Procurement makes it possible

SAP ARIBA • SAP FIELDGLASS • SAP S/4HANA

SAP Fieldglass
Integration with SAP S/4HANA and SAP ERP

Product Overview
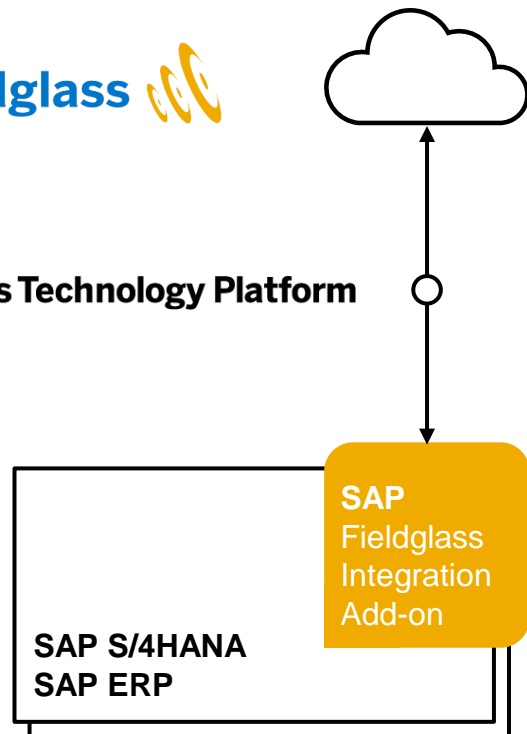Q1 2022

PUBLIC

THE BEST RUN **SAP**

SAP Fieldglass now comes with ready-to-run integration for SAP S/4HANA and SAP ERP customers

SAP Fieldglass

SAP Business Technology Platform

SAP Fieldglass Integration Add-on

SAP S/4HANA SAP ERP

- For master data and transactional data
- Real-time connectivity + code-less integration
- Add-on for SAP ERP 6.0 and SAP S/4HANA
- No separate server required
- Extensible, for custom data + requirements
- Available with 'ERP Editions' of SAP Fieldglass
  - Services Procurement
  - Contingent Workforce Management
  - Assignment Management
- Uses SAP NetWeaver Event-enablement Add-on and the Event Mesh service on SAP Business Technology Platform

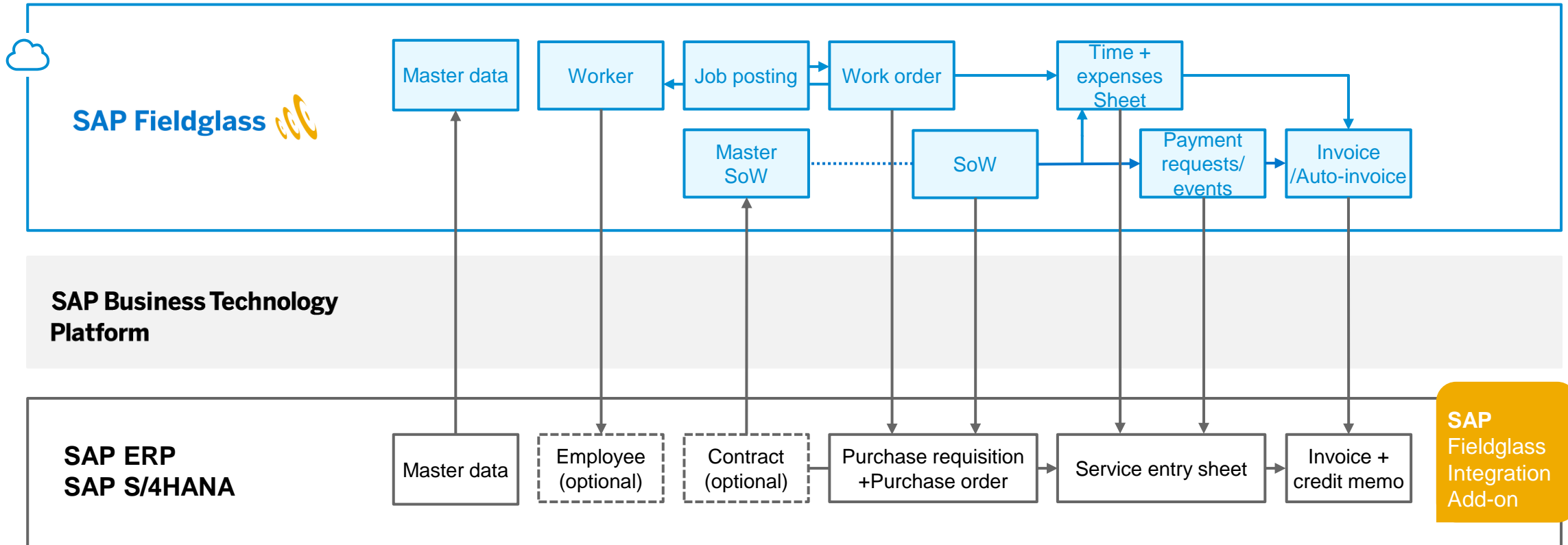# End-to-end integration with SAP ERP and SAP S/4HANA

