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Advanced Intercompany

Advanced Intercompany (IIC) allows users from different Business Central companies to exchange purchase and sales documents in real-time, ensuring instant feedback and control at the same time. The application has been designed for groups of companies as an extension of the intercompany functionality in Business Central.

Advanced Intercompany (IIC) enables you to:

- use web services to send and receive data;
- exchange a purchase or sales document (including, posted shipments and invoices);
- track your document by reviewing up-to-date document log entries;
- verify all the changes made by your intercompany partner, prior to accepting.
- track the value and quantity of your stock in-transit.
- ship goods directly to your final customer.

> **ⓘ NOTE**
>
> Advanced Intercompany (IIC) for Microsoft Dynamics 365 Business Central® is an application available in both license models - cloud (online, SaaS) and on-premises (perpetual license and subscription).

Business Processes

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- Product Lifecycle Policy

Business Central - Base Application

Advanced Intercompany has been designed based on the technology and functionality of Microsoft Dynamics 365 Business Central. Business Central, as one of the leading ERP systems, supports the management of small and medium-sized companies worldwide, enabling them to automate and streamline their business processes in many business areas.

Get Started with Advanced Intercompany

To get started with Dynamics 365 Business Central and Advanced Intercompany, contact IT.integro at appsales@it.integro.pl.

See Also

Advanced Intercompany on the Microsoft AppSource marketplace

Advanced Intercompany - part of Global Integration Apps from IT.integro

Managing Intercompany Transactions in Business Central Base App

Contact IT.integro at appsales@it.integro.pl

New and Planned

Advanced Intercompany is developed according to a set schedule that represents technological changes, latest legal requirements and the requirement submitted by IT.integro customers and partners. The following table contains links to the articles that describe the application development roadmap and versions released according to the roadmap.

TO	SEE
Get insight into Advanced Intercompany roadmap and learn the rules for planning development works	Application Roadmap
Learn what is new in the application versions that were released	Releases

See Also

Product Lifecycle Policy

The roadmap for the standard Business Central application has been described in New and Planned

Contact IT.integro at appsales@it.integro.pl

Advanced Intercompany Roadmap

This article presents the development plans for the Advanced Intercompany application.

The list below includes:

- functionalities made available within Advanced Intercompany, starting from the first release of the application (version 1.1.0).

- functionalities, the provision of which has been or will be planned for subsequent releases as part of the product roadmap.

In the case of planned functionalities, the dates declared may be changed; it is also possible that development tasks and functionality release may be cancelled.

> ☞ **IMPORTANT**
>
> Deadlines for the completion of tasks that have been specified in the table are subject to change depending on the current priorities. Primarily, the priorities for development tasks related to individual functionalities depend on:
>
> - technological changes and changes in the base application introduced by Microsoft, which have an impact on ensuring the compatibility of Advanced Intercompany,
> - demand reported by project teams and IT.integro partners,
> - importance for the operation of the application in the context of related functionalities.

> ☞ **IMPORTANT**
>
> The rules for maintaining the compatibility of Advanced Intercompany with Dynamics 365 Business Central have been described in Product Lifecycle Policy.

Completed and Planned Development Tasks

The table in this section shows the development plans and roadmap for Advanced Intercompany.

The functionalities included in the application roadmaps are developed:

- due to legal requirements,

- as improvements in the functionality of the application,

- as application performance improvements resulting from technological changes.

The table also specifies the status of development tasks for individual functionalities:

- the ☐☐ symbol means that development of a given functionality has been completed and the functionality has been made available as part of the published version, the number of which is specified in the **Availability from version** column ;

- the **In progress** status means that the development team is working on a given functionality to be released, and the release date has been specified in the **Planned Date** column in a respective row;

- the **To be planned** status means that development has not started yet and no release date has been scheduled. The release date will be determined depending on the priorities set.

FUNCTIONALITY	IMPLEMENTATION STATUS	PLANNED RELEASE DATE	AVAILABLE FROM VERSION
Support for standalone credit Memos	🔲🔲	February 2023	2.6.0
Support for Return Order documents	🔲🔲	April 2023	3.0.0
Improvements to the auto processing. Sending outbound messages instantly using the IIC Send action	🔲🔲	September 2023	3.2.0
Possibility to approve and validate multiple messages in the buffer	🔲🔲	October 2023	3.3.2
Filtering documents to be sent to another IIC endpoint	🔲🔲	October 2023	3.3.2
SOAP will be deprecated. Changing the way of publishing web services to OData	🔲🔲	December 2023	3.5.0
User experience. Improvements in the usability and the easier navigation over the application.	🔲🔲	December 2023	3.5.0
E-mail notifications for buffer validation errors	-	Q2 2024	-
Track Differences (Information, Warning, Error) taking into account quantity and price tolerances during the buffer validation	-	Q3 2024	-
Drop shipment: Selecting the fields to be synchronized between an end customer sales order and intercompany purchase order	-	Q3 2024	-
Pre-Invoice: Handling reservation update when creating a transfer order	-	Q3 2024	-
Integration with the Intercompany Journals functionality in the standard Business Central application to prevent duplicate endpoint settings	-	Q4 2024	-
Breaking Change: Changes in the Document Log Entries data structure to improve the performance. Code refactoring related to message processing.	-	Q1 2025	-

See Also

Advanced Intercompany on Microsoft AppSource

Policies for Product Documentation and Related Online Documents

Contact IT.integro at appsales@it.integro.pl

Technical Support for the App - Contact IT.integro or your Business Central partner

Releases

This article lists the released versions of Advanced Intercompany for Microsoft Dynamics 365 Business Central.

> **👉 IMPORTANT**
>
> Release Notes for the previous versions have been published in the IT.integro Product Portal that is available for IT.integro partners.

Versions

- 3.6.6
- 3.6.5
- 3.6.4
- 3.6.3
- 3.6.0
- 3.5.0
- 3.4.1
- 3.4.0
- 3.3.3
- 3.3.2
- 3.2.0
- 3.1.4
- 3.1.3
- 3.1.2
- 3.1.1
- 3.1.0
- 3.0.4
- 3.0.3
- 3.0.2
- 3.0.1
- 3.0.0
- 2.8.0
- 2.7.0
- 2.6.0
- 2.5.3
- 2.5.2
- 2.5.1
- 2.5.0
- 2.4.3
- 2.4.2
- 2.4.1
- 2.3.0
- 2.2.5
- 2.2.4
- 2.2.3
- 2.2.2
- 2.2.1
- 2.2.0
- 2.1.0
- 2.0.0
- 1.9.1

- 1.9.0
- 1.8.0
- 1.7.2
- 1.7.1
- 1.7.0
- 1.6.1
- 1.6.0
- 1.5.1
- 1.5.0
- 1.4.0
- 1.3.3
- 1.3.2
- 1.3.1
- 1.3.0
- 1.2.4
- 1.2.3
- 1.2.2
- 1.2.0
- 1.1.1
- 1.1.0
- 1.0.0.12
- 1.0.0.11
- 1.0.0.10
- 1.0.0.6
- 1.0.0.5

See Also

Installation and Registration

Technical Support for the App - Contact IT.integro or your Business Central partner

Advanced Intercompany on the Microsoft AppSource marketplace

Business Functionality

Advanced Intercompany provides additional functionalities on the top of the standard Business Central intercompany module. The application provides the ability to exchange purchase and sales documents between different companies within the Business Central. This article describes different processes which can be handled with Advanced Intercompany and provides the guidelines on how to configure them.

TO	SEE
Learn about basic processes that can be handled with the application	Intercompany Trade
Find out about return processes available in the application	Intercompany Returns
Read about intercompany services that can be handled with the application	Intercompany Services
Learn about different messages that are used in the application	Intercompany Messages
Configure the application and understand settings	Setup and Configuration
Learn how to quickly set up the application and go through the basic intercompany process	Basic Process Walkthrough

☞ **IMPORTANT**

For more information about Advanced Intercompany, see Application Roadmap.

See Also

Advanced Intercompany documentation

Installation and Registration

Contact IT.integro at appsales@it.integro.pl

Advanced Intercompany on Microsoft AppSource

Application Roadmap

Intercompany Trade

Advanced Intercompany supports a variety of business processes. This article describes the basic capabilities of the application and shows how Advanced Intercompany can improve intercompany trade processes in multi-site company.

TO	SEE
Find out how to go through the basic Advanced Intercompany process	Basic Process
Learn how to process the intercompany drop shipment to the final customer	Drop Shipment
Learn how to track your stock value and quantity when the items have already been shipped from your IC partner	Pre-Invoicing
Find out how to create an intercompany invoice for multiple shipments	Combined Invoice

Basic Process

This article presents the most common intercompany process when the BUYER company creates a purchase order and sends it using Advanced Intercompany to a SELLER company which is the IC vendor. In the SELLER company, the sales order is created. Then, both sides can start negotiating the order conditions like price, terms, and delivery dates. After the documents are confirmed by both sides, the IC vendor can issue the shipment and sales invoice. Both documents can also be sent to the BUYER company, which results in updating the shipment information or automatic posting of the purchase order.

Processing Intercompany Orders

The process includes the following steps:

1. [BUYER] Choose the 🔎 icon, enter **Purchase Orders**, and then select a related link.
2. [BUYER] Create a new purchase order.
   - In the **Vendor** field, enter the name of the intercompany vendor (such a vendor has the **IIC Endpoint No.** field filled in). After this step, the **IIC Document** field should be automatically marked on the purchase order.
   - Fill in the remaining fields on the **Purchase Invoice** page as necessary.
   - On the **Lines** FastTab, enter the necessary fields at least: **Type**, **No.**, **Quantity** and **Direct Unit Cost**.

3. [BUYER] Release the purchase order by using the **Release** action.
4. [BUYER] Send the purchase order by using the **IIC Send** action. After using this action, the **IIC Status Code** field should be changed to **OUTBOUND**.

> **ⓘ NOTE**
>
> The action can be automatically executed, if the **IIC Send On Document Release** field is marked in the **IIC Setup**.

5. [BUYER] Use the **IIC Send Outbound Messages** report to send the message to the IC partner. The value in the **IIC Status Code** field on the purchase order will be changed to **SENT**.

> **☞ IMPORTANT**
>
> This step can be automated by setting up report 20020697 in the job queue. The **Job Queue Entry** card page can be created by using a dedicated function on the **IIC Setup** page.

6. [SELLER] Switch the company to the SELLER company. Choose the 🔎 icon, enter **IIC Sales Buffer Documents**, and then select a related link.
7. [SELLER] Open the **IIC Sales Buffer Document** page for the latest entry.
   - Use the **Validate** action to verify that there are no errors for further processing.
   - Use the **Accept** action to accept the incoming message and create a sales order.

> **ⓘ NOTE**
>
> Both actions can be automated by using job queues and setting up the **Auto Process New Sales Order** field to the **Accept** value on the **Auto Process** FastTab on the **IIC Setup** page.

8. [SELLER] Confirm that the buffer message is to be processed and open the sales order document card. As the result, the application has created a sales order document with the **IIC Status Code** field set to **NEW**.
9. [SELLER] Adjust the sales order document, if needed and use the **Release** action to release the document.
10. [SELLER] Send the sales order by using **IIC Send** function. After using this action, the **IIC Status Code** field value should be changed to **OUTBOUND**.
11. [SELLER] Use the **IIC Send Outbound Messages** report to send the message to the IC partner. The **IIC Status Code** field on the sales order will be changed to **SENT**.

12. [BUYER] Switch the company to the BUYER company. Choose the 🔎 icon, enter **IIC Purchase Buffer Documents**, and then select a related link. Alternatively, you can access the **IIC Purchase Buffer** page by choosing the **IIC Buffer Document Exists** FlowField on the purchase order.
13. [BUYER] Open the **IIC Purchase Buffer Document** page for the entry related to the purchase order.
    - Use the **Validate** action to verify that there are no errors for the further processing.
    - Use the **Accept** action to accept the incoming message and process the purchase confirmation.
14. [BUYER] As the result the **IIC Status Code** field value in the purchase order will be changed to **CONFIRMED**.
15. [BUYER] Use the **IIC Send Outbound Messages** report to send the message to the IC partner. As the result, the documents on both sides will be confirmed.
16. [SELLER] Switch the company to the SELLER company. Post the sales order - both the shipment and the invoice.
17. [SELLER] Search for the sales shipment and posted sales invoice and use the dedicated action: **IIC Send.**
18. [SELLER] Use the **IIC Send Outbound Messages** report to send messages to the IC partner. The **IIC Status Code** field on the sales shipment and posted sales invoice will be changed to **SENT**.

> **ℹ NOTE**
>
> Sending the sales shipment and posted sales invoice can be automated, if the dedicated job queue is configured and fields: **Auto Send Posted S. Shipment** and **Auto Send Posted S. Invoice** are selected on the **Auto Send** FastTab on the **IIC Setup** page.

19. [BUYER] Switch the company to the BUYER company. Open the **IIC Purchase Buffer Documents** page to see new entries related to the purchase order. Validate and accept the shipment notification message. As the result, the **IIC Shipment Status** and **IIC Shipped Qty. (Base)** fields will be updated on the purchase order line.
20. [BUYER] Open the purchase order and post a purchase receipt.
21. [BUYER] Open the IIC purchase buffer documents. Validate and accept the invoice confirmation message. As the result, the purchase invoice will be posted and the purchase order will be deleted.

> **👉 IMPORTANT**
>
> Each process can be automated by using job queues and defining proper settings in the IIC setup. In the end, the whole flow can be fully automated and users do not need to send messages or validate buffer documents manually.

The following table presents how the IIC status changes during the process in both companies:

Understanding the Status Flow

STEP	PURCHASE ORDER STATUS IN BUYER	SALES ORDER STATUS IN SELLER
Purchase order is created		
Purchase order is released and sent	OUTBOUND	
IC message is sent from the queue	SENT	
Document is validated in the sales buffer		
Sales order is created	ACCEPTED	NEW
Sales order is released and sent		OUTBOUND/SENT
Document is validated in the purchase buffer		

STEP	PURCHASE ORDER STATUS IN BUYER	SALES ORDER STATUS IN SELLER
Document is accepted in the buffer	CONFIRMED	CONFIRMED
Sales order is posted.	CLOSED	CLOSED

Drop Shipment

Advanced Intercompany supports the direct delivery from the vendor to the final customer which is the process called drop shipment. In such a scenario in the BUYER company, a sales order for the final customer is created and a purchase order is sent to the IC partner. The purchase order is sent to the IC partner and sales order is created on the SELLER side. The exchange of the documents between the BUYER and SELLER company does not differ from the regular process. For more information, read Purchase Order to Sales Order. However, a few enhancements for the drop shipment functionality have been introduced.

Setting up a Purchasing Code

To configure the purchasing code which can be used by Advanced Intercompany:

1. Choose the 🔍 icon, enter **Purchasing Code**, and then select a related link.
2. On the **Purchasing Codes** page, select the **IIC Drop Shipment** field.

> **ⓘ NOTE**
>
> The **IIC Drop Shipment** field can only be marked when the standard **Drop Shipment** field is selected.

Automatic Receipt Posting

To turn on automatic purchase receipt posting when accepting the shipment notification:

1. Choose the 🔍 icon, enter **IIC Setup**, and then select a related link.
2. On the **IIC Setup** page, select the **Auto Post Drop Shipment Receipts** field on the **Drop Shipment** FastTab.

> **ⓘ NOTE**
>
> Posting a purchase receipt will result in posting the sales shipment on the related sales order for the final customer.

Automatic Sales Invoice Posting

To turn on automatic sales invoice posting when accepting a purchase buffer document:

1. Choose the 🔍 icon, enter **IIC Setup**, and then select a related link.
2. On the **IIC Setup** page, in the **Auto Post Drop Shipment Invoices** field select whether sales invoice to the end customer should be automatically posted after accepting a purchase buffer of the 'Shipment Notification' or 'Invoice' type.

Making IIC Purchase Order from the Sales Order

To create an intercompany purchase order from the sales order for the final customer:

1. Prepare a sales order document like a document for the standard drop shipment process.

2. Fill in the **Purchasing Code** field in the sales lines with the code used for the IIC drop shipment.

3. On the **Shipping and Billing** FastTab, fill in the **Drop Ship. Vendor No.** field with the intercompany vendor.

> **ⓘ NOTE**

> The number on the **Shipping and Billing** FastTab in the **Drop Ship. Vendor No.** will be filled in automatically, if the **Drop Ship. Vendor No.** field is filled on the **Customer Card** page.

4. Release the sales order.

5. Use the **Create Drop Shipment Purch. Order** action to create a linked purchase order document.

> **ⓘ NOTE**
>
> Alternatively, the purchase order document can be created by using the requisition worksheet.

Making multiple IIC Purchase Orders from the Sales Order

To create multiple intercompany purchase orders for different vendors from the sales order for the final customer:

1. Prepare a sales order document like a document for the standard drop shipment process.
2. Fill in the **Purchasing Code** field in the purchase lines with the code used for the IIC drop shipment.
3. Fill in the **IIC Drop Ship. Vendor No.** field in each sales line with the intercompany vendor for which a purchase order will be created.
4. Release the sales order.
5. Use the **Create Drop Shipment Purch. Order** action to create a linked purchase order document.

Making IIC Purchase Order linked to multiple Sales Orders

To create an intercompany purchase order that is linked to multiple end customer sales orders:

1. Prepare a sales order document like a document for the standard drop shipment process.
2. Fill in the **Purchasing Code** field in the purchase lines with the code used for the IIC drop shipment.
3. Fill in the **IIC Drop Ship. Vendor No.** field in each sales line with the intercompany vendor for which a purchase order will be created.
4. Release the sales order.
5. Create an IIC purchase order for the IIC vendor.
6. Use the **Get Sales Order Lines** action.

Pre-invoicing

In the intercompany trade, where goods are shipped to the intercompany partner, the stock in transit temporarily (for the transportation time) disappears from the books and stock levels of both companies. From the group's perspective, the information about the current stock value or real stock levels is not accurate.

Pre-invoice enables posting of a purchase order for goods in transit before items arrive at a company. Items are received at a virtual pre-invoice location and a transfer order between the pre-invoice and the final destination location is created.

Pre-invoice Setup

To enable the pre-invoice functionality in Advanced Intercompany:

1. Create a new location card and inventory posting setup for the virtual location used for the pre-invoice process.

2. On the **IIC Setup** page, on the **Pre-Invoice** FastTab:

    - Select the **Pre-Invoice Enabled** field.
    - Fill in the **Pre-Invoice Location Code** field with the code representing the created virtual location.
    - Select the **Auto Post Transfer Shipment** field, if you want the transfer shipment to be posted automatically when creating a transfer order from the purchase order.
    - Select the **Skip Confirmation on Warehouse Receipt Deletion** field, if you want the connected warehouse receipts to be deleted without a confirmation dialog pop-up.
    - Select the **Combined Pre-Invoice** field, if you want to allow the creation of a combined transfer order.

3. On the **Transfer Route** page define the **Transfer Route** from the pre-invoice location to the target location.

> **ℹ TIP**
>
> If you want the IIC purchase buffer documents of the Invoice type to be automatically processed as a pre-invoice from the IIC vendor:
>
> 1. Open the **Vendor Card** page with the assigned IIC endpoint.
> 2. Select the **IIC Pre-Invoice** field.

Posting a Pre-Invoice and Creating Transfer Order

Follow the basic process that has been described in Basic Intercompany Process. Stop at the step when the invoice confirmation should be validated and accepted by the BUYER company.

> **ℹ TIP**
>
> Remember to fill in the **Location Code** field. The pre-invoicing functionality does not work when the location code has not been selected in the purchase line. When there is no location code, a transfer order document cannot be created.

To start pre-invoicing:

1. On a purchase buffer document with the **IIC Document Type** set to **Invoice** select the **IIC Pre-Invoice** field.
2. Validate and accept the purchase buffer document.

> **ℹ NOTE**
>
> If a warehouse receipt exists, a dialog will be shown with a question, if the warehouse receipt should be removed. Unless the **Skip Confirmation**

3. The transfer order will be created between the pre-invoice location and an original location on the purchase order.

Manual Pre-Invoicing

It is also possible to use the pre-invoicing functionality for non-IIC documents.

There is a new field on the vendor card: **Manual Pre-Invoice**. When it is selected, a new action is visible: **IIC Post Pre-Invoice**. The action can be used to post the receipt and invoice, and create a transfer order for all quantities from the **Qty. to Pre-Invoice** field available in the lines.

Combined Invoicing

To avoid invoicing each IC sales order individually, Advanced Intercompany provides a combined invoice functionality. It allows the creation of a sales invoice document for multiple shipments issued to the IC customer and sending of such a document to the IC partner.

