



GLOSSARY OF SAP CLOUD PLATFORM INTEGRATION (CPI)

**A Quick Reference Guide to
SAP Terminologies**

Concept/Term	Definition
SAP CPI (Cloud Platform Integration)	A cloud-based integration service on SAP BTP. Connects cloud and on-premise systems via prebuilt content and APIs.
SAP BTP (Business Technology Platform)	A platform-as-a-service offering from SAP. Hosts CPI and enables integration, extension, and analytics.
Integration Flow (iFlow)	A graphical representation of an integration process. Defines message routing, transformation, and connectivity.
Adapter	A connector that allows CPI to communicate with external systems. Includes protocols like SFTP, HTTPS, IDoc, and more.
Content Modifier	A step in an iFlow that modifies message headers, properties, or payload. Used for dynamic message configuration.

Concept/Term	Definition
Message Mapping	A tool used to map source message structures to target structures. Supports graphical and XSLT mapping.
Groovy Script	A scripting language used in CPI for dynamic logic. Enhances message processing beyond standard steps.
XSLT Mapping	XML-based transformation used in message mappings. Suitable for complex hierarchical data conversions.
Process Direct Adapter	Enables direct communication between iFlows. Supports modular and reusable design.
Sender Adapter	Defines how data is received into CPI. Configured with protocol and endpoint details.

Concept/Term	Definition
Receiver Adapter	Defines how CPI sends data to a target system. Supports multiple channels and configurations.
Integration Suite	A broader suite on SAP BTP that includes CPI. Also offers API Management, Open Connectors, and more.
Value Mapping	Provides mapping between internal and external values. Used for harmonizing data formats or values.
Message Header	Contains metadata about the message, like sender, content type, or correlation ID.
Message Body	The actual payload of the message. Can be XML, JSON, or plain text depending on the adapter.

Concept/Term	Definition
Message Property	Custom key-value pair used during processing. Helps control logic and conditions in iFlows.
Exception Subprocess	A reusable error-handling flow. Captures and processes integration errors gracefully.
Message Monitor	Tool in CPI to track and analyze messages. Displays iFlow execution, errors, and payloads.
Tenant	A logical unit in CPI that houses all integration artifacts. Each CPI customer operates in a secure tenant.
Trace Level	Determines the amount of data logged during execution. Useful for debugging but impacts performance.

Concept/Term	Definition
MPL (Message Processing Log)	Logs all steps of message processing. Used for monitoring and troubleshooting.
Security Material	Stores credentials, certificates, and tokens. Used to secure communication with external systems.
OAuth2 Authentication	An authorization framework for secure API access. Supported by CPI for external integrations.
Basic Authentication	Simple username-password authentication. Often used with HTTP and REST APIs in CPI.
Keystore	A secure storage area for certificates and keys. Ensures encrypted communication in CPI.

Concept/Term	Definition
Certificate-to-User Mapping	Links a client certificate to a CPI user. Enables secure, certificate-based authentication.
IDoc Adapter	Used to integrate with SAP systems via IDoc protocol. Supports both inbound and outbound processing.
SFTP Adapter	Transfers files securely using SFTP protocol. Commonly used in B2B and partner integrations.
SOAP Adapter	Connects CPI to systems via SOAP protocol. Supports synchronous and asynchronous web services.
HTTPS Adapter	Used for secure REST-based communications. Supports both sending and receiving messages.

Concept/Term	Definition
Timer Event	Triggers iFlow execution based on a schedule. Used in batch or periodic integration scenarios.
Start Event	Marks the beginning of an iFlow. Can be triggered by message arrival, timer, or event.
End Event	Marks the completion of an iFlow. Signifies that message processing has ended.
Data Store	A storage option within CPI for persisting messages. Supports both temporary and permanent storage.
Message Splitter	Breaks a single message into multiple parts. Useful for handling bulk or batch messages.

Concept/Term	Definition
Content Enricher	Adds additional data to a message during processing. Can retrieve data from other systems.
Content Filter	Removes unwanted parts of a message. Helps streamline data sent to receivers.
Router	Directs messages to different paths based on conditions. Enables decision-making in iFlows.
Groovy Script Console	Interface to write, test, and debug Groovy scripts. Helps in creating reusable script blocks.
API Management	Part of the Integration Suite for managing APIs. Includes security, usage tracking, and rate limiting.

Concept/Term	Definition
Open Connectors	Provides prebuilt connectors to third-party apps. Reduces effort in integrating non-SAP systems.
Integration Advisor	Helps design integration content based on industry standards. Speeds up B2B and EDI setup.
EDI Integration	Electronic data interchange capability supported via CPI. Often used in B2B transactions.
BPMN (Business Process Model and Notation)	Graphical notation for modeling integration flows. CPI uses simplified BPMN for iFlows.
Artifacts	Integration components like iFlows, scripts, or mappings. Packaged for deployment and reuse.

Concept/Term	Definition
Transport Management	Manages movement of integration content across tenants. Ensures consistent deployment.
Test Tenant	A separate CPI environment used for QA and testing. Mirrors production to validate iFlows safely.
Production Tenant	The live CPI instance where business-critical integrations run. Requires strict governance.
Error Handling	Techniques for managing failed messages. Includes exception subprocesses, alerts, and retries.
Retry Mechanism	Re-attempts failed message deliveries. Can be configured at adapter or iFlow level.