Scope of the SAP Fieldglass Integration Add-on

- Master data, e. g. accounting data, organizational data

- User upload

- Supplier upload and auto-invitation

- PR and PO integration

- Service Entry Sheets

- Invoices and credit memos

Additional options:

- SAP contracts to Master SoW upload

- SAP Fieldglass Worker to SAP HCM download

- SAP PM/PS integration with SoWs

- Multi-backend connectivity

- Extensible with enhancement spots, custom data and custom coding

SAP Fieldglass Procurement Integration

SAP Fieldglass

| Master data | Worker | Job posting | Work order | Time + expenses Sheet |
| | Master SoW | SoW | Payment requests/ events | Invoice /Auto-invoice |

SAP Business Technology Platform

SAP ERP SAP S/4HANA

| Master data | Employee (optional) | Contract (optional) | Purchase requisition +Purchase order | Service entry sheet | Invoice + credit memo | **SAP** Fieldglass Integration Add-on |

Picture does not show revision and status update processes. Dotted lines = optional integration scenarios

Multi-line feature for SoWs and SES/Timesheets

Options for SoWs (Create/Revise)

2 Options:

- **Header-based integration**
  - 1 SoW results in 1 PR, with total amount, and 1 PO
  - Supports cost object split, to multiple items in the PR/PO then

- **Multi-line integration**
  - User adds new SOW line item
  - System creates delta item in PR and PO.
  - Alternative option: no PR line item, direct PO item update

Options for SES creation (for Work Orders and SoWs)

2 options

- **Multi-line integration**
  - Each TS line becomes a line in the SES.
  - Example: times recorded on standard rate category and overtime rate category result in 2 lines in same SES

- **Header-based / summarized integration**
  (Deprecated feature, requires custom development)
  - All billable amounts per account assignment are added to one SES item
  - No separate SES lines/items per rate category, only summarized values
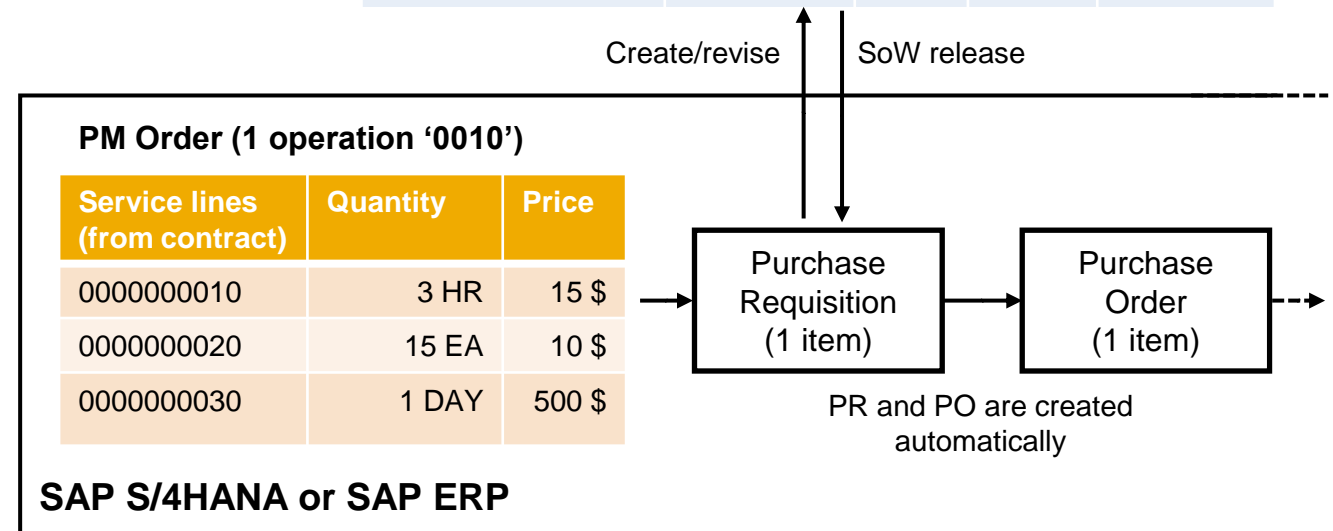
SAP Fieldglass PM/PS Integration

