

# ERP-2324 OrderChange Message from Elemica - System Interface S/4

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<b>Jira Request ID</b>	 <a href="#">ERP-1424</a> - Jira project doesn't exist or you don't have permission to view it.
<b>Jira Development ID</b>	 <a href="#">ERP-2324</a> - Jira project doesn't exist or you don't have permission to view it.

## High- Level Specification

<b>Implementing System</b>	SAP S/4HANA
<b>Invoked by/Invokes</b>	<a href="#">ERP-2325 OrderChange Message from Elemica - Integration Process</a>
<b>Business Process Reference</b>	02.04.02.01. Manage Standard Sales Order

## Functional Overview

The functional design of the system interface defines the API to be provided or consumed.

EDI customers sends their Sales Order change message through Elemica to Syensqo. Elemica sends the OrderChange XML to SAP CPI. SAP CPI then triggers a custom API to compare a predefined subset of the OrderChange fields with their corresponding subset of fields in the existing Sales Order fields and identifies the fields that the OrderChange message is requesting to change. The Sales Order and the fields where new values are sent in the OrderChange message are then sent to the Order Modification Fiori App for CSR review and approval / rejection. A notification is also sent to the CSR on the sales order with the changes requested by the customer.

The purpose of this functional specification is to create the custom API for the identification of the changes to a sales order requested by the customer and sending notification of the changes to the CSR. This will be done by using

1. data directly available in the Elemica XML
2. data derived from S/4HANA based on data in the Elemica XML (e.g. using the Purchase Order Number in Elemica XML to find the Sales Order Number in S/4HANA)
3. data directly pulled from S/4HANA (e.g. Sales Order Number and specific sales order fields)

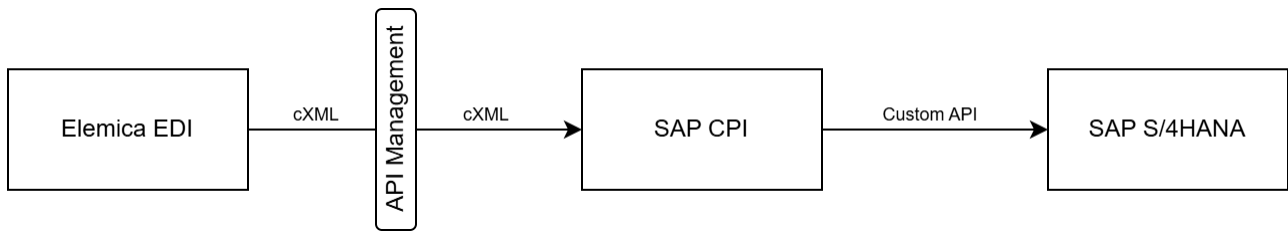
## Scope and Objectives

This System Interface, a custom implementation in SAP S/4HANA,

- consumes the OrderChange data from SAP CPI
- maps this data into a structure to compare with existing sales order in SAP S/4HANA
- transform some data OrderChange message from SAP CPI into the Sales Order structure in S/4HANA
- performs lookup of specified data (as applicable) in S/4HANA
- stage certain data from OrderChange message from SAP CPI into a S/4HANA custom table

The standard SAP Sales Order Change API is unable to support the above functions, hence the need for a custom API.

## Process Flow Diagram



Step	Description	Comment
1	Elemica sends OrderChange message to SAP CPI via API Management	<ol style="list-style-type: none"> <li>1. No system interface functional specification is required for Elemica as the approach is to keep as-is the process on the Elemica side for the SyWay project.</li> <li>2. API Management is for security/routing and do not change the message structure or format</li> </ol>
2	SAP CPI receives the OrderChange XML message from Elemica and maps to SAP Sales Order in S/4HANA. To identify the fields on the sales order the OrderChange message wants to make, SAP CPI calls the custom API	This is covered in Integration Process functional specification <a href="#">ERP-2325 OrderChange Message from Elemica - Integration Process</a>
3	The Sales Order to be changed in SAP S/4HANA is identified based on the custom API calling SAP S/4HANA. The API also collates the fields in the sales order that needs to be changed and sends this to both the Order Modification Fiori App and as a Fiori Launchpad notification to the CSR	Order Modification Fiori App to be built in <a href="#">ERP-2326 New Order Modification Fiori App</a>

