

SyWay Supplier portal

1. Context & Scope

1.1 Business Context

Within the **SyWay Source-to-Pay transformation**, supplier collaboration must support a broad range of processes:

- Procurement execution (PO, ASN, SES, Invoice)
- Supplier lifecycle (qualification, onboarding, enablement)
- Logistics collaboration (carrier integration)
- Integration with S2S (Product Compliance) and S2P (Procurement)
- Regulatory compliance (e-invoicing)

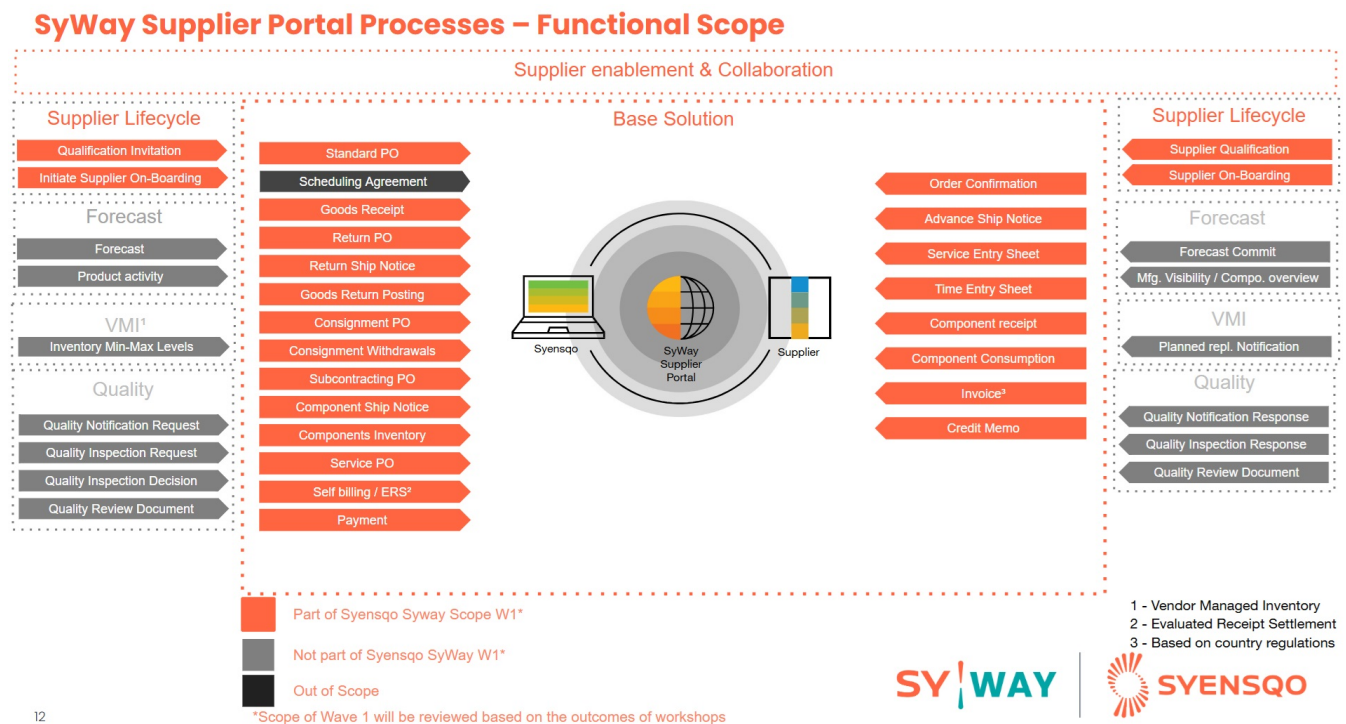
As identified during workshops, standard solutions (S/4 + Ariba) do not fully cover the required collaboration scope, especially for:

- Long-tail suppliers
- Operational collaboration scenarios (consignment, subcontracting, services)
- Flexible qualification logic

Therefore, a **custom SAP BTP Supplier Portal** is introduced as the primary interaction channel

1.2 Solution Scope

The scope is aligned with the “orange areas” from the functional scope diagram below



