Presented By

OUTOFTHEBOX EA

SAP CPI REALTIME EXAMPLE – 2

File to File – Order Data Conversion and Integration

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Download the material from Github

Link in the description

BUSINESS REQUIREMENT: ORDER DATA CONVERSION AND INTEGRATION

Description:

As a fundamental business requirement within the Order to Cash process, we must establish a seamless integration mechanism between our e-commerce system and partner systems that operate with diverse data formats, including JSON and CSV. This integration necessitates the conversion of order data from XML format to meet the specific data format requirements of Partner System A (CSV) and Partner System B (JSON), with simultaneous data transmission to both partners. Equally crucial is the implementation of a robust data quality validation procedure for incoming XML data; any data failing validation must be identified and logged in an Error File Database for subsequent processing by our quality assurance team.

Rationale:

By implementing this integration scenario, the e-commerce system can fulfil the partner system requirement by converting the XML order data into different formats (JSON, CSV). This requirement is essential to ensure efficient and error-free interactions with our partner systems, ultimately enhancing our Order to Cash workflow.

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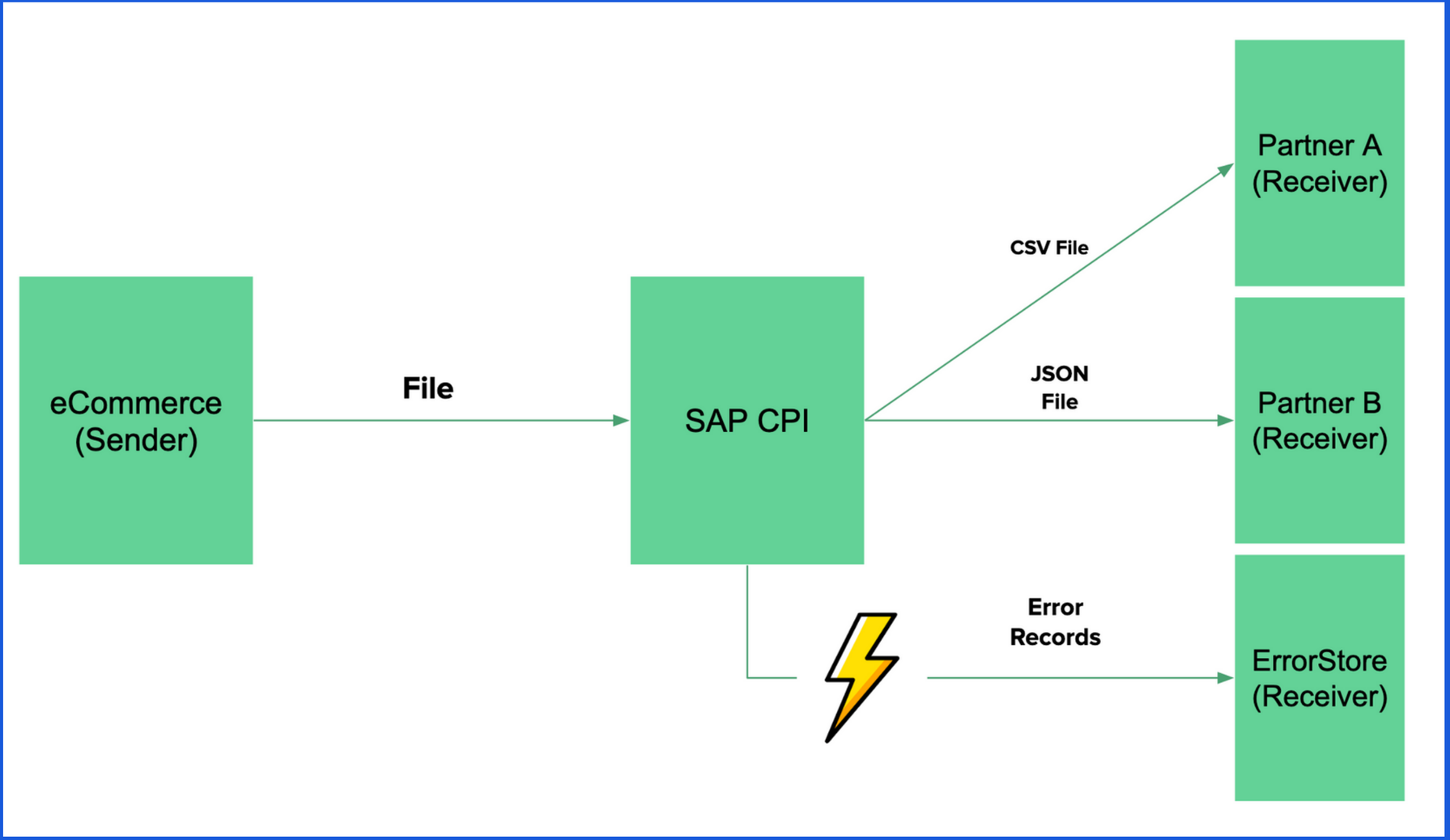
HIGH LEVEL INTEGRATION FLOW