## Assumptions

1. The custom Sales Order Change API will be called from SAP CPI and be able to lookup data from SAP S/4HANA to feed the target structure of the sales order
2. The source object and S/4HANA System target field mappings, including custom fields, will be updated based on mapping requirements in S/4HANA System.
3. The Custom API should be able to map all source and target mappings to successfully create a sales order
4. The custom API should be able to send Fiori launchpad notifications to CSR identified on the sales order

## Dependencies

1. All configurations in S/4HANA from where the custom API should look up values should already be implemented before the interface is deployed.
2. Connection between SAP CPI and S/4HANA already set up
3. Required master data in S/4HANA already loaded
4. Part of the staging table is updated based on outcome of user interface processing per [ERP-2326 New Order Modification Fiori App](#)

## Security, Integrity and Controls

- Required authorisations to execute the custom API need to be defined.
- Existing secure connectivity for communication between SAP S/4HANA and SAP CPI will be applied.

## Configuration Requirements

N/A

## Special Requirements

N/A

## Design Rationale

### API Use

Custom API based on API\_SALES\_ORDER\_SRV\_0001

## Data Structure

The following fields will be used to provide the required data structure of the interface:

Field mapping is mentioned on [ERP-2097](#).

A_SalesOrderHeader	1				
		DocumentIdentifier		N	String
		DocumentIdentifierDateTime		N	DateTime
		RequestingDocumentIdentifier		N	String
		RequestingDocumentDateTime		N	DateTime
		SenderPartnerName		Y	String
		SenderDUNS		Y	String
		SenderContactName		N	String
		SenderContactDescription		N	String
		SenderTelephoneNumberTelecomCountryCode		N	String
		SenderTelephoneNumberTelecomAreaCode		N	String
		SenderTelephoneNumberPhoneNumber		N	String
		SenderFaxNumberTelecomCountryCode		N	String
		SenderFaxNumberTelecomAreaCode		N	String
		SenderFaxNumberPhoneNumber		N	String
		SenderEmailAddress		N	String
		SenderAlternativeCommunicationMethod		N	String
		SenderAddressLine		N	String
		SenderCityName		N	String
		SenderStateProvince		N	String
		SenderPostalCode		N	String
		SenderPostalCountry		N	String
		SenderLocationCode		N	String
		SenderTaxIdentifierNumber		N	String
		SenderJurisdiction		N	String
		SenderTaxCertificateType		N	String

	SenderTaxCertificateNumber		N	string
	SenderTaxBasis		N	string
	SenderTaxRate		N	string
	SenderSenderURL		N	string
	ReceiverPartnerName		Y	string
	ReceiverDUNS		Y	String
	ReceiverContactName		N	String
	ReceiverContactDescription		N	String
	ReceiverTelephoneNumberTelecomCountryCode		N	String
	ReceiverTelephoneNumberTelecomAreaCode		N	String
	ReceiverTelephoneNumberPhoneNumber		N	String
	ReceiverFaxNumberTelecomCountryCode		N	String
	ReceiverFaxNumberTelecomAreaCode		N	String
	ReceiverFaxNumberPhoneNumber		N	String
	ReceiverEmailAddress		N	String
	ReceiverAlternativeCommunicationMethod		N	String
	ReceiverAddressLine		N	String
	ReceiverCityName		N	String
	ReceiverStateProvince		N	String
	ReceiverPostalCode		N	String
	ReceiverPostalCountry		N	String
	ReceiverLocationCode		N	String
	ReceiverTaxIdentifierNumber		N	String
	ReceiverJurisdiction		N	String
	ReceiverTaxCertificateType		N	String
	ReceiverTaxCertificateNumber		N	String
	ReceiverTaxBasis		N	String
	ReceiverTaxRate		N	String
	ReceiverSenderURL		N	String
	PurchaseOrderTypeCode		Y	String

