

SAP B1 Service Layer Customer Document

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2 DOCUMENT HISTORY

Version	Issue Date	Reference
1.00	22/07/2025	Initial Document

3 DOCUMENT OVERVIEW

This document details Cegedim standard SAP B1 Service Layer integration. It contains information around the connectivity, message types, SAP Fields, and prerequisites.

Cegedim e-business may also integrate with other message types that are not inclusive of this document. Please speak to your sales contact if you require further info if you would like to discuss other message types that Cegedim e-business may integrate with SAP.

3.1 SAP B1 OVERVIEW

SAP Business One is a comprehensive ERP solution designed to help small and medium-sized enterprises streamline and automate key business functions across finance, operations, and HR.

By integrating SAP Business One with the Netix platform from Cegedim, customers gain access to a leading web-based EDI service enabling seamless, automated exchange of order and invoice data with trading partners. This not only accelerates business processes but also significantly reduces manual data entry and the risk of costly errors, helping businesses operate more efficiently and accurately.

3.2 SAP B1 SERVICE LAYER

The SAP Business One Service Layer is a modern API interface designed to enable seamless integration with SAP B1. While it shares core technology with the older DI Service API, it introduces key improvements most notably, the Service Layer is built on OData standards, whereas the DI Service uses a SOAP-based approach.

This shift enables more efficient, scalable, and web-friendly integrations.

More information can be found in [this document](#). An API reference for the Service Layer can be found [here](#).

4 HOW NETIX INTEGRATES WITH SAP B1

Type = Direct (Not file based)

Netix uses OData Web Service to exchange documents With SAP Business One.

With the Service Layer integration, data payloads are streamlined and based on a modern JSON structure, making them more efficient and flexible compared to the older XML-based format. This approach improves visibility and transparency, allowing the full order object created in SAP to be viewed directly in the communication history. Additionally, the integration supports enhanced configurability, enabling in some circumstances tailored field inclusion without custom development, which simplifies maintenance and future scalability.

4.1 VERSIONS SUPPORTED

SAP Business One version 10.0 and above are supported, for anything earlier check with your Sales Representative.

OData v4 (with optional support for v3)

4.2 BENEFITS

The Service Layer integration offers a modern, streamlined approach that eliminates the need for local installations on customer infrastructure, significantly reducing complexity and support overhead. By avoiding legacy service dependencies, it removes common reliability issues and maintenance tasks. Additionally, the integration is optimised to reduce the number of service calls, improving performance and efficiency

5 SUPPORTED MESSAGE TYPES

The integration supports the following Netix message types. Unless otherwise specified these message types have the same object type within SAP as well:

- Order Import
- Order Response Export
- Delivery/ Shipping Note Export **
- Invoice Export
- Credit Note Export