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SAP CPI TOPICS TO BE COVERED

- iFlow Design, Development, Deployment and Testing
- Palette Functions
  - Sender/Receiver Participants
  - Parallel Multicast
  - Converters
    - XML to CSV
    - XML to JSON
  - XML Validation
  - Exception Sub Process
  - Start, Error Start and End Message Steps
- Adapters
  - File
  - File

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YOUR UNDERSTANDING OF SCENARIO 2

Let us Understand - **BDAT**

B = Business
D = Data
A = Application
T = Technology
NFR = Non-Functional Requirements

Business Process	**B**	Order To Cash
Sub Process	**B**	Order Data Conversion and Integration
Sender System	**B**	e-commerce
Receiver System	**B**	Multiple Partner Systems
Sender Data Structure	**D**	Order Data
Receiver Data Structure	**D**	Multiple Data Formats JSON and CSV
Sender Adapter	**A**	File
Receiver Adapter	**A**	File
Source System Type	**T**	Java Application - supports File outbound through FTPS
Receiver System Type	**T**	Legacy Partner Applications - supports Files through FTP
Integration Broker	**T**	SAP CPI
Mapping		1-1
Complexity	**NFR**	Medium
Data Volumes	**NFR**	1-10000 Orders/Day
Error Handling	**NFR**	Exception Handling with exception process

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TOOLS NEEDED

- SAP CPI Integration Flow Editor (For iFlow Development, Testing and Monitoring)
- Access to a FTP server
- FileZilla or any FTP client
- An undistracted mind :)

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INTERVIEW TIPS

- About File handling
  - How do you handle large files in SAP CPI?
  - How do you troubleshoot file adapter issues in SAP CPI?
- Special characters
  - unicode handling
- File security
  - • How do you use file encryption and decryption in SAP CPI?
  - FTPS, SFTP setup

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INTEGRATION ARHCITECT TIPS

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Use file encryption and decryption to secure the file content using various algorithms

Use large file handling to process files that exceed the memory limit of SAP CPI

Use performance optimization techniques to improve the efficiency and scalability of your integration flows.

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LINKS NEEDED FOR THIS DEMO

- https://sftpcloud.io/tools/free-sftp-server
- https://www.liquid-technologies.com/online-xml-to-xsd-converter

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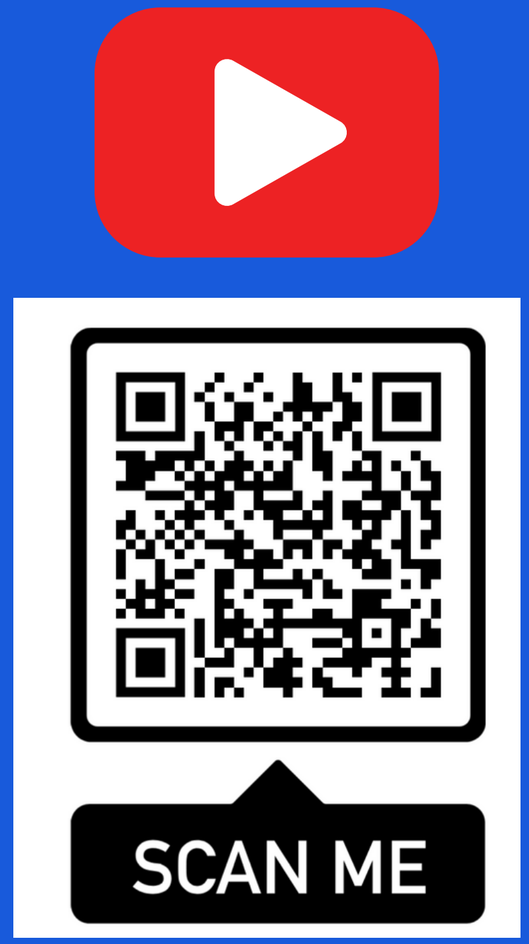
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