	CustomerPurchaseOrder	Customer reference number that the customer uses to uniquely identify a purchasing document (for example, a sales inquiry or a purchase order)	Y	String
	CustomerPurchaseOrderDate		Y	DateTime
	TransactionCurrency	The currency that applies to the sales order	N	String
	ContractNumber	Customer reference number that the customer uses to uniquely identify a purchasing document (for example, a sales inquiry or a purchase order)	N	String
	LanguageCode		N	String
	RevisionNumber		N	String
	ReleaseNumber		N	String
	IncotermsClassification	Commonly used trading terms that comply with the standards established by the International Chamber of Commerce (ICC)	N	String
	IncotermsLocation1	Provides additional information for the primary Incoterm	N	String
	CustomerPaymentTerms		N	String
	DiscountPercentage		N	String
	DiscountAmount		N	String
	DiscountDaysDue		N	String
	DiscountsDueDate		N	DateTime
	DeferredAmount		N	String
	DeferedDueDate		N	DateTime
	PercentDeferredPayable		N	String
	Penalty		N	String
	ShipWithPurchaseOrder		N	String
	CountryOfFinalDestination		N	String
	MarketPlaceIdentifier		N	String
	MarketPlaceDocumentIdentifier		N	String
	MarketPlaceReferenceItem		N	String
	MarketPlaceSellerIdentifier		N	String
	InvoiceCommunicationMode		N	String
	BillingScheduleCode		N	String
	BuyerPartnerName	The customer who orders the goods or services. The sold-to party is contractually responsible for sales orders.	Y	String
	BuyerPartnerCode		Y	String
	BuyerContactName		N	String

	BuyerContactDescription		N	String
	SellerPartnerName		N	String
	SellerPartnerCode		Y	String
	SellerContactName		N	String
	SellerContactDescription		N	String
	ShiptoPartnerName		N	String
	ShipToPartnerCode		Y	String
	PayerPartnerName		N	String
	PayerPartnerCode		N	String
	BilltoPartnerName		N	String
	BillToPartnerCode		N	String
	ShipperPartnerName		N	String
	ShipperPartnerCode		N	String
	ShipFromPartnerName		N	String
	ShipFromPartnerCode		N	String
	CarrierPartnerName		N	String
	CarrierPartnerCode		N	String
	BuyerTelephoneNumberTelecomCountryCode		N	String
	BuyerTelephoneNumberTelecomAreaCode		N	String
	BuyerTelephoneNumberPhoneNumber		N	String
	BuyerFaxNumberTelecomCountryCode		N	String
	BuyerFaxNumberTelecomAreaCode		N	String
	BuyerFaxNumberPhoneNumber		N	String
	BuyerEmailAddress		N	String
	BuyerAlternativeCommunicationMethod		N	String
	BuyerAddressLine		N	String
	BuyerCityName		N	String
	BuyerStateProvince		N	String
	BuyerPostalCode		N	String
	BuyerPostalCountry		N	String

	BuyerLocationCode		N	String
	BuyerExternalReference		N	String
	BuyerTaxIdentifierNumber		N	String
	BuyerJurisdiction		N	String
	BuyerTaxCertificateType		N	String
	BuyerTaxCertificateNumber		N	String
	BuyerTaxBasis		N	String
	BuyerTaxRate		N	String
	BuyerSenderURL		N	String
	ShipToTelephoneNumberTelecomCountryCode		N	String
	ShipToTelephoneNumberTelecomAreaCode		N	String
	ShipToTelephoneNumberPhoneNumber		N	String
	ShipToFaxNumberTelecomCountryCode		N	String
	ShipToFaxNumberTelecomAreaCode		N	String
	ShipToFaxNumberPhoneNumber		N	String
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	ShipToJurisdiction		N	String
	ShipToTaxCertificateType		N	String
	ShipToTaxCertificateNumber		N	String
	ShipToTaxBasis		N	String
	ShipToTaxRate		N	String

