# **SAP Automotive Services Portfolio**

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## **Definition Consulting Solution**

#### Consulting solutions can be characterized by

(Advance) implementations of an existing function from an SAP Automotive Best Practices or SAP S/4 HANA release

or

**Project solutions** by SAP Automotive Consulting that fill potential gaps in any SAP Automotive Best Practices or SAP S/4 HANA release



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## **Customer Benefits**

#### Solution

- Requirements known, concept and solution exist
- Proven solution already being used in production by several customers (best practice)
- Benefit from the industry know-how of SAP Consulting and SAP Development
- Solutions available with diverse releases, upgrade and downgrade capability

Comprehensive documentation package



#### Time

- Rapid implementation possible
- More efficient and shorter project runtimes
- Time savings lead to cost reductions, also internally for customers

#### Cost

SAP S/4 HANA

- Exact cost estimates possible (fixed-price implementation)
- No ongoing costs (such as maintenance fees)
- Up-front investments of SAP Consulting reduces cost risks

### **Added Value**

#### **Benefit from more than 15 years of SAP ACS** experience

- ... from over 2,500 SAP ACS installations worldwide
- ■... for more than 600 customers
- ■... in over 40 countries
- ... not only for Automotive industries but also in diverse other industries (Aerospace & Defense, IMC, Consumer Products, High Tech, Oil & Gas, Retail, Process, Telecommunication, ...)



































## Some ACS Customer References...

VORWERK



E. WINKEMANN

WABCO

# ...our services follow the process of our customers

#### **Distribution**

Monitor & control the entire distribution network efficiently and reliably

# **Asset Management**

Monitors and maintains things of value along the complete supply chain

# **Warranty Management**

Automated warranty claim submission and reimbursement













## Inbound-Outbound Logistics

Interact and collaborate with customers and partners

#### **Production**

IoT and Lean
Manufacturing Standards
to gain maximal
efficiency

### Quality Management

Build collaboration and sustained quality control into your quality management processes

## **MI Industrialized Services**

# **ACS Inbound-Outbound-Logistics**

#### **Description**

ACS for Inbound and Outbound Logistics are representing a list of functionalities, which are enhancing the SAP-Standard with specific functionality, required by Discrete/Manufacturing-Industry customers.

These solutions are developed together with customers based on concrete business needs.

#### **Target Customers & Industries**

- Particularly Discrete Industry and Automotive from midsize companies (e.g. GETRAG or Hirschvogel) up to big enterprises (like Robert Bosch GmbH, CONTINENTAL, INA Schäffler, MAGNA, ...)
- Some solutions could also be used in other industries like the ACS Vendor Evaluation or 3<sup>rd</sup> Party Order Processing.



# **Example Offerings by ACS Inbound-Outbound-Logistics**

- ACS 3<sup>rd</sup> Party-Processing with Scheduling Agreements
- ACS Start-Up and Discontinuation Control
- ACS Delivery Service Level
- ACS Vendor Evaluation
- ACS Vendor Consignment
- Several ACS for Print out Forms and Labels

# **Customer Example: SIKA Alliance Template**

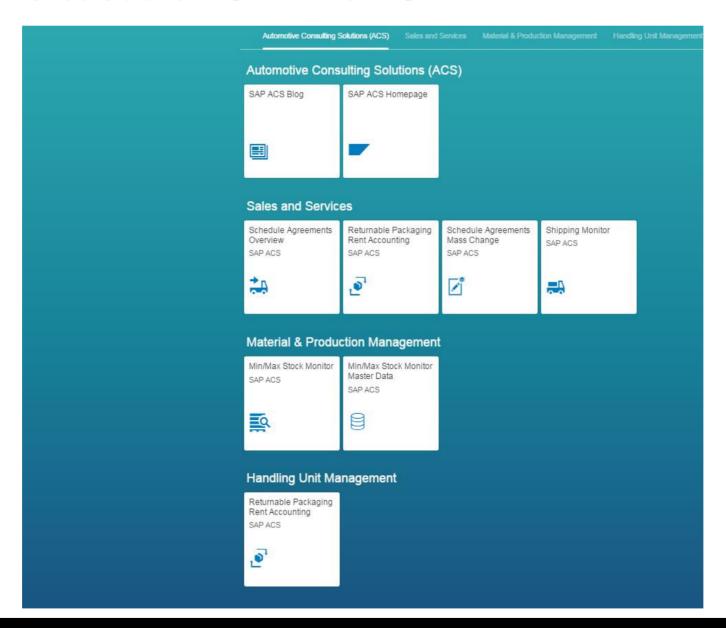
- Third-party w/ Sched. Agreements
- FRC-JIT Comparison (ZRCMON)\*
- Exit Control Framework
- ECF Logic: DELINS check of ECN (US)
- ECF Logic: Ford cum qty inbound (US)
- ECF Logic: Customer-specific fields inbound/outbound (US+)
- Sold-to Party Determination
- ASN Monitor (US)
- Shipping Monitor (US+)
- CHEP Idoc
- Consignment Monitor
- Delivery Service Level
- RTP Planning
- RTP Rent Accounting SD

