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Digital Continuity
Between 3DEXPERIENCE on Cloud and ERP

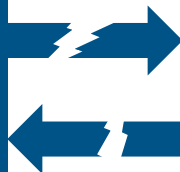
ENTERPRISE INTEGRATION STRATEGY

PLM vs ERP

PLM

PLM is about products' ideation, innovation, and design processes.

PLM focuses on the configuration and relation between the various components of a product.



ERP

ERP is about quality, efficiency, and cost-control aspects in the manufacturing and supply stages.

ERP focuses on the movement of materials such as inventory management, production scheduling, and logistics.



ENTERPRISE INTEGRATION STRATEGY

Benefits of integration



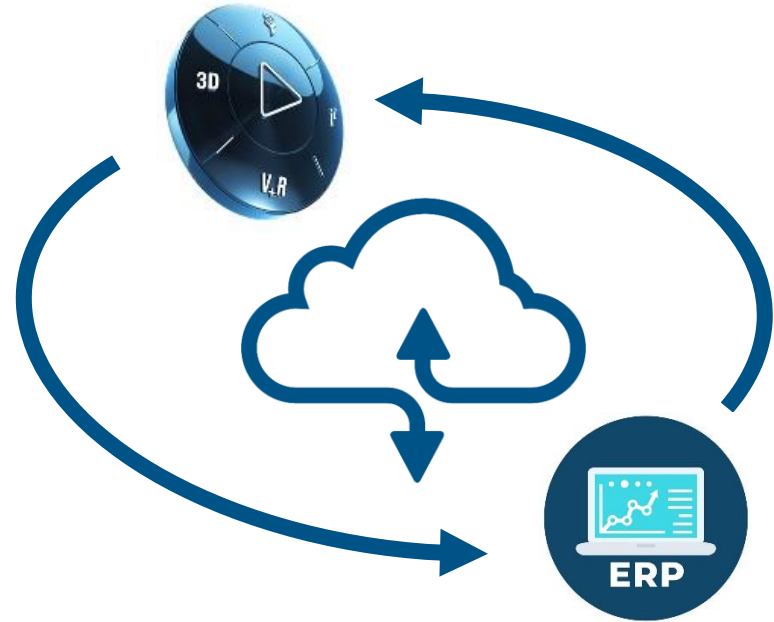
Higher efficiency



Cost reduction



Improved collaboration



ENTERPRISE INTEGRATION STRATEGY



Business Challenges

Ensure process continuity across heterogeneous tools in an existing and constrained IT ecosystem

Non-disruptive adoption of an enterprise platform while protecting past investments and capitalized IP



