

STRATEGIC COMPONENT PLANNING (GCD)

Centralized, global planning of Global Common Data (GCD) across multiple systems with different models.



5

5 Year capacity
overview



60

Locations



< 1

Year project
duration



8

Hrs. runtime
overall planning

In brief ...

Implementation Highlights

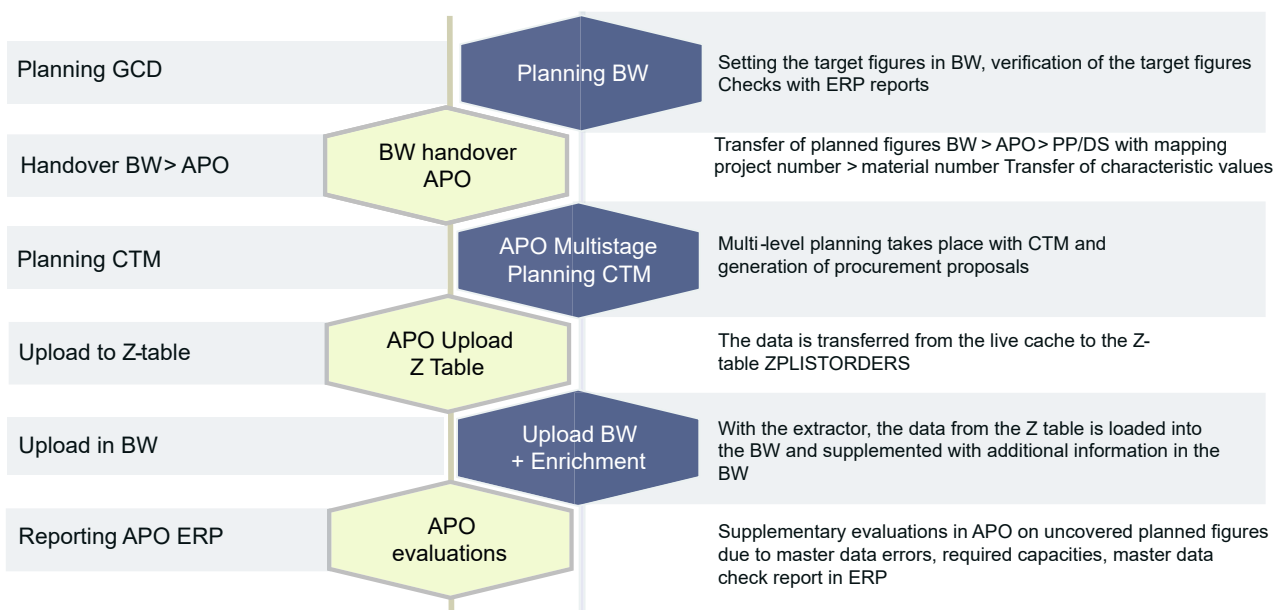
- Long-term capacity overview for the next five years
- Global planning of all purchased part requirements through multi-level, multi-site explosion of bill of material levels
- Expansion to include strategic capacity planning (GCP) as a central, integrated and harmonized system for capacity planning
- Use of the results by downstream areas such as purchasing, logistics, work preparation and production

CHALLENGE

- Aggregation of the required purchased parts across approx. 60 different locations with several ERP systems
- Calculation of the expected purchase volume per material and supplier based on a 5-year forecast
- Consideration of intercompany relationships between plants
- Consideration of multi-level subcontracting
- Different master data in each plant, supplier numbers must be consolidated to a unique supplier ID
- Forecast and planning of projects with reference BOMs
- High data volume with approx. 60 million procurement proposals in the planning horizon
- Identification of the causative primary requirements, project probabilities, etc. starting from the purchased part or supplier and subsequent characteristic-based planning (CDP in CTM)

PROJECT GOALS

- Global planning of all purchase & in-house requirements through multi-level, multi-site resolution of all BOM levels.
- Traceability of the use of purchased parts in customer requirements for risk assessment, e. g. in case of supplier failure
- Simulation (what-if) of the impact on component requirements in the event of changes to customer or primary requirements
- Extension to include strategic capacity planning (GCP) as a central, integrated and harmonized system for capacity planning and a long-term capacity overview for the next five years
- Planning of supplier capacities on capacity families
- Use of results by downstream areas such as purchasing, logistics, AV, manufacturing, etc.



CONCLUSION

- Global planning across several systems with different master data models and merging in a central APO were successfully implemented
- Sufficient effort should be calculated for the preparation or correction of master data and the harmonization of the interface (CIF mapping)
- Due to the high data volume and despite the associated longer runtime of the planning chain, SAP APO was successfully used in this use case
- The corresponding effort for job control should be planned for restarting after terminations, individual package formation and the prevention of load peaks
- The procedure is technically demanding from a CTM point of view, but has proven itself through the right technical interventions and enhancements



CONSILIO successfully supported us in the implementation of a global planning across several systems with different master data models and the consolidation in a central APO successfully.

Tobias Werberich, Global Material & Capacity Planner PL Suspension Technology, ZF Friedrichshafen AG



ZF Friedrichshafen GmbH & CO. KG

- Industry: Automotive
- Business segment: In the four technology fields of vehicle motion control, integrated safety, automated driving, and electromobility, ZF offers comprehensive solutions for established vehicle manufacturers as well as for emerging providers of transportation and mobility services
- Sales: 36.5 billion euros ZF and 3.4 billion U.S. dollars WABCO (2019)
- Employees worldwide: 160,000 (2019)
- Locations: 260 in 41 countries
- Web: www.zf.com
- Consulting partner: CONSILIO GmbH



WHAT DO INTELLIGENT AND ELEGANT SOLUTIONS HAVE IN COMMON? THEY ARE SIMPLE.

We'll be happy to find out together what that might look like in your case. **What do you want to optimize? >**