Processing Combined Invoice

1. [BUYER] Create at least two purchase orders in the BUYER company and send them to the intercompany partner.
2. [SELLER] Once all documents are confirmed on both sides, post the sales shipment on the sales orders.
3. [SELLER] Create a new sales invoice and use the **Get Shipment Lines** action to create a document for invoicing multiple shipments.
4. [SELLER] Post the sales invoice.
5. [SELLER] Open the **Posted Sales Invoice** page, find a related document, and use the **IIC Send** action.
6. [SELLER] Make sure that outbound messages have been sent to the **BUYER** company.
7. [BUYER] Open the **IIC Purchase Buffer Document** page and validate a buffer document. When such an invoice is validated in the buffer, the system looks for purchase orders connected to the source sales order of each line and checks for the matched quantity received.
8. [BUYER] Accept the buffer document. As the result, the application will create a new purchase invoice and run the **Get Receipt Lines** action for matching lines. After triggering the action, the shipment number and receipt number will be inserted as the **Comment** type lines in the purchase invoice lines.

> **ℹ NOTE**
>
> After the buffer document is accepted, a combined purchase invoice can be created or posted, depending on the settings:
>
> - On the **IIC Endpoint** page, in the **Combined Invoice Action** field the following options can be selected: **Create Document**, **Post Invoice** or **Default**.
> - The default value: **Create Document** or **Post Invoice** can be defined on the **IIC Setup** page.

Intercompany Returns

Advanced Intercompany supports a variety of business return processes. This article describes the types of return processes supported by Advanced Intercompany and shows how Advanced Intercompany can improve your business.

A return process between companies is the way businesses handle returns of products or services that were sold by one company to the other. Products or services can be returned because of a damage or for other reasons.

Advanced Intercompany supports three types of return processes described below:

Basic Return Process

A basic return process involves two companies: SELLER and BUYER.

In a standard return process, if the BUYER wants to return, for example, damaged goods, they notify the SELLER who confirms the return and provides instructions on how to do it. The BUYER ships the goods back and the SELLER inspects them for damage. If the damage is confirmed, the SELLER processes a refund or replacement according to the agreed terms.

The return process is usually initiated by the BUYER, but this process can also be initiated by the SELLER.

Drop Shipment Return to the Buyer

A drop shipment return to the buyer involves three companies: SELLER, BUYER and CUSTOMER. In a drop shipment return process, when a CUSTOMER wants to return goods, the BUYER company verifies the return and communicates it to the SELLER. The SELLER confirms the return and provides instructions to the BUYER company, which coordinates the return with the CUSTOMER. The SELLER inspects the returned goods and processes a refund or replacement, if the return is valid.

Drop Shipment Return to the Seller

A drop shipment return to the seller also involves three companies: SELLER, BUYER and a CUSTOMER. In a drop shipment return process where the CUSTOMER returns goods directly to the SELLER, the SELLER inspects the return and contacts the BUYER company to provide relevant details. The BUYER company verifies the return and coordinates the return process with the SELLER. The SELLER processes a refund or replacement according to the agreed terms.

Exact Cost Reversing

When returns are registered in Business Central, companies need to ensure that inventory valuation is maintained correctly. For this purpose, it is necessary to set up exact cost reversing as mandatory in either Sales & Receivables Setup or Purchase & Payables Setup. Advanced Intercompany enables the picking of items to be returned from inventory at the unit cost the items were purchased at for the drop shipment return process.

| TO	SEE
Find out how to go through the basic Advanced Intercompany return process	Basic Return Process
Find out how a drop shipment return to the buyer works in Advanced Intercompany	Drop Shipment Return to Buyer
Learn how a drop shipment return to the seller works in Advanced Intercompany	Drop Shipment Return to Seller
Learn how to track your stock value and quantity when the items have already been returned to your IC partner	Returns Pre-Invoicing

TO	SEE
Find out how to create an intercompany credit memo for multiple returns	Combined Invoice
Learn how the exact cost reversing can be supported within the application	Exact Cost Reversing in Intercompany Returns

Basic Return Process

This article presents an intercompany return process in Advanced Intercompanywhen the BUYER company creates a purchase return order and sends it to a SELLER company which is the IC vendor. In the SELLER company, the sales return order is created. Then, both sides can start negotiating the return order conditions like price, terms, and delivery dates. After the documents are confirmed on both sides, the IC customer can issue the return shipment. This document can be sent to the SELLER company, which results in updating return shipment information. After the goods are received, a sales credit memo can be posted in the SELLER company. The sales credit memo document can be send to the BUYER company , which results in posting the purchase return order posting.

> **ⓘ NOTE**
>
> The return process can be initiated either from the BUYER or SELLER company side.
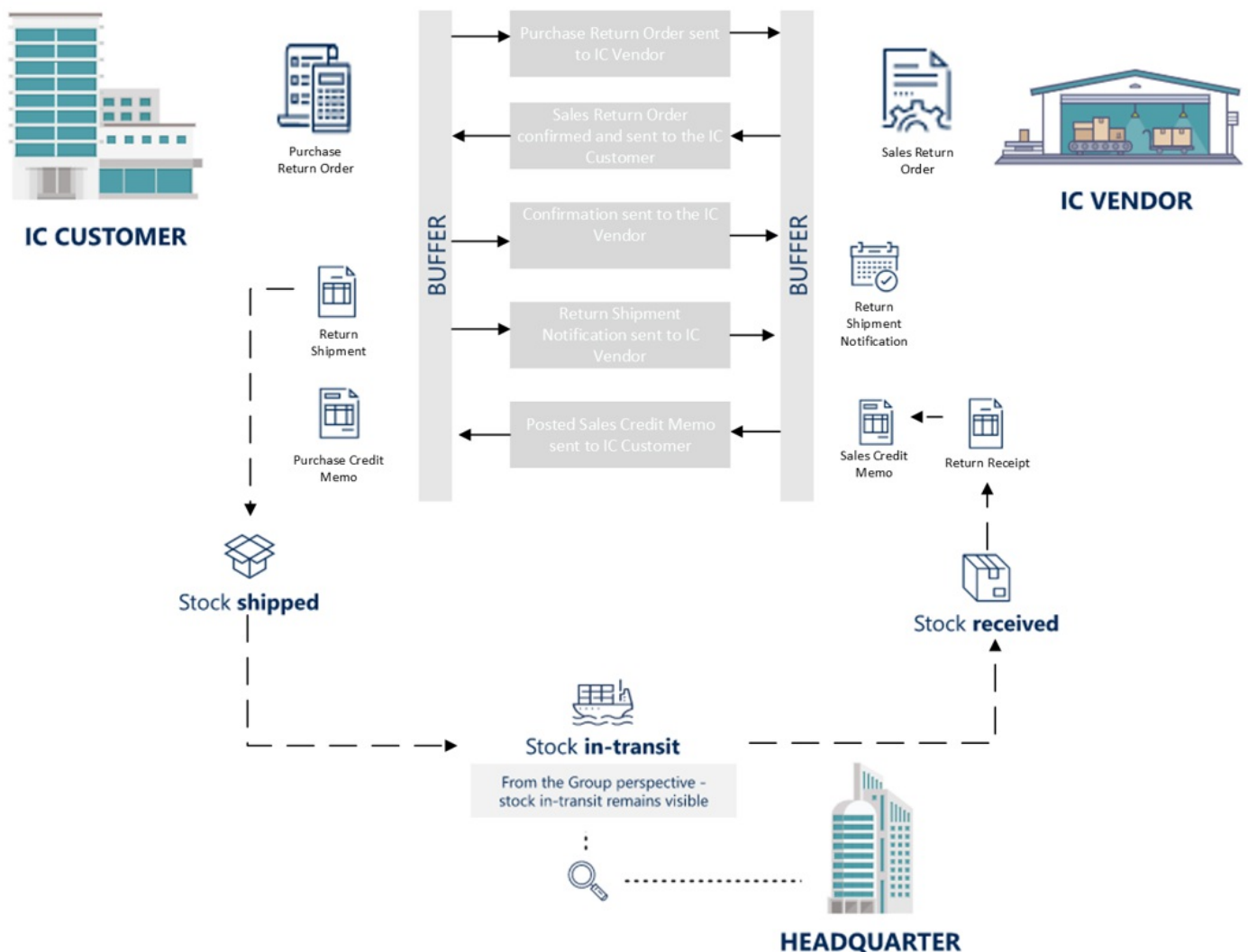
Processing Intercompany Return Orders

The process includes the following steps:

1. [BUYER] Choose the 🔎 icon, enter **Purchase Return Orders**, and then select a related link.
2. [BUYER] Create a new purchase return order.
   - In the **Vendor Name** field, enter the name of the intercompany vendor (such a vendor has the **IIC Endpoint No.** field filled in). After this step, the **IIC Document** field should be automatically marked on the purchase return order.

- Fill in the remaining fields on the **Purchase Credit Memo** page as necessary.
- On the **Lines** FastTab, enter the necessary fields at least: **Type**, **No.**, **Return Reason Code**, **Quantity** and **Direct Unit Cost**.

3. [BUYER] Release the purchase return order by using the **Release** action.
4. [BUYER] Send the purchase return order bu using the **IIC Send** action. After using the action, the **IIC Status Code** field should be changed to **OUTBOUND**.

5. [BUYER] Use the **IIC Send Outbound Messages** report to send the message to the IC partner. the **IIC Status Code** field on the purchase return order will be changed to **SENT**.

6. [SELLER] Switch the company to the SELLER company. Choose the 🔍 icon, enter **IIC Sales Buffer Documents**, and then select a related link.
7. [SELLER] Open the **IIC Sales Buffer Document** page for the latest entry.
   - Use the **Validate** action to verify that there are no errors for further processing.
   - Use the **Accept** action to accept the incoming message and create a sales return order.

8. [SELLER] Confirm that the buffer message is to be processed and open the sales return order document card. As a result, the application has created a sales return order document with the **IIC Status Code** field set to **NEW**.
9. [SELLER] Adjust the sales return order document, if needed and use the **Release** action.
10. [SELLER] Send the sales return order using the **IIC Send** function. After using this action, the **IIC Status Code** field should be changed to **OUTBOUND**.
11. [SELLER] Use the **IIC Send Outbound Messages** report to send the message to the IC partner. the **IIC Status Code** field on the sales order will be changed to **SENT**.
12. [BUYER] Switch the company to the BUYER company. Choose the 🔍 icon, enter **IIC Purchase Buffer Documents**, and then select a related link. Alternatively, you can access the **IIC Purchase Buffer** page by clicking the **IIC Buffer Document Exists** FlowField on the purchase return order.
13. [BUYER] Open the IIC purchase buffer document for the entry related to the purchase return order:
    - Use the **Validate** action to verify that there are no errors for further processing.
    - Use the **Accept** action to accept the incoming message and process the purchase confirmation.
14. [BUYER] As a result, **IIC Status Code** field value on the purchase return order will be changed to **CONFIRMED**.
15. [BUYER] Use the **IIC Send Outbound Messages** report to send the message to the IC partner. As a result, documents on both sides will be confirmed.
16. [BUYER] Post the purchase return order - only the shipment. As a result, a return shipment notification will be created.
17. [BUYER] Search for the **Return Shipments** related to the purchase return order and send the return shipment notification by using the **IIC Send** action, the **IIC Status Code** field will be set to **OUTBOUND**.
18. [BUYER] Use the **IIC Send Outbound Messages** report to send the message to the IC partner. the **IIC Status Code** field on the sales order will be changed to **SENT**.
19. [SELLER] Switch the company to the SELLER company. Choose the 🔍 icon, enter **IIC Sales Buffer Documents**, and then

select a related link. Alternatively, you can access the **IIC Sales Buffer** page by clicking the **IIC Buffer Document Exists** FlowField on the sales return order.

20. [SELLER] Open the **IIC Sales Buffer Document** page for the entry related to the sales return order. Validate and accept the return shipment notification message. As a result, the **IIC Shipment Status** and **IIC Return Qty. Received** fields will be updated on the purchase order line.
21. [SELLER] Post the sales return order - both the shipment and credit memo.
22. [SELLER] Open the posted sales credit memo and use the dedicated action: **IIC Send.**
23. [SELLER] Use the **IIC Send Outbound Messages** report to send messages to the IC partner. the **IIC Status Code** field on the sales shipment and posted sales invoice will be changed to **SENT**.

> **ℹ NOTE**
>
> Sending the return shipment notification and posted sales credit memo also can be automated, if the dedicated job queue is configured and fields: **Auto Send Posted Ret. Shipments** and **Auto Send Posted S. Cr. Memo** are selected on the **Auto Send** FastTab on the **IIC Setup** page.

24. [BUYER] Open the IIC purchase buffer documents. Validate and accept the credit memo confirmation message. As a result, the purchase credit memo will be posted and the purchase return order will be deleted.

> **☞ IMPORTANT**
>
> If **Exact Cost Reversing Mandatory** is set either on the **Sales & Receivables** or **Purchase & Payables** page, it is mandatory to fill in the **Appl.-to Item Entry** field in the sales or purchase document line (or item tracking lines). In the initiating company, this field can be filled in automatically. To automatically fill in the the **Appl.-to Item Entry** field, use the **Get Posted Document Lines to Reverse** action when creating document lines. After sending this to the other company, the **Appl.-to Item Entry** field must be updated manually by a user.

The following table presents how IIC status is changed during the process in both companies:

Understanding the Status Flow

STEP	PURCHASE RETURN ORDER STATUS IN BUYER	SALES RETURN ORDER STATUS IN SELLER
Purchase return order is created		
Purchase return order is released and sent	OUTBOUND	
IC message is sent from the queue	SENT	
Document is validated in the sales buffer		
Sales return order is created		NEW
Sales return order is released and sent	ACCEPTED	OUTBOUND/SENT
Document is validated in the purchase buffer		
Document is accepted in the buffer and sent	CONFIRMED	CONFIRMED
Sales return order is posted	CLOSED	CLOSED

Drop Shipment Return to Buyer

This article presents an intercompany drop shipment return process when the BUYER company creates a sales return order to the final customer. After that the IC customer creates an associated purchase return order and sends it using Advanced Intercompany to the SELLER company which is the IC vendor. At the SELLER side, the purchase return order is converted to a sales return order. After both sides confirm the return conditions and the returned goods arrive at the IC vendor's warehouse, the IC vendor can issue and send a return receipt notification. This document should be sent to the BUYER company. This results in updating return shipment information. In the last step, the SELLER company posts a sales credit memo and sends it to the BUYER company. As a result, the purchase return order is posted automatically.
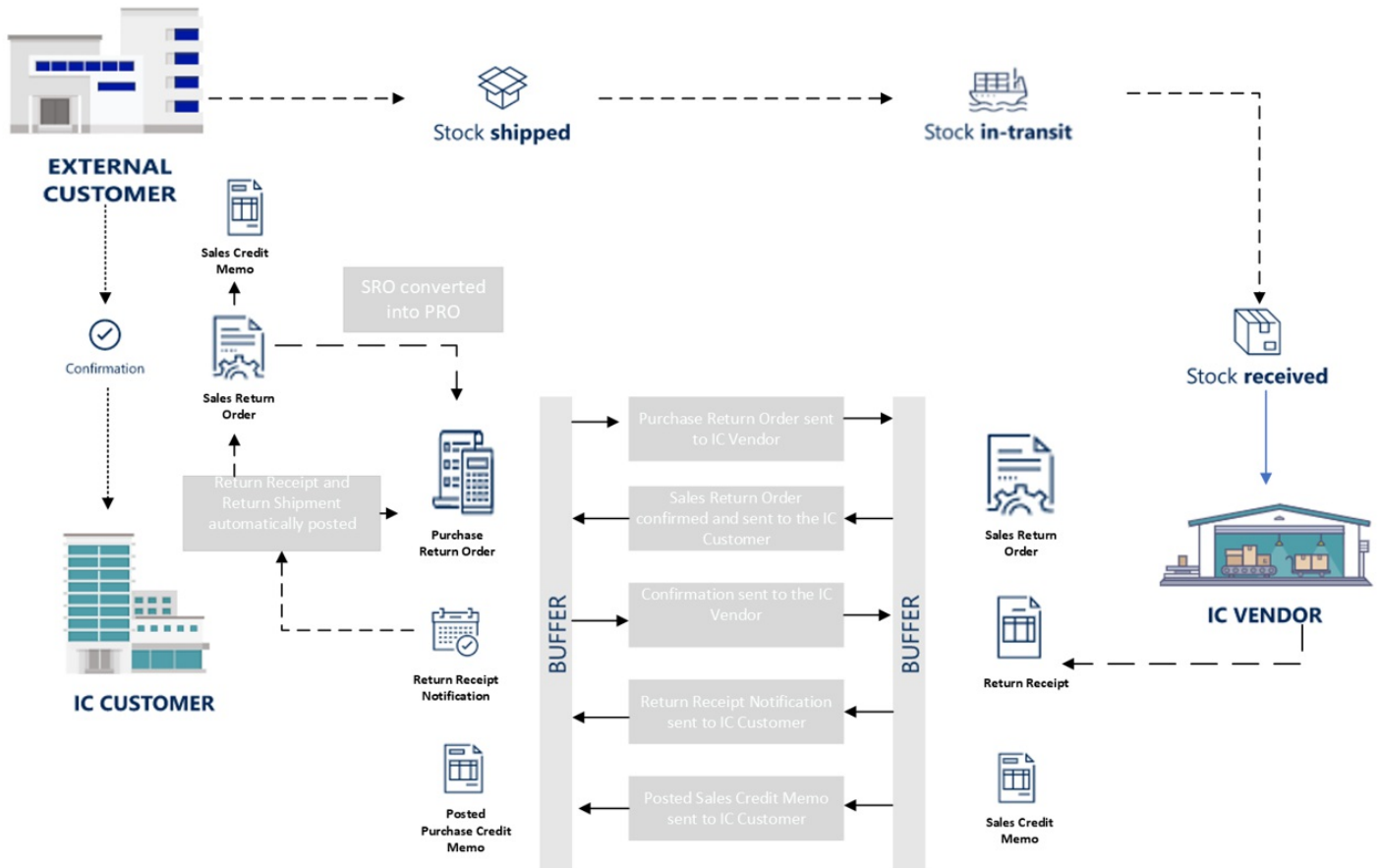
Processing Intercompany Drop Shipment Return Orders

The process includes the following steps:

1. [BUYER] Choose the ⚲ icon, enter **Sales Return Orders**, and then select a related link.
2. [BUYER] Create a new sales return order.
    - In the **Customer Name** field, enter the name of the final customer.
    - Fill in the **IIC Drop Ship. Vendor No.** by selecting the intercompany partner.
    - On the **Lines** FastTab, enter the necessary fields at least: **Type**, **No.**, **Return Reason Code**, **Quantity**, **Direct Unit Cost** and **IIC Drop Shipment**.

3. [BUYER] Release the sales return order by using the **Release** action.
4. [BUYER] Create an associated purchase return order by using the **Create Drop Shipment Purchase Return Order** action.
5. [BUYER] Check, if all necessary information is filled in on the purchase return order and release the purchase return order with the **Release** action.
6. [BUYER] Send the purchase return order by using the **IIC Send** actionn. After using this action, the **IIC Status Code** field value should change to **OUTBOUND**.

---

7. [BUYER] Use the **IIC Send Outbound Messages** report to send the message to the IC partner. The **IIC Status Code** field on the purchase return order will be changed to **SENT**.

8. [SELLER] Switch the company to the SELLER company. Choose the 🔎 icon, enter **IIC Sales Buffer Documents**, and then select a related link.
9. [SELLER] Open the IIC sales buffer document for the latest entry.
   - Use the **Validate** action to verify that there are no errors for further processing.
   - Use the **Accept** action to accept the incoming message and create a sales return order.

10. [SELLER] Confirm that the buffered message is to be processed and open the sales return order document card. As a result, the application has created a sales return order document with the **IIC Status Code** field set to **NEW**.
11. [SELLER] Adjust the sales return order document if needed and use the **Release** action.
12. [SELLER] Send the sales return order using the **IIC Send** function. After using this action, the **IIC Status Code** field should be change to **OUTBOUND**.
13. [SELLER] Use the **IIC Send Outbound Messages** report to send the message to the IC partner. The **IIC Status Code** field on the sales order will be changed to **SENT**.
14. [BUYER] Switch the company to the BUYER company. Choose the 🔎 icon, enter **IIC Purchase Buffer Documents**, and then select a related link. Alternatively, you can access the **IIC Purchase Buffer** page by selecting the **IIC Buffer Document Exists** FlowField on the purchase return order.
15. [BUYER] Open the IIC purchase buffer document for the entry related to the purchase return order:
    - Use the **Validate** action to verify that there are no errors for further processing.
    - Use the **Accept** action to accept the incoming message and process the purchase confirmation.

