



SAP CPI (CLOUD PLATFORM INTEGRATION) **TRAINING DOCUMENT**

1) Introduction to SAP CPI

-  What is SAP Cloud Platform Integration (CPI)?
-  Difference between PI/PO and CPI
-  Role of CPI in the SAP BTP ecosystem
-  Use Cases: SAP to SAP, SAP to Non-SAP, and Hybrid integrations
-  CPI Architecture and Runtime Nodes

2) SAP CPI Core Concepts

-  Tenants: Design, Runtime, Operations
-  Packages and Artifacts
-  Overview of Integration Flow (iFlow)
-  Pre-packaged Content and Custom iFlows

3) CPI Integration Flow (iFlow) Palettes

-  Start/End Message – Start and end point of the iFlow
-  Content Modifier – Set message headers, properties, or body
-  Message Mapping – Perform graphical mapping (XML to XML)



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-  **Script – Groovy or JavaScript for custom logic**
-  **Router – Conditional branching logic**
-  **Filter – Remove unwanted messages based on conditions**
-  **Splitter – Split single message into multiple parts**
-  **Aggregator – Combine multiple messages into one**
-  **Multicast – Send message to multiple branches**
-  **Exception Subprocess – Handle errors during runtime**
-  **Timer – Schedule periodic message triggering**
-  **Data Store Operation – Persist and retrieve messages**
-  **Call Local Integration Process – Reusable sub-process within an iFlow**
-  **Call External Integration Process – Call another iFlow**
-  **Groovy Script – Use Groovy for message manipulation or logic**

4) SAP CPI Adapters (Sender/Receiver Channels)

-  **SFTP – File exchange via secure FTP**
-  **HTTPS – REST/SOAP-based communication**
-  **SOAP – Standard Web Service Integration**
-  **Doc – IDoc-based integration with ECC or S/4HANA**
-  **OData – Read/write from SAP systems using OData APIs**
-  **JDBC – Connect to external databases (read/write)**
-  **AS2 – B2B messaging (secure and signed)**



-  Mail – Send or receive messages through email
-  ProcessDirect – Call local iFlows internally
-  HTTP – REST API communication (non-SAP apps)
-  SuccessFactors – Native integration with SAP SuccessFactors
-  APIs
-  Ariba – Standard adapter for Ariba integration

5) Additional CPI Functionalities

-  Security Artifacts: Keystore, OAuth2 Credentials, User Credentials
-  Certificate Management: Uploading public/private certs for HTTPS/SFTP
-  Monitoring and Tracing: Message monitor, MPL ID, logs
-  Data Stores: For temporary storage and message reprocessing
-  Value Mapping: Key-based value translations
-  Message Retry and Exception Handling
-  Version Management and Transport



6) Training Coverage & Support

-  Real-Time Projects: SF to S/4, SFTP to IDoc, API integrations
-  Hands-On iFlow Building
-  Groovy Scripting Sessions
-  Adapter-Specific Deep Dives
-  Error Handling & Monitoring
-  Resume Preparation & Interview Questions
-  Mock Interviews and Career Guidance

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