	ShipToSenderURL		N	String
	PayerTelephoneNumberTelecomCountryCode		N	String
	PayerTelephoneNumberTelecomAreaCode		N	String
	PayerTelephoneNumberPhoneNumber		N	String
	PayerFaxNumberTelecomCountryCode		N	String
	PayerFaxNumberTelecomAreaCode		N	String
	PayerFaxNumberPhoneNumber		N	String
	PayerEmailAddress		N	String
	PayerAlternativeCommunicationMethod		N	String
	PayerAddressLine		N	String
	PayerCityName		N	String
	PayerStateProvince		N	String
	PayerPostalCode		N	String
	PayerPostalCountry		N	String
	PayerLocationCode		N	String
	PayerExternalReference		N	String
	PayerTaxIdentifierNumber		N	String
	PayerJurisdiction		N	String
	PayerToTaxCertificateType		N	String
	PayerTaxCertificateNumber		N	String
	PayerTaxBasis		N	String
	PayerTaxRate		N	String
	PayerSenderURL		N	String
	AccountHolderName		N	String
	AccountNumber		N	String
	FinancialInstitution		N	String
	FinancialInstitutionDFINumber		N	String
	CreditCardNumber		N	String
	CreditCardType		N	String
	CreditCardExpirationDate		N	DateTime

	BillToTelephoneNumberTelecomCountryCode		N	String
	BillToTelephoneNumberTelecomAreaCode		N	String
	BillToTelephoneNumberPhoneNumber		N	String
	BillToFaxNumberTelecomCountryCode		N	String
	BillToFaxNumberTelecomAreaCode		N	String
	BillToFaxNumberPhoneNumber		N	String
	BillToEmailAddress		N	String
	BillToAlternativeCommunicationMethod		N	String
	BillToAddressLine		N	String
	BillToCityName		N	String
	BillToStateProvince		N	String
	BillToPostalCode		N	String
	BillToPostalCountry		N	String
	BillToLocationCode		N	String
	BillToExternalReference		N	String
	BillToTaxIdentifierNumber		N	String
	BillToJurisdiction		N	String
	BillToTaxCertificateType		N	String
	BillToTaxCertificateNumber		N	String
	BillToTaxBasis		N	String
	BillToTaxRate		N	String
	BillToSenderURL		N	String
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	ShipFromTelephoneNumberTelecomAreaCode		N	String
	ShipFromTelephoneNumberPhoneNumber		N	String
	ShipFromFaxNumberTelecomCountryCode		N	String
	ShipFromFaxNumberTelecomAreaCode		N	String
	ShipFromFaxNumberPhoneNumber		N	String
	ShipFromEmailAddress		N	String
	ShipFromAlternativeCommunicationMethod		N	String

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	ShipFromCityName		N	String
	ShipFromStateProvince		N	String
	ShipFromPostalCode		N	String
	ShipFromPostalCountry		N	String
	ShipFromLocationCode		N	String
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	ShipFromJurisdiction		N	String
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	ShipFromTaxCertificateNumber		N	String
	ShipFromTaxBasis		N	String
	ShipFromTaxRate		N	String
	ShipFromSenderURL		N	String
	CarrierTelephoneNumberTelecomCountryCode		N	String
	CarrierTelephoneNumberTelecomAreaCode		N	String
	CarrierTelephoneNumberPhoneNumber		N	String
	CarrierFaxNumberTelecomCountryCode		N	String
	CarrierFaxNumberTelecomAreaCode		N	String
	CarrierFaxNumberPhoneNumber		N	String
	CarrierEmailAddress		N	String
	CarrierAlternativeCommunicationMethod		N	String
	CarrierAddressLine		N	String
	CarrierCityName		N	String
	CarrierStateProvince		N	String
	CarrierPostalCode		N	String
	CarrierPostalCountry		N	String
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	CarrierExternalReference		N	String
	CarrierTaxIdentifierNumber		N	String

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		CarrierTaxCertificateNumber		N	String
		CarrierTaxBasis		N	String
		CarrierTaxRate		N	String
		CarrierSenderURL		N	String
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		ShipperTelephoneNumberTelecomAreaCode		N	String
		ShipperTelephoneNumberPhoneNumber		N	String
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		ShipperFaxNumberTelecomAreaCode		N	String
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		ShipperTaxCertificateNumber		N	String
		ShipperTaxBasis		N	String
		ShipperTaxRate		N	String
		ShipperSenderURL		N	String
A_SalesOrderText	1 to many				
		CustomerRequiredInstructions		N	String

