Accelerated migration from SAP PI to SAP Cloud Integration Suite

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Speakers

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Goals of this presentation

• Get to know Etex and Flexso
• Considerations and decision-making journey to SAP CPI
• Steps to migrate a flow from SAP PI to SAP CPI
• Migration gaps & workarounds
• Discover our lessons learned and Flexso accelerators
• Q&A
About Etex
An international industrial company

Selective presence • Local anchorage • Major employer

- Employees: 13,260
- Countries: 42
- Innovation & Technology Centres: 6
- Plants: 101
- Million revenue: EUR 2,940
Market intimacy as the cornerstone of our structure

5 global divisions – each targeting a well-defined business segment

- **Building Performance**
  - Drywall systems, plasters and compounds, fibre cement, passive fire protection and associated products

- **Exteriors**
  - Architectural, residential and agricultural fibre cement materials

- **Residential Roofing**
  - Concrete tiles, clay tiles and roof components

- **Industry**
  - High performance insulation and fire protection solutions for industrial players

- **New Ways**
  - Specialised in offsite building technologies in both wood and steel framing.

https://youtu.be/p5pTc8i6LUs
About Flexso ...
Facts & figures Flexso

- 350 consultants
- 20% growth per year
- 50 million euro
- 5% attrition
- 140 active customers
- Projects in 40 countries
- 6500 Cronos consultants
Flexso Integration Factory

Expert consultancy

Technical know-how & training

Best practices & guidelines

Implementation services
Etex vision & migration journey
Etex IT: Current situation (general)
A team spread across 5 continents

One Etex Strategy
SAP Business Technology Platform
Accelerating the Intelligent Enterprise

Integrate Apps & Processes
Extend Cloud & On-Prem Apps
Innovate Business Services
Integrate Apps & Processes
Achieve faster time to value

Data Management

Intelligent Technologies

SAP Business Technology Platform

Flexso
Etex: Migration project

Why?

• Etex runs multiple middlewares on-premise
  › PI - Netweaver 7.4 SP6: 120 Interfaces
  › GRC - Netweaver 7.4 SP9: 45 “Nota Fiscal” Interfaces

  -> Current versions out of maintenance by end 2020

• What to do?

• Migration strategy options:
  › Upgrade to SAP PI 7.5 (Dual Usage Type)
  › Migrate SAP PI to SAP PO
  › Move to the Cloud (SAP CPI)
  › Hybrid scenario (migrate to SAP PO & CPI)
Migration strategy
Positioning SAP CPI & SAP PO

- System Landscape
- Prepackaged Content
- TCO
- Go-Live Timelines
- Connectivity Options
- LOB Decisions
Migration strategy @Etex
Positioning SAP CPI & SAP PO

- SAP PO
  - Debugging / Logs
  - ESR tools
  - Migration tool
  - Reuse knowledge
  - On premise focus

- SAP CPI
  - Single monitoring
  - Easy BPM flows
  - Do the job once
  - Feature parity
  - SAP Cloud strategy
SAP Cloud Platform Integration

- Cloud technology
  - iPaaS: Integration Platform-as-a-service
  - Strong security focus and infrastructure availability
  - Middleware: transformations, mappings, routings
  - Focus on prepackaged standard content
  - A2A & B2B
  - Integrating on-premise and cloud applications

- Part of the Integration Suite on SAP BTP (Neo & Cloud Foundry)
SAP Integration Suite

SAP’s hybrid integration platform for the intelligent enterprise

- API Business Hub
  - Discover process blueprints, one domain model, APIs, events, integration packs
- API Management
  - Expose your data as APIs, manage API lifecycle end-to-end
- 3rd Party
- SAP Graph
  - Harmonized APIs for SAP
- Integration Advisor
  - AI-based integration, and metadata mgmt
- Cloud Integration
  - End-to-end process integration
- Data Intelligence
  - Data integration, orchestration and AI
- Open Connectors
  - Accelerate connectivity to third-party apps & data
- Serverless Runtime
  - Functions to respond to events
- Open APIs events
- 3rd party apps and data
- SAP Process Orchestration
  - On-premise middleware
- Connectivity
  - Cloud-to-ground secure connectivity
- SAP data services and data integration tools
  - Accelerate and expand the flow of data across the enterprise
- SAP success factors
- SAP S/4HANA
- SAP Customer Experience
- SAP Fieldglass
- SAP Concur
- SAP Ariba
- Qualtrics
- SAP BTP
SAP Integration Suite project
Project approach
Project approach

• Sprint 0
  › Divided all 120 interfaces in 4 week during sprints
  › Chosen to start first migration sprint with less complex interfaces
  › Training the Etex team
  › Setup all environments (3-tier CPI CF landscape, TMS installation, Cloud connector, ..)

• Sprint 1-4
  › 3 weeks of migrating – 1 week of UAT testing and go-live

• All new interfaces directly developed on CPI
PI -> CPI migration project & approach
120+ interfaces

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SAP PI – CPI migration steps
Migration of standard flow

Steps

- Create a CPI flow
- Use CPI tool to import ESR message mapping
  - Automated standard tool (CPI <-> PI)
  - Re-use Message mapping
  - Re-use WSDL’s and XSD schema’s
- Configure adapters
- Testing
Fitting all gaps by standard solutions and workarounds

Gaps

- Message mapping migration via tool is not showing custom java functions (UDF and Function libraries)
- No RFC sender channel available
- Extra configuration needed for outbound communication with XI and IDOC adapters
- Basic authentication (user/pswd) rework for inbound third-parties
- ...

...
Fitting all gaps by standard solutions and workarounds

Generic outbound flows

- Generic IDOC handler for all outbound flows
  - Flow 1: Fixed endpoint and used in WE21
  - Flow 2: Called via dynamic endpoint and communication towards third-party
Fitting all gaps by standard solutions and workarounds

Basic authentication for inbound third-party communication

- Create technical users via OAuth client
  - Deploy service instance per party on CF space
  - Create service key
Flexso cookbooks & lessons learned

Summary

• Refactoring cookbooks & workarounds
• Comprehensive naming conventions and guidelines (15+ pages)
• Technical and functional documentation templates
• Transport Management System (TMS) setup and procedure
• Creating technical third-party users for inbound communication
• Numerous best practices:
  › Externalize as much as possible
  › Use custom tags on package level to define business owners and contacts
  › General scripts for payload logging
  › ..
Feedback & key takeaways
Feedback & key takeaways

- SAP PO & CPI are both mature middlewares
- Customer-specific migration strategy based on vision & situation
- Start with integration workshop(s)
- Use guidelines & best practices
- Choose for SAP CPI on Cloud Foundry
- Yes, it is possible to migrate SAP PI to CPI!
  - Sufficient guidance and expertise in both SAP PI and CPI
  - Good cooperation and a satisfied team
Q&A SESSION
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