SAP Integration: How Avertra Utilizes Mendix to Integrate SAP with the World

Avertra
Presentation Outline

Connecting SAP to the world used Mendix
Hi!

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About us

WE HELP UTILITY COMPANIES BUILD AMAZING APPLICATIONS

- 12M customers
- 30+ hosted cloud servers
- 300+ features and functions
- 200K man hours of R&D

Business/IT Services

- Project Management
- Business Process Optimization
- Architecture
- Application Development
- Business Analytics

Verticals

- Utilities
- Travel & Transportation
- Consumer Goods
- Finance
- Public Sector
- Health Sciences
SAP Integration Challenges

➢ SAP to Non-SAP applications

- SAP to/from other application (LAN)
- SAP to/from external application (Internet / VPN)
- SAP to/from cloud application (Internet)

➢ Challenges

- Understand SAP integration options
- Develop the integration application
- Train developers on SAP integration technologies  Reduce time to develop new use cases
- Build an architecture tolerant to new integration scenarios
SAP Integration Options

- IDOC
- HCP
- FTP
- ESB
- ETL
- XI/PI
- OData
- SOAP
- REST
- RFC
- SOA
- ALE
Costly Rework
Unfortunate Truth

What other see

UI

Magic

What you see
Right Tool
One Integration Approach to Rule them All
Right Tool
Mendix as an integration layer???

SAY WHAT NOW?
Don’t forget....

Mendix Orchestration

- Connectors
- Modules / Scopes / Flow Control
- Transformation / Filtering
- Connection Management
- Exception / Error Management
- Security / Logging / Alerting
Integrate SAP to the World

ECC or S/4 HANA
Databases
Files

App Store Connectors
https
Firewall
Data Load
Extract

Mendix

SOAP Webservice
Any App

Customer environment
Any cloud environment
Use Case- Aramex Fleet

1. Send Verification Request – REST Calls
2. Application Registration Create a new Vendor Master in SAP-OData Calls
3. Vendor Master Data is also sent as Courier Data to Client 3rd Party Application REST API Calls
4. Receive Jobs Created in Client 3rd Party Application – REST API Calls
5. Update Status Changes by Driver/Operations back to Client 3rd Party Application REST API Calls
6. Client 3rd Party Triggers Debriefing Call to Mendix – REST API Exposed from Mendix
7. Mendix Transforms Incoming Data, Appends Pricing Data, Send to SAP for Invoice Posting – OData Call
8. Mendix Sends the Success/Failure Reasons Back to Client 3rd Party Application – REST Response
9. Mendix Displays Payment Data (Total DueAmount, ClearedAmount, etc.) by Retrieving from SAP – OData Call
Thank you

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