- **PM order operation** or **PS network activity** is created by User in SAP S/4HANA or ERP
- **Purchase requisition** is created automatically and sent as SoW to SAP Fieldglass.
  One PR line-item results in one SoW document.
- **Purchase orders** are created automatically after SoW release, from PR (via ME59N)
- **Revisions** to the SoW can be triggered by adding new PM order operations, which will add new items to PR and PO consequently
- **Timesheets** are transferred to SAP service entry sheets with summarized costs. To also report recorded hours back to PM (as in transaction IW41), a custom implementation is required.
- **PM order operation requires SAP contract reference and Master SoW integration** (upload from SAP contracts)
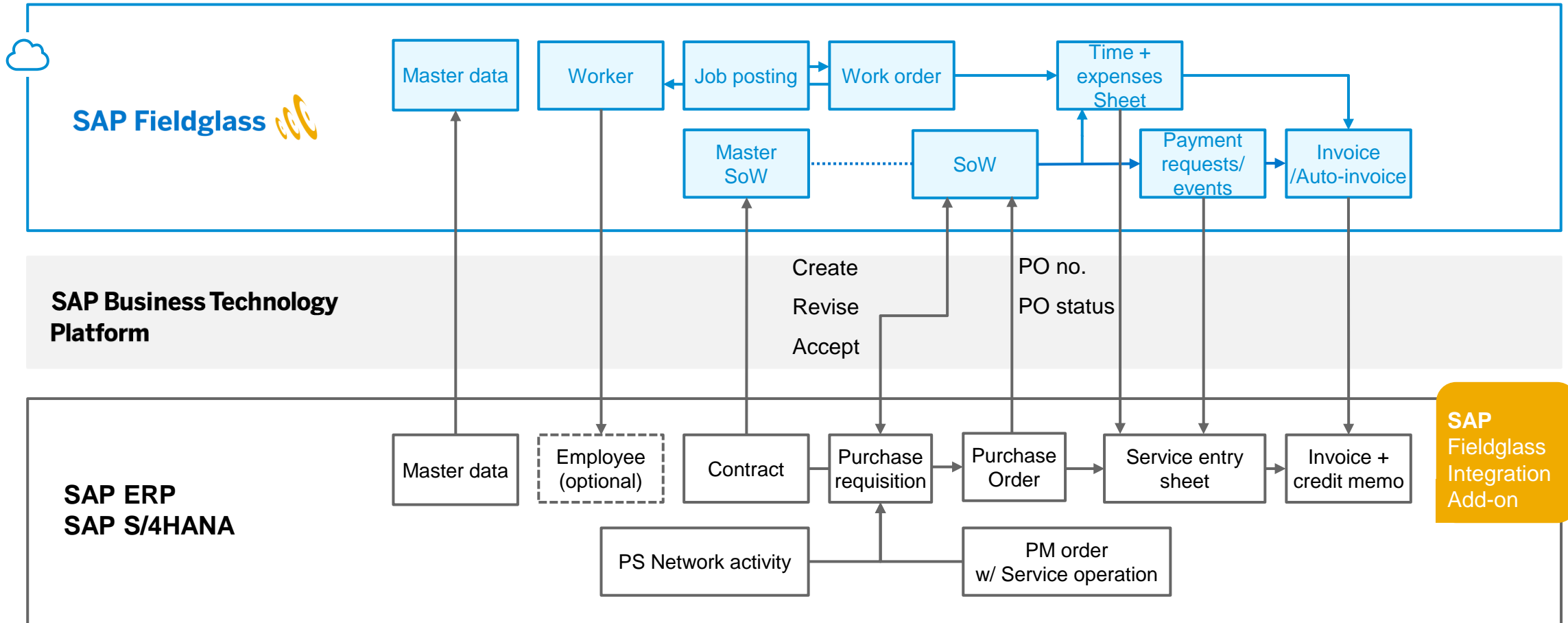
SoW with reference to order operation/ PR item, and service lines as Milestones

SAP Fieldglass

Sequence Number	Requested Amount	Units	UOM	Rate
00010	-	-	-	-
00010|0000000010	45 $	3	HR	15 $/HR
00010|0000000020	150 $	15	EA	10 $/EA
00010|0000000030	500 $	1	DAY	500 $/DAY

Create/revise   SoW release

PM Order (1 operation '0010')

Service lines (from contract)	Quantity	Price
0000000010	3 HR	15 $
0000000020	15 EA	10 $
0000000030	1 DAY	500 $

Purchase Requisition (1 item)

Purchase Order (1 item)