- Forms
  - OEM labels US (>60)
  - FTI9
  - GTI Ford
  - GTI VW
  - **PSA Delivery Note**
  - VDA 4939
  - VDA forms (4902, 4912, ...)
- Finance
  - SBWAP Reporting
  - Idoc Monitor Payment Advice
  - Idoc Monitor Incoming Invoice
- In Progress
  - LMPC Lean Manufacturing, Planning & Control



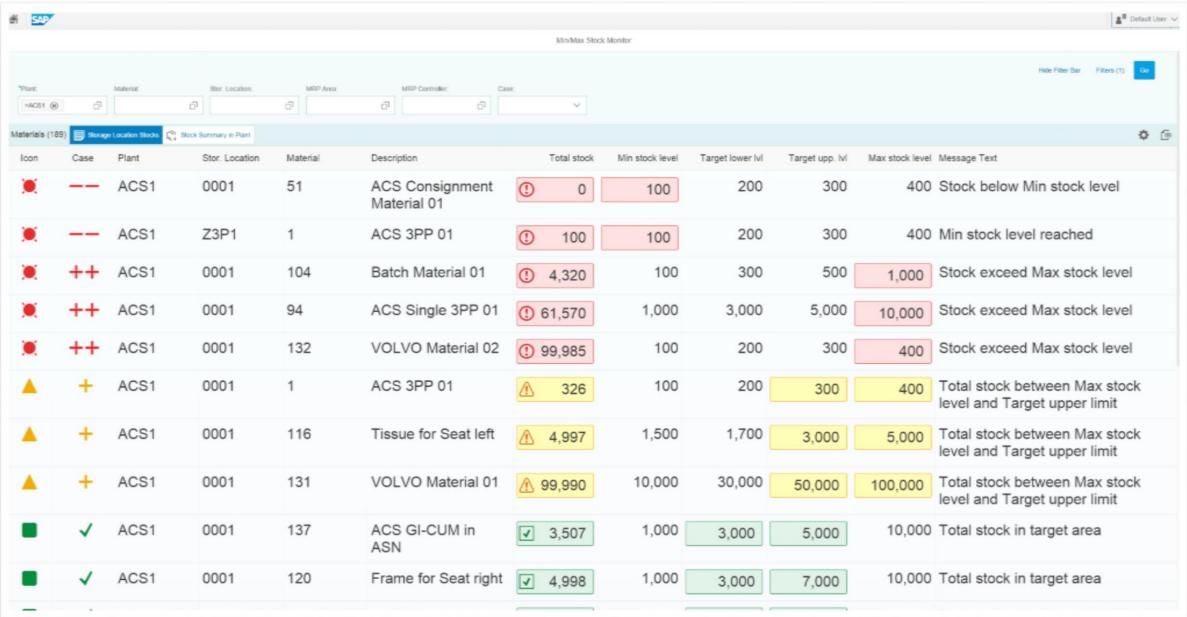
DSAG 2013

### **ACS Solutions based on SAP Fiori UI**





# ACS UI5 Example: New Min/Max Stock Monitor



# MI Industrialized Services

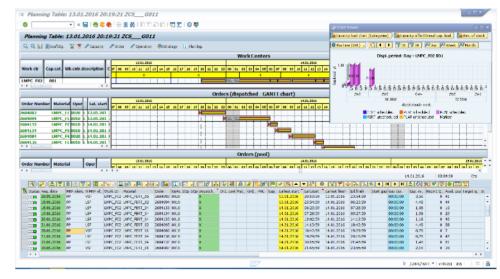
### **ACS Production Planning & Lean Manufacturing**

#### **Description**

SAPs ACS in the area of Production Planning and Lean Manufacturing address topics and requirements related to **optimization**, **integration** and **implementation** of production planning and execution processes.