** see limitations

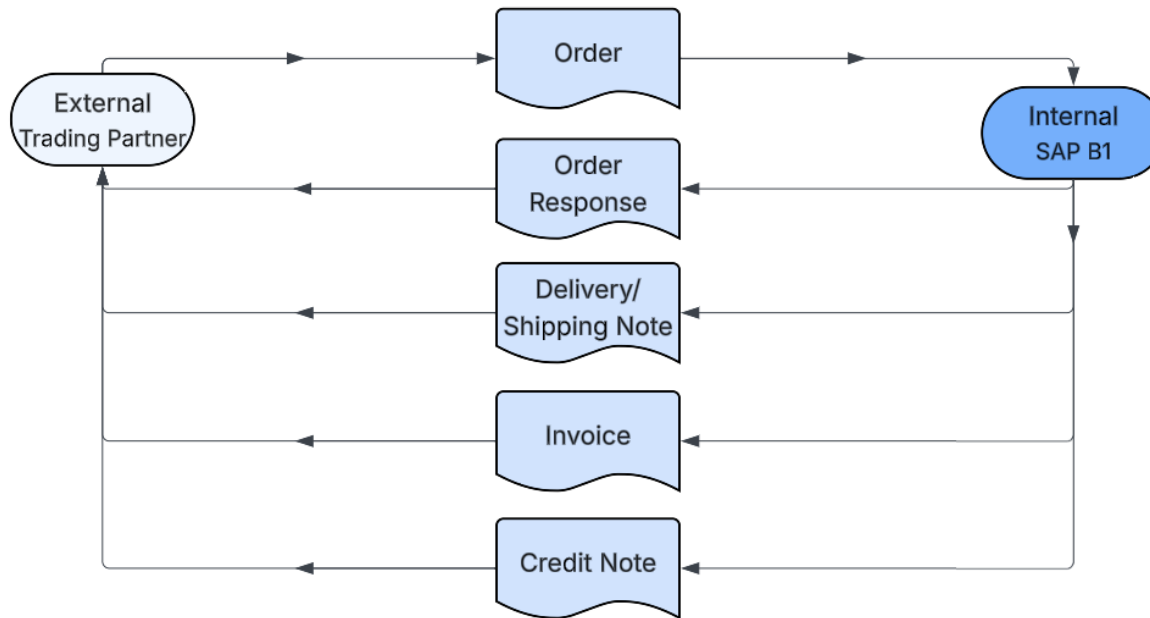
5.1 LIMITATIONS

While the delivery/shipping Note export does not currently support complex or palletised handling units (required by certain trading partners), there are flexible solutions available within the platform to meet these needs.

Netix users can:

- Leverage the NeASN application to convert orders into fully compliant delivery/shipping notes when required by the trading partner.
- Alternatively, generate a basic dispatch record (as a delivery/shipping note), hold it within Netix for review, and then update and release it via NeASN, giving users control over accuracy and compliance before final submission.
- Anything anything beyond this will require further scoping.

6 MESSAGE FLOW



7 PREREQUISITES

To enable a smooth integration between Netix and SAP Business One using the Service Layer, the following components must be in place:

- SAP Service Layer installed and operational
- Hostname or public IP address and port accessible for web service communication from Netix to SAP B1
- Firewall and NAT rule configuration to allow secure external access to the SAP web service
- SAP user account credentials, including:
 - Username
 - Password
 - Company (database) name

A full and detailed list of prerequisites will be provided prior to delivery to ensure a successful implementation.

8 FLEXIBLE INTEGRATION CONFIGURATION

The SAP Business One integration via Netix offers a range of configuration options to help tailor the solution to your business needs.

8.1 CLIENT CONFIG

Through client config this includes the ability to adjust certain field mappings and apply filters to inbound and outbound documents, supporting a more efficient and accurate exchange of key information. The areas that are configurable have been carefully selected to offer meaningful control without adding unnecessary complexity.

8.2 ENTITY SETTINGS

There are several configurable Entity settings available that control how sales order and outbound messages are handled. These settings help tailor the message flow to match your business needs:

8.2.1 INBOUND SETTINGS - SALES ORDER

- **Price Checks**
 - Automatically compare order prices between Netix and SAP.
 - Set a tolerance for acceptable price differences.
 - Send alerts when mismatches are found.
 - Choose whether to include price details in orders.
- **Address Handling**
 - Map specific address lines to shipping or billing fields.
 - Set how address details are structured in outgoing messages.
- **Delivery Location Codes**
 - Automatically fill in delivery location codes for Direct delivery orders.
 - Use fallback codes if GLN location identifiers are missing.
- **Shipping Charges**
 - Add shipping costs to the order as extra charges.
 - Specify a code for these charges if used.

8.2.2 OUTBOUND SETTINGS

- **Barcode Labelling**
 - Use a custom label name for product barcodes on outbound documents.