PR and PO are created automatically

SAP S/4HANA or SAP ERP

SAP Fieldglass PM/PS Integration

SAP Fieldglass

- Master data
- Worker
- Job posting → Work order → Time + expenses Sheet
- Master SoW ········ SoW
- Payment requests/ events
- Invoice /Auto-invoice

SAP Business Technology Platform

Create
Revise
Accept

PO no.
PO status

SAP ERP SAP S/4HANA

- Master data
- Employee (optional)
- Contract
- Purchase requisition → Purchase Order → Service entry sheet → Invoice + credit memo
- PS Network activity
- PM order w/ Service operation

SAP Fieldglass Integration Add-on

PM/PS integration is out of scope of SAP Fieldglass Deployment Services

SAP Fieldglass Assignment Management – Integration flow

SAP Fieldglass

| Master data | Contract lookup | Job codes | Assignment | → | Service receipt |

SAP Business Technology Platform

SAP ERP SAP S/4HANA

| Master data | Contracts | Material groups | Purchase order | → | Service entry sheet | Invoice | **SAP** Fieldglass Integration Add-on |
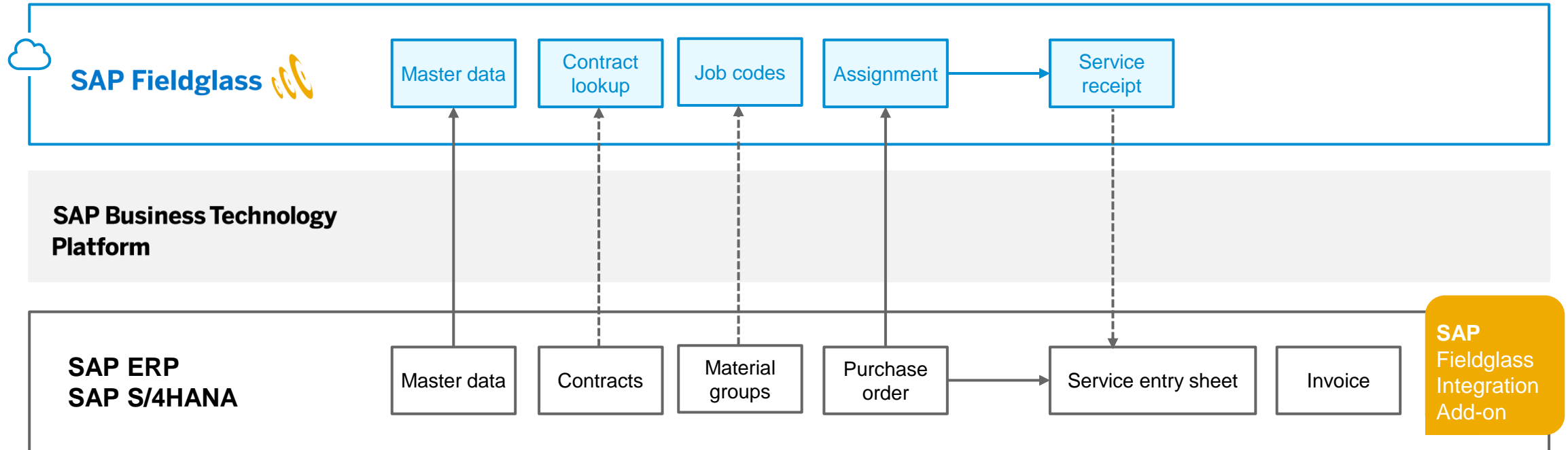
Dotted lines = Planned innovations for *SAP Fieldglass Integration Add-on SPS05*

Picture does not show revision and status update processes. Dotted lines = optional integration scenarios

Code-less integration approach – easy to implement, adopt and operate

- **Add-on** for SAP NetWeaver® systems, easy to implement, adopt and operate

- Can be fully **configured in SAP Customizing Implementation Guide**

- Comes with an extensive **monitoring application**

- Uses **SAP Business Technology Platform** Integration Service and Event Mesh Service (Customers can choose between a complimentary SAP Fieldglass-provided instance or use their own)