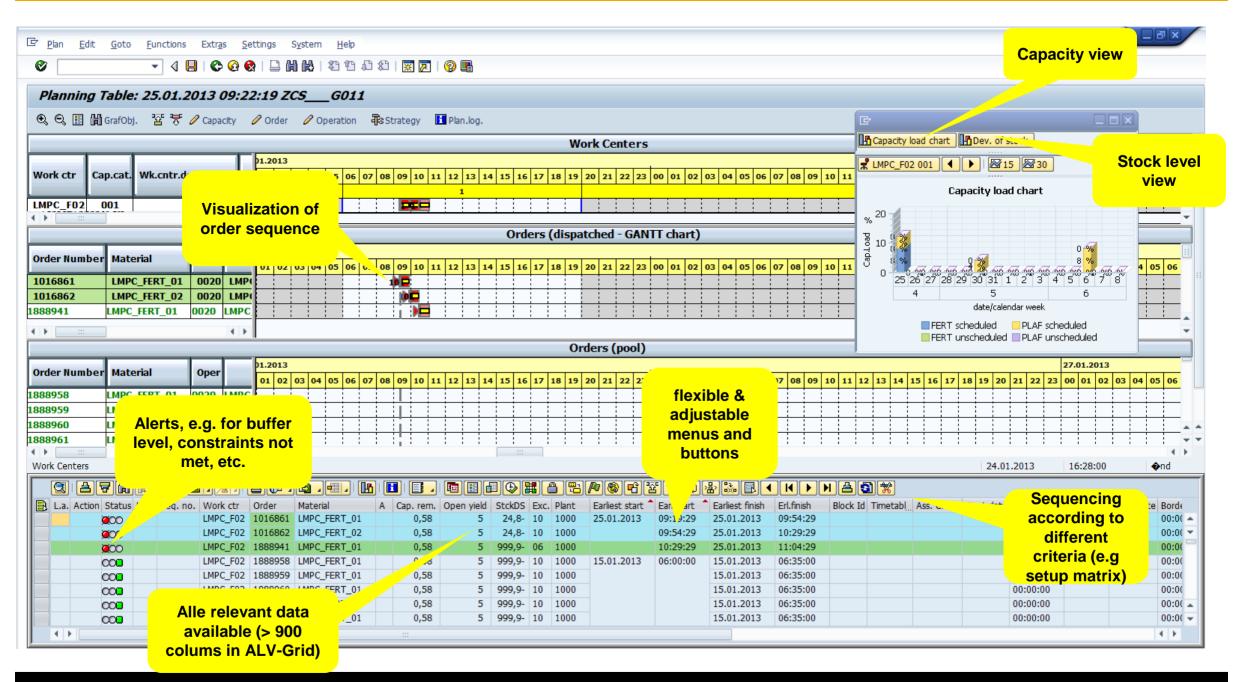
#### **Target Customers & Industries**

- All customers that manufacture goods
- All industries, especially automotive OEMs and suppliers
- E.g. BMW, Daimler, Bosch, ZF, Audi press shop, but also a lot of SME companies.



#### **Example Offerings & Services**

- LMPC Lean Manufacturing Planning & Control
- Enhanced Capacity Reporting
- EPEI Calculation (Rhytm Wheel)
- Process Optimization for Planning and Manufacturing Excellence (SAP BTS)
- Implementation services for ACS solutions



# MI Industrialized Services ACS EAM Checklists

#### **Description**

The EAM Checklist solution enables the customer to inspect their assets with object-specific checklists. With the solution the whole end-to-end process is supported: master data maintenance, generation of object lists, automatic creation of checklists for all relevant objects of a work order, various options for result recording, usage decision based on the results, documentation of the results, reporting

#### **Target Customers & Industries**

- Customers who have to do various different checks/inspections of their assets during their maintenance and service activities and using EAM (Enterprise Asset Management)
- All Industries



#### **Demo**

#### **Example Offerings by ACS EAM Checklists**

- EAM Checklists Backend solution
- EAM Checklists Mobile result recording with SAP Work Manager AddOn
- EAM Checklists Mobile result recording with Fiori AddOn