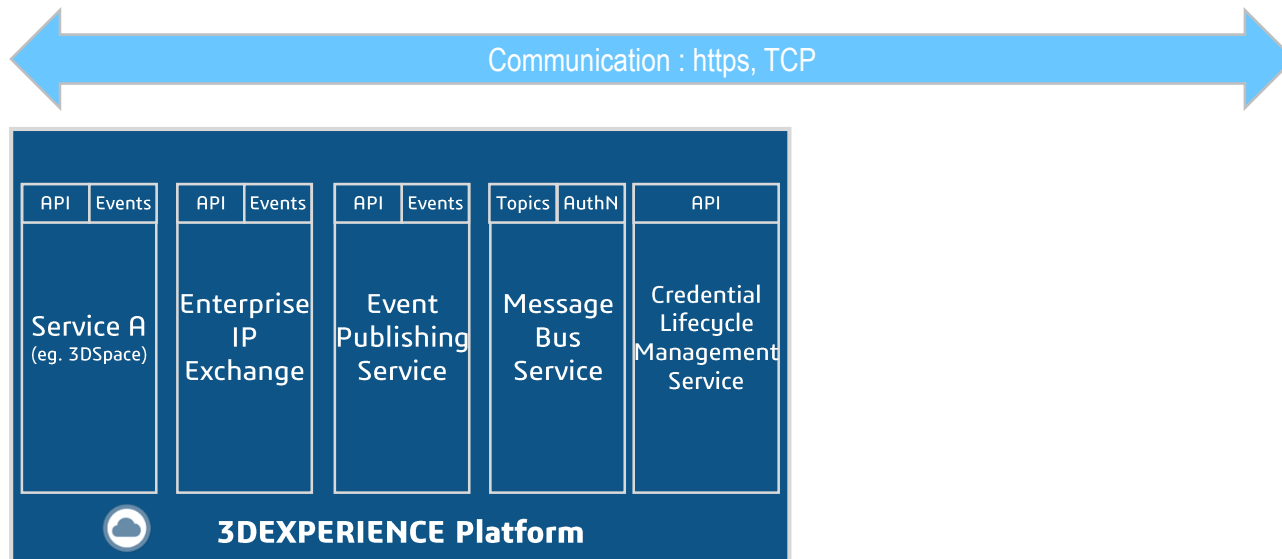
Mission Statement

Bidirectional interoperability with ERP at the core of 3DEXPERIENCE platform



ENTERPRISE INTEGRATION – ARCHITECTURE OVERVIEW

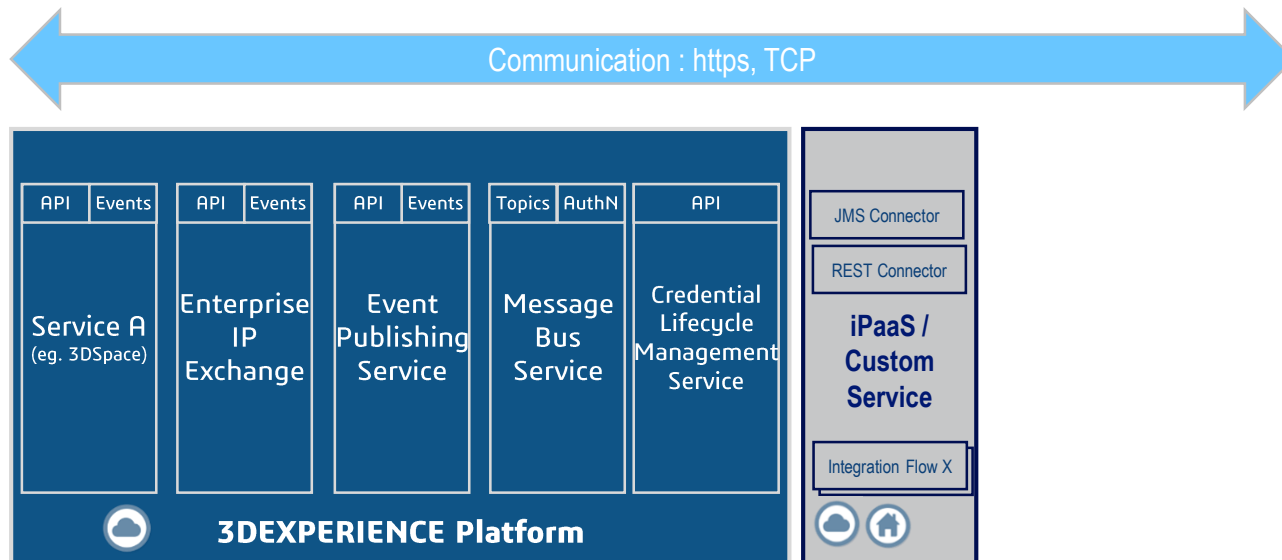
Cloud Enterprise Integration based on the 3DEXPERIENCE Integration framework



- Services provided by Dassault Systemes
- External Services

ENTERPRISE INTEGRATION – ARCHITECTURE OVERVIEW

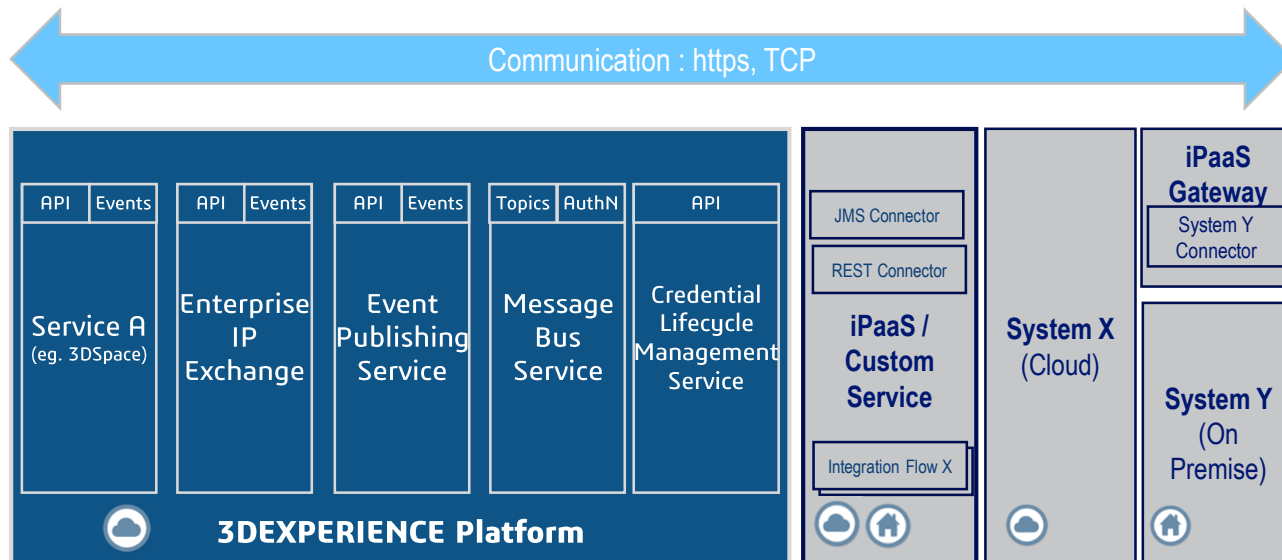
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ENTERPRISE INTEGRATION – ARCHITECTURE OVERVIEW