- SAP supports customer during installation, connectivity set-up and initial configuration with **SAP Fieldglass Deployment Services**
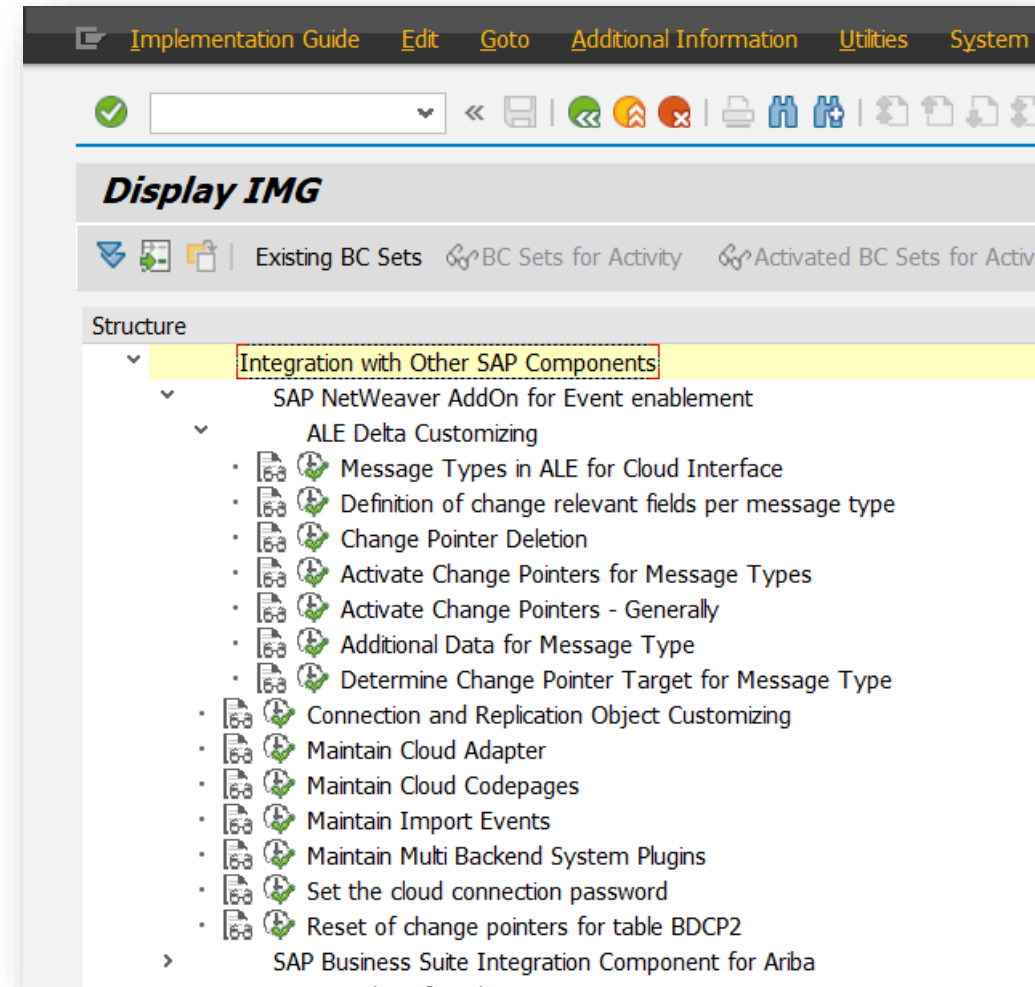
Master data integration options

SAP Fieldglass object	Configuration options	Special features
Legal Entities	Company codes (code and description)	Filter function available, to restrict list of company codes
Business Units	❑ Purchasing organizations from SAP system ❑ Organizational units from SAP system ❑ Company codes from SAP system	Only purchasing organizations assigned to the selected company codes ('Legal Entities') will be uploaded
Sites	Plants (code and description)	Filter function available, to restrict list of plants
Locations	❑ Storage locations ❑ EHS work areas	Work areas from SAP EHS are supported
Users and roles	❑ Users ❑ Roles, mapped to SAP Fieldglass roles	Fully manage your SAP Fieldglass users with established SAP user management processes
⏱ **Suppliers**	❑ Upload existing suppliers ❑ Auto-invite existing suppliers	Uploads marked vendors (vendor classification flag available for CWM, SoW and Assignment management)
⏱ **Cost objects**	❑ Cost centers ❑ WBS elements ❑ Internal orders ❑ Network activities ❑ PM orders	Considers relation of accounting objects to company code
⏱ **G/L accounts**	G/L accounts	Considers relation of G/L accounts to company codes

⏱ = supports real-time connectivity

Built-in monitoring application

The Monitor App can cross-connect to other add-on installations within your landscape, for central monitoring of all interfaces.

Get **analytical** insights with graphics on Interfaces, data volume, messages etc.

Best practice with scalable integration scope

SAP Fieldglass® Integration Add-on comes as a full-featured package, with many options.
You can choose the appropriate integration scenario – during the SAP supported deployment phase or after.