16. [BUYER] As a result, the **IIC Status Code** field value on the purchase return order will be changed to **CONFIRMED**.
17. [BUYER] Use the **IIC Send Outbound Messages** report to send the message to the IC partner. As a result, the documents on both sides will be confirmed.
18. [SELLER] Post the sales return order - only the shipment. As a result, a return receipt notification will be created.
19. [SELLER] Search for the **Return Receipts** page, find a related document to the sales return order, and send the return receipt notification by using the **IIC Send** function, the **IIC Status Code** field will be set to **OUTBOUND**.
20. [SELLER] Use the **IIC Send Outbound Messages** report to send the message to the IC partner. The **IIC Status Code** field on the sales order will be changed to **SENT**.
21. [BUYER] Switch the company to the BUYER company. Choose the 🔎 icon, enter **IIC Purchase Buffer Documents**, and then select a related link. Alternatively, you can access the **IIC Purchase Buffer** page by selecting the **IIC Buffer Document Exists** FlowField on the purchase return order.
22. [BUYER] Open the **IIC Purchase Buffer Document** page for the entry related to purchase return order. Validate and accept the return receipt notification message. As a result, the **IIC Shipment Status** and **IIC Return Qty. to Ship** fields will be updated in the purchase order line. In addition, the **IIC Shipment Status** and **IIC Return Qty. Received** fields will be updated on the associated sales return order to the final customer.
23. [SELLER] Post the sales return order - only the invoice.

24. [SELLER] Open the posted sales credit memo and use the **IIC Send** action.
25. [SELLER] Use the **IIC Send Outbound Messages** report to send messages to the IC partner. The **IIC Status Code** field on the sales shipment and posted sales invoice will be changed to **SENT**.

> **ℹ NOTE**
>
> Sending the return receipt notification and posted sales credit memo also can be automated, if the dedicated job queues are configured and fields: **Auto Send Posted Ret. Receipts** and **Auto Send Posted S. Cr. Memo** are selected on the **Auto Send** FastTab on the **IIC Setup** page.

26. [BUYER] Open the associated sales return order to the final customer.
27. [BUYER] Post the sales return order - only the invoice.
28. [BUYER] Open the IIC purchase buffer documents. Validate and accept the credit memo confirmation message. As a result, the purchase credit memo will be posted and the purchase return order will be deleted.

> **ℹ NOTE**
>
> Posting the sales credit memo to the end customer can be automated by setting up the **Auto Post Drop Shipment Credit Memos** field on the **Drop Shipment** FastTab on the **IIC Setup** page. In the **Auto Post Drop Shipment Credit Memos** field, user can specify whether the sales credit memo to the end customer should be posted when accepting the return receipt or the credit memo.

> **☞ IMPORTANT**
>
> If **Exact Cost Reversing Mandatory** is set either in Sales & Receivables or Purchase & Payables page it is mandatory to fill in the **Appl.-to Item Entry** field on the sales or purchase document line (or item tracking lines). In the initiating company this field can be filled in automatically when using action **Get Posted Document Lines to Reverse** when creating document lines. After sending this to the other company, the **Appl.-to Item Entry** field must be updated manually by a user.

The following table presents how IIC status is changed during the process in both companies:

Understanding the status flow

STEP	PURCHASE RETURN ORDER STATUS IN BUYER	SALES RETURN ORDER STATUS IN SELLER
Sales Return Order to the final customer is created		
Purchase Return Order is created		
Purchase Return Order is released and sent	OUTBOUND	
IC Message is sent from the queue	SENT	
Document is validated in the sales buffer		
Sales Return Order is created		NEW
Sales Return Order is released and sent	ACCEPTED	OUTBOUND/SENT
Document is validated in the purchase buffer		

STEP	PURCHASE RETURN ORDER STATUS IN BUYER	SALES RETURN ORDER STATUS IN SELLER
Document is accepted in the buffer and sent	CONFIRMED	CONFIRMED
Sales Return Order to the final customer is posted		
Sales Return Order is posted	CLOSED	CLOSED

Drop Shipment Return to Seller

This article presents an intercompany reverse drop shipment return process, when the SELLER company receives the returned goods from the final customer, creates a sales return order, and sends it by using Advanced Intercompany to the BUYER company. On the BUYER side, the sales return order is converted to a purchase return order. From this document, an associated sales return order to the final customer has to be created. After all parties of the return process agree on return conditions, the IC vendor can issue and send a return receipt notification. This document should be sent to the BUYER company. This results in updating return shipment information. The last step is posting a sales credit memo by the SELLER company and sending it to the BUYER company. As a result the purchase return order is posted automatically.
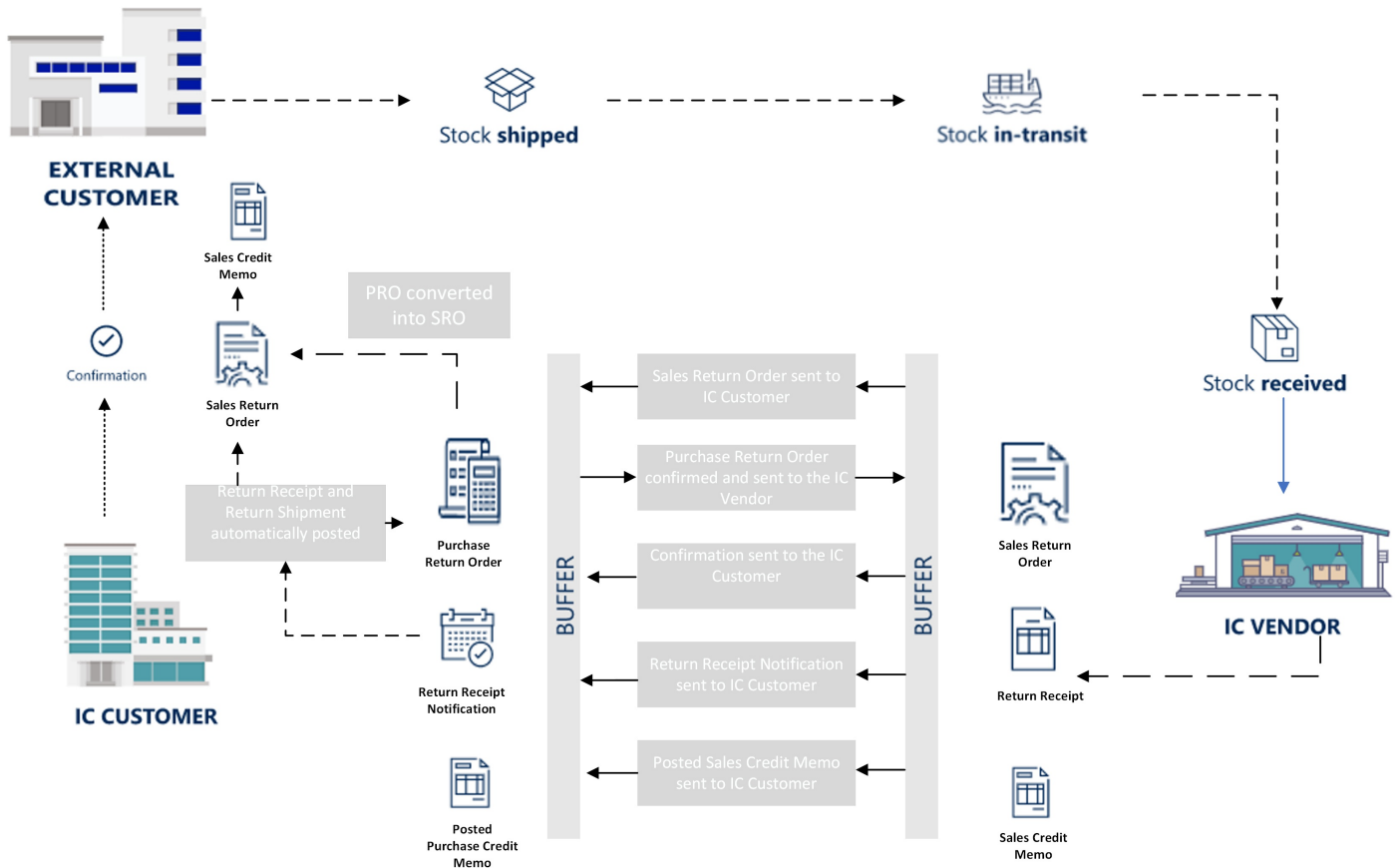
Processing Intercompany Reverse Drop Shipment Return Orders

The process includes the following steps:

1. [SELLER] Choose the 🔍 icon, enter **Sales Return Orders**, and then select a related link.
2. [SELLER] Create a new sales return order.
   - In the **Customer Name** field, enter the name of the intercompany partner.
   - Fill in the **IIC End Customer No.** by selecting the final customer.
   - On the **Lines** FastTab, enter the necessary fields at least: **Type**, **No.**, **Return Reason Code**, **Quantity** and **Direct Unit Cost**.

3. [SELLER] Release the sales return order by using the **Release** action.
4. [SELLER] Send the sales return order by using the **IIC Send** action. After using this action, the **IIC Status Code** field should be changed to **OUTBOUND**.

> **ℹ NOTE**
>
> The action can be automatically executed, if the **IIC Send On Document Release** field is seelcted in the **IIC Setup**.

5. [SELLER] Use the **IIC Send Outbound Messages** report to send the message to the IC partner. The **IIC Status Code** field on the purchase return order will be changed to **SENT**.

☞ **IMPORTANT**

This step can be automated by setting up report 20020697 in the job queue. The **Job Queue Entry** card page can be created by using a dedicated function from the **IIC Setup** page.

6. [BUYER] Switch the company to the BUYER company. Choose the 🔍 icon, enter **IIC Purchase Buffer Documents**, and then select a related link.
7. [BUYER] Open the IIC purchase buffer document for the latest entry.
   - Use the **Validate** action to verify that there are no errors for further processing.
   - Use the **Accept** action to accept the incoming message and create a purchase return order.

ℹ **NOTE**

Both actions can be automated by using the job queues and setting up the proper **Auto Process New Purchase Document** field on the **Auto Process** FastTab to the **Accept** value on the **IIC Setup** page.

8. [BUYER] Confirm that the buffered message is to be processed and open the purchase return order document card. As a result, the application has created a purchase return order document with the **IIC Status Code** field set to **NEW**.
9. [BUYER] Adjust the purchase return order document, if needed, and use the **Release** action.
10. [BUYER] Create a sales return order for the final customer by using the **Create Drop Shipment Sales Return Order** action.
11. [BUYER] Send the purchase return order by using the **IIC Send** action. After using this action, the **IIC Status Code** field should be changed to **OUTBOUND**.
12. [BUYER] Use the **IIC Send Outbound Messages** report to send the message to the IC partner. the **IIC Status Code** field on the sales order will be changed to **SENT**.
13. [SELLER] Switch the company to the SELLER company. Choose the 🔍 icon, enter **IIC Sales Buffer Documents**, and then select a related link. Alternatively, you can access the **IIC Sales Buffer** page by selecting the **IIC Buffer Document Exists** FlowField on the sales return order.
14. [SELLER] Open the IIC sales buffer document for the entry related to the sales return order:
    - Use the **Validate** action to verify that there are no errors for further processing.
    - Use the **Accept** action to accept the incoming message and process the sales confirmation.

15. [SELLER] As a result, the **IIC status code** field value in the sales return order will be changed to **CONFIRMED**.
16. [SELLER] Use the **IIC Send Outbound Messages** report to send the message to the IC partner. As a result, documents on both sides will be confirmed.
17. [SELLER] Post the sales return order - only the shipment. As a result, a return receipt notification will be created.
18. [SELLER] Search for the **Return Receipts** page, find the related document to the sales return order, and send the return receipt notification by using the **IIC Send** function. The **IIC Status Code** field will be set to **OUTBOUND**.
19. [SELLER] Use the **IIC Send Outbound Messages** report to send the message to the IC partner. The **IIC Status Code** field on the sales order will be changed to **SENT**.
20. [BUYER] Switch the company to the BUYER company. Choose the 🔍 icon, enter **IIC Purchase Buffer Documents**, and then select a related link. Alternatively, you can access the **IIC Purchase Buffer** page by selecting the **IIC Buffer Document Exists** FlowField on the purchase return order.
21. [BUYER] Open the IIC purchase buffer document for the entry related to the purchase return order. Validate and accept the return receipt notification message. As a result, the **IIC Shipment Status** and **IIC Return Qty. to Ship** fields will be updated on the purchase order line. In addition, the **IIC Shipment Status** and **IIC Return Qty. Received** fields will be updated on the associated sales return order for the final customer.
22. [SELLER] Post the sales return order - only the invoice.
23. [SELLER] Open the posted sales credit memo and use the **IIC Send** action.
24. [SELLER] Use the **IIC Send Outbound Messages** report to send messages to the IC partner. The **IIC Status Code** field on the sales shipment and posted sales invoice will be changed to **SENT**.

1. [BUYER] Open the associated sales return order to the final customer.
2. [BUYER] Post the sales return order - only the invoice.
3. [BUYER] Open the IIC purchase buffer documents. Validate and accept the credit memo confirmation message. As a result, the purchase credit memo will be posted and the purchase return order will be deleted.

> **ℹ NOTE**
>
> Posting the sales credit memo to the end customer can be automated by setting up the **Auto Post Drop Shipment Credit Memos** field on the **Drop Shipment** FastTab on the **IIC Setup** page. In the **Auto Post Drop Shipment Credit Memos** field, user can specify whether the sales credit memo to the end customer should be posted when accepting the return receipt or the credit memo.

> **☞ IMPORTANT**
>
> If **Exact Cost Reversing Mandatory** is set either on the **Sales & Receivables** or **Purchase & Payables** page, it is mandatory to fill in the **Appl.-to Item Entry** field on the sales or purchase document line (or item tracking lines). In the initiating company this field can be filled in automatically. To fill the **Appl.-to Item Entry** field automatically, use the **Get Posted Document Lines to Reverse** action, when creating document lines. After sending this to the other company, the **Appl.-to Item Entry** field must be updated manually by a user.

The following table presents how IIC status is changed during the process in both companies:

Understanding the Status Flow

STEP	PURCHASE RETURN ORDER STATUS IN BUYER	SALES RETURN ORDER STATUS IN SELLER
Sales return order is created		
Sales return order is released and sent		OUTBOUND
IC message is sent from the queue		SENT
Document is validated in the purchase buffer		
Purchase return order is created	NEW	
Sales return order to the final customer is created		
Purchase return order is released and sent	ACCEPTED	OUTBOUND/SENT
Document is validated in the sales buffer		
Document is accepted in the buffer and sent	CONFIRMED	CONFIRMED
Sales return order to the final customer is posted		

STEP	PURCHASE RETURN ORDER STATUS IN BUYER	SALES RETURN ORDER STATUS IN SELLER
Purchase Return Order is posted	CLOSED	CLOSED

Returns Pre-Invoicing

In the intercompany trade, where goods are returned to the intercompany partner, the stock in transit temporarily (for the transportation time) disappears from the books and stock levels of both companies. From the group's perspective, the information about the current stock value or real stock levels is not accurate. Returns pre-Invoicing enables posting of a sales return order for goods in transit before items arrive at a company. Items are received on the virtual pre-invoice location and a transfer order between the pre-invoice and the final destination location is created.

Pre-invoice Setup

To enable the pre-invoice functionality in Advanced Intercompany:

1. Create a new location card and an inventory posting setup for the virtual location used for the pre-invoice process.

2. On the **IIC Setup** page, in the **Pre-Invoice** FastTab:

   - Select the **Pre-Invoice Enabled** field.
   - Fill in the **Pre-Invoice Location Code** field with the created virtual location.
   - Select the **Auto Post Transfer Shipment** field, if you want the transfer shipment to be posted automatically, when creating a transfer order from the purchase order.
   - Select the **Skip Confirmation on Warehouse Receipt Deletion** field, if you want the connected warehouse receipts to be deleted without a confirmation dialog pop-up.
   - Select the **Combined Pre-Invoice** field, if you want to allow the creation of a combined transfer order.

3. On the **Transfer Route** page define the **Transfer Route** from the pre-invoice location to the target location.

> **ℹ TIP**
>
> If you want the IIC sales buffer documents of the Return Shipment type to be automatically processed as a pre-invoice from the IIC customer:
>
> 1. Open the **Customer Card** page with the assigned IIC endpoint.
> 2. Select the **IIC Pre-Invoice** field.

Posting Pre-Invoice and Creating Transfer Order

Follow the basic return process that has been described in Basic Return Process. Stop at the step when the return shipment confirmation should be validated and accepted by the SELLER company.

> **ℹ TIP**
>
> Remember to fill in the **Location Code** fields. The pre-invoicing functionality does not work when the location code is not selected in the sales return line. When there is no location code, a transfer order document cannot be created.

To start pre-invoicing:

1. On a sales buffer document with the **IIC Document Type** field set to **Return Shipment** select the **IIC Pre-Invoice** field.
2. Validate and accept the sales buffer document.

> **ℹ NOTE**
>
> If a warehouse receipt exists, a dialog will be shown with a question, if the warehouse receipt should be removed. Unless the **Skip Confirmation on Warehouse Receipt Deletion** field is selected on the **IIC Setup** page. For details, read IIC Setup.

3. The transfer order will be created between the pre-invoice location and an origin location from the sales return order.

Manual Pre-Invoice

It is also possible to use the pre-invoice functionality for non-IIC documents.

There is a new field on the customer card: **Manual Pre-Invoice**. When it i selected, a new action is visible: **IIC Post Pre-Invoice**. It will post the return receipt and credit memo for the return process, and create a transfer order for all quantities from the **Qty. to Pre-Invoice** field available in the lines.

Combined Credit Memo

To avoid invoicing each IC sales return order individually, Advanced Intercompany provides the combined credit memo functionality. It allows the creation of a sales credit memo document for multiple return shipments issued to the IC customer and sending of such a document to the IC partner.

Processing Combined Credit Memo

1. [BUYER] Create at least two purchase return orders in the BUYER company and send them to the intercompany partner.
2. [SELLER] Once all documents are confirmed on both sides, accept the purchase return shipment in the IIC sales buffer and post the sales return receipt.
3. [SELLER] Create a new sales credit memo and use the **Get Shipment Lines** action to create a document for invoicing multiple return shipments.
4. [SELLER] Post the sales credit memo.
5. [SELLER] Open the **Posted Sales Credit Memo** page, find a related document, and use the **IIC Send** action.
6. [SELLER] Make sure that outbound messages have been sent to the **BUYER** company.
7. [BUYER] Open the **IIC Purchase Buffer Document** page and validate a buffer document. When such a credit memo is validated in the buffer, the system searches for purchase return orders that are connected to the source sales return order of each line and checks for the matched quantity received.
8. [BUYER] Accept the buffer document. As the result, the application will create a new purchase credit memo and it will run the **Get Receipt Lines** action for matching lines. After starting the action, the shipment number and receipt number will be inserted as the **Comment** type lines in the purchase credit memo lines.

> ℹ **NOTE**
>
> After the buffer document is accepted a combined purchase credit memo can be created or also posted depending on the settings:
>
> - On the **IIC Endpoint** page, the **Combined Credit Memo Action** field can have the following options: **Create Document**, **Post Credit Memo** or **Default**.
> - The default value: **Create Document** or **Post Credit Memo** can be defined on the **IIC Setup** page.

Exact Cost Reversing in Intercompany Returns

Basic Return Process

If the exact cost reversing functionality is enabled in Business Central, it is recommended to use the **Get Posted Document Lines to Reverse** action on the purchase return order or sales return order (depending on which side the return process is initiated) to create document lines. As a result, the **Appl.-to Item Entry** field (or **Appl.-from Item Entry** field for sales documents) are filled in the document line. However, this field is not included, when the document is sent to the IC endpoint.

> **ⓘ TIP**
>
> To learn more about the process within the standard Business Central application, read Process Purchase Returns or Cancellations

> **☞ IMPORTANT**
>
> Advanced Intercompany does not update **Appl.-to Item Entry** (**Appl.-from Item Entry**) field on the IC partner side. If Business Central setup requires updating this field, the user should update the field on document lines.

