Yanfeng Automotive Interiors’ Implementation of QAD Automation Solutions and Integration
Are They Flexible and Scalable?

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Yanfeng Automotive Interiors Implementation of QAD Automation Solutions and Integration

Introduction

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Agenda

• Yanfeng Automotive Interiors company overview
• Yanfeng Automotive Interiors business background and decisions
• QAD Automation Solutions (QAD AS) meeting business requirements
• Flexible, scalable, and value-add expansion – QAD AS
• QAD Cloud Integration design to support Yanfeng Automotive Interiors business
• Flexible, scalable, and value-add expansion – Integration
• Takeaways
Yanfeng Automotive Interiors
Company Overview
Yanfeng Automotive Interiors’ Implementation of QAD Automation Solutions and Integration

Our Name – Yanfeng Automotive Interiors Builds on Our History and Our Strength

Yanfeng Automotive Interiors
The global leader in automotive interiors - is redefining how people relax, work and play in their vehicle interiors today and decades from now

- Established in 2015
- Headquartered in Shanghai
- 110+ locations in 19 countries
- 33,000+ employees
- Shareholders: Yanfeng and Adient

Yanfeng Automotive Interiors, one of the largest automotive suppliers in China
Adient, the global leader in automotive seating
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A Seamless Global Network
Close to Where Customers Need Us

115 locations

19 countries

33,000 employees

26
12,000
North America

Novi & Holland, MI, USA

15
8,000
Europe & South Africa

Neuss, Germany

74
13,000
Asia Pacific

Shanghai, China
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Complete Product Portfolio with Forward Looking Strategies

**CORE PRODUCTS**
- Instrument Panels / Cockpits
- Door Panels
- Floor Consoles
- Overhead Consoles

**PRODUCT ADJACENCIES**
- Decorative Trim
- Ambient Lighting
- Air Vents
- Overhead Console – extension of core

**NEW PRODUCT TECHNOLOGIES**
- Smart Interior Surfaces
- Adaptive Interiors
- Lightweight Solutions
- Advanced Manufacturing

**TOTAL INTERIOR INTEGRATOR**
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Business Background and Decisions
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Yanfeng Automotive Interiors Footprint in EMEA

13 – Locations  +2
8,000+ – Employees

Regional HQ
Tech Center
Plant
Office

Plana nad Luznici
Challenges

- The legacy systems cannot be implemented
- We could not join the Global ERP initiative
- The new plants need an ERP system live in 6 months
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Decisions

✓ Implement QAD Cloud ERP based on QAD EOB methodology
✓ After GoLive continue to implement the other modules
✓ Migrate later to the Global ERP environment
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QAD Implementation in Czech Republic

- QAD EE CZ
  - Bank Drivers
  - EAM
- QAD AS
  - QAD Integration

Construction ongoing
Moving inside the plant
First intercompany deliveries
Major OEMs Start Of Production

Nov 16  Dec 16  Jan 17  Feb 17  Mar 17  Apr 17  May 17  Jun 17  Jul 17  Aug 17  Sep 17  Oct 17  Nov 17  Dec 17
QAD Implementation in South Africa

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Major OEMs Start Of Production

QAD Integration

QAD AS

EDI

EAM

Bank Drivers

Bank Drivers

QAD EE ZA

QAD EE CZ

Nov 16 Dec 16 Jan 17 Feb 17 Mar 17 Apr 17 May 17 Jun 17 Jul 17 Aug 17 Sep 17 Oct 17 Nov 17 Dec 17

13
QAD Automation Solutions (QAD AS) Meeting Business Requirements
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Business Requirements Driving QAD AS

• Inbound
  - Receiving and serialization for 150+ suppliers spread across the globe
  - Containers relabeling by exception

• Warehousing
  - Dynamic warehouse
  - Line replenishment Kanban
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Business Requirements Driving QAD AS

- **Production**
  - Labelling of containers using serialization and engineering level
  - Production and scrap reporting
  - Packing and unpacking of serialized containers

- **Outbound**
  - Batch deliveries: 50+ customer Ship-To’s
  - Guided picking of containers respecting FIFO for deliveries
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QAD AS Architecture

