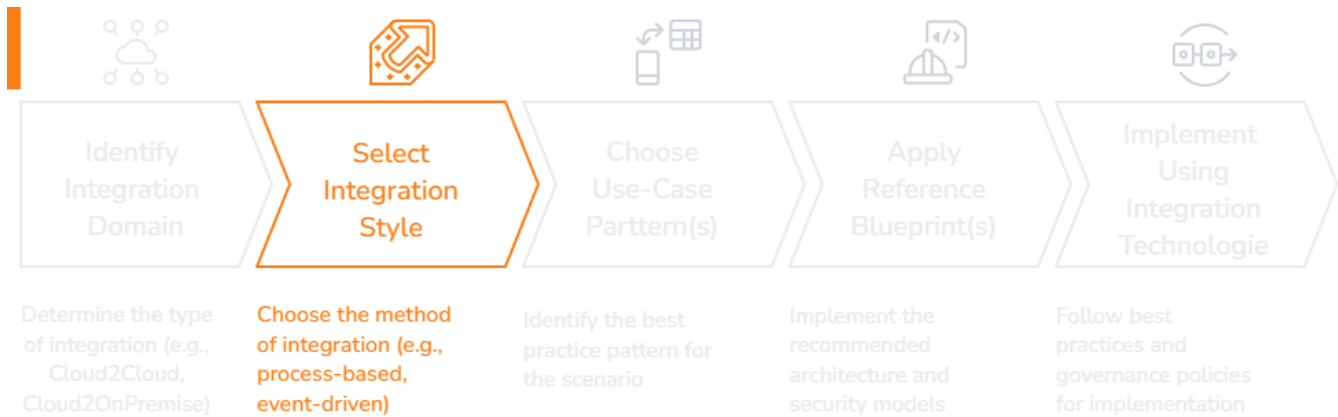


Integration Styles

IN REVIEW



Integration Design Process - Integration Style

Integration Styles

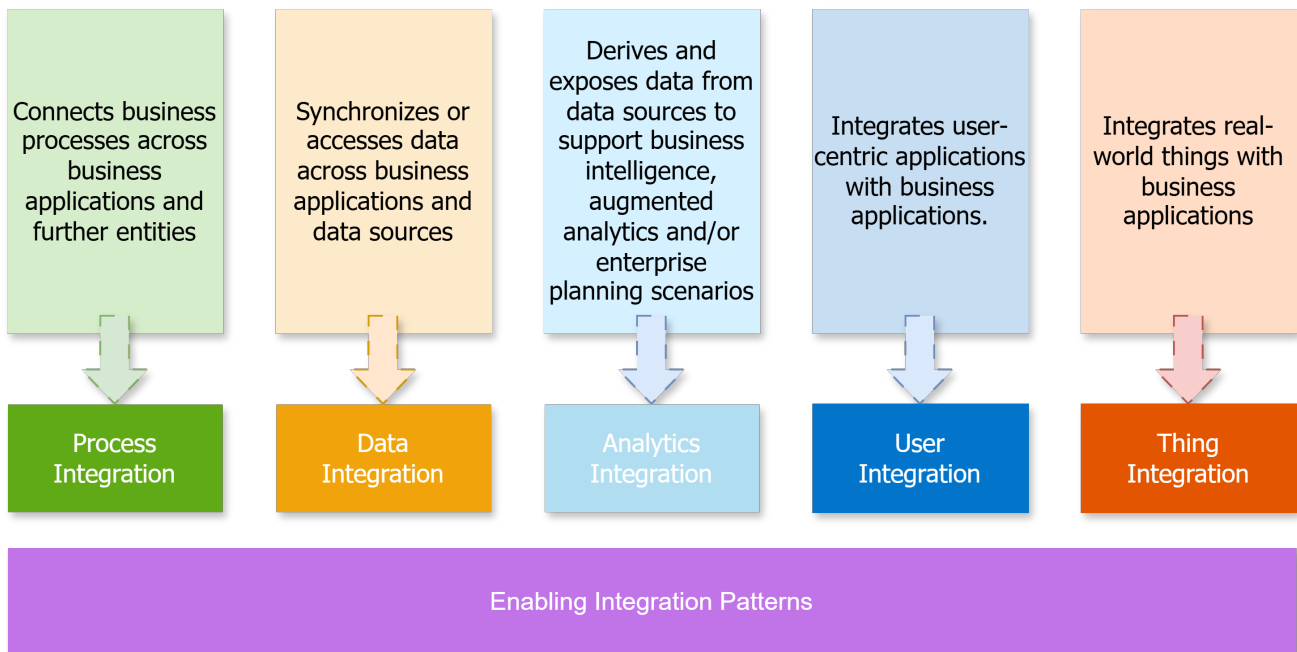
Integration styles represent key integration archetypes, which describe how an integration scenario between a business application and its target is realized.

Each integration style is refined by use-case patterns, which describe frequently used integration use-cases

Based on the same principles, [Enabling Integration Patterns](#) complement one or more of the five core integration styles (such as “API-managed integration” or “event-based integration.”)

[Enabling Integration Patterns](#) supports the use-case implementation.

The current version of our Integration Design Framework includes five integration styles, which are:



All integration styles are technology agnostic and are applicable within multiple integration domains.

Characteristics of the Integration Styles

	Process integration	Data integration	Analytics integration	User integration	Thing integration
Objective	Chaining of business processes	Synchronization of data	Deriving business insights from business applications and data sources	Omni-channel access to back-end applications	Capturing and processing of real-world data
Interaction type	System-2-system	System-2-system	System-2-user	User-2-system	Thing-2-system
Coupling to application	Process-level	Data-level	Data-level / business-level	User interface level	Thing event
Primary trigger	Application event	Schedule or application event	Application event (or User event)	User event	Thing event
Execution mode	(Near) real time	Batch or near real time	(Near) real time or batch	(Near) real time	(Near) real time or batch
Unit of data exchange	Single objects	Bulk-data or single objects	From aggregated to line-item data	Single objects or bulk-data	Single objects or bulk-data
Specific requirements	<ul style="list-style-type: none"> • Transactional integrity • Reliable messaging • Message orchestration • B2B protocol support 	<ul style="list-style-type: none"> • Data orchestration • Complex transformations • Data quality management • Big Data processing 	<ul style="list-style-type: none"> • Local and remote data sources • Data & predictive modeling, planning • Data privacy & authentication • Data volume 	<ul style="list-style-type: none"> • Online / offline support • Device management • End-user management • Application management 	<ul style="list-style-type: none"> • Thing management • Edge intelligence • IoT protocol support • Event stream processing

How to choose ?

DRAFT

IT Integration domains to Integration Styles recommendation guide

Integration Domain	Process integration	Data integration	Analytics integration	User integration	Thing integration
Cloud2Cloud	General recommendation	Reasonable alternative	Reasonable alternative	To be avoided	
Cloud2OnPremise	General recommendation	Reasonable alternative	Reasonable alternative	To be avoided	
OnPremise2OnPremise	General recommendation	Reasonable alternative	Reasonable alternative	Possible exception	
User2Cloud	Reasonable alternative	To be avoided	Reasonable alternative	Reasonable alternative	
User2OnPremise	General recommendation	To be avoided	Reasonable alternative	Reasonable alternative	
Thing2Cloud		Reasonable alternative		To be avoided	General recommendation
Thing2OnPremise		Reasonable alternative		To be avoided	General recommendation
Cloud2External	General recommendation	General recommendation	To be avoided	Possible exception	
OnPremise2External	General recommendation	General recommendation	To be avoided	Possible exception	