Drop Shipment Returns

Advanced Intercompany supports drop shipment returns. It enables you to pick return items from inventory at the unit cost the items were purchased at for the drop shipment return process. Within this process, the SELLER company can send the return receipt notification message. As a result, the return receipt and return shipment of a linked purchase return order and sales return order are posted automatically. Depending on the combination of different settings in the application, the results of return receipt processing may differ and require different actions by the user:

EXACT COST REVERSING MANDATORY			APPL.-FROM ITEM ENTRY ON A SALES RETURN ORDER	APPL.-TO ITEM ENTRY ON A PURCHASE RETURN ORDER	RETURN RECEIPT PROCESSING
Sales & Receivables Setup	Purchases & Payables Setup	Item Tracking Enabled			
Yes	Yes	No	It must be manually updated by the user in the sales return order line.	It is updated automatically, when processing the return receipt notification.	When the return receipt is accepted, the return shipment/return receipt is automatically posted.
Yes	No	No	It must be manually updated by the user in the sales return order line.	No action needed.	When the the return receipt is accepted, the return shipment/return receipt is automatically posted.
No	Yes	No	No action needed.	It is updated automatically, when processing the return receipt notification.	When the return receipt is accepted, the return shipment/return receipt is automatically posted.

EXACT COST REVERSING MANDATORY			APPL.-FROM ITEM ENTRY ON A SALES RETURN ORDER	APPL.-TO ITEM ENTRY ON A PURCHASE RETURN ORDER	RETURN RECEIPT PROCESSING
No	No	No	No action needed.	No action needed.	When the return receipt is accepted, the return shipment/return receipt is automatically posted.
Yes	Yes	Yes	It must be manually updated in the item tracking line of a sales return order line.	It must be manually updated in the item tracking line of the purchase return order line.	When the return receipt is accepted, item tracking lines are transferred from the purchase return order to the sales return order. No automatic posting is performed.
Yes	No	Yes	It must be manually updated by the user in the item tracking line of the sales return order line.	No action needed.	When the return receipt is accepted, the item tracking lines are transferred from the purchase return order to the sales return order. No automatic posting is performed.
No	Yes	Yes	No action needed.	It is updated automatically, when processing the return receipt notification.	When the return receipt is updated, the return shipment/return receipt is poste.
No	No	Yes	No action needed.	No action needed.	When the return receipt is updated, the return shipment/return receipt is posted.

See Also

Process Purchase Returns or Cancellations

Intercompany Returns

Intercompany Services

Advanced Intercompany supports a variety of business processes. This article describes the intercompany services and shows how Advanced Intercompany can improve the invoicing process in a multi-site company.

TO	SEE
Find out what the standalone invoice is and how the document can be sent without negotiations	Standalone Invoice
Find out what the standalone credit memo is and how the document can be sent without negotiations	Standalone Credit Memo

Standalone Invoice

Sometimes the exchange of the documents does not require confirmations and negotiations from both sides, i.e. the buyer and seller companies. There are processes when one company just sends a document and this should always result in the creation of the same document at an intercompany partner's side. The example of such a process is a service invoice.

> **ℹ NOTE**
>
> In this scenario, an invoice document is created, instead of an order and the process is initiated at the SELLER company.

Processing Standalone Invoice

A standalone invoice is a specific type of a sales invoice document. To create and process a standalone invoice:

1. Create a new sales invoice document and select an IC customer in the **Sell-to Customer No.** field.
2. Prepare the document and fill in the invoice lines.
3. Select the **IIC Standalone Invoice** field in the **General** FastTab.

> **ℹ NOTE**
>
> If you forget to select the **IIC Standalone Invoice** field and a sales invoice contains only lines of the following types: **G/L Account**, **Resource**, **Charge (Item)**, during the sales invoice release, the application will ask you, if the document should be converted to the standalone invoice.

4. Release the sales invoice document. Once released, the standalone invoice does not need to be negotiated. Its **IIC Status** remains blank, so managing the status (opening/releasing) can be performed with no limitations.
5. Post the standalone sales invoice.

> **👉 IMPORTANT**
>
> The standalone invoices can be sent after posting.

7. Go to the **Posted Sales Invoices** page, find a related document, and use the **IIC Send** action.
8. Make sure that outbound messages have been sent to the BUYER company.
9. Switch to the BUYER company.
10. When a standalone invoice is sent to the BUYER company, it is placed in the IIC purchase buffer. Go to the IIC purchase buffer, validate and accept the buffer document. As the result, the purchase invoice will be created with the **IIC Status Code** field set to **STANDALONE**.

> **ℹ NOTE**
>
> Standalone purchase invoices can be automatically released, when the **Auto Release Standalone Invoices** field is selected on the **IIC Setup** page.

Standalone Credit Memo

Sometimes the exchange of the documents does not require confirmations and negotiations from both sides, i.e. the buyer and seller companies. There are processes when one company just sends the document and it should always result in the creation of the same document at intercompany partner's side. The example of this process is a service credit memo.

> **ℹ NOTE**
>
> In this scenario, a credit memo document is created, instead of return order and the process is initiated in the SELLER company.

Processing Standalone Credit Memo

A standalone credit memo is a specific type of the sales credit memo document. To create and process the standalone credit memo:

1. Create a new sales credit memo document and select the IC customer in the **Sell-to Customer No.** field.
2. Prepare a document and fill in the document lines.
3. Select the **IIC Standalone Credit Memo** field in the **General** FastTab.

> **ℹ NOTE**
>
> If you forget to select **IIC Standalone Credit Memo** field and a sales credit memo contains only lines of the following types: **G/L Account**, **Resource**, **Charge (Item)**, during the sales credit memo release, the application will ask you if the document should be converted to the standalone credit memo.

4. Release the sales credit memo document. Once released, the standalone credit memo do not need to be negotiated. Its **IIC Status** remains blank, so managing the status (opening/releasing) can be performed with no limitations.
5. Post the standalone sales credit memo.

> **👉 IMPORTANT**
>
> Standalone credit memos can be sent after posting.

6. Go to the **Posted Sales Credit Memo** page, find a related document and, use the **IIC Send** action.
7. Make sure that outbound messages have been sent to the BUYER company.
8. Switch to the BUYER company.
9. When standalone credit memo is sent to the BUYER company, it is placed in the IIC purchase buffer. Go to the IIC purchase buffer, validate and accept the buffer document. As the result, the purchase credit memo will be created with the **IIC Status Code** field set to **STANDALONE**.

> **ℹ NOTE**
>
> Standalone purchase credit memos can be automatically released, when the **Auto Release Stand. Cr. Memo** field is selected on the **IIC Setup** page.

Intercompany Messages

Advanced Intercompany uses a variety of message types to exchange documents between intercompany partners. This article describes types of messages available in Advanced Intercompany and specifies when they are used.

TO	SEE
Learn what the meaning of the document buffer and how to process buffered messages is	Document Buffer Validation
Find out how to send the sales document to your IC partner	Sales Documents
Learn how to send the purchase document to your IC partner	Purchase Documents
Find out how to send the shipment notification to your IC partner	Shipment Notification
Find out how to send the sales invoice confirmation to your IC partner	Sales Invoice Confirmation
Learn how to send the return shipment notification to your IC partner	Return Shipment Notification
Learn how to send the return receipt notification to your IC partner	Return Receipt Notification
Find out how to send the sales credit memo confirmation to your IC partner	Sales Credit Memo Confirmation

Document Buffer Validation

After the IIC message has been sent to the IIC partner, it is queued in the dedicated buffer. Each document in the buffer must be processed. In the first step, it should be validated, and in the next steps, it can be accepted or rejected. Processing can be performed manually by the user or automatically with the job queue. Accepting the document will result in either the creation or update of the order, depending on the message type. This article describes the purchase buffer document structure and different buffer actions:

- validation,
- acceptance, and
- rejection.

> **ℹ NOTE**
>
> The sales buffer document works in a similar way to a purchase buffer document and it has not been described in this article.

Purchase Buffer Document

The following fields are available in the purchase buffer document:

- **Entry No.** - Specifies an internal field, the sequence number.

- **Create Date & Time** - Specifies a timestamp of the document creation date and time.

- **Created By** - Specifies the user ID who created a buffer document.

- **Document Type** - Specifies the type of the document: **Sales** or **Purchase**.

- **IIC Document Type** - Specifies the type of the IIC message. It can be: **Purchase Document**, **Shipment Notification**, **Invoice**, **Cr. Memo** or **Return Receipt**.

- **Standalone Invoice** - Specifies that the document is a standalone invoice document (see Standalone Invoice for more details).

- **Standalone Credit Memo** - Specifies that the document is a standalone credit memo document (see Standalone Credit Memo for more details).

- **IIC Pre-Invoice** - Specifies that the document is a pre-invoice document (see Pre-Invoicing and Returns Pre-Invoicing for details).

- **IIC Action** - Specifies an action that will be run when the buffer document is accepted.

- **Own Document Exists** - Specifies, if the document is a confirmation or update to the document that already exists.

- **Own Document Type** - Specifies a document type, if an own document exists.

- **Own Document No.** - Specifies a document number, if an own document exists.

- **Local Assigned User ID** - Specifies a user's ID assigned to the document when a local document exists.

- **Vendor Order No.** - Specifies a sales order number from the intercompany vendor.

- **Vendor Shipment No.** - Specifies a sales shipment number from the intercompany vendor.

- **Return Receipt No.** - Specifies a return receipt number from the intercompany vendor.

- **Vendor Invoice No.** - Specifies a sales invoice number from the intercompany vendor.

- **Vendor Cr. Memo No.** - Specifies a sales credit memo number from the intercompany vendor.

- **Order Date** - Specifies a date of the intercompany order.

- **Buy-from Vendor No.** - Specifies an intercompany vendor number.

- **Vendor End Customer No.** - Specifies the end customer number in a drop shipment return process used by the intercompany vendor.

- **Vendor End Customer Name** - Specifies the end customer name in a drop shipment return process used by the intercompany vendor.

- **Matched End Customer No.** - Specifies the end customer number in a drop shipment return process at the local, if matched based on the **Vendor End Customer No.** or **Vendor End Customer Name** fields.

- **No. of Information** - Specifies the number of differences of field values registered when exchanging the messages marked as the **Information** in the **Track Difference** field in **IIC Complex Message Template Fields** setting.

- **No. of Warnings** - Specifies a number of differences of field values registered when exchanging the messages marked as the **Warning** in **Track Difference** field in **IIC Complex Message Template Fields** setting.

- **No. of Errors** - Specifies a number of differences of field values registered when exchanging the messages marked as the **Error** in **Track Difference** field in **IIC Complex Message Template Fields** setting.

- **No. of Differences** - Specifies a total number of differences of field values registered when exchanging the messages (a sum of all information, warnings and errors)

Validating a Document in the Buffer

Every buffer document must be validated by using the **Validate** function.

During the validation, the application searches for a customer or vendor which is assigned to the endpoint from which the message has been sent. Moreover, it also:

- verifies, if there are no errors or missing data.

- tries to match an end customer information, provided by the intercompany partner, with a local data. For details, read Drop Shipment Return to Seller.

- applies mappings, if they were defined. For details, read Type & No. Mapping.

- verifies, if there are defined item references that can be applied.

After the buffer validation, the following fields will be updated:

- **No. of Information** - This is an informational field, with no further impact on the process.

- **No. of Warnings** - If there are any warnings, the confirmation dialog will pop up during the manual processing of the buffer before the document acceptance.

- **No. of Errors** - If there are any errors, it will not be possible to accept the buffer document. The user would need to resolve all the errors and use validate action again to proceed.

> **❶ NOTE**
>
> Line creation or deletion is always registered as a warning in the buffer during validation.

Accepting a Document in the Buffer

When there are no errors, the buffer document should be accepted by using the **Accept** action. It performs an action, depending on a document type, for example, creating a new order, updating an existing document or posting an invoice.

After the document is accepted, a **DOCUMENTHISTORY** message is created and automatically sent to an intercompany partner.

Rejecting a Document in a Buffer

If the document must be changed or corrected, it can be rejected. Before the rejection process could start, the **Rejection Reason** field must be filled in the **General** FastTab. After that the **Reject** action can be used.

It will create a special **DOCUMENTHISTORY** message. When received, it will create a special buffer document to show the rejection reason.

Moreover, users can be notified via e-mail about the rejection. A notification can be sent, if the **Notifications E-mail Address** field is filled on the **IIC Setup** page.

Sales Documents

One of the message types that can be sent by using the Advanced Intercompany application is a sales document message. The sales document message is a type of a template that is used to exchange data between intercompany partners. By using this message template, we can send various sales documents: a sales quote, a sales order, a sales return order, a sales invoice or a sales credit memo.

Sending Sales Documents

Sales documents can be sent manually by using the **IIC Send** action on the **Sales Document** page or automatically - with a job queue. For details, read Job Queue Automation. When the sales document is sent, it is placed in the IC partner company in the IIC purchase buffer. After the Document Buffer Validation, a new document is created on the partner side or an existing document update is performed.

> **ℹ NOTE**
>
> The **SALES** message type consists of a a sales header, sales line and sales comment line. For details, read IIC Message Template. The message can be adapted to your needs by using the **Reopen** action and modifying the template structure. The template with default fields is created using the **IIC Initialize** action on the **IIC Setup** page.

Purchase Documents

One of the message types that can be sent by using the Advanced Intercompany application is a purchase document message. The purchase document message is a type of a template that is used to exchange data between intercompany partners. By using this message template, we can send various purchase documents: a purchase quote, purchase order, purchase return order, purchase invoice or purchase credit memo.

Sending Purchase Documents

A purchase document can be sent manually by using the **IIC Send** action on the **Purchase Document** page or automatically - with a job queue. For details, read Job Queue Automation. When the purchase document is sent, it is registered in the IIC sales buffer the IC partner company. After the buffered document is validated a new document is created on the partner side or an existing document is updated. For details, read Document Buffer Validation.

> **ⓘ NOTE**
>
> The **PURCHASE** message type consists of a purchase header, purchase line and purchase comment line. For details, read IIC Message Template. You can adapt the message to your needs by using the **Reopen** action and modifying the template structure. To create a template with default fields, use the **IIC Initialize** action on the **IIC Setup** page.

Shipment Notifications

One of the documents that can be sent by using the Advanced Intercompany application is a sales shipment. Sending such a document will generate a dedicated message sent to the intercompany partner with the information about the shipped quantity, shipment document numbers as well as item tracking lines (optionally).

Sending a Shipment Notification

A sales shipment document can be sent manually by using the **IIC Send** action on the **Posted Sales Shipment** page or automatically - with a job queue. For details, read Job Queue Automation. When the posted sales shipment is sent, it is placed in the IC partner company in the IIC purchase buffer with the **Shipment Notification** type.

> ☞ **IMPORTANT**
>
> When the shipment notification is accepted, there are no automatic postings. A purchase receipt should be posted manually when the goods physically arrive at the warehouse. If the warehouse receipt is required for a location, it will be created automatically.

> ❶ **NOTE**
>
> The exception is the drop shipment process when the technical receipt and shipment between the purchase order to the IC partner and the sales order to the final customer is posted but only when the **Auto Post Drop Shipment Receipts** field is selected on the **IIC Setup** page.

A shipment notification is the message that informs the user that the goods have been sent from the SELLER company and are already in transit. When the shipment notification is accepted, the system creates an entry in the **IIC Order Dispatch Entry** table. It also provides information about the package tracking number.

Moreover, two new fields available on the **Purchase Order Lines** page allow users to track the shipped quantities:

- **IIC Shipment Status**
- **IIC Shipped Qty. (Base)**

Synchronizing Item Tracking Lines

A shipment notification message in the Advanced Intercompany application can also synchronize item tracking lines. Item tracking lines are synchronized when sending the shipment notification, if the **Synchronize Item Tracking** field is selected on the **IIC Setup** page in both SELLER and BUYER companies. The user will see that item tracking lines have been synchronized in the purchase buffer document line in the **No. of Tracking Lines** FlowField. Once the purchase document buffer is accepted, the item tracking lines will be added to the purchase order line.

Sales Invoice Confirmation

A sales invoice confirmation can be also sent by using the Advanced Intercompany application. Sending such a document will generate a dedicated message that contains information about the invoiced quantity. The message is sent to the IC partner, and as a result the invoice is created for a relevant purchase order document.

Sending a Sales Invoice Confirmation

A posted sales invoice can be sent manually by using the **IIC Send** action on the **Posted Sales Invoice** page or automatically - with a job queue. For details, read Job Queue Automation. When the posted sales invoice is sent, it is registered with the **Invoice** type in the IIC purchase buffer in the IC partner company . After the buffered message is accepted, the application searches for the source purchase order and:

1. Verifies, if the quantity received is sufficient to perform the posting procedure.
2. Sets the **Qty. to Invoice** field value to 0 in all purchase order lines.
3. Fills in the **Qty. to Invoice** field in the received lines only.
4. Updates the **Vendor Invoice No.** field.
5. Posts the purchase order.

If the posting process fails, the data is not changed as all the above steps are carried out in one transaction.

> **ⓘ NOTE**
>
> Sending and processing invoices is optional. Invoicing can be also done manually, independently from the intercompany process.

Return Shipment Notifications

One of the document types that can be sent by using the Advanced Intercompany application is a return shipment. Sending such a document will generate a dedicated message sent to the IC partner with the information about the returned quantity, return shipment document numbers as well as item tracking lines (optionally).

Sending a Return Shipment Notification

A purchase return shipment document can be sent manually by using the **IIC Send** action on the **Posted Purchase Shipment** page or automatically - with a job queue. For details, read Job Queue Automation. When the posted purchase return shipment is sent, it is placed in the IC partner company in the IIC purchase buffer with the **Return Shipment** type.

> 👉 **IMPORTANT**
>
> When the return shipment notification is accepted, there are no automatic postings. A sales return receipt should be posted manually when the goods physically arrive at the warehouse. If the warehouse receipt is required for a location, it will be created automatically.

The return shipment notification is the message that informs the user that the goods have been sent from the BUYER company and they are already in transit. When the return shipment notification is accepted, the system creates an entry in the **IIC Order Dispatch Entry** table. It also provides information about the package tracking number.

Moreover, two new fields available on the **Purchase Return Order Lines** page allow users to track the shipped quantities:

- **IIC Shipment Status**
- **IIC Shipped Qty. (Base)**

Synchronizing Item Tracking Lines

A return shipment notification message in the Advanced Intercompany application can also synchronize item tracking lines. Item tracking lines are synchronized when sending the return shipment notification, if the **Synchronize Item Tracking** field is selected on the **IIC Setup** page on both SELLER and BUYER sides. The user will see that item tracking lines have been synchronized in the sales buffer document line in the **No. of Tracking Lines** FlowField. Once the sales document buffer is accepted, the item tracking lines will be added to the sales return order line.

Return Receipt Notifications

One of the documents that can be sent by using the Advanced Intercompany application is a return receipt. Sending such a document will generate a dedicated message sent to the IC partner with the information about the received return quantity, return shipment document numbers as well as item tracking lines (optionally).

Sending a Return Receipt Notification

A sales return receipt document can be sent manually by using the **IIC Send** action on the **Posted Sales Shipments** page or automatically - with a job queue. For details, read Job Queue Automation. When the posted sales return receipt is sent, it is placed in the IC partner company in the IIC purchase buffer with the **Return Receipt** type.

> ☞ **IMPORTANT**
>
> When a return receipt notification is accepted, there can be automatic postings on the purchase return order and the corresponding sales return order to the final customer, if the **Auto Post Drop Shipment Return Receipts** field is selected on the IIC Setup page. The automatic posting on the corresponding sales return order to the final customer is also possible when manually posting the return shipment from the purchase return order.

A return receipt notification is the message that informs the user that the goods have been received by the SELLER company. When the return receipt notification is accepted, the system creates an entry in the **IIC Order Dispatch Entry** table. It also provides information about the package tracking number.

Moreover, two new fields available on the **Purchase Return Order Lines** page allow users to track the shipped quantities:

- **IIC Shipment Status**
- **IIC Shipped Qty. (Base)**

Synchronizing Item Tracking Lines

A return shipment notification message in the Advanced Intercompany application can also synchronize item tracking lines. Item tracking lines are synchronized when sending the return shipment notification, if the **Synchronize Item Tracking** field is selected on the **IIC Setup** page on both the SELLER and BUYER sides. The user will see that item tracking lines will be synchronized in the sales buffer document line in the **No. of Tracking Lines** FlowField. Once the sales document buffer is accepted, the item tracking lines will be added to the sales return order line.

Sales Credit Memo Confirmation

A sales credit memo confirmation also can be sent using the Advanced Intercompany application. If such a document is sent, a dedicated message is created and sent to the IC partner with the information about the invoiced quantity. As the result, such a message will provide invoice details for the purchase return order document.

