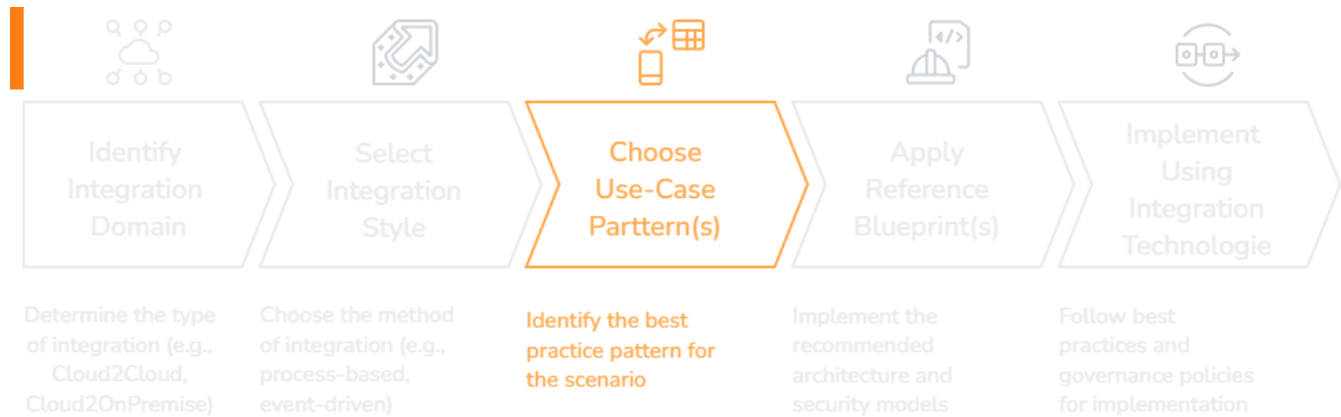


Integration Use-Case Patterns

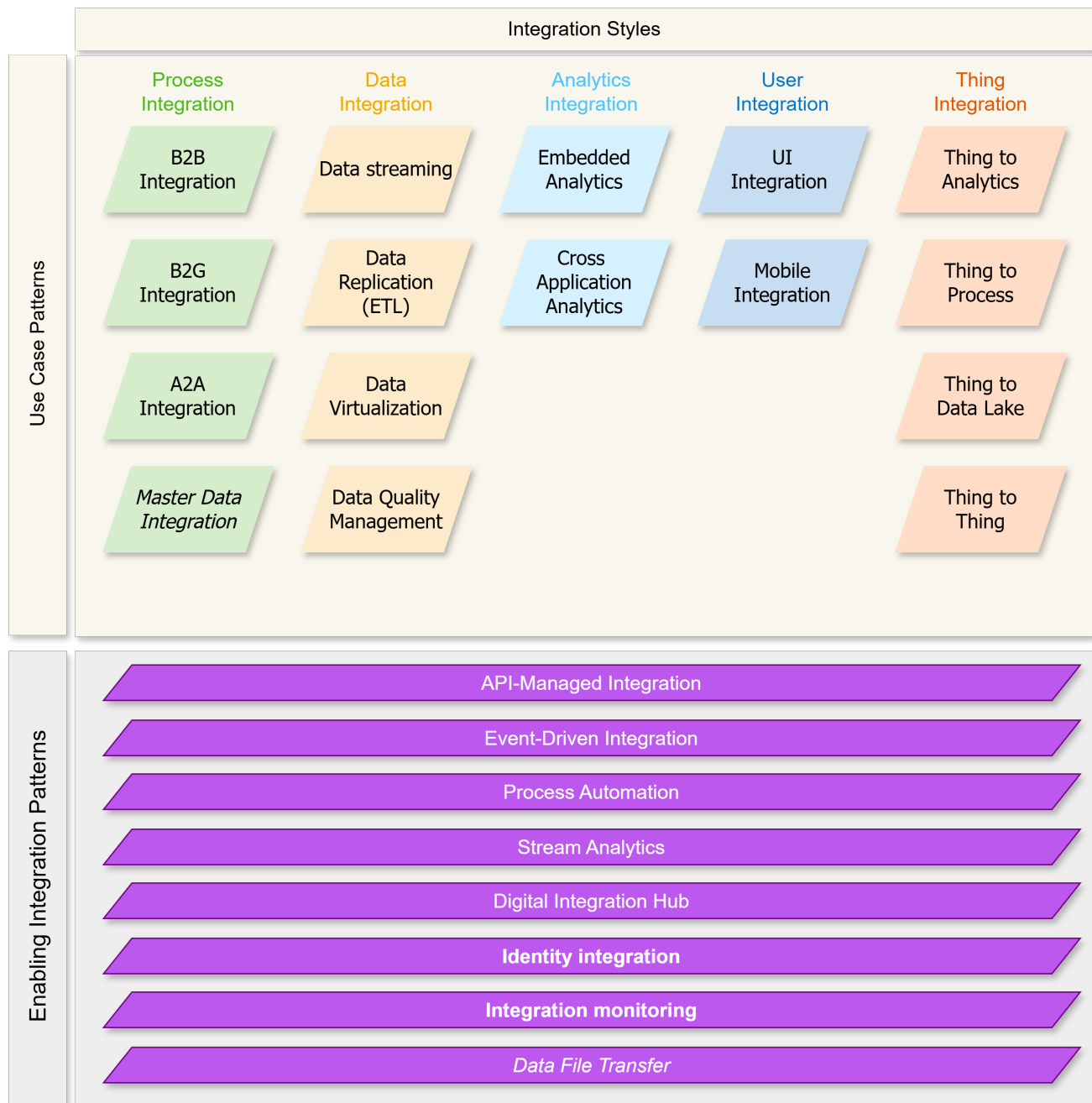


Use-Case Pattern

Use-case patterns describe recurring business scenarios or problems that require integration.

These patterns are categorised based on specific business needs, such as real-time order processing, master data synchronisation, or IoT device monitoring.

Use-case patterns are built based on the identified appropriate [Integration Styles](#) that suit the business problem:



What to select

Use-case patterns help us choose the best approach for our integration needs.

- **Process Integration** Focuses on business process automation.
- **Data Integration** Handles structured data movement across systems.
- **Analytics Integration** Supports reporting, business intelligence, and real-time analytics.
- **User Integration** Ensures seamless interaction for end users.
- **Thing Integration** Covers IoT data exchange and edge computing.

How to Select the Right Use-Case Pattern?

For real-time business events Use **Event-Driven Messaging**.
For orchestrated workflows Use **Process Integration**.
For moving large data sets Use **Data Integration**.
For analytics and reporting Use **Analytics Integration**.
For user-centric experiences Use **UI-Based Integration**.

Event-Driven Integration does not replace Analytics Integration, but rather enhances it by **providing real-time data feeds for analytics**.

Analytics Integration involves both structured and unstructured data, unlike Process or Event-Driven Integration.

Examples

Integration Style	Use-Case Pattern	Example Scenario
Process Integration	API-based Integration	SAP S/4HANA Cloud exposing APIs to SAP SuccessFactors.
Process Integration	Orchestration Workflow	Automating order fulfilment between SAP and external logistics providers.
Data Integration	Batch Data Replication	Synchronizing customer master data between SAP and a data lake.
Data Integration	Real-time Streaming	Streaming transactional data from SAP ERP to a cloud analytics platform.
Event-Driven Integration	Event-driven Messaging	Using Data Event Integration to notify downstream systems of sales order changes.
User Integration	UI-based Integration	Providing SAP Fiori applications for users to interact with cloud and on-premise systems.
Thing Integration	IoT Edge Processing	Collecting real-time machine data and integrating it into SAP Digital Manufacturing Cloud.