# MI Industrialized Services ACS Quality Management

#### **Description**

- Transparent mapping and standardized development of QM complaints and reporting scenarios
- Integration of modular terminal processes
- Full integration into the SAP Standard (inspection planning, FMEA, PLP ...)
- Process-driven interface usage
- Support inclusive Monitoring & Reporting

#### **Target Customers & Industries**

All customers that manufacture goods

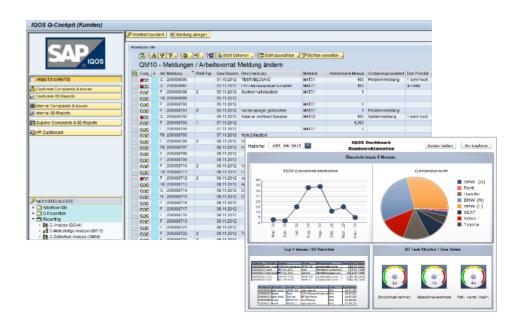












#### **Example Offerings & Services**

- IQOS Notification Framework (Quality-, Complaint-, & 8D Cockpit)
- IQOS integrated Customer Complaint Handling & 8D (for internal/external Suppliers, Customers)
- IQOS QDX Portal Integration
- IQOS Quality Tracking Tool

# MI Industrialized Services ACS Warranty Management

#### **Description**

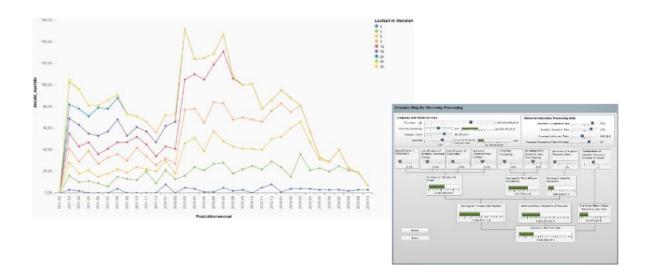
The ACS Warranty Fast Start delivers a quick and easy implementation of standard SAP Warranty Management (WTY) in a best-practice setup, reducing implementation time and boosting customer value.

For many companies, warranty is an untapped potential: Few IT-systems, high potential savings.

ACS Warranty is **ready to run on S/4HANA**, and **Warranty Analytics** is a focus topic for 2016.