9 IMPORT MODULE

9.1 SALES ORDER IMPORT

9.1.1 FIELD MAPPING

SAP Target	Document Wrapper	Description	Condition
CardCode	Order.Header.Buyer.CodeAssignedBySeller	Maps CardCode to Buyer's CodeAssignedBySeller	
NumAtCard	Order.Header.BuyerOrderReference.Number	Maps NumAtCard to BuyerOrderReference Number	
ShipToCode	Order.Header.BuyerDeliveryLocation.CodeAssignedBySeller	Maps ShipToCode to BuyerDeliveryLocation CodeAssignedBySeller	If not a Direct Delivery Order
Street	Order.Header.BuyerDeliveryLocation.Address.AddressLine1	Maps Street to BuyerDeliveryLocation AddressLine1	If a Direct Delivery Order
AddressName2	Order.Header.BuyerDeliveryLocation.Address.AddressLine2	Maps AddressName2 to BuyerDeliveryLocation AddressLine2	If a Direct Delivery Order
AddressName3	Order.Header.BuyerDeliveryLocation.Address.AddressLine3	Maps AddressName3 to BuyerDeliveryLocation AddressLine3	If a Direct Delivery Order
City	Order.Header.BuyerDeliveryLocation.Address.PostalArea	Maps City to BuyerDeliveryLocation PostalArea	If a Direct Delivery Order
County	Order.Header.BuyerDeliveryLocation.Address.Province	Maps County to BuyerDeliveryLocation Province	If a Direct Delivery Order
ZipCode	Order.Header.BuyerDeliveryLocation.Address.PostCode	Maps ZipCode to BuyerDeliveryLocation PostCode	If a Direct Delivery Order
Country	Order.Header.BuyerDeliveryLocation.Address.Country	Maps Country to BuyerDeliveryLocation Country	If a Direct Delivery Order
GlobalLocationNumber	Order.Header.BuyerDeliveryLocation.Gln	Maps GlobalLocationNumber to BuyerDeliveryLocation Gln	If a Direct Delivery Order
ItemCode	Order.Detail.Product.SellerProductCode, Order.Detail.Product.BuyerProductCode, Order.Detail.Product.Dun, Order.Detail.Product.TradedUnitEan	Maps ItemCode, priority: 1. SellerProductCode, 2. BuyerProductCode, 3. Dun, 4. TradedUnitEan.	Netix resolves unknown SellerProductCode item codes using BuyerProductCode, followed by barcode, via GetBarcode method (returns an item code if the barcode is found in SAP)
ItemDescription	Order.Detail.Product.Description	Maps ItemDescription to Product Description	
Quantity	Order.Detail.OrderQuantity.Measure	Maps Quantity to OrderQuantity Measure	
Price	Order.Detail.Product.UnitPriceBeforeDiscount	Maps Price to Product UnitPriceBeforeDiscount	
UnitsOfMeasurment	Order.Detail.OrderQuantity.Measure	Maps UnitsOfMeasurment to OrderQuantity Measure	
ExLineNo	Order.Detail.OriginalLineNumber	Maps ExLineNo to OriginalLineNumber	

10 EXPORT MODULE

10.1 ORDER ACK/RESPONSE:

10.1.1 FIELD MAPPING

SAP Source	Document Wrapper	Description
GlobalLocationNumber	OrderResponse.Header.Buyer.Gln	Maps GlobalLocationNumber to Buyer's Gln
CardCode	OrderResponse.Header.Buyer.CodeAssignedBySeller	Maps CardCode to Buyer's CodeAssignedBySeller
DocNum	OrderResponse.Header.OrderResponseReference.Number	Maps DocNum to OrderResponseReference Number
DocDate	OrderResponse.Header.OrderResponseReference.Date	Maps DocDate to OrderResponseReference Date
NumAtCard	OrderResponse.Header.BuyerOrderReference.Number	Maps NumAtCard to BuyerOrderReference Number
ShipToCode	OrderResponse.Header.BuyerDeliveryLocation.CodeAssignedBySeller	Maps ShipToCode to BuyerDeliveryLocation CodeAssignedBySeller
Street	OrderResponse.Header.BuyerDeliveryLocation.Address.AddressLine1	Maps Street to BuyerDeliveryLocation AddressLine1
AddressName2	OrderResponse.Header.BuyerDeliveryLocation.Address.AddressLine2	Maps AddressName2 to BuyerDeliveryLocation AddressLine2
AddressName3	OrderResponse.Header.BuyerDeliveryLocation.Address.AddressLine3	Maps AddressName3 to BuyerDeliveryLocation AddressLine3
City	OrderResponse.Header.BuyerDeliveryLocation.Address.PostalArea	Maps City to BuyerDeliveryLocation PostalArea
County	OrderResponse.Header.BuyerDeliveryLocation.Address.Province	Maps County to BuyerDeliveryLocation Province
ZipCode	OrderResponse.Header.BuyerDeliveryLocation.Address.PostCode	Maps ZipCode to BuyerDeliveryLocation PostCode
Country	OrderResponse.Header.BuyerDeliveryLocation.Address.Country	Maps Country to BuyerDeliveryLocation Country
GlobalLocationNumber	OrderResponse.Header.BuyerDeliveryLocation.Gln	Maps GlobalLocationNumber to BuyerDeliveryLocation Gln
ItemCode	OrderResponse.Detail.Product.SellerProductCode	Maps ItemCode to Product SellerProductCode
ItemDescription	OrderResponse.Detail.Product.Description	Maps ItemDescription to Product Description
Quantity	OrderResponse.Detail.OrderQuantity.Measure	Maps Quantity to OrderQuantity Measure
PackageQuantity	OrderResponse.Detail.AcknowledgedQuantity.Measure	Maps PackageQuantity to AcknowledgedQuantity Measure
Price	OrderResponse.Detail.Product.UnitPriceBeforeDiscount	Maps Price to Product UnitPriceBeforeDiscount