Cloud Enterprise Integration based on the 3DEXPERIENCE Integration framework

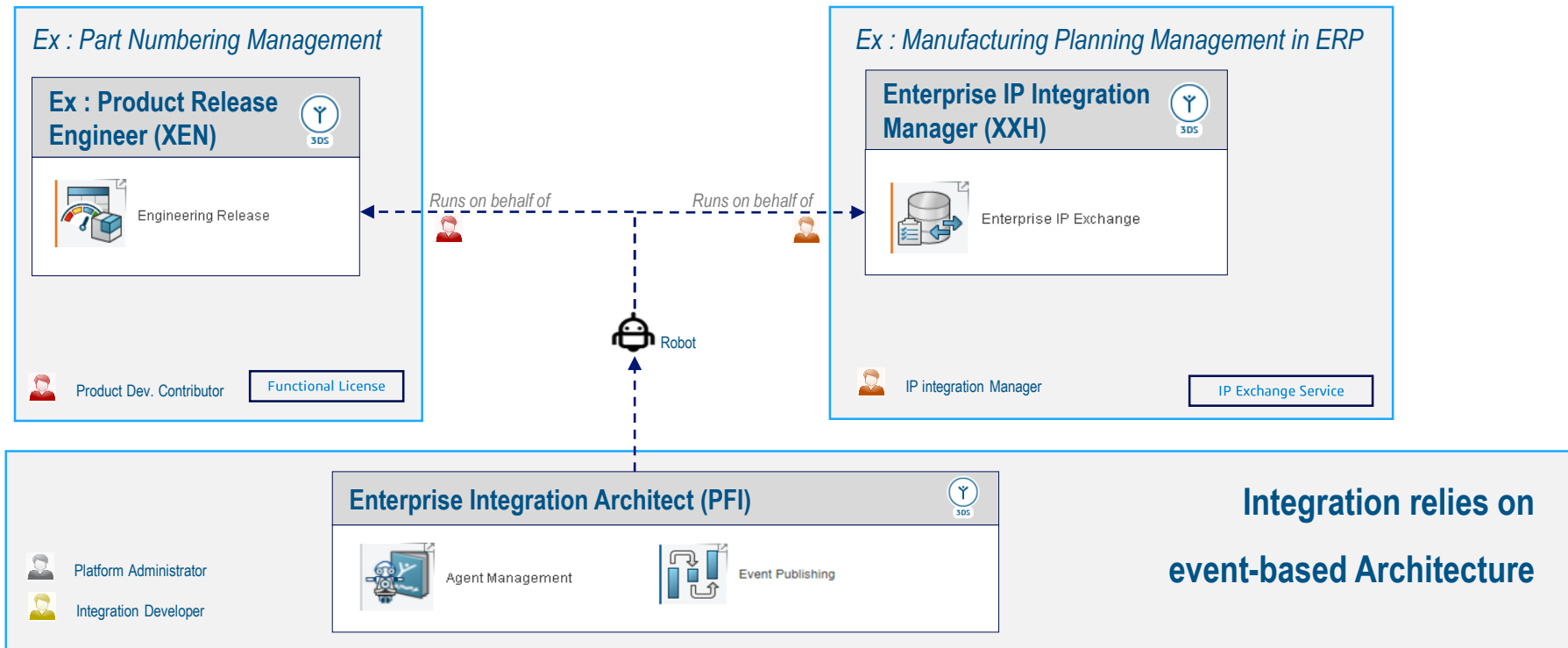


- Services provided by Dassault Systemes
- External Services

ENTERPRISE INTEGRATION ROLES