Available scenarios are:

- **Master data & invoice** integration only
- **Procurement** integration scenario, including master data and full procurement process integration
- **Plant Maintenance** integration scenario, including above plus SAP backend-initiated processes, e.g. creating SoWs from SAP Plant Maintenance orders.
- Optional additional scenarios: **Contract/Master SoW integration, Worker/HCM integration**

→ All integration scenarios come with '**Recommended Solution Settings',** to reduce project effort and risk, while leaving you all options for future scalability.

Real-time Integration – now available for SAP Fieldglass
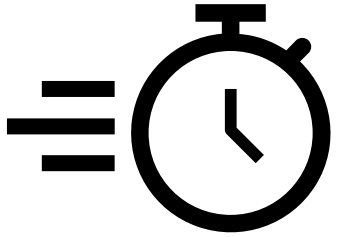
Event-driven real-time integration, **leveraged by the Event Mesh service on SAP Business Technology Platform**

✓ Always the latest master-data in SAP Fieldglass. New or changed data is instantly available.

✓ Currently supported for suppliers, cost objects and G/L accounts

✓ Faster process flow between SAP Fieldglass and SAP backend systems:

- Approval/rejection of PR/PO immediately triggers approval/rejection of Workorder or SoW

- Rejection of PR/PO due to blocked vendor, errors etc. immediately triggers rejection of Workorder or SoW

- Invoice posting status updates are immediately returned to SAP Fieldglass invoices

SAP HCM Integration
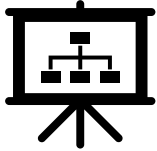
Integrate Workers from SAP Fieldglass Contingent Workforce Management with SAP HCM system/module

- supports separate SAP HCM systems + HCM modules running within SAP ERP or SAP S/4HANA
- the integration is triggered by the following actions in SAP Fieldglass for an employee:
  - Hire
  - Change
  - Terminate
  - Re-hire
- the employee data record is transferred to the SAP system
- required positions and jobs are created/updated/deleted in the organizational structure
- attributes of the worker are stored in the corresponding SAP HCM 'infotypes'
- one SAP employee is created/updated/deleted per employee
- the created SAP personnel number is reported back to SAP Fieldglass

Easily on-board existing suppliers, with 'Auto-invite'

Easily on-board your existing suppliers by e-mail invitation: existing vendor data is uploaded and completed through supplier

- the Add-on can upload all SAP suppliers classified/marked as relevant for SAP Fieldglass processes
- vendor master in SAP Fieldglass with reference to the SAP supplier ID is created automatically
- if auto-invite option was selected, an invitation email gests sent to the first supplier contact person
- supplier clicks link in e-mail and registers with SAP Fieldglass
- master record is created in SAP Fieldglass, with reference to SAP supplier ID
- supported data:
  - SAP supplier ID
  - supplier name
  - primary street address of supplier
  - first and last name + email address of primary contact person

Deployment Services

Deployment Services for SAP Fieldglass Integration Add-on

What is the idea?	SAP supports customers during the implementation of the SAP Fieldglass Integration Add-on
Who is eligible?	Customers who receive SAP Deployment Services as part of their SAP Fieldglass subscription license
How is it delivered?	❏ 3 workshops with business and IT responsibles ❏ Remote configuration of SAP backend test system (requires SAP OSS system connection) ❏ 1 hand-over workshop with knowledge-transfer to responsible customer team
What is in scope?	❏ Integration of 1 SAP S/4HANA or SAP ECC 6.0 test system ❏ Configuration of standard scope options for master data and procurement integration flow
What is NOT in scope?	❏ MSoW integration scenario, PM/PS integration scenario, additional systems, HCM system integration, custom interfaces ❏ Any other consulting service, e. g. for go-live, hypercare, fit/gap design, brownfield integration, BAdI or code implementation, SAP system administration, application consulting, etc.

Deployment Services – Timeline

- Activities for the Integration Add-on are aligned with the standard SAP Fieldglass implementation timeline.
- Timeline relies on customer contribution, as the Add-on is installed and operated within the existing SAP backend system landscape.

Phase	Discover	Prepare	Explore	Realize	Deploy	Run
SAP Deployment Team	-	Kick-off workshop	2 integration workshops	Remote configuration 1 hand-over workshop	-	-
Customer (main activities only)	Installation BTP connection (see slide 6)		Scope finalization	Testing Schedule jobs in backend	Configure production system	Go-live

Deployment Services – Activities

Prepare Phase

Kick-off workshop – explain implementation approach, pre-requisites and identify responsibilities

Customer participants: Project team

→ Milestone: Customer to perform initial installation of the Add-on and connectivity tasks to SAP BTP

Explore Phase

Integration workshop 1 (60-90 min) – Define master data integration options with responsible team