10.2 DELIVERY/SHIPPING NOTE

10.2.1 FIELD MAPPING

SAP Source	Document Wrapper	Description
GlobalLocationNumber	DeliveryNote.Header.Buyer.Gln	Maps GlobalLocationNumber to Buyer's Gln
CardCode	DeliveryNote.Header.Buyer.CodeAssignedBySeller	Maps CardCode to Buyer's CodeAssignedBySeller
DocNum	DeliveryNote.Header.DeliveryNoteReference.Number	Maps DocNum to DeliveryNoteReference Number
DocDate	DeliveryNote.Header.DeliveryNoteReference.Date	Maps DocDate to DeliveryNoteReference Date
NumAtCard	DeliveryNote.Header.BuyerOrderReference.Number	Maps NumAtCard to BuyerOrderReference Number
ShipToCode	DeliveryNote.Header.BuyerDeliveryLocation.CodeAssignedBySeller	Maps ShipToCode to BuyerDeliveryLocation CodeAssignedBySeller
null	DeliveryNote.Header.DeliveryInstructions.EarliestDate	No direct mapping from SAP source, uses DeliveryNoteReference Date as default
Street	DeliveryNote.Header.BuyerDeliveryLocation.Address.AddressLine1	Maps Street to BuyerDeliveryLocation AddressLine1
AddressName2	DeliveryNote.Header.BuyerDeliveryLocation.Address.AddressLine2	Maps AddressName2 to BuyerDeliveryLocation AddressLine2
AddressName3	DeliveryNote.Header.BuyerDeliveryLocation.Address.AddressLine3	Maps AddressName3 to BuyerDeliveryLocation AddressLine3
City	DeliveryNote.Header.BuyerDeliveryLocation.Address.PostalArea	Maps City to BuyerDeliveryLocation PostalArea
County	DeliveryNote.Header.BuyerDeliveryLocation.Address.Province	Maps County to BuyerDeliveryLocation Province
ZipCode	DeliveryNote.Header.BuyerDeliveryLocation.Address.PostCode	Maps ZipCode to BuyerDeliveryLocation PostCode
Country	DeliveryNote.Header.BuyerDeliveryLocation.Address.Country	Maps Country to BuyerDeliveryLocation Country
GlobalLocationNumber	DeliveryNote.Header.BuyerDeliveryLocation.Gln	Maps GlobalLocationNumber to BuyerDeliveryLocation Gln
ItemCode	DeliveryNote.Detail.Product.SellerProductCode	Maps ItemCode to Product SellerProductCode
ItemDescription	DeliveryNote.Detail.Product.Description	Maps ItemDescription to Product Description
Quantity	DeliveryNote.Detail.DeliveryQuantity.Measure	Maps Quantity to DeliveryQuantity Measure
BaseOpenQuantity	DeliveryNote.Detail.OrderQuantity.Measure	Maps BaseOpenQuantity to OrderQuantity Measure
Price	DeliveryNote.Detail.Product.UnitPriceBeforeDiscount	Maps Price to Product UnitPriceBeforeDiscount

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10.3 INVOICE:

10.3.1 FIELD MAPPING

SAP Source	Document Wrapper	Description
GlobalLocationNumber	Invoice.Header.Buyer.Gln	Maps GlobalLocationNumber to Buyer's Gln
CardCode	Invoice.Header.Buyer.CodeAssignedBySeller	Maps CardCode to Buyer's CodeAssignedBySeller
DocNum	Invoice.Header.InvoiceReference.Number	Maps DocNum to InvoiceReference Number
DocDate	Invoice.Header.InvoiceReference.Date	Maps DocDate to InvoiceReference Date
NumAtCard	Invoice.Header.BuyerOrderReference.Number	Maps NumAtCard to BuyerOrderReference Number
ShipToCode	Invoice.Header.BuyerDeliveryLocation.CodeAssignedBySeller	Maps ShipToCode to BuyerDeliveryLocation CodeAssignedBySeller
Street	Invoice.Header.BuyerDeliveryLocation.Address.AddressLine1	Maps Street to BuyerDeliveryLocation AddressLine1
AddressName2	Invoice.Header.BuyerDeliveryLocation.Address.AddressLine2	Maps AddressName2 to BuyerDeliveryLocation AddressLine2
AddressName3	Invoice.Header.BuyerDeliveryLocation.Address.AddressLine3	Maps AddressName3 to BuyerDeliveryLocation AddressLine3
City	Invoice.Header.BuyerDeliveryLocation.Address.PostalArea	Maps City to BuyerDeliveryLocation PostalArea
County	Invoice.Header.BuyerDeliveryLocation.Address.Province	Maps County to BuyerDeliveryLocation Province
ZipCode	Invoice.Header.BuyerDeliveryLocation.Address.PostCode	Maps ZipCode to BuyerDeliveryLocation PostCode
Country	Invoice.Header.BuyerDeliveryLocation.Address.Country	Maps Country to BuyerDeliveryLocation Country
GlobalLocationNumber	Invoice.Header.BuyerDeliveryLocation.Gln	Maps GlobalLocationNumber to BuyerDeliveryLocation Gln
VatSum	Invoice.Totals.Taxable.TaxAmount	Maps VatSum to Taxable TaxAmount
DocTotal	Invoice.Totals.Payable.BeforeSettlement	Maps DocTotal to Payable BeforeSettlement
ItemCode	Invoice.Detail.Product.SellerProductCode	Maps ItemCode to Product SellerProductCode
ItemDescription	Invoice.Detail.Product.Description	Maps ItemDescription to Product Description
Quantity	Invoice.Detail.InvoiceQuantity.Measure	Maps Quantity to InvoiceQuantity Measure
Price	Invoice.Detail.Product.UnitPriceBeforeDiscount	Maps Price to Product UnitPriceBeforeDiscount
TaxGroup	Invoice.Detail.TaxInformation.InternalTaxCode	Maps TaxGroup to TaxInformation InternalTaxCode
TaxPercentagePerRow	Invoice.Detail.TaxInformation.Percentage	Maps TaxPercentagePerRow to TaxInformation Percentage