Sending Sales Credit Memo Confirmation

A posted sales credit memo can be sent manually by using the **IIC Send** action on the **Posted Sales Credit Memo** page or automatically - with a job queue. For details, read Job Queue Automation

When the posted sales credit memo is sent, it is placed in the IC partner company in the IIC purchase buffer with the **Credit Memo** type. After the buffered message is accepted, the application searches for the source purchase return order and:

1. Verifies, if there is enough return shipped quantity to perform the posting processs.
2. Nullifies the **Qty. to Invoice** field in all purchase return order lines.
3. Fills in the **Qty. to Invoice** field in the received lines only.
4. Updates the **Vendor Cr. Memo No.** field.
5. Posts the purchase return order.

If the posting process fails, the data will not be changed as all the above steps are carried out in one transaction.

> **❶ NOTE**
>
> Sending and processing the credit memo is optional. Invoicing can also be done manually, independently from the intercompany process.

Setup and Configuration

In this article, you can learn how to configure the Advanced Intercompany application. You will find out the details about the impact of settings on different processes with the strong focus on the technical side of the application.

TO	SEE
Learn about the onboarding experience	Onboarding Experience
Configure the application and initialize the default settings	IIC Setup
Learn how to publish IIC web services	Web Services
Set up remote endpoints for intercompany partners	Endpoints
Find out what the meaning and impact of IIC statuses is	IIC Status Codes
Discover what fields are exchanged between companies and how the setup can be adjusted	IIC Message Template
Learn how to prepare different kinds of data mappings	IIC Data Mapping
Understand the types of exchanged messages	IIC Message Type
Find out where to search for the message pending to be send and verify the history of the processes messages	IIC Messages
Learn how to extend the Advanced Intercompany application by using exposed publishers	Event Subscriptions
Automate the data flow by using job queues	Job Queue Automation
Learn how to set up Microsoft Entra authentication	Microsoft Entra Authentication Setup

IIC Onboarding Experience

The following articles provide information about the onboarding experience components that have been incorporated into Advanced Intercompany to assist users in starting their journey with the application.

TO	SEE
Go through the IIC checklist	IIC Checklist
Create an own endpoint for the current company	Own Endpoint Assisted Setup
Create an endpoint for the intercompany partner	Partner Endpoint Assisted Setup
Initialize default settings and configure the application	Advanced Intercompany Assisted Setup

IIC Checklist

Advanced Intercompany includes an onboarding checklist designed to provide users with a comprehensive overview of the onboarding process. This checklist enables users to configure and navigate through the application at their own pace, following predefined configuration steps and teaching tips.

To get started with the checklist:

1. Choose the **Settings** icon, select the **My Settings** action and select **IIC Manager** as a value in the **Role** field.

2. On the **IIC Manager** role center page, select the **Get Started** action on the welcome banner to open the onboarding checklist.

3. Explore the application by using the checklist steps and teaching tips that will be displayed after you open consecutive pages.

Own Endpoint Assisted Setup

The own endpoint assisted setup is specifically designed to assist IIC administrators in configuring the endpoint for the current company. By using the own endpoint assisted setup, IIC administrators can easily create the endpoint card with all the essential information, such as name, authentication method and credentials.

To get started with the own endpoint assisted setup:

1. Choose the ⊙ icon, enter **Assisted Setup**, and then select a related link.
2. On the **Assisted Setup** page, find the **Get ready for Advanced Intercompany** group and use the **Own Endpoint Assisted Setup**.

Partner Endpoint Assisted Setup

The partner endpoint assisted setup is specifically designed to assist IIC administrators in configuring the endpoint for the intercompany partner companies. By using the partner endpoint assisted setup, IIC administrators can easily create the endpoint card with all the essential information, such as name, authentication method and credentials.

To get started with the partner endpoint assisted setup:

1. Choose the icon, enter **Assisted Setup**, and then select a related link.
2. On the **Assisted Setup** page, find the **Get ready for Advanced Intercompany** group and use the **Partner Endpoint Assisted Setup**.

Advanced Intercompany Assisted Setup

The Advanced Intercompany Assisted Setup is specifically designed to assist IIC administrators in configuring the application. By using the Advanced Intercompany Assisted Setup, IIC administrators can easily verify if endpoints are configured correctly, initialize default settings and synchronize setup with the intercompany partner instead of making the same manual changes in each endpoint.

To get started with the Advanced Intercompany Assisted Setup:

1. Choose the icon, enter **Assisted Setup**, and then select a related link.
2. On the **Assisted Setup** page, find the **Get ready for Advanced Intercompany** group and use the **Advanced Intercompany Assisted Setup**.

IIC Setup

To exchange purchase and sales documents between companies, it is necessary to define appropriate settings in Advanced Intercompany on the **IIC Setup** page. This article explains the importance of the setup fields used within the application.

Generating Default Settings Automatically

The default IIC settings are created during the application installation for each company.

Updating Settings

To update the default template settings:

1. Choose the 🔍 icon, enter **IIC Setup**, and then select a related link.
2. On the **IIC Setup** page, use the **Update Settings** action. Hover over a field to read a short description.

> ☞ **IMPORTANT**
>
> This action should be run after upgrading Advanced Intercompany when the message type format is changed or when some settings are missing and need to be initialized. Using this action affects web service communication and requires endpoint synchronization. Therefore, it is not executed automatically during the application upgrade but needs to be run manually by the system administrator. See our release notes to find out if an update is required.

General

If needed, verify and update the fields from the **General** FastTab on the **IIC Setup** page:

- **Own Endpoint No.** - Specifies an IIC endpoint no. of the current company. This value will be used to identify a sender for the outgoing IIC messages.

- **Synchronize Item Tracking** - Specifies whether item tracking lines should be sent with shipment notifications and added to the purchase document when accepting the shipment notification buffer message. (For more information, see Shipment Notification)

Standalone Invoices

If needed, verify and update the fields from the **Standalone Invoices** FastTab on the **IIC Setup** page: If needed, verify and update the fields from the **Standalone Invoices** FastTab on the **IIC Setup** page:

- **Auto Release Standalone Invoices** - Specifies that a standalone purchase invoice will be released automatically after creation, when selected. (See more Standalone Invoices).
- **Auto Release Standalone Credit Memo** - Specifies that a standalone sales credit memo will be released automatically after creation, when selected. (See more Standalone Credit Memo).

Pre-Invoice

If needed, verify and update the fields from the **Pre-Invoice** FastTab on the **IIC Setup** page:

- **Pre-Invoice Enabled** - Specifies whether the pre-invoice functionality is enabled.

- **Pre-Invoice Location Code** - Specifies a location to which pre-invoiced items will be received.

- **Auto Post Transfer Shipment** - Specifies whether a pre-invoice transfer order shipment should be posted automatically.

- **Skip Delete Warehouse Receipt Confirmation** - When selected, setting up a pre-invoice in the purchase buffer will delete connected warehouse receipts without displaying the confirmation dialog.

- **Combined Pre-Invoice Transfer** - When selected, if the invoice is combined from multiple shipments, the system will try to combine the transfer as well.

- **Default Pre-Invoice Posting Date** - Specifies which date must be used as the default pre-invoice posting date on purchase documents.

- **Default Returns Pre-Invoice Posting Date** - Specifies which date must be used as the default pre-invoice posting date on sales documents.

For more information, see Pre-invoice and Returns Pre-Invoicing.

Drop Shipment

If needed, verify and update the fields from the **Drop Shipment** FastTab on the **IIC Setup** page:

Process

- **Auto Release Purchase Order** - Specifies that a purchase order will be released automatically after creation by using the **Create Drop Shipment Purch. Order** action, when selected.

- **Auto Post Drop Shipment Receipts** - Specifies that if a shipment notification message is accepted in the purchase buffer, the system will automatically post a purchase receipt for the purchase order, when selected.

> **❶ NOTE**
>
> This will automatically post connected drop shipment sales order lines.

- **Auto Post Drop Shipment Invoices** - Specifies whether an invoice to an end customer will be automatically posted when processing a purchase buffer document.

Return Process

- **Auto Release Purchase Return Order** - Specifies that a purchase return order will be released automatically after using the **Create Drop Shipment Purch. Return Order** action, when selected.

- **Auto Post Drop Shipment Return Receipts** - Specifies that if a return receipt notification message is accepted in the purchase buffer, the system will automatically post a return shipment for the purchase return order, when selected.

> **❶ NOTE**
>
> This will automatically post connected drop shipment sales return order lines.

- **Auto Create Sales Return Order** - Specifies whether a new sales return order should be created after accepting the purchase buffer document when a vendor company initialized the drop shipment return process.

- **Auto Release Sales Return Order** - Specifies whether a new sales return order should be released automatically after using the **Create Drop Shipment Sales Return Order** action.

- **Auto Post Drop Shipment Credit Memos** - Specifies whether a credit memo to an end customer will be automatically posted when processing a purchase buffer document.

Documents Automation

If needed, verify and update the fields from the **Documents Automation** FastTab on the **Documents & Buffer Automation** page. To open the **Documents & Buffer Automation** page:

1. Choose the 🔍 icon, enter **IIC Setup**, and then select a related link.
2. On the **IIC Setup** page, use the **Documents & Buffer Automation** action. Hover over an action to read a short description.

Documents Processing

- **Set Status to Outbound on Document Release** - Specifies that the **IIC Status** field will be set to Outbound after releasing the IIC purchase order or the IIC sales order, when selected. It will result in creating the outbound IIC message.

- **Auto Release New Sales Document** - Specifies whether the new sales document created from the sales buffer document should be automatically released. This option is very useful when the document confirmation of the intercompany partner is not required.

- **Auto Release New Purchase Document** - Specifies whether the new purchase document created from the purchase buffer document should be automatically released. This option is very useful when the document confirmation of the intercompany partner is not required.

Messages

- **Default Job Queue Category Code** - Specifies the job queue category code which will be applied to job queue entries created by the **Automate with Job Queue...** action.

- **Send Outbound Messages on IIC Send** - Specifies whether the **Send Outbound Messages** report, which is responsible for sending all pending IIC messages, will be executed automatically right after using the **IIC Send** action from the document level. The report will be executed in the user's session.

Auto Send

The application can send sales and purchase documents automatically when the following fields are set:

- **Auto Send Posted S. Shipment**
- **Auto Send Posted S. Invoice**
- **Auto Send Posted S. Cr. Memo**
- **Auto Send Posted Return Rcpt.**
- **Auto Send Posted Return Shpt**

The period for which the documents should be sent can be limited by the following fields:

- **Auto Send Posted S.Shipment Period** – Specifies a date formula to calculate the date from which the posted sales shipments should be sent.
- **Auto Send Posted S.Invoice Period** – Specifies a date formula to calculate the date from which the posted sales invoices should be sent.
- **Auto Send Posted S. Cr. Memo Period** – Specifies a date formula to calculate the date from which the posted sales credit memo should be sent.
- **Auto Send Posted Return Receipt Period** – Specifies a date formula to calculate the date from which the posted sales return receipt should be sent.
- **Auto Send Posted Return Shipment Period** – Specifies a date formula to calculate the date from which the posted

purchase return shipment should be sent.

Buffer Automation

If needed, verify and update the fields from the **Buffer Automation** FastTab on the **Documents & Buffer Automation** page. To open the **Documents & Buffer Automation** page:

1. Choose the 🔍 icon, enter **IIC Setup**, and then select a related link.
2. On the **IIC Setup** page, use the **Documents & Buffer Automation** action. Hover over an action to read a short description.

The system can automatically validate or validate and accept all inbound confirmations/new documents/posted documents as long as there are no differences identified between the original document and the received one. Different processes can be automated by using the following settings:

- **Auto Process Purchase Conf.**

- **Auto Process New Purch. Doc.**

- **Auto Process New Sales Doc.**

- **Auto Process Sales Conf.**

- **Auto Process Shipment Not.**

- **Auto Process Invoice**

- **Auto Process Cr. Memo**

- **Auto Process Return Receipt**

- **Auto Process Return Shipment**

- **Auto Process Warnings** - When selected, warnings will not prevent the automatic processing of buffer messages.

Advanced

If needed, verify and update the fields from the **Advanced** FastTab on the **IIC Setup** page.

Buffer

- **Check Dates on Buffer Validate** - When selected, during buffer document validation, the system will display a warning message whenever any of the following dates is earlier than the work date:

  - for sales documents: **Requested Delivery Date**, **Promised Delivery Date**, **Planned Delivery Date**, **Planned**

Shipment Date.

- for purchase documents: **Requested Receipt Date**, **Planned Receipt Date**, **Promised Receipt Date**.

- **Block Posting Purchase/Sales while Documents in Buffer** - When selected, posting of purchase documents is blocked until there are documents in the buffer. Posting a purchase receipt is allowed when there are only buffer documents of the **Invoice** type.

- **Skip Approval when Accepting Buffer** - Specifies that the approval process will be skipped for documents reopened during the buffer acceptance, when selected.

- **Remove Cancel Document Buffer Messages** - When selected, cancelled document buffer messages will be automatically removed from the purchase/sales buffer after running the **IIC Cancel** action.

- **Log Entries** - Specifies whether the system should create IIC log entries every time a significant action takes place (e.g. buffer document is accepted).

- **Default Combined Invoice\Cr.Memo Action** - Specifies whether accepting a combined invoice/credit memo buffer document should post or create a purchase invoice/credit memo. (For more information, see Combined Invoice and Combined Credit Memo).

Item Charge

- **Default UoM for Item Charge** - When validating an inbound document that contains a resource or G/L account line that is mapped to a local Charge (Item) line, a default unit of measure code can be used for such a line.

- **Auto Assign New Charge (Item) Lines** - Specifies whether and how purchase item charges mapped from resources should be assigned to the purchase document line. Possible options are **Equal** or **Amount**.

Notifications

- **Notifications E-mail Address** - Specifies an e-mail address that will be used for sending notifications. Notifications can be sent when a document is rejected. At least one e-mail account must exist.

- **Notifications E-mail Sender Address** - Specifies an e-mail sender address from which the notification will be sent.

- **Notifications E-mail Sender Name** - Specifies an e-mail sender name that will be used in notifications.

- **Notification Failed Error** - Specifies that the notification failure will break further processing, if selected.

Messages

- **Compress Messages** - Specifies whether IIC messages that are being exchanged via web services will be compressed prior to the transmission. This setting is **highly recommended**, as large documents can easily exceed the limit allowed for HTTP messages in the Business Central web service.

Documents

- **Ship-to Address Change Requires Reopen** - When selected, for IIC sales documents, it will be necessary to reopen the document before making changes to fields from the **Ship-to** group (**Ship-to Code**, **Ship-to Name**, etc.)

Web Services Setup

Advanced Intercompany uses web services for communication between intercompany partners.

Codeunit 20020752 IIC Web Service must be set up as a web service in all companies using the application. The service name must be exactly **IICWebService**.

> ☞ **IMPORTANT**
>
> Codeunit 20020752 IIC Web Service is published automatically when installing the application.

The SOAP address of the published web service needs to be used for the **IIC Endpoint** page settings.

Endpoints

The IIC endpoint is basically a remote IC partner to which the data will be sent. It can be located in the same database, different server, or even on a different tenant. To exchange the documents between different companies, in each company the endpoint must be configured.

Setting up an Endpoint

To set up a new endpoint:

1. Choose the ⊙ icon, enter **Endpoints**, and then select a related link.
2. Fill in the following fields:

General

Update the fields from the **General** FastTab on the **IIC Endpoint** page:

- **No.** - Specifies an endpoint name.

- **Description** - Specifies an endpoint description.

- **Customer No.** - Specifies a customer number to which the endpoint is assigned.

- **Vendor No.** - Specifies a vendor number to which the endpoint is assigned.

- **LCY Code** - Specifies the LCY used by the endpoint.

Web Service

Update the fields from the **Web Service** FastTab on the **IIC Endpoint** page:

- **Web Service Protocol** - Specifies the web service protocol. Possible options are: SOAP, ODataV4.

- **Web Services Address** - Specifies the web service address. The web service named IICWebService is published automatically. Its details can be found on the Web Services list in the partner company. Example address below: http://arche.integro.pl:7047/IC_DEV/WS/CRONUS%20International%20Ltd/Codeunit/IICWebService.

> The address contains: The address contains: **http(s)://<server name\>:\<port number\>/\<BC instance\>/\<BC company name\>/Codeunit/IICWebService**

> ❶ **TIP**
>
> You can check a default web service address when setting up web services. Please remember that on the **Web Services** page, BC will display the default web services address for the current instance. If you have set up your environment with different BC services for client connections and web service connections, you will need to adjust this address accordingly.

> ❶ **NOTE**
>
> The SOAP web service address must match the following pattern for MS Dynamics 365 Business Central on-prem partner:
>
> **http(s)://<SERVER>:<NUMERIC_PORT>/<INSTANCE>/WS/<COMPANY NAME>/Codeunit/IICWebService**

- **Authentication Type** - **Basic** or **Microsoft Entra**, depending on the remote endpoint configuration, the next fields visibility will change depending on the selected option.

> **ℹ NOTE**
>
> When **Basic** is selected, web service calls use the **Basic** authentication, so BC instance must be set to accept the **NAVUserPassword** type. When **Microsoft Entra** is selected, the **Microsoft Entra** authentication must be active. Application registration must be configured. For details, read **Microsoft Entra Authentication Setup**.

- **Web Services Username** - Specifies a user account that will be used for Basic BC authentication. This should be a separate domain user.

- **Web Services Password** - Specifies a user password or **Web Services Access Key** from the **User Card** page.

- **Tenant ID** - Specifies a tenant ID where the login and access is managed.

- **Client ID** - Specifies an application Registration client ID.

- **Client Secret** - Specifies a secret created for the application registration.

> **ℹ NOTE**
>
> Your own endpoints must be created alongside with partner endpoints.

Other

Update the fields from the **Other** FastTab on the **IIC Endpoint** page:

- **Combined Invoice Action** - Specifies what should happen when accepting a combined invoice buffer document.

- **Combined Credit Memo Action** - Specifies what should happen when accepting a combined credit memo buffer document.

- **Target Mapping Code** - Specifies the code of the data mapping template that should be used in a communication with the endpoint. For more information, see IIC Data Mapping.

Synchronizing Remote Endpoints

It is possible to synchronize the settings between endpoints. The setup should be consistent, so it is recommended to synchronize the settings instead of making the same manual changes in each endpoint. For details, see Synchronize Remote Endpoints.

Updating Endpoint Number on the Vendor Card

There are two ways to mark a vendor as the IC partner. First way is to:

1. Select the **Assign Endpoint To...** action, choose **Vendor**, and then select **OK**.
2. Select a vendor from the open page.

Second way is to:

1. Choose the 🔍 icon, enter **Vendors**, and then select a related link.
2. Open the vendor card, fill in the **IIC Endpoint No.** field on the **Address & Contact** FastTab.

Updating Endpoint Number on the Customer Card

There are two ways to mark a customer as the IC partner: First way is to:

1. Select the **Assign Endpoint To...** action, choose **Customer**, and then select **OK**.
2. Select a customer from the open page.

Second way is to:

1. Choose the 🔍 icon, enter **Customers**, and then select a related link.
2. Open the customer card, fill in the **IIC Endpoint No.** field on the **Address & Contact** FastTab.

IIC Status Codes

When negotiating conditions for orders, the user is informed about the current intercompany document status with the **IIC Status Code** field. The IIC status code is available on both purchase and sales documents. The current document status is calculated based on the IIC document log entries. Statuses can also limit user permissions at different steps of the intercompany process.

Setting up Status Codes

1. Choose the 🔍 icon, enter **IIC Status Codes**, and then select a related link.
2. On the **Status Codes** page, fill in the following fields:
   - **Code** - Specifies a code of the status code.
   - **Description** - Specifies a description of the status code.
   - **Block Release** - Specifies that releasing a document will be blocked.
   - **Block Reopen** - Specifies that reopening a document will be blocked.
   - **Block IIC Send** - Specifies that sending a document to the IIC partner will not be allowed.
   - **Block Posting** - Specifies that posting of the document will be blocked.
   - **Block Add Lines** - Specifies that adding new lines to a document will not be allowed.
   - **Block Delete Lines** - Specifies that deleting document lines will not be allowed.
   - **System Generated** - Specifies whether the status code settings are system-generated or if any modifications have been made.

Default Status Codes

Default values are initiated with the **IIC Initialize** action available on the **IIC Setup** page.

- **ACCEPTED** (sales & purchase documents) - Specifies that a document has been accepted in the buffer in the IIC partner company. A new purchase/sales order has been created, however it has not been confirmed yet.