Yanfeng Automotive Interiors Data Center

QAD Cloud
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QAD AS at Work

Components Warehouse

Production

Finished Goods Warehouse
Flexible, Scalable and Value-Add Expansion – QAD Automation Solutions
Safe Harbor

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Getting You to ROI

Speed to Benefit

Prescriptive Solution

Value Areas

Entry Level

Gap Coverage
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Enhancements

• Quick Start
  - 15 Transactions
  - No configuration necessary
  - Efficient consulting effort

• Automotive Library
  - Focused on common auto reqs
    - Data prefixes
    - Supplier label enablement
    - FIFO with and without lot control
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Expansion

- **Base Warehousing**
  - Additional layout + capacity
  - Travel sequence
  - Minimal admin

- **Advanced Warehousing**
  - Task-driven activity
  - Delayed assignment $\rightarrow$ better utilization
  - Business rules engine

Speed to Benefit

Prescriptive Solution

Entry Level

Gap Coverage
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QAD Labs – Production Execution

• Leveraging new technology to connect the shop floor
  - Machine → monitor status, report downtime
  - Operator → skills verification, labor reporting
  - Production → material request, production reporting, scrap

• Integrated with QAD
  - QAD Cloud ERP
  - QAD Automation Solutions / Advanced Warehousing
  - QAD Precision Global Trade and Transportation Execution
  - QAD Enterprise Asset Management

• Empowering T1 auto customer now, taking new pilots
QAD Cloud Integration Design to Support Yanfeng Automotive Interiors’ Business
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Integration Standardization

Yanfeng Automotive Interiors MES and JIS servers

Production reporting
Inventory transfer
Scrap
Serialization
Shipping

QAD Cloud

Item master
Product Structure
Scheduled Orders
Work Orders
Integration Architecture

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Yanfeng Automotive Interiors Site 1

MES-JIS Server(s)  Dispatch Server(s)

Yanfeng Automotive Interiors Site 2

MES-JIS Server(s)  Dispatch Server(s)

QAD Cloud

explore2019
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Integration Implementation

- Design
- Development
- Unit Testing
- Integ Testing

1st JIS server Go Live

1st MES server Go Live

Roll-out additional JIS/MES servers

Production lines SOP’s

Flexible, Scalable, and Value-Add Expansion – Integration
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Basic Integration Architecture

- ERP: QAD Cloud ERP
- API: QXtend
- Middleware Workflow Mapping: Boomi
- 3rd Party
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Integration Framework Architecture: Components
Integration Framework Architecture – Inbound

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ERP + API Layer

QAD Cloud ERP

QXtend

Workflow + Connectivity + Translation

Boomi

3rd Party

Error Control + Reprocessing

IO Control

IO Dashboard
Integration Framework Architecture – Outbound

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ERP + API Layer

QAD Cloud ERP

IO Generic Extract

Setup Module

Workflow + Connectivity + Translation

Boomi

3rd Party

IO Control

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Boomi – Process Mapping

Graphical Process Mapping
Boomi – Data Mapping

Graphical Data Mapping
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The Integration Framework Dashboard

- Search
- Filter
- Error handling
- Reprocessing
- Status handling
Takeaways
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Lessons learned

• QAD Automation Solutions
  - Assess processes
  - Volume test
  - Dependency on other modules
  - Wireless coverage

• Integration
  - Think Integration first
  - Run multiple stress tests
  - Implement archiving policy
  - Define alerts types and responsibilities
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Benefits

- Flexibility
- Scalability
- Time saved on roll-out
- Business involvement during the design and the tests
- Empowering the business users to use the dashboard
Questions and Answers

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## Highlighted Sessions

| Customer Case Study: Yanfeng Automotive’s Rapid Upgrade to EE and move to the QAD Cloud | Michael Silletti, Yanfeng Automotive Interiors Wednesday, May 8, 4:15 PM - 5:15 PM Rhythms 2/3 |
| Core Model Planning and Preparation | Elaine Marshman, QAD Thursday, May 9, 9:45 AM-10:45 AM Rhythms 1 |
| QAD Automation Solutions Expansion and Enhancements | Michael Ochi, QAD Thursday, May 9, 11:00 AM-12:00 PM Rhythms 2/3 |
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