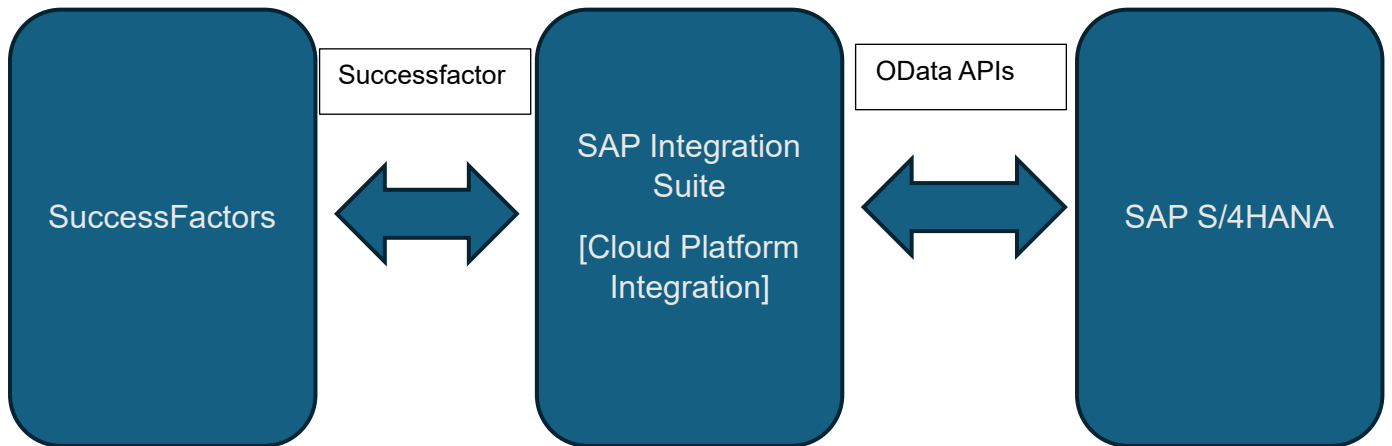# 1. A2A Integration (Application-to-Application)

Example: S/4HANA <-> SuccessFactors

Use Case: Sync employee master data from SuccessFactors to S/4HANA.

Architecture Flow:

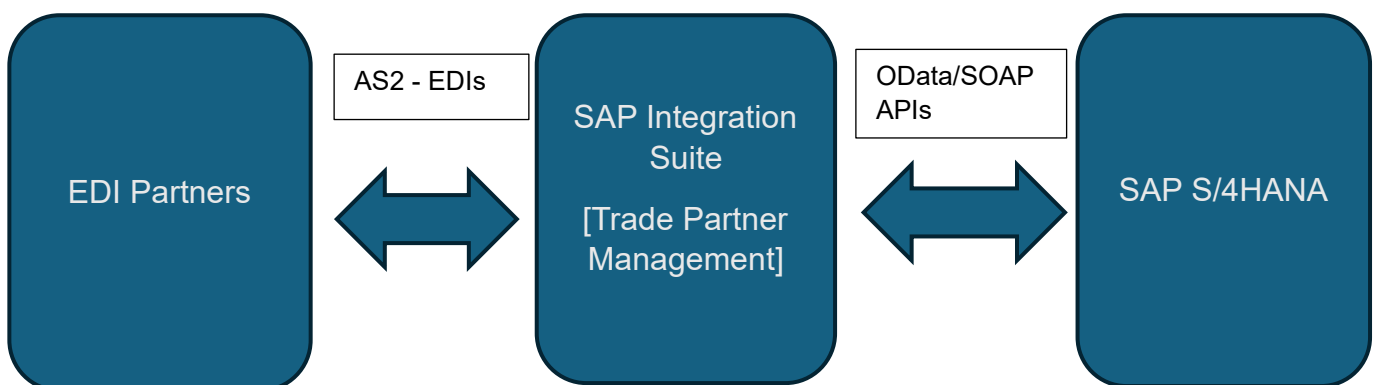| SuccessFactors	Successfactor ⟷	SAP Integration Suite [Cloud Platform Integration]	OData APIs ⟷	SAP S/4HANA

Key Features:

- Reusable iFlow templates

- Value mapping tables

- Logging and alerting via Cloud Integration Monitoring

2. B2B Integration (Business-to-Business)

Example: EDI Order processing with a retailer

Use Case: Receive ANSI X12 850 (Purchase Order) -> Convert -> Send to SAP backend.