- **CANCELLED** (sales & purchase documents) - Specifies that a document has been cancelled and it will not be included in the IIC document flow.

- **CLOSED** (sales & purchase documents) - Specifies that a document has been fully invoiced (does not exist anymore) in the IIC partner company.

- **CONFIRMED** (sales & purchase documents) - Specifies that a document has been confirmed. A purchase or sales order has been approved and released in the IIC partner company.

- **NEW** (sales & purchase documents) - Specifies that a new document has been received (it has the ACCEPTED status in the IIC partner company).

- **OPEN** (sales & purchase documents) - Specifies that a document has been reopened locally.

- **OPEN AT ENDPOINT** (sales & purchase documents) - Specifies that a document has been reopened in the IIC partner company.

- **OUTBOUND** (sales & purchase documents) - Specifies that a document has been queued for sending and should be sent soon.

- **REJECTED** (sales & purchase documents) - Specifies that a document has been rejected in the IIC partner company.

- **SENT** (sales & purchase documents) - Specifies that a document has been sent and awaits the confirmation.

- **STANDALONE** (invoice) - That is a special status used only for standalone invoices.

☞ IMPORTANT

Status codes can be assigned to document statuses on the **IIC Setup** page.

☞ IMPORTANT

The IIC Status Codes settings generated by the system through the **IIC Initialize** action are recommended for optimal application performance. While modifications to these statuses are possible, they may lead to unforeseen issues within the IIC document flow. To prevent potential complications, exercise caution when altering status configurations. However, it is possible to restore the default status settings by using the **Restore Default Settings** action on the **IIC Status Codes** page.

Message Templates

The **IIC Message Template** tables contain definitions of data that is sent with the IIC message. It can be either a simple flat structure (only a few fields) or a complex structure (multi-level structure).

IIC Simple Message Templates

1. Choose the 🔍 icon, enter **IIC Simple Message Template List**, and then select a related link.
2. On the **IIC Simple Message Template List** page, create a new record and fill in the **Code** and the **Name** fields.
3. Use the **Edit** action to open the **IIC Simple Message Template** page.
4. The following fields are available on the **General** FastTab:

- **Buffered** - Specifies whether the IIC message will be buffered. Buffered IIC messages, after they are received, are de-composed in and internal IIC table, so their content can be easily accessed by various processing tasks. For simple messages, it is recommended to select: **No**.

- **Last Date Modified** - Specifies the date and time of the latest modification of the message template.

- **Status** - Specifies the status of the message as **Open** or **Released**. The user cannot make any changes to the message template once it has been released. The status can be changed by using the **Reopen** or **Release** action on the **IIC Simple Message Template** page.

5. The following fields are available in lines:

- **Line No.** - Specifies the line number of IIC simple message template.
- **Code** - Specifies the identifier of a simple message line.

6. Simple messages should contain only one line behind this line. To check which fields are included in the simple message, use the **Show Fields** action on the **Line** group. The following fields are available in the **IIC Message Template Fields** table:

- **Processing Order** - Specifies the sequence number.
- **Code** - Specifies the code of the field.
- **Field Type** - Specifies the type of the field.

> ℹ **NOTE**
>
> The purpose of the simple message template is to provide an easy framework for creating your own messages that are usually not related to any document and contain only a few simple fields.

IIC Complex Message Templates

Complex message templates contain a definition of document-like structures. The structure of a header for the complex message is similar to a simple messages. Only the administrator set as **IIC Super User** can change lines definitions.

IIC Complex Message Template Lines

Following fields are available in complex message lines:

- **Level** - Specifies the level of the line. It is greater than 0 for indented lines. You can adjust line indentation by using **Increase Indent** and **Decrease Indent** functions.

- **Parent Line No.** - Specifies the number of the parent line that is automatically calculated for indented lines.

- **Line No.** - Specifies the number of the line.

- **Code** - Specifies the code of the line.

- **Source Table No.** - Specifies the number of the table from which the data will be entered. For example, for a header line for the message template: 36 (Sales Header).

- **Source Table Name** - Specifies the table name used in the current company.

- **Target Table No.** - Specifies the number of the table into which the data will be imported. For example, for a sales order: 20020756 (IIC Purchase Header Buffer), as the outgoing sales order will be imported as the purchase document in an IIC partner company.

- **Target Table Name** - Specifies the name of the buffer table in the IC partner company to which the data should be sent.

- **Additional Table No.** - Specifies the number of the table to which the data will be imported. Data from this table can also be included in the message and will be imported directly to the system which means skipping buffer validations.

- **Additional Table Name** - Specifies the name of the table in the IC partner company to which data should be moved after accepting the buffered document.

- **Generator Codeunit No.** - Specifies the codeunit which will fill in the data set programmatically. This field is useful when working with temporary tables, e.g. the **Tracking Specification** table.

- **Record Filter** - Specifies that the user can set a filter based on table records to exclude certain records from being exported. Records that do not meet the filter criteria will be excluded. The length of the filter is limited to 250 characters. If the filter is specified on level 0 (the document header), the whole document will be excluded from the AIC flow. If it is specified on a different level (the document line), only the line will be excluded.

> 👉 **IMPORTANT**
>
> During the upgrade from the application version lower than 3.2.1.0, if the **Record Filter** value was not a valid filter, it will be cleared.

> 👉 **IMPORTANT**
>
> The **Record Filter** value will not be sent to another company with the **Synchronize** action.

- **Overwrite if Exists** - Specifies that the already transmitted record will be overwritten, if it exists in the IIC partner company.

Source Link & Target Link

In order to maintain a link between indented tables, it is needed to set up source and target links. For this purpose, use the **Source Link** and **Target Link** functions. To create a new IIC message template line link:

1. On the **IIC Complex Message Template Lines** page use the **Show Source Link** (or **Show Target Link**) actions.
2. On the **IIC Message Template Line Link** fill in:
   - **Field No**. - Specifies the field number of the primary key of the indented table.
   - **Parent Field No.** - Specifies the field number of the primary key of the parent table.

Complex Message Template Fields

Open the **IIC Complex Message Template Fields** page by using the **Show Fields** action.

> **ℹ NOTE**
>
> Fields entered from default templates can be changed only by the IIC super user.

The following fields are available:

- **Message Template Field Type** - Specifies the type of the message field:

  - **Normal** - used for the regular fields;

  - **Constant** - used when a fixed value for a field needs to be transferred;

  - **IIC Message** - used for fields that should contain a field value entered from IIC message envelope;

  - **Additional** - used for additional fields, which will be transferred to the final table directly, without being stored in buffer tables.

- **Processing Order** - Specifies the order in which fields should be processed.

- **Track Difference** - Specifies what should happen, if received field values differ from the values found on the original document. If there is a difference, the **Track Difference** field indicates in which section (**Information**, **Warning** or **Error**) on the buffer document the difference should be registered.

- **Code** - Specifies the identifier of the field.

- **Source Table No.** - Specifies the number of the source table that is inherited from the message template line.

- **Source Field No.** - Specifies the field number in the source table.

- **Source Field Name** - Specifies the field name in the source table.

- **Mapping Code** - Specifies the mapping code which will be used for data mapping. For details, read Field Data Mappings.

- **Target Table No.** - Specifies the number of the target table that is inherited from the message template line.

- **Target Field No.** - Specifies the field number in the target table.

- **Target Field Name** - Specifies the field name in the target table.

- **Const. Field Value** - Specifies a fixed value of the filed. It can be used, if the **Message Template Field Type** field is set to **Constant**.

- **IIC Message Field No.** - Specifies the number of the IIC message field that you can select from the **IIC Message** table, if the **IIC Message Template Field Type** field is set to **IIC Message**.

- **Field Type** - Specifies the type of the field data.

- **Additional Table No.** - Specifies the number of an additional table that is entered automatically from the message template line.

- **Additional Field No.** - Specifies the number of a field in the additional table.

- **Additional Field Name** - Specifies the name of a field in the additional table.

- **Skip Target Template Transfer** - Specifies whether the template field should be transferred from a buffer table to a target table as specified in a message template.

Data Mapping

As the data between different companies may not be consistent, Advanced Intercompany provides different ways for setting up data mappings.

Currency Mapping

On each endpoint, it is mandatory to set up a local currency of the company.

1. Choose the 🔍 icon, enter **IIC Endpoint**, and then select a related link.
2. On the **IIC Endpoint** page, fill in the **LCY Code** field on the **General** FastTab.

> **ℹ NOTE**
>
> The setup must be consistent in endpoints in all companies that use Advanced Intercompany.

Type and Number Mapping

If the data is not consistent between the companies, the use of mappings may be needed. To set up type and number mappings:

1. Choose the 🔍 icon, enter **IIC Type & No. Inbound Mapping**, and then select a related link.

2. Create a new mapping by filling in the following fields:

   - **Endpoint No.** - Specifies the endpoint for which the mapping should be run.
   - **External Type** - Specifies the type from which the conversion will take place. Possible options are: Item, Fixed Asset, G/L Account, Charge (Item) or Resource.
   - **External No.** - Specifies the source number from which the conversion will take place. The source number depends on the value in the **External Type** field.
   - **Own Type** - Specifies the type to which the conversion will take place. Possible options are: Item, Fixed Asset, G/L Account, Charge (Item) or Resource.
   - **Own No.** - Specifies the source number to which the conversion will take place. The source depends on the value in the **Own Type** field.

> **ℹ NOTE**
>
> Type and number mappings are applied during the validation of a document in the buffer.

Field Data Mapping

The data mapping feature allows you to set up a data transformation for the fields exchanged with the IIC complex message templates. Data can be mapped independently for different types of messages and for different endpoints. It is possible to apply the mapping when sending the data (in the sending company) or before receiving the data (in the receiving company).

To set up field data mappings:

1. Choose the 🔍 icon, enter **IIC Data Mapping List**, and then select a related link.
2. Define a new IIC data mapping by filling in the following fields:
   - **Code**
   - **Name**

3. Open the **IIC Data Mapping Card** page with the **Edit** action.
4. Fill in the following fields on the **IIC Data Mapping Lines** page:
    - **Endpoint No.** - Specifies the IIC endpoint number for which the mapping should be applied.
    - **Own Value** - Specifies the own value that is used for the mapping.
    - **External Value** - Specifies the external value that is used for the mapping.
    - **Direction** - Specifies whether a mapping should apply for the outgoing or the incoming message.

> **ℹ NOTE**
>
> Depending on the **Direction** field value, the **Own Value** field option will be changed to the **External Value** field option for outgoing documents, or the **External Value** field option will be changed to the **Own Value** field option for incoming documents.

5. Assign your data mapping code in the **IIC Complex Message Template** field.

Target Mapping

The target data mapping feature allows you to set up data transformations for tables exchanged with IIC complex message templates. Data can be mapped independently for different types of messages and endpoints.

To set up table data mappings:

1. Choose the 🔍 icon, enter **Target Mapping List**, and then select a related link.
2. Define a new IIC target mapping by filling in the following fields:
    - **Code**
    - **Description**

3. Open the **IIC Target Mapping Lines** page with the **Lines** action.
4. Fill in the following fields on the **IIC Target Mapping Lines** page:
    - **Mapping Code** - Specifies the code of the target mapping template.
    - **New Target No.** - Specifies a new target table number to which the buffer document should be sent.
    - **New Additional No.** - Specifies a new table number to which the information from the buffer document that has been processed should go.

5. Assign your target mapping code on the **IIC Endpoint** page or on the **IIC Complex Message Template Subform** page.

IIC Message Types

Each message exchanged within Advanced Intercompany has its type. It is basically a connection between a document type, a message template and a processing codeunit. It is not recommended to make changes to this setup.

The default messages types are:

- **DOCUMENTHISTORY** - The message type used for a simple message that contains information about the current IIC document status.

- **PURCHASE** - The message type used for a purchase document.

- **SALES** - The message type used for a sales document.

- **SHIPMENT** - The message type used for a shipment notification.

- **INVOICE** - The message type used for a sales invoice confirmation.

- **CRMEMO** - The message type used for a sales credit memo document.

- **RETURNRCPT** - The message type used for a sales return receipt notification.

- **RETURNSHIP** - The message type used for a purchase return shipment notification.

> ℹ **NOTE**
>
> Each of the above message types needs to be set up in the **IIC Setup** table.

The following fields are available in the **IIC Message Type** table:

- **Message Template Code** - A reference to the **IIC Message Template** table. Specifies which IIC message template will be used to compose IIC messages that belong to the current type.

- **Codeunit No.** - Specifies a codeunit number that will be used for sending and processing IIC messages.

- **Process Immediately** - Specifies that a message will be processed automatically, as soon as it is received, when the field is selected.

- **Create Doc. Log Entry on Send** - Specifies that the **Document Log Entry** will be created as soon as the message is received. It is not recommended for the **DOCUMENTHISTORY** message type.

IIC Messages

Each message sent between companies is transferred via an entry in the **IIC Message** table. The following fields are available in the **IIC Message** table:

- **Message No.** - Specifies a current number of the message.

- **Message ID** - Specifies the unique ID of the message.

- **Document ID** - Specifies the unique ID of the document.

- **Direction** - Specifies the direction of the message for the company as **Inbound** or **Outbound**.

- **From** - Specifies a sender of the message.

- **To** - Specifies a receiver of the message.

- **Created Date/Time** - Specifies the date and time when the message entry was created.

- **Message Type** - Specifies the type of the message. It refers to the **IIC Message Type** table.

- **Sent** - Specifies whether the message was successfully sent.

- **Sent by User ID** - Specifies a user who is sending the message.

- **Sent Date/Time** - Specifies the date and time when the message was sent.

- **Received** - Specifies whether the message was successfully received.

- **Received by User ID** - Specifies a user who is receiving the message.

- **Received Date/Time** - Specifies the date and time when the message was received.

- **Confirm Processing** - Specifies whether a message needs the delivery confirmation.

- **Processed** - Specifies whether the message was successfully processed.

- **Processed by User ID** - Specifies a user who processed the message.

- **Processed Date/Time** - Specifies the date & time when the message was processed.

- **Buffered** - Specifies whether the message is buffered (an internal field).

- **Buffer Processed** - Specifies whether the buffered message has been processed.

- **Error** - The field is not used anymore.

- **Errors Count** - Specifies the sum of error entries.

- **Status Code** - It is an auxiliary field that specifies the current document status.

- **Compressed** - Specifies whether the message has been compressed.

The following actions are available on the **IIC Messages** page:

- **Send** - Specifies that a user is allowed to send a message (if it has not been sent before). The action is available for outbound messages only.

- **Process** - Specifies that a user is allowed to process a message. The action is available for inbound messages only.

Event Subscriptions

There are several events published that developers can subscribe to.

Codeunit 20020750 "ITI IIC Message Mgt."

- OnAfterSendIICMessage(sender: Codeunit "ITI IIC Message Mgt."; var IICMessage: Record "ITI IIC Message")

  This event occurs after sending an IIC message.

Codeunit 20020755 "ITI IIC Document Mgt."

- OnBeforeSendSalesDocument(var SalesHeader: Record "Sales Header")

  This event occurs before a message for sales document is created.

- OnAfterSendSalesDocument(var SalesHeader: Record "Sales Header")

  This event occurs after a message for sales document is created.

- OnBeforeCancelSalesDocument(var SalesHeader: Record "Sales Header")

  This event occurs before a sales document is IIC cancelled.

- OnAfterCancelSalesDocument(var SalesHeader: Record "Sales Header")

  This event occurs after a sales document is IIC cancelled.

- OnBeforeSendSalesShipment(var SalesShipmentHeader: Record "Sales Shipment Header")

- OnAfterSendSalesShipment(var SalesShipmentHeader: Record "Sales Shipment Header")

- OnBeforeSendSalesInvoice(var SalesInvoiceHeader: Record "Sales Invoice Header")

- OnAfterSendSalesInvoice(var SalesInvoiceHeader: Record "Sales Invoice Header")

- OnAfterSendSalesCrMemo(var SalesCrMemoHeader: Record "Sales Cr.Memo Header")

- OnBeforeSendSalesCrMemo(var SalesCrMemoHeader: Record "Sales Cr.Memo Header")

- OnBeforeSendPurchaseDoc(var PurchaseHeader: Record "Purchase Header")

- OnAfterSendPurchaseDoc(var PurchaseHeader: Record "Purchase Header")

- OnBeforeCancelPurchaseDoc(var PurchaseHeader: Record "Purchase Header")

- OnAfterCancelPurchaseDoc(var PurchaseHeader: Record "Purchase Header")

Codeunit 20020761 "ITI IIC Buffer Validation Mgt."

- OnBeforePurchaseBufferValidate(var IICPurchaseHeaderBuffer: Record "ITI IIC Purchase Header Buffer")

  This event occurs before a purchase buffer document is validated.

- OnAfterPurchaseBufferValidate(var IICPurchaseHeaderBuffer: Record "ITI IIC Purchase Header Buffer")

  This event occurs after a purchase buffer document is validated.

- OnBeforeSalesBufferValidate(var IICSalesHeaderBuffer: Record "ITI IIC Sales Header Buffer")

- OnAfterSalesBufferValidate(var IICSalesHeaderBuffer: Record "ITI IIC Sales Header Buffer")

- OnBeforeCheckFieldDifference(ITIIICMessageTemplateField: Record "ITI IIC Message Template Field"; EndpointCode: code[20]; var Value: Text)

  This event occurs before the received field is compared to a local document field in order to count errors, warnings and information. This happens for every field in the template, so the function can be used to perform custom mappings.

- OnAfterCheckDifferences(var ReceivedRecRef: RecordRef; BufferType: Option; BufferEntryNo: Integer; BufferLineNo: Integer; MessageTemplateLine: Record "ITI IIC Message Template Line")

  This event occurs after all fields are compared and any mappings defined for the previous event are applied. It can be used to perform more complicated mappings based on several fields. Any changes must be saved by using the `Modify()` function.

Codeunit 20020762 "ITI IIC Purchase Buffer Mgt."

- OnAfterAcceptBufferDocument(IICPurchaseHeaderBuffer: Record "ITI IIC Purchase Header Buffer")

  This event occurs after a purchase buffer document is accepted, before archiving the buffer.

- OnAfterArchiveAcceptedBufferDocument(IICPurchaseHeaderBuffer: Record "ITI IIC Purchase Header Buffer")

  This event occurs after a purchase buffer document is accepted, after archiving the buffer.

- OnAfterRejectBufferDocument(IICPurchaseHeaderBuffer: Record "ITI IIC Purchase Header Buffer")

  This event occurs after a purchase buffer document is rejected, before archiving the buffer and logging.

- OnAcceptCrMemo(var IICPurchaseHeaderBuffer: Record "ITI IIC Purchase Header Buffer"; var isHandled: Boolean)

  This event occurs before accepting a credit memo buffer document. The `isHandled` parameter can be used to skip the standard way of processing.

- OnAcceptReturnReceipt(var IICPurchaseHeaderBuffer: Record "ITI IIC Purchase Header Buffer"; var isHandled: Boolean)

  This event occurs before accepting a return receipt buffer document. The `isHandled` parameter can be used to skip the standard way of processing. At this moment, return receipts are not handled by the standard processing, so this is the only way to process return receipts.

- OnBeforeCreateWarehouseReceipt(PurchaseHeader: record "Purchase Header"; var ReceiptRequired: Boolean)

  This event is triggered before warehouse receipt creation during the acceptance of shipment notification. The *ReceiptRequired* parameter (always initially set to *True*) can be used to skip the warehouse receipt creation by setting the parameter to *False*.

Codeunit 20020764 "ITI IIC Sales Buffer Mgt."

- OnAfterAcceptBufferDocument(IICSalesHeaderBuffer: Record "ITI IIC Sales Header Buffer")

  This event occurs after a sales buffer document is accepted, before archiving the buffer.

- OnAfterArchiveAcceptedBufferDocument(IICSalesHeaderBuffer: Record "ITI IIC Sales Header Buffer")

  This event occurs after a purchase buffer document is accepted, after archiving the buffer.

- OnAfterRejectBufferDocument(IICSalesHeaderBuffer: Record "ITI IIC Sales Header Buffer")

This event occurs after a sales buffer document is rejected, before archiving the buffer and logging.

Codeunit 20020766 "ITI IIC Pre-Invoice Mgt."

- OnBeforeModifyTransferLine(var TransferLine: Record "Transfer Line"; TempPurchLine: Record "Purchase Line" temporary; var TempReservEntry: Record "Reservation Entry" temporary)

  This event occurs when creating a transfer order during pre-invoice acceptance. TransferLine contains an inserted transfer line, just before modification. TemPurchLine contains a purchase line on which the transfer is based - the line is already posted, so it does not exist in the database. TempReservEntry contains the tracking of the original document which will be alter-copied to transfer order.