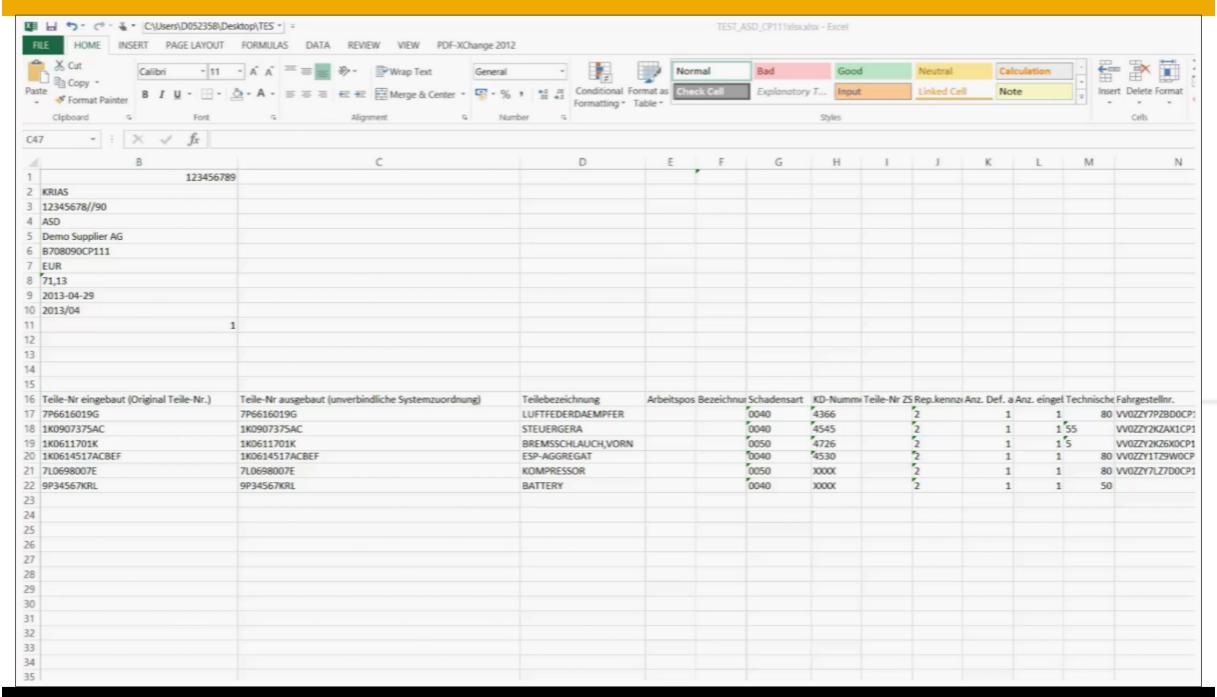
#### **Target Customers & Industries**

- Automotive OEMs / Importers (e.g. MAN, NISSAN)
- Automotive suppliers (e.g. ZF, Continental)
- Manufacturing industries (e.g. KION)
- Air & Space (e.g. Honda Air)



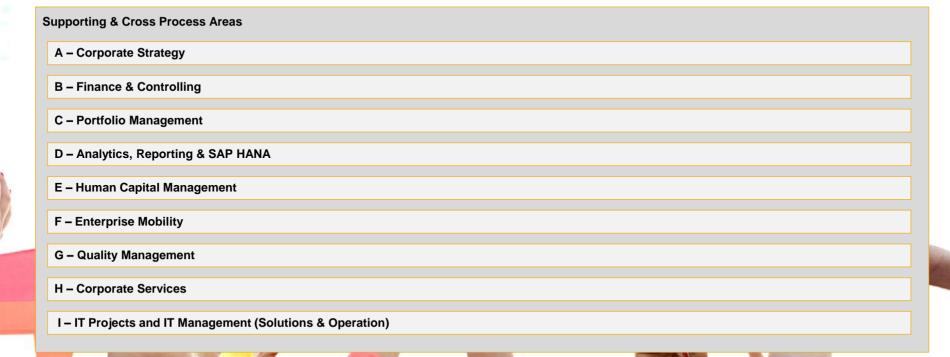
# **Example Offerings by ACS Warranty Management**

- Fast Start ("for all") / Fast Start for Automotive Suppliers
- Warranty Workbench
- Checks and Rules
- Supplier Recovery
- Recall Management
- Predictive Analytics (Weibull Analysis)



# SAP Service Catalogue for Automotive Industries there is more to discover

#### **Core Process Areas** 01 Product 02 Marketing. 03 Logistics Planning, 05 Warehouse 06 Asset 07 After **Project Management &** Development. Sales & Order Procurement. Mamnt & Operations and Market Sales Materials Planning Distribution Design & Management **Production &** Maintenance & Service Engineering **Assembly**



### **Information Sources**

- **SAP Support Portal** 
  - SAP Notes (search term: Automotive Consulting Solutions)
- Internet (FAQ and overview/detailed/customer presentations)
  - http://www.sap.de/acs (DE)
  - http://www.sap.com/acs (DE and EN)





- Blog: http://scn.sap.com/blogs/sap.acs Twitter: http://twitter.com/sap
- **SAP News Center** (http://news.sap.com) **ACS Newsletter** (via Mario Rebitzer)
- **Annual Events 2016** 
  - **SAP Automotive Consulting Solutions Information Day** (Sept. 28th, 2016 Stuttgart)



# Thank you

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# Appendix



# Some ACS Customers ... (II)



WINCOR

WÂGNER

70liner

# Overview - Sales & Distribution (I)

- EDI monitor for inbound forecast/JIT delivery schedules
- Tolerance check for inbound forecast/JIT delivery schedules
- Enhanced functions for inbound forecast/JIT delivery schedules
- Forecast/JIT delivery schedule analysis
- EDI monitor for inbound requests/orders/outbound delivery orders/order changes
- EDI monitor for self-billing procedure
- Third-party order processing with scheduling agreements
- Third-party order processing: completeness check and master data creation
- Multilevel third-party order processing with scheduling agreements and single orders
- Multilevel third-party order processing: completeness check and automated document creation
- ESP processing (classic) special stock partner level (EDI monitor for inbound ESP goods receipt/withdrawal/stock messages incl. options to map stock in transit)
- EDL processing (classic) plant level (EDI monitor for inbound ESP goods receipt/withdrawal/stock messages)