Architecture Flow:

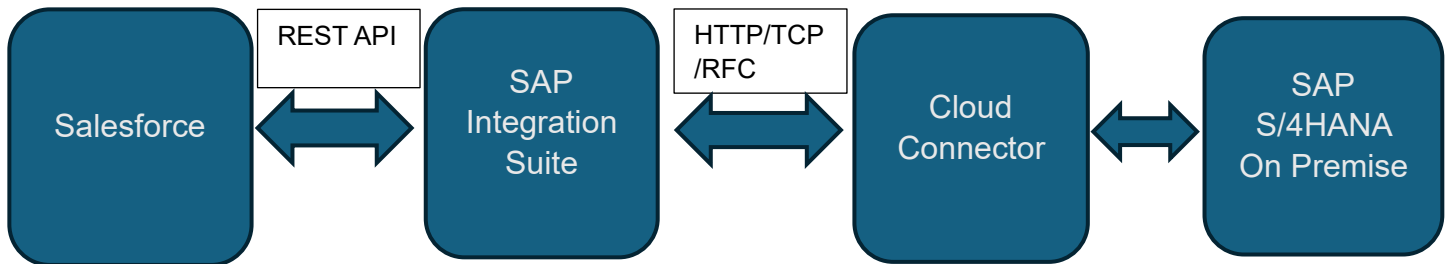| EDI Partners	AS2 - EDIs ⟷	SAP Integration Suite [Trade Partner Management]	OData/SOAP APIs ⟷	SAP S/4HANA

Key Features:

- AS2 Adapter (with certificates)

- Integration Advisor for mappings

- Alerts on parsing errors

- Archival of raw EDI messages

3. Cloud-to-On-Prem Integration

Example: Salesforce to SAP S/4HANA On-Prem

Use Case: Sync customer data from Salesforce to S/4HANA on-premise.

Architecture Flow:

Salesforce	REST API	SAP Integration Suite	HTTP/TCP /RFC	Cloud Connector	SAP S/4HANA On Premise

Key Features:

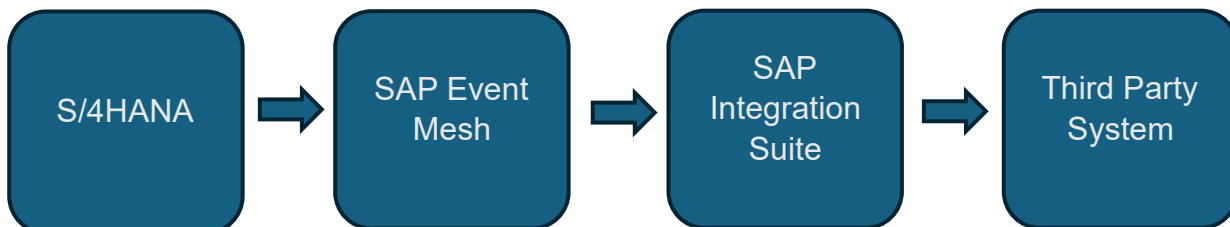- Cloud Connector for secure tunnel

- Secure Store for credentials

- Scheduled sync via Timer in iFlow

4. Event-Driven Architecture with SAP Event Mesh

Example: Trigger integration on new sales order

Use Case: When a new sales order is created in S/4HANA, trigger outbound integration.

Architecture Flow:

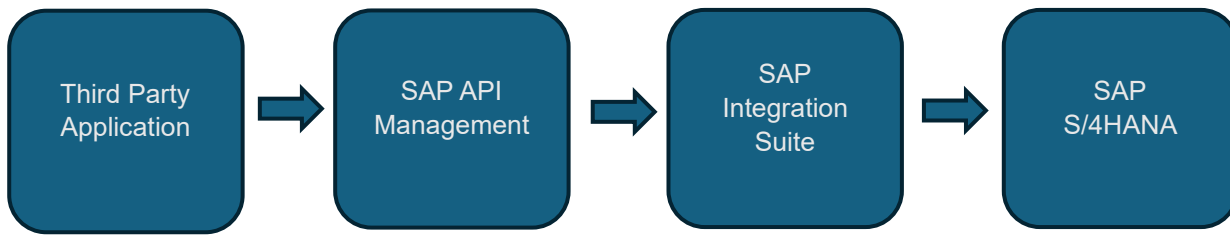| S/4HANA	→	SAP Event Mesh	→	SAP Integration Suite	→	Third Party System

Key Features:

- Real-time, event-driven processing

- Decoupled producer-consumer model

- Uses webhooks or AMQP 1.0

5. API-led Integration with API Management

Example: Expose a customer creation service securely

Use Case: External partners call an API to create customers in SAP backend.

Architecture Flow:

Third Party Application	→	SAP API Management	→	SAP Integration Suite	→	SAP S/4HANA

Key Features:

- Secure API exposure

- Analytics via API Portal

- Versioning and developer onboarding

6. Data Load / ETL Integration

Example: Load large data batches from Data Lake to SAP

Use Case: Daily product master load from Azure Blob -> CPI -> SAP S/4HANA.

Architecture Flow:

Azure Blob/SFTP Server	→	SAP Integration Suite	→	SAP S/4HANA

Key Features:

- Chunk processing

- Archival + failure handling

- Email alerts