Codeunit 20020769 "ITI IIC Event Integration Mgt."

These events are triggered after setting the **IIC Document** field during customer/vendor validation. They can be used to clear the field in order to skip the IIC processing for the document:

- OnAfterSetIICDocumentPurchase(var PurchaseHeader: Record "Purchase Header")
- OnAfterSetIICDocumentSales(var SalesHeader: Record "Sales Header")

Codeunit 20020776 "ITI IIC MSG Invoice"

- OnBeforeCheckPurchaseHeaderIICPreInvoice(var IICPurchaseHeaderBuffer: Record "ITI IIC Purchase Header Buffer"; var PurchaseHeader: Record "Purchase Header"; var IsHandled: Boolean)

  This event occurs before checking whether a purchase header has the IIC Pre-Invoice field marked and a purchase buffer document of the Invoice type should be processed as a pre-invoice. This event can be used for implementing your own logic for the pre-invoice marking.

Codeunit 20020802 "ITI IIC MSG Ret.Ship. Not."

- OnBeforeCheckSalesHeaderIICPreInvoice(var IICSalesHeaderBuffer: Record "ITI IIC Sales Header Buffer"; var SalesHeader: Record "Sales Header"; var IsHandled: Boolean)

  This event occurs before checking whether a sales header has the IIC Pre-Invoice field marked and a sales buffer document of the Return Shipment type should be processed as a pre-invoice. This event can be used for implementing your own logic for the pre-invoice marking.

Job Queue Automation Setup

Advanced Intercompany can be fully automated by using job queue entries.

Setting up Job Queues

To set up a job queue for the current company:

1. Choose the 🔍 icon, enter **IIC Setup**, and then select a related link.
2. On the **IIC Setup** page, go to the **Actions** tab and use the **Automate with Job Queue...** function.
3. On the **Automate with Job Queue** page, choose the company type. Depending on the chosen option: **Buying Company**, **Selling Company** or **Buying & Selling Company**, different settings will appear on the page.

> 👉 **IMPORTANT**
>
> Job queue entries must be created separately in each company using Advanced Intercompany so the process could be fully automated.

4. Choose the processes you want to automate by selecting the required fields in the **Auto Process (Inbound Messages)**, **Auto Send (Outbound Messages)** or **Auto Post** group.
5. On the **Job Queue Entries Setting** FastTab, review the default job queue entry settings and update them, if needed.
6. Select the **OK** button and confirm the dialog message.
7. As the result, the system will create new **Job Queue Entry Cards** for the object responsible for the process automation.

> ℹ️ **NOTE**
>
> Creating job queue entries with **Automate with Job Queue...** action will also update the fields on the **Auto Process** FastTab and **Auto Send** FastTab on the **IIC Setup** page.

Job Queue Definitions

Each stage of the process in the Advanced Intercompany application can be automated or not, depending on the specific requirements of the customer. This provides complete flexibility and control over various business scenarios within the application. Job queue entries can be created for the following processes.

Send Outbound Messages - The report is used to send all outbound IIC messages pending for synchronization and can be set up in both the SELLER and BUYER companies. The report uses object 20020697.

> ℹ️ **NOTE**
>
> If an error occurs while sending, it will stop processing further messages to keep a correct processing order.

Auto Process New Purchase Document - The job queue is used to automate the processing of purchase documents in the IIC purchase buffer. After accepting a buffer document, a new purchase document will be created with a type of the document specified in the **Document Type** field and with the **IIC Status Code** field set to **NEW**. The job queue uses codeunit 20020782 and has to be set up in the BUYER company.

Auto Process New Sales Document - The job queue is used to automate the processing of sales documents in the IIC sales buffer. After accepting a buffer document, a new sales document will be created with a type of the document specified in the **Document Type** field and with the **IIC Status Code** field set to **NEW**. The job queue uses codeunit 20020783 and has to be set up in the SELLER company.

Auto Process Purchase Confirmation - The job queue is used to auto-process all purchase documents which were updated and need to be confirmed by the BUYER side. The **IIC Status Code** field will be set to **CONFIRMED** after accepting a purchase confirmation in the IIC purchase buffer. The job queue uses codeunit 20020784 and has to be set up in the BUYER company.

Auto Process Sales Confirmation - The job queue is used to auto-process all sales documents which were updated and need to be confirmed by the SELLER side. The **IIC Status Code** field will be set to **CONFIRMED** after accepting a sales confirmation in the IIC sales buffer. The job queue uses codeunit 20020785 and has to be set up in the SELLER company.

Auto Process Shipment Notification - The job queue is used to auto-process all shipment notifications in the IIC purchase buffer. After accepting the shipment notification, the **IIC Shipment Status** and **IIC Shipped Qty.(Base)** fields on sales order lines will be updated. Also, an IIC order dispatch entry will be created for this shipment. The job queue uses codeunit 20020786 and has to be set up in the BUYER company.

Auto Process Invoice/Cr. Memo - The job queue is used to auto-process all invoices or credit memos in the IIC purchase buffer. After accepting the document in the buffer, the associated shipment will be posted and deleted. The job queue uses codeunit 20020787 and has to be set up in the BUYER company.

Auto Process Return Receipt - The job queue is used to auto-process all return receipt notifications in the IIC purchase buffer. After accepting the return receipt notification, the **IIC Shipment Status** and **IIC Shipped Qty.(Base)** fields on purchase return order lines will be updated. Also, IIC order dispatch entries for the return shipment will be created. The job queue uses codeunit 20020794 and has to be set up in the BUYER company.

> **ℹ NOTE**
>
> If the **Auto Post Drop Shipment Return Receipt** field is selected on the **IIC Setup** page, after accepting the return receipt, in addition to updating the **IIC Shipment Status** and **IIC Shipped Qty.(Base)** fields, also a return shipment notification will be posted on the purchase return order and a return receipt to the final customer will be posted on the associated sales return order.

Auto Process Return Shipment - The job queue is used to auto-process all return shipment notifications in the IIC sales buffer. After accepting a return shipment notification, the **IIC Shipment Status** and **IIC Shipped Qty.(Base)** fields on sales return order lines will be updated. Also, IIC order dispatch entries for this return shipment will be created. The job queue uses codeunit 20020805 and has to be set up in the SELLER company.

Auto Post & Send Confirmed Sales Invoices - The job queue is used to post and send sales invoices or sales credit memos which were confirmed by your IIC partner and are ready for processing. The job queue uses codeunit 20020788 and has to be set up in the SELLER company.

Auto Send Posted Sales Shipments - The job queue is used to send all posted sales shipments automatically. After running the job queue, the **IIC Status** field of the sales shipment will be set to **OUTBOUND**. The job queue uses codeunit 20020790 and has to be set up in the SELLER company.

Auto Send Posted Sales Invoices - The job queue is used to send all posted sales invoices automatically. After running the job queue, the **IIC Status** field of the sales invoice will be set to **OUTBOUND**. The job queue uses codeunit 20020791 and has to be set up in the SELLER company.

Auto Send Posted Sales Cr. Memo - The job queue is used to send all posted sales credit memos automatically. After running the job queue, the **IIC Status** field of the sales credit memo will be set to **OUTBOUND**. The job queue uses codeunit 20020810 and has to be set up in the SELLER company.

Auto Send Posted Return Shipments - The job queue is used to send all posted purchase return shipments automatically. After running the job queue, the **IIC Status** field of the return shipment will be set to **OUTBOUND**. The job queue uses codeunit 20020807 and has to be set up in the BUYER company.

Auto Send Posted Return Receipts - The job queue is used to send automatically all posted sales return receipts in the drop shipment process. After running the job queue, the **IIC Status** field of the return receipt will be set to **OUTBOUND**. The job queue uses codeunit 20020793 and has to be set up in the SELLER company.

A Hint on which Side to Configure the Job Queue

JOB QUEUE NAME	BUYER COMPANY	SELLER COMPANY
Send Outbound Messages	☐☐	☐☐
Auto Process Purchase Conf.	☐☐	
Auto Process New Purch. Doc.	☐☐	
Auto Process New Sales Doc.		☐☐
Auto Process Sales Conf.		☐☐
Auto Process Shipment Not.	☐☐	
Auto Process Invoice / Cr. Memo	☐☐	
Auto Process Return Shipment		☐☐
Auto Process Return Receipt	☐☐	
Auto Send Posted S.Shipment		☐☐
Auto Send Posted S.Invoice		☐☐
Auto Send Posted S. Cr. Memo		☐☐
Auto Send Posted Return Shipments	☐☐	
Auto Send Posted Return Receipts		☐☐
Auto Post & Send Conf. Sales Invoice		☐☐

Setting up Microsoft Entra Authentication

Microsoft Entra is the only authentication method available for establishing web service connections with MS Dynamics 365 Business Central cloud companies. Setting up such a connection requires relevant Microsoft Entra ID and Business Central permissions. It is the IC partner company that needs to be authenticated and authorized to have access to resources exposed by the IC partner company (the **IICWebService** web service). The following instruction guides through the configuration process.

> ☞ **IMPORTANT**
>
> Microsoft Entra ID used to be called Azure Active Directory (AAD) Learn more

Creating an Application Registration in Microsoft Entra ID

To create an application registration:

1. Open the **Azure Portal** and go to the **Microsoft Entra ID** resource associated with your Azure tenant.

2. Go to the left-hand side panel and find the **App Registrations** tab in the **Manage** section and select the **New Registration** action.

3. Fill in the following fields:

   - **App Name** - Specifies a custom name for the app registration.
   - **Supported Account Types** - Specifies the account type and the suggested value is **Single Tenant**.
   - **Platform** - Specifies the platform to be used. Select the **Web** option.
   - **Redirect URL** - It can be left blank as it is not used in the Microsoft Entra client credential authentication flow.

4. On the **Certificates and Secrets** tab, select the **New Client Secret** action, copy the value (note: it is not the Secret ID guid) and store it in a safe place as you will not be able to see it again.

5. On the **API Permissions** tab, select the **Add a Permission** action.

6. Select **Dynamics 365 Business Central** from **Microsoft APIs** and **Application Permissions** as a required permissions type.

> ❶ **NOTE**
>
> **Application Permissions** do not require a signed-in user (as opposed to **Delegated Permissions**).

7. Choose **API.ReadWrite.All** and **Automation.ReadWrite.All** and confirm your choice by choosing the **Add Permissions** button.

8. Select the **Grant Admin Consent** action.

Setting up Microsoft Entra Authentication on a IIC Endpoint Card

To set up Microsoft Entra on the IIC Endpoint card:

1. Create an IIC endpoint. For details, read Setting up endpoints.

2. Make sure the **Web Service Address** field is filled in with a SOAP web service URL.

3. Fill the **Authentication Type** field with the **Microsoft Entra** value.

4. Fill in the **Tenant ID** field. It is a GUID value that follows the MS Dynamics 365 Business Central main url *https://businesscentral.dynamics.com/**tenant id*/...*. You can also find it on your **Overview** page.

5. Fill in the **Client ID** field with **Application (Client) ID** which you can find in your Microsoft Entra ID App Registration's overview (Azure Portal).

6. Fill in the **Client Secret** field with the client secret you created for your Microsoft Entra ID application registration.

Setting up Microsoft Entra Application

The last step requires setting up an **Microsoft Entra Application** in an IC partner company. The card represents the application which has just been registered in Microsoft Entra ID. The application needs to have the necessary permissions granted, just like a regular user.

> **ⓘ NOTE**
>
> This setup should be done in a receiver company.

1. Choose the 🔍 icon, enter **Microsoft Entra Applications**, and then select a related link.

2. Select the **New** action and fill in the **Client ID** field based on the **IIC Endpoint**.

3. Assign the following permission sets (or similar):

- **D365 BUS FULL ACCESS**
- **D365 BUS PREMIUM**
- **ITI03 AIC FULL (ADVANCED INTERCOMPAN - before version 3.1.2)**

Testing the Connection

The connection can be tested on a receiver card with the **Test Connection** action.

See Also

Register Azure application

S2S Authentication

Basic Process Walkthrough

This article provides step-by-step instructions on how to go through the basic intercompany process. It also demonstrates a quick way to configure the application.

Create Second Company

1. Go to the **Companies** page:
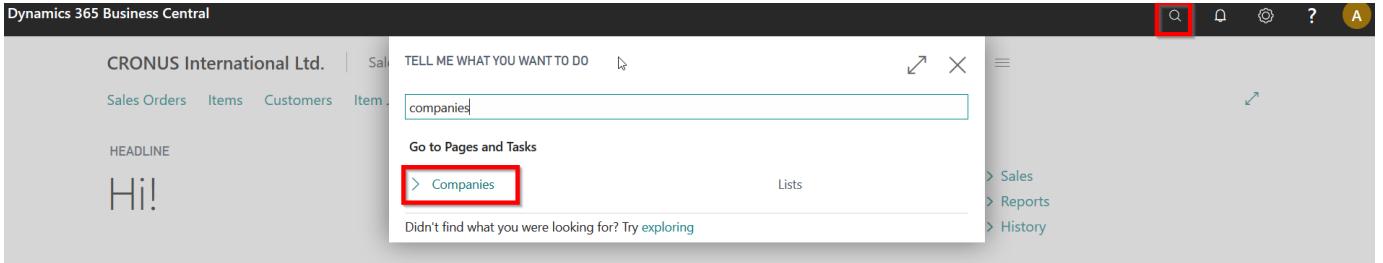
2. Select **CRONUS International Ltd.**.

3. Use the **Copy** action:
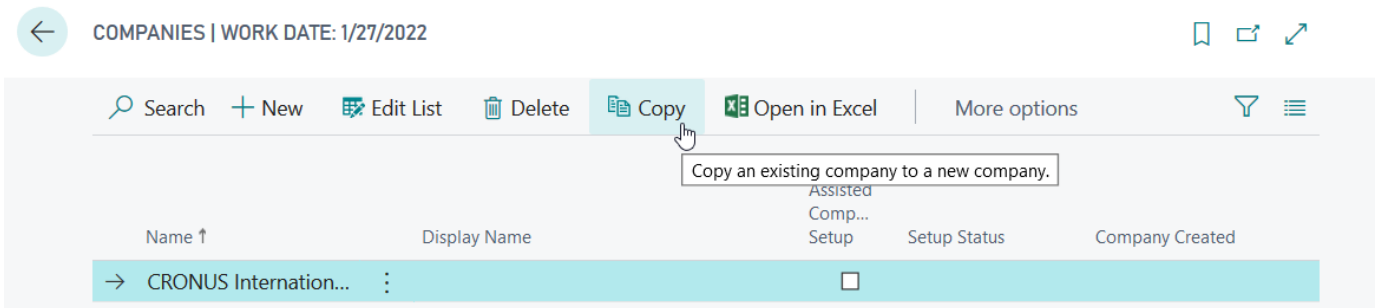
4. Enter **CRONUS USA**, select the **I understand** switch and click the **OK** button:
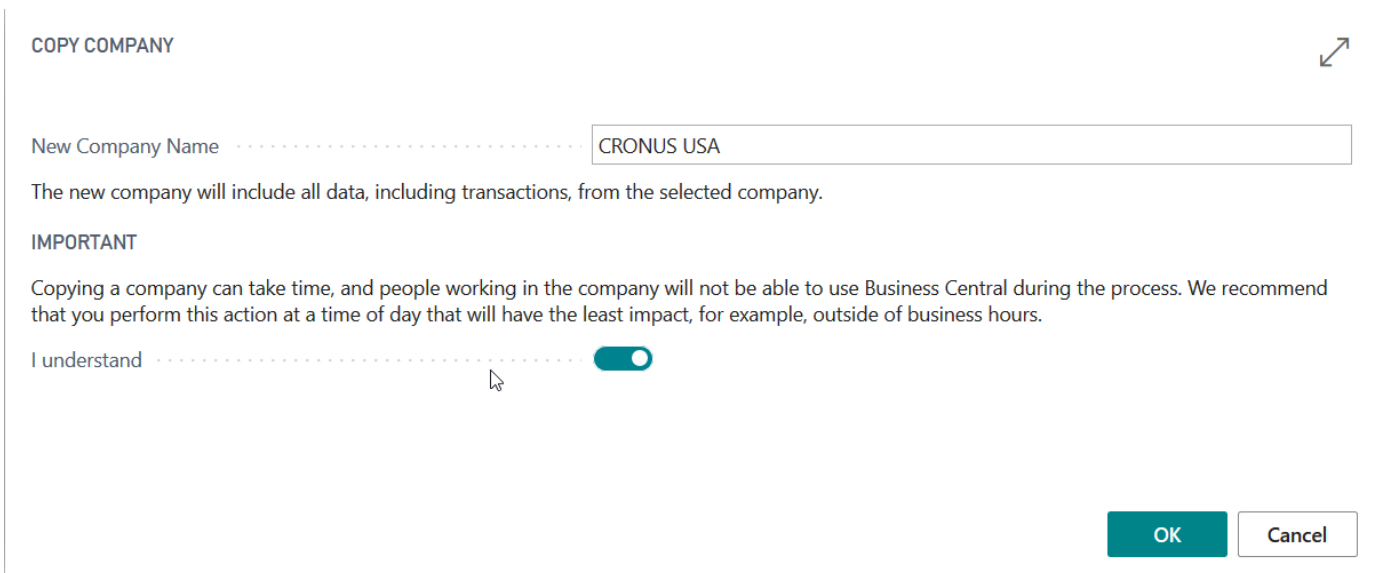
5. Wait for the process to end and close the dialog.

Create Basic Setup

1. Go to the **IIC Setup** page:

iic set

Go to Pages and Tasks

> Ul͡m Setup   Administration

2. Use the **IIC Initialize** action:

←   ✎   +   🗑   ✓SAVED   🔖 🗗 ↗

IIC Setup

Actions

| IIC Initialize | Job Queue ∨ | 📌 |

     Creates the default setup.