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In Scope

- Supplier collaboration (PO, ASN, SES, Invoice, etc.)
- Supplier Qualification
- Supplier Onboarding (data + enablement)
- Supplier User Management
- Integration with S/4HANA core processes

Out of Scope (Future Waves)

- Supplier Risk Management
- Advanced ESG scoring
- Supplier 360 analytics

- Extended lifecycle automation

2. Target Architecture Overview

2.1 Hybrid Supplier Collaboration Model

Channel	Role	Usage Scope	Architecture Position
Ariba Sourcing	Sourcing platform	Used for all suppliers for RFx / sourcing events	Upstream (Pre-Procurement)
SyWay Supplier Portal (BTP)	Qualification platform	Used for all suppliers for qualification & onboarding	Lifecycle / Governance Layer
SyWay Supplier Portal (BTP)	Operational collaboration	Default platform for PO collaboration (non-BN suppliers)	Execution Layer (Default)
SAP Business Network (BN)	Strategic collaboration	Used for selected/high-volume suppliers for PO, ASN, invoicing	Execution Layer (Selective)
SAP Business Network for Logistics (BN4L)	Carrier collaboration	Used for all carriers globally	Logistics Layer
EDICOM	E-invoicing compliance	Used for country-specific e-invoicing regulations	Regulatory / Compliance Layer

2.2 Architectural Principles

- S/4HANA = System of Record
 - ZQUAL = Qualification Source of Truth
- BTP = Supplier Interaction Layer

3. Solution Structure

3.1 Base Solution — Supplier Collaboration (ERP-1162)

Purpose

Enable **operational collaboration** between suppliers and S/4HANA

- operational flexibility
- supplier adoption
- automation for high-volume suppliers
- long-tail supplier accessibility

Functional Scope

From scope diagram :

- Purchase Orders & Scheduling Agreements
- Goods Receipt / Returns
- Consignment / Subcontracting
- Service Entry Sheets
- Invoicing / Credit Memo
- Payment visibility
- Quality interactions

3.2 Supplier Lifecycle Add-on (ERP-2089)

Purpose

Provide **supplier governance layer**:

- Qualification
- Onboarding
- Eligibility control

Qualification Model

Event-driven (NPI / MOC / Sourcing / Risk)

Supported Qualification Levels

- Supplier
- Supplier + Country
- Supplier + MGC
- Supplier + Material
- Supplier + Material + Application

Core Data Model

ZQUAL (Custom Table in S/4) = Single Source of Truth

- Stores:
 - Scope
 - Answers
 - Validity
- No duplication of SAP standard data

4. Application Architecture

4.1. BTP Application Landscape

Domain	Application	Capabilities	Description
Lifecycle (Governance)	My Compliance & Qualification	Questionnaire Execution	Suppliers receive and complete qualification questionnaires (multi-level scope: Supplier / MGC / Material / Country)
Lifecycle (Governance)	My Compliance & Qualification	Dynamic Forms	Questionnaire content dynamically adjusted based on scope, category, and regulatory context
Lifecycle (Governance)	My Compliance & Qualification	Document Upload	Suppliers upload certificates and supporting documents (OpenText integration)
Lifecycle (Governance)	My Compliance & Qualification	Status Tracking	Track qualification lifecycle (Draft, Submitted, Rework, Approved, Rejected, Expiring)
Lifecycle (Governance)	Company Information	Supplier Data Maintenance	Suppliers maintain company data, contacts, and banking information
Lifecycle (Governance)	Company Information	Data Synchronization	Data submitted and synchronized to S/4HANA Business Partner
Lifecycle (Governance)	Manage User Access	User Management	Supplier Admin creates and manages users within their organization
Lifecycle (Governance)	Manage User Access	Role Assignment	Assign roles (Admin / Contributor) and control access to portal apps
Lifecycle (Governance)	Manage User Access	Identity Integration	Integration with IAS/IPS for authentication and provisioning
Collaboration (Execution)	Procurement Collaboration	Purchase Order Visibility	Suppliers access and monitor purchase orders
Collaboration (Execution)	Procurement Collaboration	Order Confirmation	Suppliers confirm purchase orders directly via portal
Collaboration (Execution)	Logistics Collaboration	Advance Shipment Notice (ASN)	Suppliers submit shipment notifications to S/4HANA
Collaboration (Execution)	Logistics Collaboration	Goods Receipt Visibility	Suppliers track goods receipt status
Collaboration (Execution)	Logistics Collaboration	Returns Management	Manage return POs and shipment notifications
Collaboration (Execution)	Inventory & Manufacturing	Consignment Management	Manage consignment stock and withdrawals
Collaboration (Execution)	Inventory & Manufacturing	Subcontracting	Manage component shipments and consumption
Collaboration (Execution)	Inventory & Manufacturing	Component Inventory Visibility	View supplier-managed inventory levels
Collaboration (Execution)	Service Collaboration	Service Entry Sheet (SES)	Suppliers submit service confirmations

