



Case Study



OASE GmbH

Orchestration of planning, scheduling and resources

- Supply chain transparency
- Production synchronous network
- Integrated expert knowledge

For decades **OASE** has stood for products for creative design with the medium of water. The company has developed into a global player with innovation and quality leadership. The procurement and supply chain structure has developed similarly to the sales markets. The production and procurement of OASE now extends across the entire globe with suppliers and service providers on all continents and production facilities at home and abroad.

With the help of suitable software, it should be possible to plan and transparently display the procurement channels. Furthermore it was necessary to plan the worldwide distributed capacities, to recognize and avoid bottlenecks. To efficiently solve these requirements **OASE** works with the Advanced Planning & Scheduling solution DISCOVER.

Short integration time with concept

OASE planned to go live within four months. This was a great challenge both in terms of technical aspects with quite complex structures, as well as in terms of project management.

Redefining ERP weaknesses

An important aspect of this project was the optimization of forecasts and safety stocks for both finished products and for assemblies and components. The ERP solution used has so far delivered rather unsatisfactory results.

A further focus was the disposition according to life cycle. A lifecycle indicator (ELA) for all materials, which can be parameterized in the set of rules and regulations - according to the categories running-in phase (E), life phase (L) and discontinuation phase (A), whereby the discontinuation phase is in turn specifically divided - would be ideal for reducing inventories or keeping spare parts on hand for longer periods. And last but not least, the supply chain at **OASE** is quite complex because production, procurement, and shipping are organized across several plants and continents, and corresponding supply relationships between these plants must be mapped.

Tight decisions, efficient project management

It was decided to form a project team in which the affected areas of sales, purchasing, scheduling, production and IT were represented and which in principle participates fully in workshops. In this way, questions and open points could be clarified promptly in favor of the time schedule or decided upon holistically.

Solution follows practical experience and „gut feeling“

A significant effort was made to develop the rules for the MRP data and various stocking strategies. Here it was necessary to collect the expert knowledge in the wealth of experience of the dispatchers and planners and to map it in the form of rules. The so-called "gut feeling" was also discussed and flowed into the parameter control. As a result, numerous rules were defined for the topics and

About...

At **OASE** the passion for water, living spaces, and design with the highest technical precision has been dedicated since 1949: Developers by nature, composers at heart: for the creative staging of water in gardens and aquariums as well as in the professional sector for Fountain Technology and Water Technology. From conception to implementation, from function to fascination, from technical to biological, **OASE** offers innovative productions, smart products, highest quality and pure comfort - all from one source.

- DE-48477 Hörstel
- Water technologies
- www.oase.com

requirements, which determine exactly which parameters are to be set in which situations. In order to be able to control the complexity of these numerous rules, the rules are organized in topic-related decision tables. Furthermore, filters can be set for each decision table, which specify for which materials and with which criteria the contained rules are valid.

Global production management

In the area of production resources, the production planner are put in a position to keep an eye on the output of all production sites. In addition to delivery reliability and quantities, production resources are graphically displayed with available and current load. Critical situations are identified at an early stage and predictive activities are initiated.

Personas

"The sets of rules for the MRP data parameters and various stocking strategies also reflect the expert knowledge and experience of the dispatchers and controllers. This means that the planning and dispatching results are reproducible and comprehensible for us at any time."

- **Marina Weniger**
Head of Supply Chain Management
bei OASE

Due to the fact that **Oase** produces and procures in an international network, different vacations and public holidays regulations or holiday-related closures of supplier plants, including a sluggish start-up phase, are highly relevant for the manufacturing and logistics processes.

Appropriate possibilities to map this and automatic suggestions for skillful stockpiling ensure that a continuous supply of components and products is guaranteed.

Acceptance and traceability of the results

While end users today appreciate the lean, easy-to-use software, supply chain managers appreciate the well thought-out structure, the simplicity of the scalability of complex structures and the powerful algorithms working at the core, which contribute to the results of logistical optimization. The IT department benefits from lean administration, defined data provisioning, and process and system stability. Basically, the reporting system, the creation of analyses and reports has been greatly simplified and centralized.

The planning and dispatching results are reproducible and comprehensible at any time. Last but not least, this aspect led to a rapid acceptance of the new assistance system. Additional security is provided by "Emma", an intelligent "Exception Management Message Assistant", which detects deviations from the target state of the software, logistical parameters or processes in the background. It informs customer support and key users simultaneously via an automated notification service.