# Overview – Sales & Distribution (II)

- Evaluation of completeness check for ESP movements
- VMI processing with EDI integration
- Mass change for sales scheduling agreements
- "SBWAP" reporting self-billing procedure
- Delivery service level and backlog reporting
- Start-up/discontinuation control for sales scheduling agreement processes
- Retroactive price agreements retroactive billing
- Fiscal year change
- Orders on hand/incoming orders
- SMART ESP processing
- Loading space calculation
- EDI monitor for inbound payment advice notes
- Shipping monitor
- Monitor for outbound shipping notification statuses
- Release generation
- Scheduling agreements overview SD

# Overview - Sales & Distribution (III)

- Exit control framework
- Customer-specific processes: EDI shipping notification (outbound)
- Customer-specific processes: order and shipping (focus on American market)
- Web-based scheduling agreement functions
- Web-based forecast/JIT delivery schedule functions
- Copying of sales scheduling agreements
- Automated returns processing
- Automated creation of SD scheduling agreements via IDoc or Microsoft Excel
- Customer consignment wait times report
- Sales-Tax-Complaint Confirmation of Arrival (Gelangensbestätigung)

# Overview – Sales & Distribution (IV)

- VDA forms (delivery note, invoice, material tag,....)
- **VDA 4939 forms**
- VDA 4939 forms SSC (OEM specific VW, Audi, and so on)
- VDA forms 2D-barcode material tags
- GALIA/ODETTE delivery note forms (Renault and Peugeot, for example)
- GALIA/ODETTE material tag (INVERS) forms (Renault and Peugeot, for example)
- Forms for AIAG global transport label
- OEM forms, specifically for General Motors (GM) global transport label
- OEM forms, specifically for Volkswagen (VW) global transport label
- OEM forms, specifically for Ford global transport label
- OEM forms, specifically for KIA delivery note
- OEM forms, specifically for KIA material tags
- More than 200 different OEM/supplier-specific material tags for the American market

# Overview – Just in Time/Sequence & Handling Unit Mgmt.

#### Just-in-Time/Just-in-Sequence

- **FDI** monitor for inbound JIT calls
- Start-up/discontinuation control for JIT calls
- JIS self-billing procedure
- BMW SPAB TACHO distribution control
- Forms for JIT/JIS: Renault L3PS
- JIS shipment lot planning
- JIS grouping
- Web-based summarized JIT call functions

#### **Handling Unit Management**

- Returnable packaging rent settlement (in sales)
- Returnable packaging rent settlement (in materials management)
- Demand-driven packaging material planning
- Visualization of packing instructions
- CHEP EDI container data

# **Overview – Materials Management & Production**

- FDI monitor for inbound order confirmations.
- EDI monitor for inbound shipping notifications
- EDI monitor for inbound invoices (logistics invoice verification)
- EDI monitor for inbound shipment notifications
- Subcontracting with chargeable components
- Backlog list in materials management
- Supplier consignment
- Freight cost management incoming freight
- Pick-up sheet process
- Material master copier
- Range of coverage monitor materials planning
- Min./max. inventory monitor
- Vendor evaluation (quantity/date, quality, soft facts,...)
- Delivery and QM complaints
- Lean manufacturing production & control (LMPC)

# **Overview – Warranty Management**

- Fast start warranty management
- Fast start for suppliers
- Claim copier
- Claim values
- **Authorizations**
- Extended warranty check
- Financial integration with OEMs
- Warranty claims in the equipment history
- Supplier subrogation
- Prices and conditions
- Productivity improvements by automated claim validation
- Parts to be returned
- Collective postings
- Workbench

# **Overview – Quality Management**

- IQOS message framework (quality, complaint, and 8D cockpit)
- Integrated customer complaint handling & 8D process via VDA Microsoft Excel template
- Integrated internal complaint handling & 8D process via VDA Microsoft Excel template
- Integrated supplier complaint handling with bidirectional 8D data exchange via XML & VDA Microsoft Excel template
- Integrated supplier complaint handling with bidirectional 8D data exchange via XML & SAP Interactive Form by Adobe
- QDX portal integration
- DMS integration (documents for reporting)
- SD integration (credit memos & SD orders)
- KPI BusinessObjects dashboards
- Quality tracking tool
- Audit management according to VDA 6.3