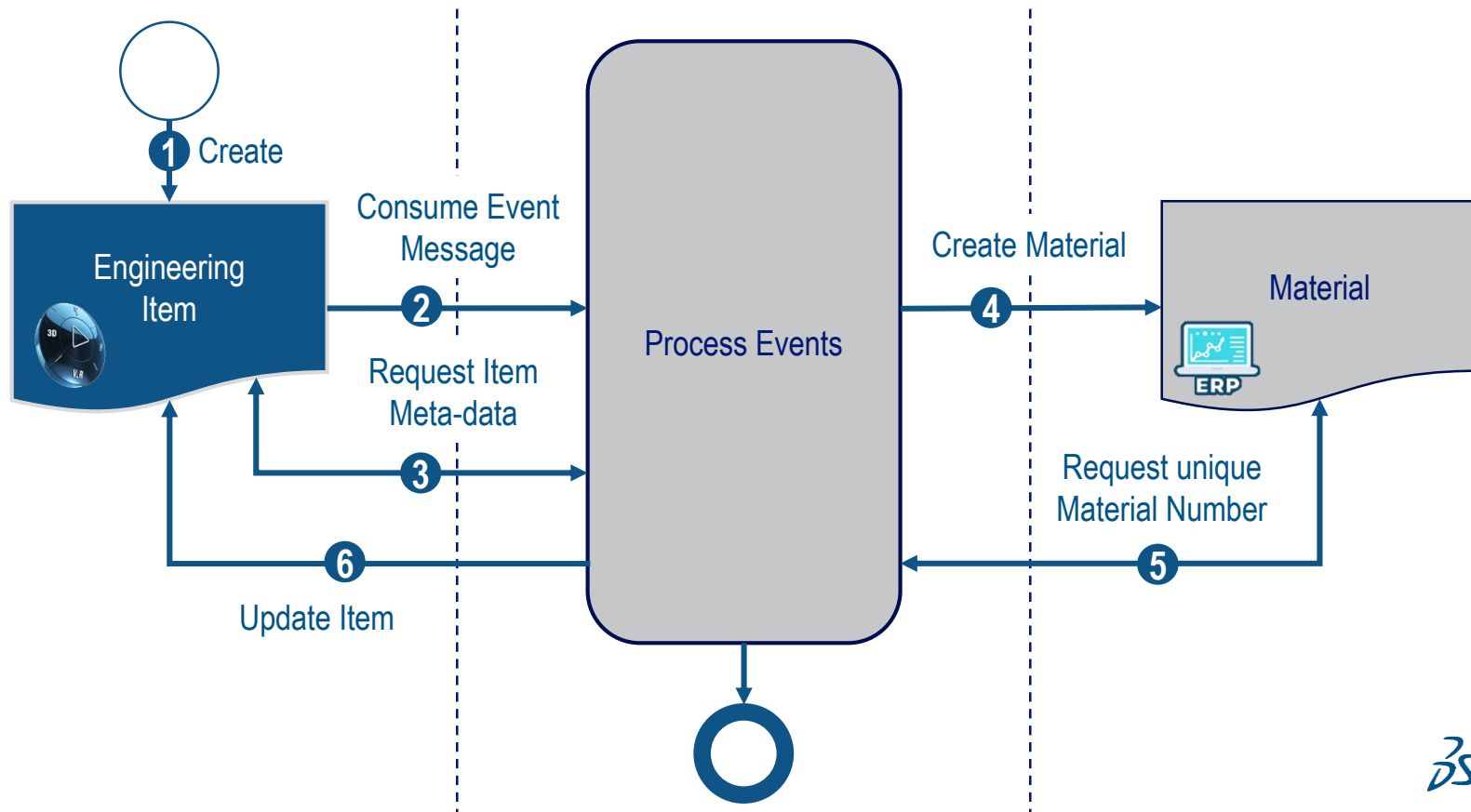
Based on WebAPIs for instant operation execution
(Punctual Operations)

Based on files exchange for optimized operation on large data
(Bulk Data Imports / Exports of product structure)