Integration workshop 2 (60-90 min) – Define transactional integration options with responsible team

Scope clarification support (up to 4 hours)

→ Milestone: Customer to sign off scope and prerequisites, latest at end of explore phase

Realize Phase

Remote configuration of SAP backend test system

Customer to schedule required jobs in test system and perform tests

→ Milestone: Documentation of performed settings

End of Realize Phase

Hand-over of TRs and documentation to Customer

Know-How-Transfer Session (60min): present customer configuration, scheduled jobs, explain monitoring

→ Milestone: Session delivered
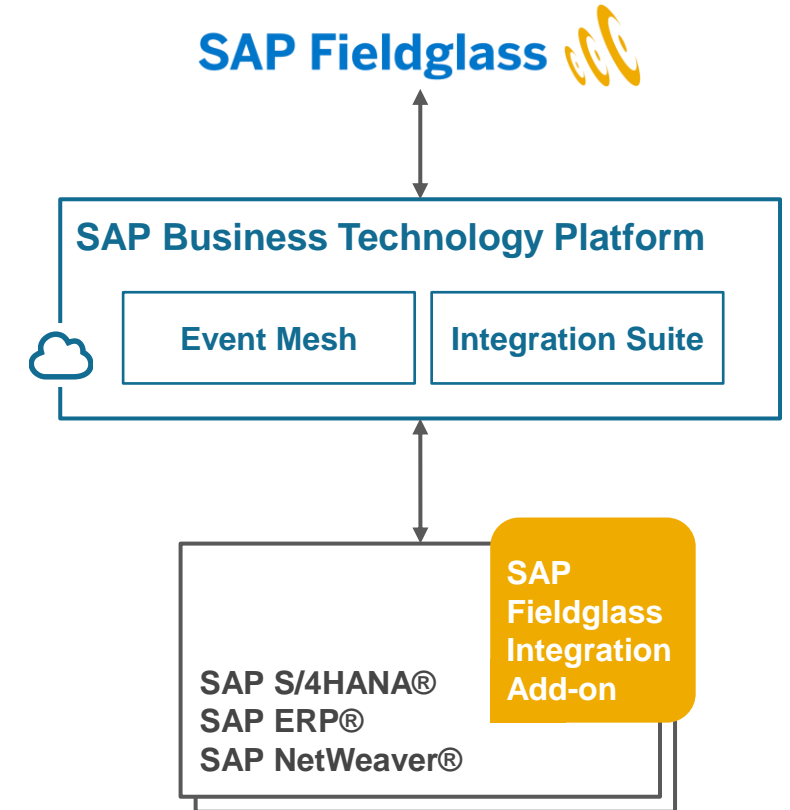
Additional Info

Architecture and technical info

SAP Fieldglass Integration Add-on is installed into SAP on-prem or private cloud instances and uses SAP Business Technology Platform.

SAP backend:

- ❑ SAP S/4HANA 1609 or higher
- ❑ SAP ECC 6.0 EhP 6 or higher
- ❑ On-prem or private cloud
- ❑ Required Add-ons installed
- ❑ Business function LOG_MM_CI_2
- ❑ SAP BTP connectivity set-up

SAP Business Technology Platform:

- ❑ Cloud Foundry instance
- ❑ Event Mesh service (SAP Store)
- ❑ Integration service (SAP Store)
- ❑ Integration Flows (SAP API Business Hub)

This is an overview only - please refer to the current SAP help pages for details.

SAP Fieldglass

SAP Business Technology Platform

| Event Mesh | Integration Suite |

SAP S/4HANA®
SAP ERP®
SAP NetWeaver®

SAP Fieldglass Integration Add-on

Extensibility

SAP Fieldglass Integration Add-on offers several extensibility options:

- ✓ Enhancements spots/BAdIs allow custom-specific process adoptions

- ✓ Conversion exits, for custom data changes on field-level

- ✓ Build additional custom interfaces with ease, and manage them with built-in configuration and monitoring options

Further Information

- SAP Help documentation: https://help.sap.com/viewer/e745d2cc4d114bbf92d2eea49eda9af4/1.0/en-US

- SAP Release Notes: SAP Note 2927040, SAP Note 2927114

- The software can be found on SAP Support Portal (search for 'ASANWEE' and 'ASAFGEE') at
https://launchpad.support.sap.com/#/softwarecenter

- ASAPIO info page: https://asapio.com/fieldglass

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Example Process Flows

Master Data Integration

SAP Fieldglass

| Business Unit | | Legal Entity | Sites | | Locations | | User | Supplier | | | Cost Centre |