		ShipperInstructions		N	String
		ConsigneeInstructions		N	String
		CarrierInstructions		N	String
		ImportInstruction		N	String
		CustomerServiceInstructions		N	String
		RoutingInstruction		N	String
A_SalesOrderItem	1				
		LineItemNumber		N	String
		PurchaseOrderLineItemNumber		N	String
		LineItemHandlingInstruction		N	String
		MaterialByCustomer		Y	String
		MaterialByCustomerDescription		N	String
		ProductDescription		N	String
		ProductGradeDescription		N	String
		Material		M	String
		MaterialDescription		N	String
		ProductDescription		N	String
		ProductGradeDescription		N	String
		CustomerPurchaseOrderNumber		N	String
		ReferenceItem		N	String
		RequestedQuantity	The number or volume of materials specified for an item	N	String
		RequestedQuantityISOUnit		N	String
		PackagingQuantity		N	String
		PackagingQuantityISOUnit		N	String
		EngineeringChangeOrderIdentifier		N	String
		BatchNumber		N	String
		CountryOfOriginCode		N	String
		IncotermsClassification		N	String
		IncotermsLocation1		N	String
		TransportMethodCode		N	String
		LineItemPurposeCode		N	String

		BalanceItemFlag		N	String
		ActionRequest		N	String
		DeliveryTolerancesLowerLimit		N	String
		DeliveryTolerancesUpperLimit		N	String
		DeliveryTolerancesUnitofMeasure		N	String
		ItemShiptoPartnerName		N	String
		ItemShipToPartnerCode		Y	String
		ItemBilltoPartnerName		N	String
		ItemBillToPartnerCode		N	String
		ItemShipperPartnerName		N	String
		ItemShipperPartnerCode		N	String
		ItemShipFromPartnerName		N	String
		ItemShipFromPartnerCode		N	String
		ItemCarrierPartnerName		N	String
		ItemCarrierPartnerCode		N	String
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		ItemBillToTaxIdentifierNumber		N	String
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		ItemBillToTaxCertificateType		N	String
		ItemBillToTaxCertificateNumber		N	String
		ItemBillToTaxBasis		N	String
		ItemBillToTaxRate		N	String
		ItemBillToSenderURL		N	String
		ItemShipFromTelephoneNumberTelecomCountryCode		N	String

	ItemShipFromTelephoneNumber TelecomAreaCode		N	String
	ItemShipFromTelephoneNumber PhoneNumber		N	String
	ItemShipFromFaxNumberTeleco mCountryCode		N	String
	ItemShipFromFaxNumberTeleco mAreaCode		N	String
	ItemShipFromFaxNumberPhone Number		N	String
	ItemShipFromEmailAddress		N	String
	ItemShipFromAlternativeCommu nicationMethod		N	String
	ItemShipFromAddressLine		N	String
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	ItemShipFromJurisdiction		N	String
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	ItemShipFromTaxCertificateNum ber		N	String
	ItemShipFromTaxBasis		N	String
	ItemShipFromTaxRate		N	String
	ItemShipFromSenderURL		N	String
	ItemCarrierTelephoneNumberTel ecomCountryCode		N	String
	ItemCarrierTelephoneNumberTel ecomAreaCode		N	String
	ItemCarrierTelephoneNumberPh oneNumber		N	String
	ItemCarrierFaxNumberTelecomC ountryCode		N	String
	ItemCarrierFaxNumberTelecomA reaCode		N	String
	ItemCarrierFaxNumberPhoneNu mber		N	String
	ItemCarrierEmailAddress		N	String
	ItemCarrierAlternativeCommuni cationMethod		N	String
	ItemCarrierAddressLine		N	String

		ItemCarrierCityName		N	String
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		ItemCarrierPostalCode		N	String
		ItemCarrierPostalCountry		N	String
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		ItemShipperFaxNumberTelecomCountryCode		N	String
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		ItemShipperLocationCode		N	String
		ItemShipperExternalReference		N	String
		ItemShipperTaxIdentifierNumber		N	String
		ItemShipperJurisdiction		N	String

