a move essential for industrial companies undergoing digital transformation: **bringing data to where decisions are made.**

More than just specific efficiency gains, the project enabled a change in how information circulates within the organization, bringing technical and business areas closer together and creating the foundation for a more agile, integrated, and data-driven operation.

*"One of Tachyonix's great advantages lies in its ability to enable, in a short period of time, the development of complex queries, delivering a structured, reliable, and ready-to-consume product to the end user. As a result, business areas begin to focus directly on analysis and value generation, instead of worrying about technical data preparation stages. Furthermore, the possibility of real-time data monitoring, especially in high-volume production environments, brings an important advantage, allowing for agile decision-making, minimizing operational losses, and boosting results."*

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