SAP BTP

+ SAP Fieldglass Integration Add-on

| Purchasing Org (A) | HCM Org Unit (B) | Company Code | Plant | Storage Locations (A) | HSE Work Area (B) | User & User Role | Supplier | Cost Centre | WBS | Internal Order | PM Order (Acc. Obj.) | Network Activity (Acc. Obj.) |
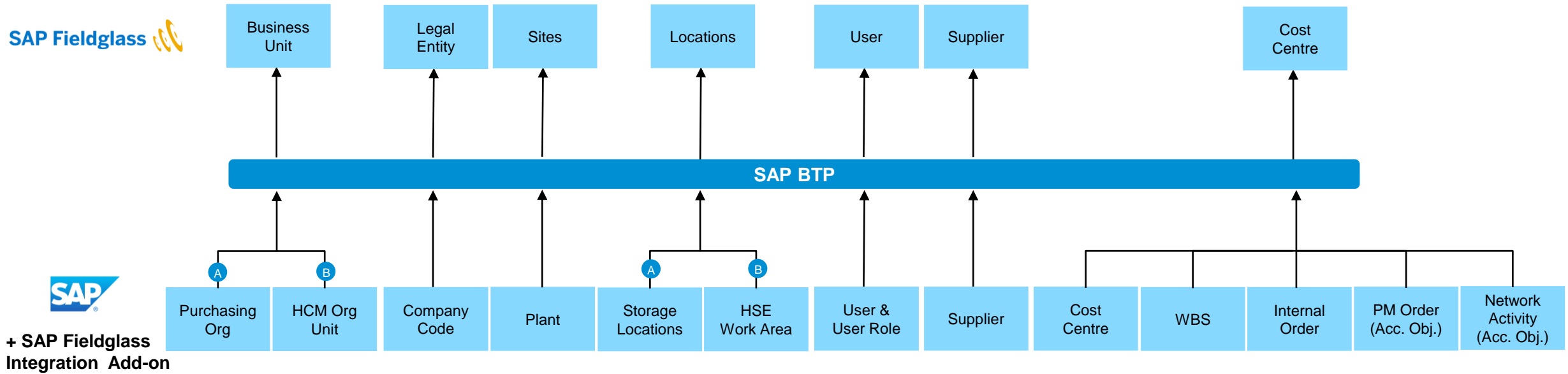
(A) (B) Mutually exclusive options

Contingent Workforce Management Integration

Supplier Network

- Submit Candidates
- Release assignment to supplier
- Active Directory
- Supplier/Worker submit Timesheet
- Supplier submits Invoice

SAP Fieldglass

Create Job Posting → Approval → Distribute to Suppliers → Review Candidates → Create Work Order → Approval → Export requisition → Update with SAP PR # → Update WO with PO # → Worker Mobilization → Approve Timesheet → Export service entry sheet → Create invoice → Export Invoice → Invoice status

SAP BTP

SAP

Create requisition → Export Requisition → Create purchase order → Export Purchase Order

Create service entry sheet

Create vendor invoice → Invoice matched and approved

Flow may include processes and interfaces not in scope of SAP Fieldglass Integration Add-on

Services Procurement integration

Supplier Network

SAP Fieldglass

SAP

Active Directory

Release assignment to supplier

Supplier submit Job Completion Certificate

Supplier submits Invoice

Master statement of work MSOW → Create SOW → Approval → Export requisition → Update with SAP PR # → Update SoW with PO # → Worker Mobilization → Approve Job Completion → Export service entry sheet → Create invoice → Export Invoice → Invoice status

SAP BTP

Outline agreement (MK / WK) → Export to SAP Fieldglass

Create requisition → Export Requisition → Create purchase order → Export Purchase Order

Create service entry sheet

Create vendor invoice → Invoice matched and approved

Flow may include processes and interfaces not in scope of SAP Fieldglass Integration Add-on

Plant Maintenance/Project System integration

Supplier Network

- Release assignment to supplier
- Active Directory
- Supplier submit Job Completion Certificate
- Supplier submits Invoice

SAP Fieldglass

- Master statement of work MSOW
- Create SOW
- Approval
- Create SoW
- Export Requisition Update
- Update SoW with PR/PO #
- Worker Mobilization
- Approve Job Completion
- Export service entry sheet
- Create invoice
- Export Invoice
- Invoice status

SAP BTP

SAP

- Outline agreement (MK / WK)
- Export to SAP Fieldglass
- Create PM WO
- Create PS Network
- Create requisition
- Export SOW
- Update requisition
- Create purchase order
- Create service entry sheet
- Create Vendor invoice
- Invoice matched and approved

Flow may include processes and interfaces not in scope of SAP Fieldglass Integration Add-on