		ItemShipperTaxCertificateType		N	String
		ItemShipperTaxCertificateNumber		N	String
		ItemShipperTaxBasis		N	String
		ItemShipperTaxRate		N	String
		ItemShipperSenderURL		N	String
A_SalesOrderItemText	1 to many				
		CustomerRequiredInstructions		N	String
		ShipperInstructions		N	String
		ConsigneeInstructions		N	String
		CarrierInstructions		N	String
		ImportInstruction		N	String
		CustomerServiceInstructions		N	String
		RoutingInstruction		N	String
A_SalesOrderItemPrElement	1				
		PricePerUnit		N	String
		PriceCurrencyCode		N	String
		PriceBasis		N	String
		PriceBasisUnitofMeasure		N	String
A_SalesOrderScheduleLine	1				
		ScheduleDateRequestedDeliveryOn		N	DateTime
		ScheduleDateConfirmedPickUpOn		N	DateTime

## Calculation and Validation

N/A

## eDocument mapping

N/A

General					Syensqo XML (Intermediate Target)		SAP eDoc Standard Mapping (Source)		Custom Mapping (Source)	
S-NR	Flow (SD/FI/MM/ALL)	Target Field	Target Field Details	Condition	Syensqo XML Node	Syensqo XML Field	SAP eDoc Standard Node	SAP eDoc Standard Field	Fixed Value	Custom Logic


## Processing Logic

1. Receive OrderChange API
2. Look up the sales order number of the change using the Purchase Order number in OrderChange API (see **Sales Order Look Up Logic**)
  - a. If sales order is found, go to step 3
  - b. If sales order is not found, generate error message 'no sales order found for PO number' and update in AIF. Follow **Error Handling** procedure
3. For each line item (A\_salesOrderItem\_ PurchaseOrderLineItemNumber) on the OrderChange API, check if A\_SalesOrderItem\_ActionRequest = DELETED exists
  - a. If yes – find the corresponding line item(s) on the sales order from 2a, extract **Order Items View** data and update **Line Status** as 'DELETED'
  - b. If A\_SalesOrderItem\_ActionRequest = DELETED does not exist, go to step 4.
4. For each line item (A\_salesOrderItem\_ PurchaseOrderLineItemNumber) on the OrderChange XML, find the corresponding sales order line item and compare the data as per '**Fields for Comparison**' table. If there are differences between them, populate the '**Staging table**'

### Sales Order Look Up Logic using Purchase Order Number

Purchase Order Field in API structure	Logic to Fetch Sales Order
A_SalesOrderHeader_CustomerPurchaseOrder	Sales Order = VBAK-VBELN where  VBAK-BSTNK = A_SalesOrderHeader_CustomerPurchaseOrder

### Order Items View (To be used in [ERP-2326 New Order Modification Fiori App](#))

Line	Product Details	Quantity in PU	Due Date	Pricing	Line Status
VBAP- POSNR	Buyer: <VBAP- KDMAT>  Seller: <VBAP- MATNR>	VBAP-KWMENG " " VBAP- VRKME	<VBEP-EDATU>  where:  VBEP-VBELN = VBAK- VBELN VBEP-POSNR = VBAP- POSNR  VBEP-BMENG <> 0 or blank	NetPrice: VBAP-NETPR " " VBAP- KPEIN	See Line Status Logic

### Line Status Logic

1. Check delivery status of the sales order line item.
  - a. If VBAP-LFGSA=A (not yet processed), set Line status = Modif (can be done manually in SAP)
  - b. If VBAP-LFGSA = B or C, set Line status = Modif (delivery already done in SAP)
2. Check rejection if the sales order line item is rejected or not (VBAP-ABGRU = blank)
  - a. If the sales order line item is not rejected, VBAP-ABGRU = blank, Modif (can be done manually in SAP)
  - b. If the sales order line item is rejected, VBAP-ABGRU is not blank, Modif (item is rejected in SAP)