PROCESS FLOW

Create Master Data in ERP / Get Material Number from ERP



Enterprise Integration Architect

EIF Demo

EIF Admin

Agent Management - R1132100049406 - EUW11

Event Publishing - Public Event Administration

Agent Management

Event Publishing

Agent Manager

Available Services

Message Bus URL : failover:(ssl://eu1-msgbus.3dexperience.3ds.com:61616?soTimeout=60000&soWriteTimeout=60000,ssl://eu1-msgbus-1.3dexperience.3ds.com:61616?soTimeout=60000&soWriteTimeout=60000)?randomize=false

Events are published on public topics starting with 3dsevents.R1132100049406

Details about services offering agent based authentication are provided in the Developer Assistance

Services offering Web Services and Events

Search Services

3DCompass

https://r1132100049406-eu1-apps.3dexperience.3ds.com/enovia

3DPassport

https://r1132100049406-eu1.iam.3dexperience.3ds.com

3DSpace

https://r1132100049406-eu1-space.3dexperience.3ds.com/enovia

3DSwym

https://r1132100049406-eu1-3dswym.3dexperience.3ds.com

3dplan

https://r1132100049406-eu1-3dplan.3dexperience.3ds.com/3DPLAN

3dregistry

https://eu1-registry.3dexperience.3ds.com

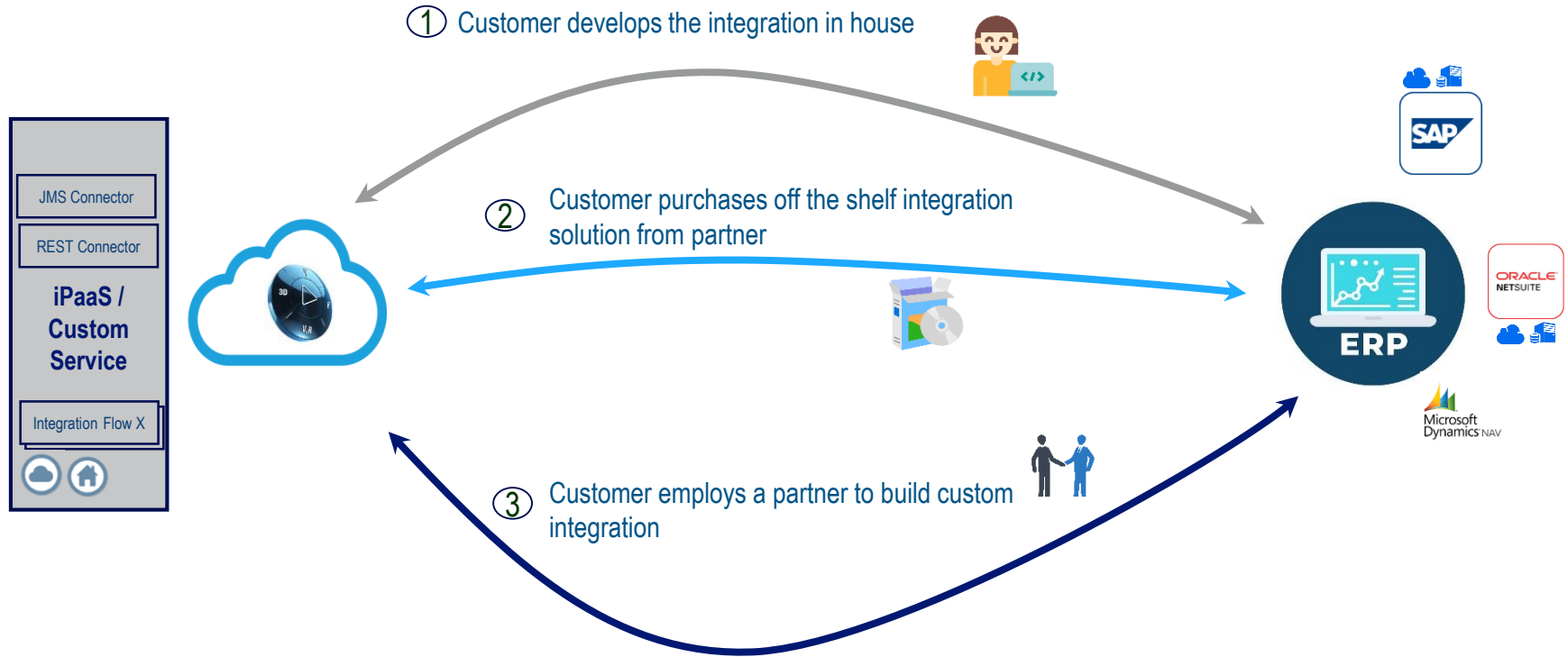
exchange

https://r1132100049406-eu1-exchange.3dexperience.3ds.com/exchange

3dmfgworkorder

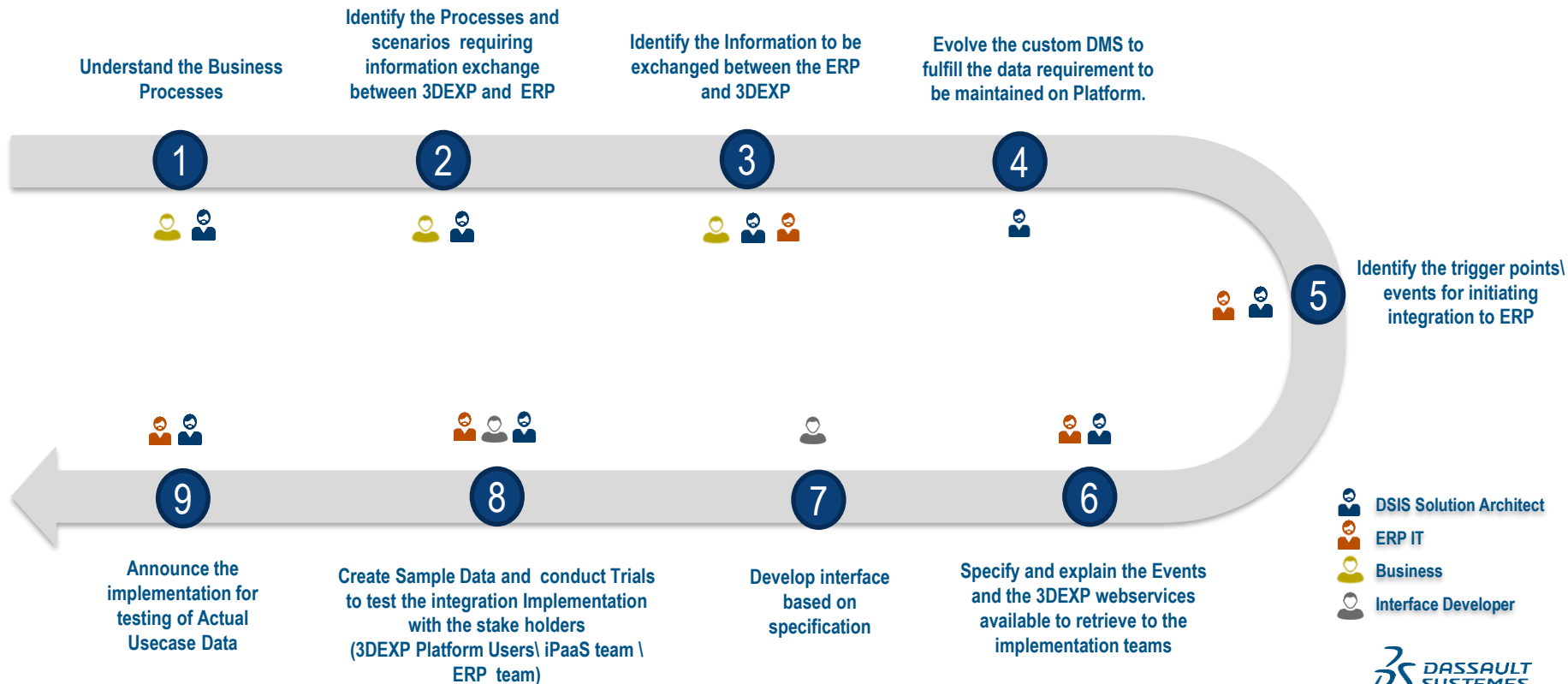
Event Categories & Types	Created	Status Changed	Versioned	Computed	Connected
Collaborative Spaces Control					
Change Process					
Manufacturing Process					
Project Management					
Logical Domain					
Functional Domain					
Manufacturing Order					
Data Exchange					
Sourcing and Supplier Process					
Project Planning					
Materials					
Formulation					
Portfolio Management					
Laboratory Operations					

3DEXPERIENCE PLATFORM TO ERP INTEGRATION PATHS



IMPLEMENTATION OF PLM – ERP INTERFACE

Supported by Dassault Systemes Industrial Service



SUMMARY

- ✓ **Seamless** integration between two major enterprise systems
- ✓ OOTB **cloud-ready** framework for integration
- ✓ Automated **event-based** interface
- ✓ **Experienced service team** assist you with solution development



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