Collaboration (Execution)	Service Collaboration	Time Entry Sheet	Submit time-based service activities
Collaboration (Execution)	Finance Collaboration	Invoice Submission	Submit invoices for non e-invoicing countries
Collaboration (Execution)	Finance Collaboration	Credit Memo	Submit invoice corrections
Collaboration (Execution)	Finance Collaboration	Payment Visibility	Track invoice payment status

5. Integration Architecture

Domain	Source	Target	Object	Direction	Trigger	Technology	Notes
Procurement Collaboration	S/4	BTP Portal	Purchase Order	Outbound	PO creation/change	OData API	Supplier views PO
Procurement Collaboration	BTP Portal	S/4	Order Confirmation	Inbound	Supplier action	OData API	Supplier confirms PO
Logistics Collaboration	BTP Portal	S/4	ASN	Inbound	Supplier submission	OData API	Shipment notification
Logistics Collaboration	S/4	BTP Portal	Goods Receipt Status	Outbound	GR posting	API	Visibility only
Service Collaboration	BTP Portal	S/4	Service Entry Sheet	Inbound	Supplier submission	OData API	SES submission
Service Collaboration	S/4	BTP Portal	SES Status	Outbound	Approval/rejection	API	Status feedback
Finance Collaboration	BTP Portal	S/4	Invoice	Inbound	Supplier submission	OData API	Only for non e-invoicing countries
Finance Collaboration	BTP Portal	S/4	Credit Memo	Inbound	Supplier submission	OData API	Corrections
Finance Collaboration	S/4	BTP Portal	Payment Status	Outbound	Payment posting	API	Visibility
Qualification Lifecycle	S/4	BTP Portal	Questionnaire Assignment	Outbound	Buyer action	API	Trigger qualification
Qualification Lifecycle	BTP Portal	S/4	Questionnaire Responses	Inbound	Supplier submission	API	Stored in ZQUAL
Qualification Lifecycle	S/4	BTP Portal	Qualification Status	Outbound	Approval/Rework	API	Feedback to supplier
Onboarding	BTP Portal	S/4	Supplier Data (BP)	Inbound	Supplier update	API	Company / Bank / Contacts
User Management	S/4 / BTP	IAS	User Provisioning	Outbound	Supplier activation	SCIM API	Identity & access
Document Management	BTP Portal	OpenText	Attachments	Outbound	Upload	API	Store documents
Document Management	OpenText	BTP Portal	Attachments	Inbound	Retrieval	API	Display documents

Jira Cards

- [ERP-1162 : Develop a new SAP BTP Supplier Portal covering different collaboration processes to extend Syensqo core capabilities](#)
- [ERP-2089 : Extend SyWay Supplier Portal with Supplier Lifecycle capabilities \(Qualification and onboarding\)](#)

Functional Specs

- [ERP-2131 Supplier Portal - Data Modeling](#)
- [ERP-2132 Supplier Portal - Purchase Order](#)
- [ERP-2133 Supplier Portal - Good Receipt](#)
- [ERP-2134 Supplier Portal - Master Data](#)
- [ERP-2135 Supplier Portal - Enablement](#)
- [ERP-2136 Supplier Portal - Application Job for Data Migration](#)