### How to find changes requested from the OrderChange XML from Elemica

Comparison is made between a subset of the OrderChange XML fields and their corresponding values in the Sales Order. For the fields where the activation flag is ticked, where there is a difference, these fields are collated into a staging table (a database table) and passed into the Order Modification Fiori App ([ERP-2326 New Order Modification Fiori App](#)) structured into both a Fiori Launchpad notification (see notification logic section) and to update the App with the specific data of the sales order that needs to be changed

### Fields for Comparison: OrderChange API vs Sales Order Line Item Fields

API Field	Sales Order Field	Activation Flag
A_SalesOrderItem_RequestedQuantity	VBAP-KWMENG	X
A_SalesOrderItem_RequestedQuantityISOUnit	VBAP-VRKME	X

A_SalesOrderItemPrElementPricePerUnit	VBAP-NETPR	X
A_SalesOrderItemPrElementPriceCurrencyCode	VBAP-KPEIN	X
A_SalesOrderScheduleLine_ScheduleDateRequestedDeliveryOn	VBEP-EDATU	X

### Staging table

This will be a database table, not user maintained but programmatically maintained with the sales order and the new values of the fields to be changed. This will be used by the [ERP-2326 New Order Modification Fiori App](#) to generate the sales orders where customer has requested changes and the new values

Content of this table older than 30 (tbc) days should be automatically deleted (program to do this to be defined by Technical team as part of general house keeping)

Sales Order Number (VBAK-VBELN)	Sales Order Line Item (VBAP-POSNR)	Modification Request Date (Date API XML is received)	Quantity (VBAP-KWMENG)	Unit of Measure (VBAP-VRKME)	Delivery Date (VBEP-EDATU)	Price (VBAP-NETPR)	Price Currency (VBAP-KPEIN)	Processed flag	Processed Date	Processing Status	Process Status Rejection Reason
1234	10	01.01.2027	2300			1220		x	02.01.2027	Modif: Processed	
1234	10	01.01.2027		KG				x	02.01.2027	Modif: Rejected	Delivery
4567	10	01.02.2027			01.03.2027			x	02.02.2027	Modif: Processed	

### Additional Notes related to Staging Table

1. For each Sales Order and Sales Order line items, values in columns Sales Order Number, Sales Order Line Item, Modification Request Date, Changed Field and New Value are used to update the Order Items contents in App Detailed View of the User Interface built in [ERP-2326 New Order Modification Fiori App](#)
2. For each Sales Order and Sales Order line items, values in columns the Processed flag, Processed Date, Processing Status and Processing Status Rejection Reason text are updated from [ERP-2326 New Order Modification Fiori App](#)

### Notification Logic

For every OrderChange message received, trigger a Fiori Launchpad notification to the CSR

#### Logic to find CSR for a sales order

Read VBPA-PERNR (get SAP user ID from this) where::

VBPA-VBELN = Sales order number

VBPA-PARVW = 'SE' for Sales Employee

#### Notification text:

Title: EDI Order Modification Notice

Subtext: A modification for Order <Sales Order> has been received

Clicking on the notification should take CSR into the details of the requested change (details in [ERP-2326 New Order Modification Fiori App](#))

Delta or Full Load Requirements

## Interface Alert & Monitoring

The Odata service will be monitored through AIF as part of the monitoring strategy for the project.

## Language Requirements

N/A

## User Interface Requirements

N/A

## Sequencing

N/A

## Volumetrics

Approximately 300 Order Change requests per month

## Performance Consideration

The design of the interface and related custom table(s) must be able to support the volume of messages received.