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10.4 CREDIT NOTE

10.4.1 FIELD MAPPING

SAP Source	Document Wrapper	Description
GlobalLocationNumber	CreditNote.Header.Buyer.Gln	Maps GlobalLocationNumber to Buyer's Gln
CardCode	CreditNote.Header.Buyer.CodeAssignedBySeller	Maps CardCode to Buyer's CodeAssignedBySeller
DocNum	CreditNote.Header.CreditNoteReference.Number	Maps DocNum to CreditNoteReference Number
DocDate	CreditNote.Header.CreditNoteReference.Date	Maps DocDate to CreditNoteReference Date
NumAtCard	CreditNote.Header.BuyerOrderReference.Number	Maps NumAtCard to BuyerOrderReference Number
ShipToCode	CreditNote.Header.BuyerDeliveryLocation.CodeAssignedBySeller	Maps ShipToCode to BuyerDeliveryLocation CodeAssignedBySeller
Street	CreditNote.Header.BuyerDeliveryLocation.Address.AddressLine1	Maps Street to BuyerDeliveryLocation AddressLine1
AddressName2	CreditNote.Header.BuyerDeliveryLocation.Address.AddressLine2	Maps AddressName2 to BuyerDeliveryLocation AddressLine2
AddressName3	CreditNote.Header.BuyerDeliveryLocation.Address.AddressLine3	Maps AddressName3 to BuyerDeliveryLocation AddressLine3
City	CreditNote.Header.BuyerDeliveryLocation.Address.PostalArea	Maps City to BuyerDeliveryLocation PostalArea
County	CreditNote.Header.BuyerDeliveryLocation.Address.Province	Maps County to BuyerDeliveryLocation Province
ZipCode	CreditNote.Header.BuyerDeliveryLocation.Address.PostCode	Maps ZipCode to BuyerDeliveryLocation PostCode
Country	CreditNote.Header.BuyerDeliveryLocation.Address.Country	Maps Country to BuyerDeliveryLocation Country
GlobalLocationNumber	CreditNote.Header.BuyerDeliveryLocation.Gln	Maps GlobalLocationNumber to BuyerDeliveryLocation Gln
VatSum	CreditNote.Totals.Taxable.TaxAmount	Maps VatSum to Taxable TaxAmount
DocTotal	CreditNote.Totals.Payable.BeforeSettlement	Maps DocTotal to Payable BeforeSettlement
ItemCode	CreditNote.Detail.Product.SellerProductCode	Maps ItemCode to Product SellerProductCode
ItemDescription	CreditNote.Detail.Product.Description	Maps ItemDescription to Product Description
Quantity	CreditNote.Detail.CreditNoteQuantity.Measure	Maps Quantity to CreditNoteQuantity Measure
Price	CreditNote.Detail.Product.UnitPriceBeforeDiscount	Maps Price to Product UnitPriceBeforeDiscount
TaxGroup	CreditNote.Detail.TaxInformation.InternalTaxCode	Maps TaxGroup to TaxInformation InternalTaxCode
TaxPercentagePerRow	CreditNote.Detail.TaxInformation.Percentage	Maps TaxPercentagePerRow to TaxInformation Percentage

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