## Error Handling

Error handling for this interface to align with the error handling process for interfaces as defined for SyWay (exact approach / process yet to be defined and below are indicative only to be refined based on the defined approach)

### Integration errors:

All errors occurring during mapping rule execution and during posting to be added to the application log and AIF in a readable and user understandable format. These errors should trigger incident creation in SyRa (tbc)

### Data errors or errors in S4 during translation, logic execution etc:

These should trigger a Fiori launchpad notification to the CSR highlighting the error in an understandable format in addition to logging the error in AIF (to be defined exactly how users will access and reprocess these failed messages)

## Testing

### How to Test

### Test Conditions and Expected Results

ID	Condition	Expected Results
1	OrderChange XML received from SAP CPI	Custom API processes received OrderChange XML into the specified data structure
2	OrderChange XML from SAP CPI maps to Custom API structure	Custom API structure is mapped successfully from received OrderChange XML
3	Custom API executes defined logics and lookups in S/4HANA and returns a sales order	Defined logics and lookups in S/4HANA executed correctly and sales order is found and returned
4	OrderChange XML received for a sales order not yet created in SAP S/4HANA	Look up logic executed but no sales order is returned. Follow error handling procedure for sales order not found
5	OrderChange XML received having line with ActionRequest = DELETED	Order Item View generated with line status set as DELETED
6	Sales Order found from OrderChange message has line items that is not rejected	In Order Item View, Line Status is set as Modif (change can be updated in SAP)
7	Sales Order found from OrderChange message has line items that is rejected	In Order Item View, Line Status is set as Modif (item is rejected in SAP)
8	Sales Order found from OrderChange message has line items that is delivered	In Order Item View, Line Status is set as Modif (delivery already done in SAP)

9	Sales Order found from OrderChange message has line items that is not yet delivered	In Order Item View, Line Status is set as Modif (change can be updated in SAP)
10	OrderChange XML is received with data that is same as the existing sales order (i.e. no change)	Comparison results in no difference between the OrderChange message and existing sales order. No data is passed on to staging table

## Test Considerations/Dependencies

## Other Information

## Development Details

### Package

Package Name	Parent Package

### Other Development Objects

Object Type	Object Name	Purpose/High Level Logic	Design Rationale Reference

## Appendix

### See also

**File**   **Modified**

No files shared here yet.

## Change log

Version	Published	Changed By	Comment
<b>CURRENT (v. 27)</b>	<b>Apr 28, 2026 12:31</b>	<b>TORRES-ext, Benedict</b>	
<a href="#">v. 26</a>	Apr 28, 2026 12:12	<a href="#">TURAN-ext, Mert</a>	
<a href="#">v. 25</a>	Apr 28, 2026 07:30	<a href="#">ABOLAJI-ext, Luqman</a>	
<a href="#">v. 24</a>	Apr 22, 2026 16:27	<a href="#">ABOLAJI-ext, Luqman</a>	
<a href="#">v. 23</a>	Apr 21, 2026 16:02	<a href="#">ABOLAJI-ext, Luqman</a>	
<a href="#">v. 22</a>	Apr 21, 2026 15:08	<a href="#">ABOLAJI-ext, Luqman</a>	
<a href="#">v. 21</a>	Apr 09, 2026 12:03	<a href="#">ABOLAJI-ext, Luqman</a>	
<a href="#">v. 20</a>	Apr 09, 2026 11:52	<a href="#">WEINERT-ext, Patrick</a>	
<a href="#">v. 19</a>	Apr 07, 2026 20:21	<a href="#">ABOLAJI-ext, Luqman</a>	

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## Workflow history

This view shows the 5 most recent entries. The complete workflow log is available from the 'Document Activity' menu item.

May 05, 2026	Actor	Type	Activity	Version
Approved	 FARIA-ext, Joana	State	changed state to <b>Approved</b> at 2:36 pm	v27
Lead Approval	 FARIA-ext, Joana	State	gave <i>POD Lead Review</i> approval at 2:36 pm	
Apr 28, 2026				
	 TORRES-ext, Benedict	State	changed expiry date to '05 May, 2026 12:31 pm' at 12:31 pm	
		State	changed state to <b>Lead Approval</b> at 12:31 pm	v27
Tech Review	 TORRES-ext, Benedict	State	gave <i>Tech Review</i> approval at 12:31 pm	
From Apr 21, 2026 to Apr 28, 2026				
	ABOLAJI-ext, Luqman , TURAN-ext, Mert and TORRES-ext, Benedict	Edit	multiple updates from  ABOLAJI-ext, Luqman ,  TURAN-ext, Mert and  TORRES-ext, Benedict	