Own Endpoint No. ⋯ ⋯ ⋯ [∨]   Block Posting Sales w… · (●○)

3. Close the message.

Define Endpoints

1. Go to the **Web Services** page:

web services

Go to Pages and Tasks

> Web Services   Lists

2. Find the service named **IIC Web Service**.

3. Right click the **SOAP URL** field and select the **Copy Link** option:

←   WEB SERVICES | WORK DATE: 1/27/2022   🔖 🗗 ↙

🔍 Search   + New   ✏ Edit List   🗑 Delete   🔄 Reload   📊 Open in Excel   More options   ▽ ≡

Object Type ↑		Object Name	Service Name ↑	All Ten…	Publ…	OData V4 URL	OData URL	SOAP URL
→ Codeunit	⋮	ITI IIC Web Service	IICWebService	☐	☑	Not applicable	Not applicable	http://intercompany:7047/BC/…
Codeunit		Workflow Webhook Subscription	WorkflowActionResponse	☐	☑	Not applicable	Not applicable	http://inte…

                         Open in new browser window

4. The address should have the following format:
   http://<SERVER>/<INSTANCE>/WS/CRONUS%20International%20Ltd./Codeunit/IICWebService

5. Go to the **IIC Endpoint List** page:

iic endpo

Go to Pages and Tasks

> ⟩ IIC Endpoint List Administration 🔖

Didn't find what you were looking for? Try exploring

6. Create a new record.

7. Enter **CRONUS INTERNATIONAL** as the **Code** value.

8. Paste the copied **SOAP URL** field value in the **Web Service Address** field.

9. Fill in the **Web Service Username** and **Password** fields with the user credentials:

← ✏️ + 🗑️ ✓SAVED ⬈ ⬈

IIC Endpoint

🔄 Synchronize | More options

General

No.	CRONUS INTERNATIONAL	Last Date Modified	7/27/2020
Description		LCY Code	
Test Endpoint	◯	Combined Invoice Act...	Default

Web Service

Web Services Address	il%20Ltd./Codeunit/IICWebService	Web Services Password	●●●●●●●●●●
Web Services Userna...	admin		

10. Create a new record.

11. Enter **CRONUS USA** in the **No.** field.

12. Paste the copied **SOAP URL** field value in the **Web Service Address** field.

13. Change **CRONUS%20International%20Ltd.** to **CRONUS USA** in the **Web Service Address** field. It should have the following format: **http://<SERVER>/<INSTANCE>/WS/CRONUS USA/Codeunit/IICWebService**

14. Fill in the **Web Service Username** and **Password** fields with the user credentials:

IIC Endpoint

Synchronize   More options

General

No.	CRONUS USA	Last Date Modified	7/27/2020
Description		LCY Code	
Test Endpoint	⬤	Combined Invoice Action	Default

Web Service

Web Services Address	)any:7047/BC/WS/CRONUS USA/Codeunit/IICWebService	Web Services Password	••••••••••
Web Services Username	admin		

15. Go to the **IIC Setup** page.

16. Select **CRONUS INTERNATIONAL** in the **Own Endpoint** field:

Synchronize Setup

1. Go to the **User Setup** page.

2. Add a record with your username:

3. Select the **IIC Super User** field:

4. Go to the **IIC Endpoint List** page.

5. Open the **CRONUS USA** record.

6. Use the **Synchronize** action:

7. Close the message.

8. Run the **IIC Send Outbound Messages** report by using the **Tell me…** feature.

9. A message informing about 1 sent message should be displayed. Close the message:
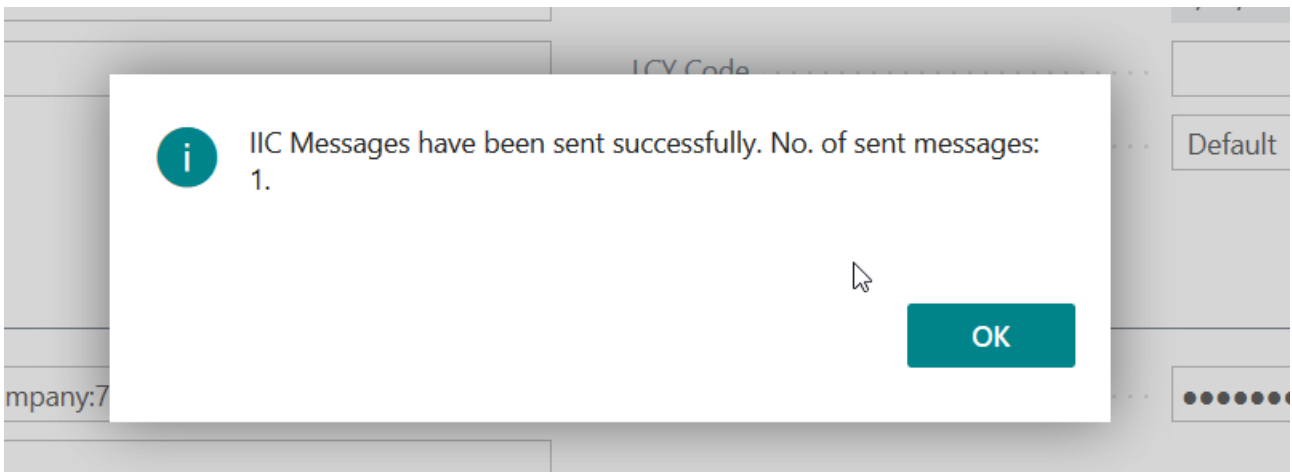
10. Go to the **My Settings** page:
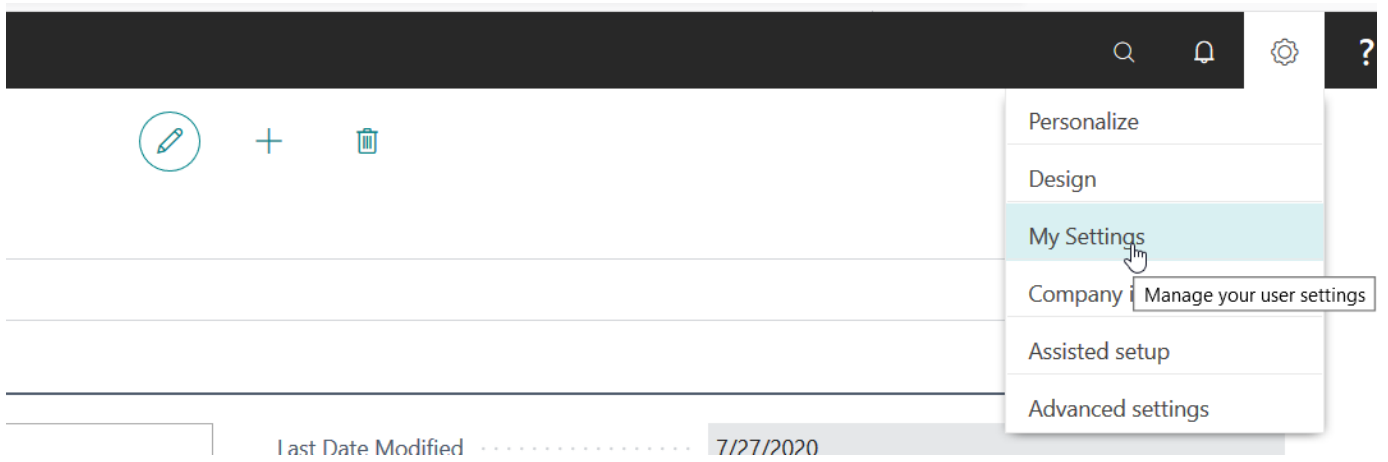
11. Click the assist-edit button for the **Company** field and select **CRONUS USA**:
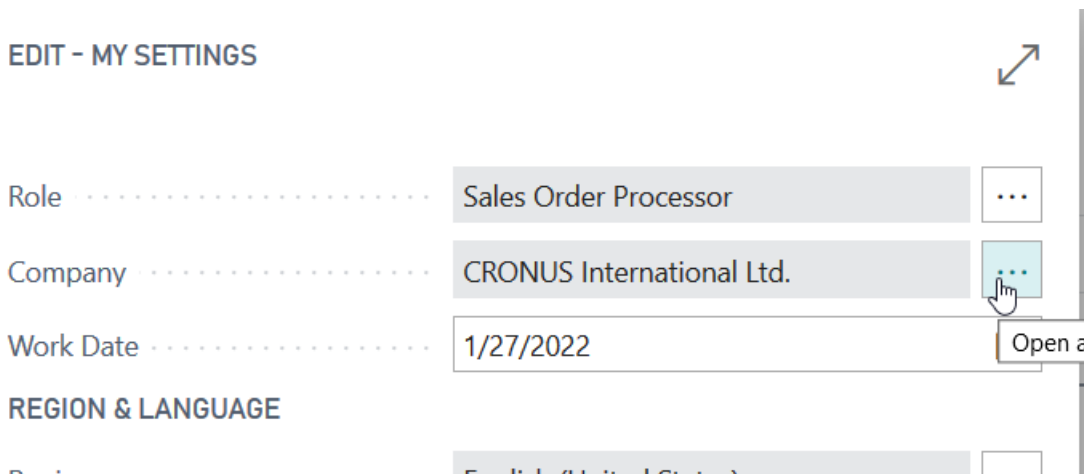
12. Click the **OK** button.

13. Go to the **IIC Endpoint List** page.

14. Open the **CRONUS INTERNATIONAL** record.

15. Fill in the **Web Service Password** field with the user password:
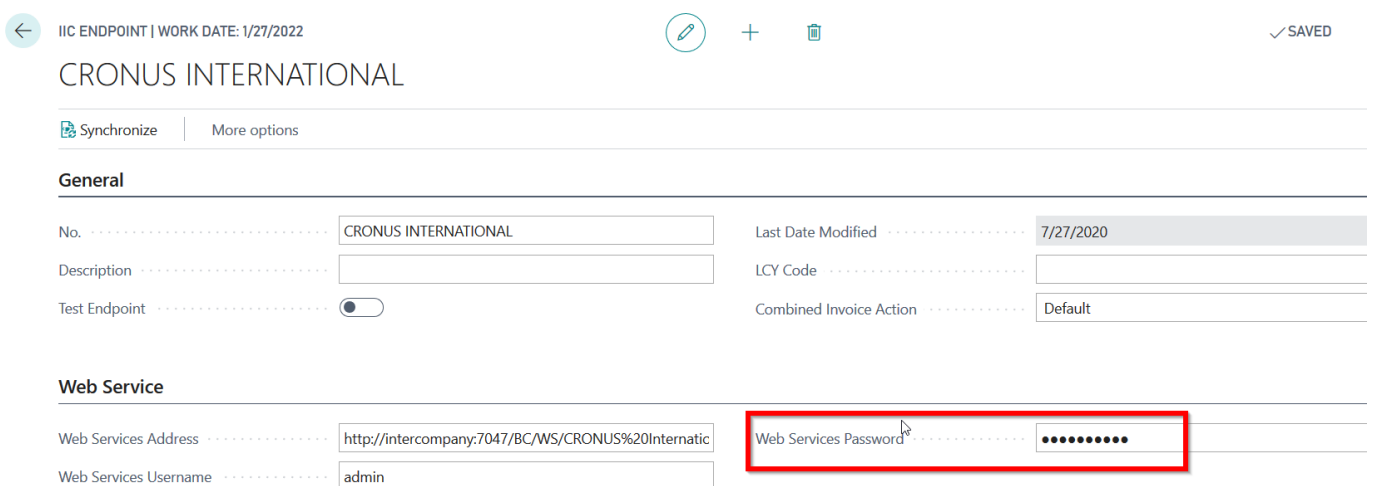
Assign Endpoints to Customer and Vendor

1. Go to the **Customers** page.

2. Create a new record.

3. Use the **Customer DOMESTIC** template:
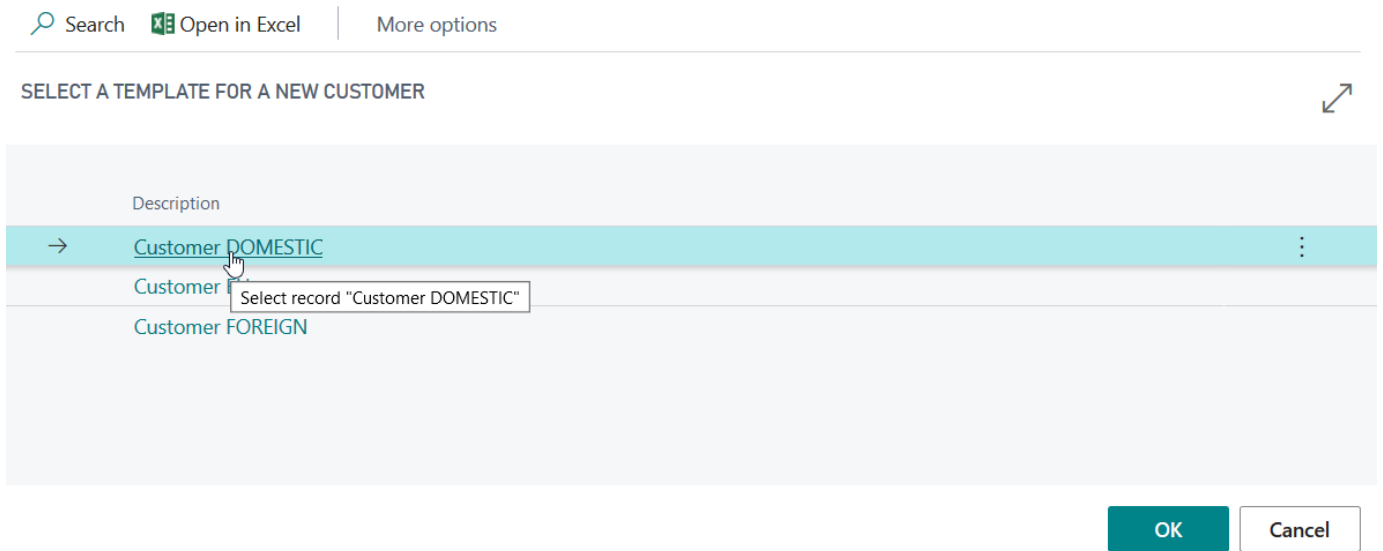
4. Enter **CRONUS International** in the **Name** field.

5. Select **CRONUS INTERNATIONAL** in the **IIC Endpoint** field:
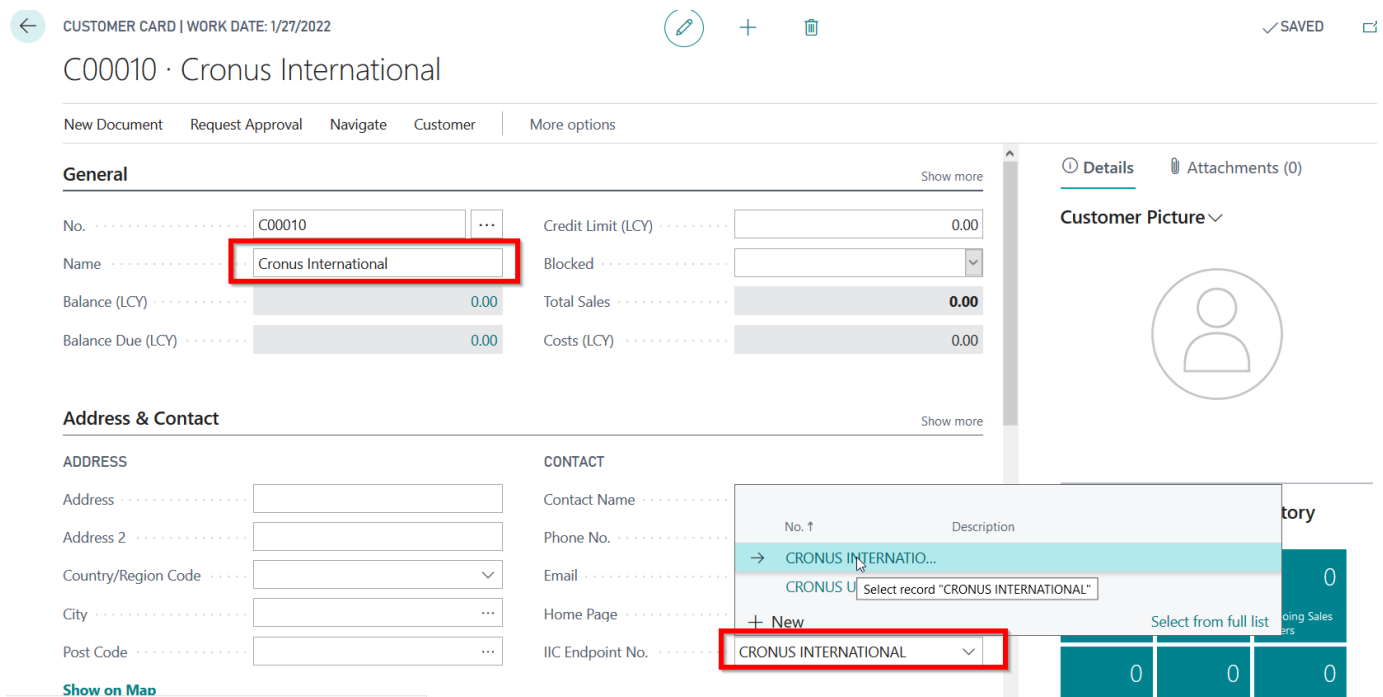
6. Open the **My Settings** page and change the company to **CRONUS International Ltd.**.

7. Go to the **Vendors** page.

8. Create a new record.

9. Use the **Vendor DOMESTIC** template.

10. Enter **CRONUS USA** in the **Name** field.

11. Select **CRONUS USA** in the **IIC Endpoint** field:

Create Purchase Order

1. Go to the **Purchase Orders** page.

2. Create a new document.

3. Select **CRONUS USA** in the **Vendor** field.

4. Add a new line with the **Item** type, enter 1000 in the **No.** field and 10 in the **Quantity** field:

Release and Send Purchase Order

1. Release the document by using the **Release** action. It should now have the **OUTBOUND** value as the IIC status code:

2. Send the message - open the **Tell me** feature, enter **IIC Send Outbound Messages** and run the report. A dialog informing about a sent message should be displayed and the **Status** field value should change to **SENT**.

Validate and Accept Buffer Document

1. Change the company to **CRONUS USA** by using the **My settings** page.

2. Go to the **IIC Sales Buffer Documents** page:

3. Open the newest record.

4. Click the **Validate** and **Accept** actions:

5. Accept the dialog. A sales order should open.

Release and Send Sales Order

1. Release a created document by using the **Release** action.

2. Create a message by using the **IIC Send** action. The status should change to **OUTBOUND**:

3. Sent the message by using the **IIC Send Outbound Messages** report. A message informing about 2 messages should be displayed and the **Status** field value should change to **SENT**.

Validate and Accept Purchase Buffer

1. Change the company to **CRONUS International Ltd.** by using the **My Settings** page.

2. Go to the **IIC Purchase Buffer Documents** page:

TELL ME WHAT YOU WANT TO DO

iic purchase b

Go to Pages and Tasks

> IIC Purchase Buffer Documents   Lists

Didn't find what you were looking for? Try exploring

3. Open the newest record and use the **Validate** and **Accept** actions:

...ER DOCUMENT | WORK DATE: 1/27/2022   SAVED

106025 · CRONUS USA

Validate   ✔ Accept   ✖ Reject   Document Log Entries   Show Local Document   ···

Accept

General

Entry No.	1	Local Assigned User ID	
Created Date & Time	7/27/2020 2:38 PM	Vendor Order No.	1001
Created By	ADMIN	Vendor Shipment No.	
Document Type	Order	Vendor Invoice No.	
IIC Document Type	Purchase Document	Vendor Cr. Memo No.	
IIC Standalone Invoice	⬤	Order Date	
IIC Pre-Invoice	⬤	Buy-from Vendor No.	V00010
IIC Action	Update Document	No. of Information	1
Local Document Exists	⬤	No. of Warnings	0
Local Document Type	Order	No. of Errors	0
Local Document No.	106025	No. of Differences	1

4. Accept the dialogs. Then, the purchase order should open - the **IIC Status** field value should change to **CONFIRMED**.

5. Send a message by using the **IIC Send Outbound Messages** report.

Post Sales Order

1. Change the company to **CRONUS USA** by using the **My Settings** page.

2. Go to the **Sales Orders** page.

3. Open the last sales order for the **CRONUS International** customer. It should have the **CONFIRMED** status.

4. Post the order by using the **Post** action. Click the **OK** button with the **Ship and Invoice** option selected:

5. Accept the dialog and open the invoice:

Send Sales Shipment and Invoice

1. Create an invoice message by using the **IIC Send** action. The status should change to **OUTBOUND**.

2. Open shipment lines by using the **Item Shipment Lines** action under the **Line** menu:

103032 · Cronus International

Process   Invoice   Correct   Print/Send   Navigate | More options

General   Show more

No. · · · · · · · · · · · · ·	103032	Due Date · · · · · · · · · ·	2/27/2022
Customer · · · · · · · · ·	Cronus International	Quote No. · · · · · · · · ·	
Contact · · · · · · · · · ·		Order No. · · · · · · · · ·	1001
Posting Date · · · · · · · ·	1/27/2022	Closed · · · · · · · · · · ·	⬤
		IIC Status Code · · · · · · ·	

Lines | Manage   Line   Fewer options   ⬓

🔀 Dimensions   📇 Item Tracking Entries   🔍 Document Line Tracking   📎 Attachments

💬 Comments   📑 Item Shipment Lines   📋 Deferral Schedule

⌞ View posted sales shipments for the item. ⌝

3. Open the posted shipment by using the **Show Document** action.

4. Create a message with the **IIC Send** action:

103037 · IIC Customer

Process   Invoice   Correct   Print/Send   Navigate | More options

📧 IIC Send   🕘 IIC Document Log Entries

⌞ IIC Send ⌟

No. · · · · · · · · · ·	103037	Quote No. · · · · · · · ·	
Customer · · · · · · · ·	IIC Customer	Order No. · · · · · · · ·	1010
Contact · · · · · · · · ·		Closed · · · · · · · · · ·	⬤
Posting Date · · · · · ·	27.01.2022	IIC Status Code · · · · ·	OUTBOUND
Due Date · · · · · · · ·	27.02.2022		

Lines | Manage   Line   Fewer options   ⬓

Type		No.	Description	Quantity	Unit of Meas
→ Item	⋮	1000	Bicycle	3	PCS
Item		1001	Touring Bicycle	5	PCS

5. Send the messages by using the **IIC Send Outbound Messages** report. A message informing about 3 sent messages

should be displayed.

Accept Shipment Notification

1. Change the company to **CRONUS International Ltd.** by using the **My Settings** page.

2. Go to the **IIC Purchase Buffer Documents** page.

3. Open the **Shipment Notification** record:

4. Use the **Validate** and **Accept** actions.

5. Accept the dialog - the notification is now accepted.

6. Go to the **Purchase Orders** page.

7. Find and open a purchase order for **CRONUS USA**.

8. Make sure that the status is **CLOSED**, and the **IIC Shipment Status** and **IIC Shipped Qty.** fields are filled:

Accept Invoice

1. Post a receipt by using the **Post** action.

2. Use the **Receive** option:
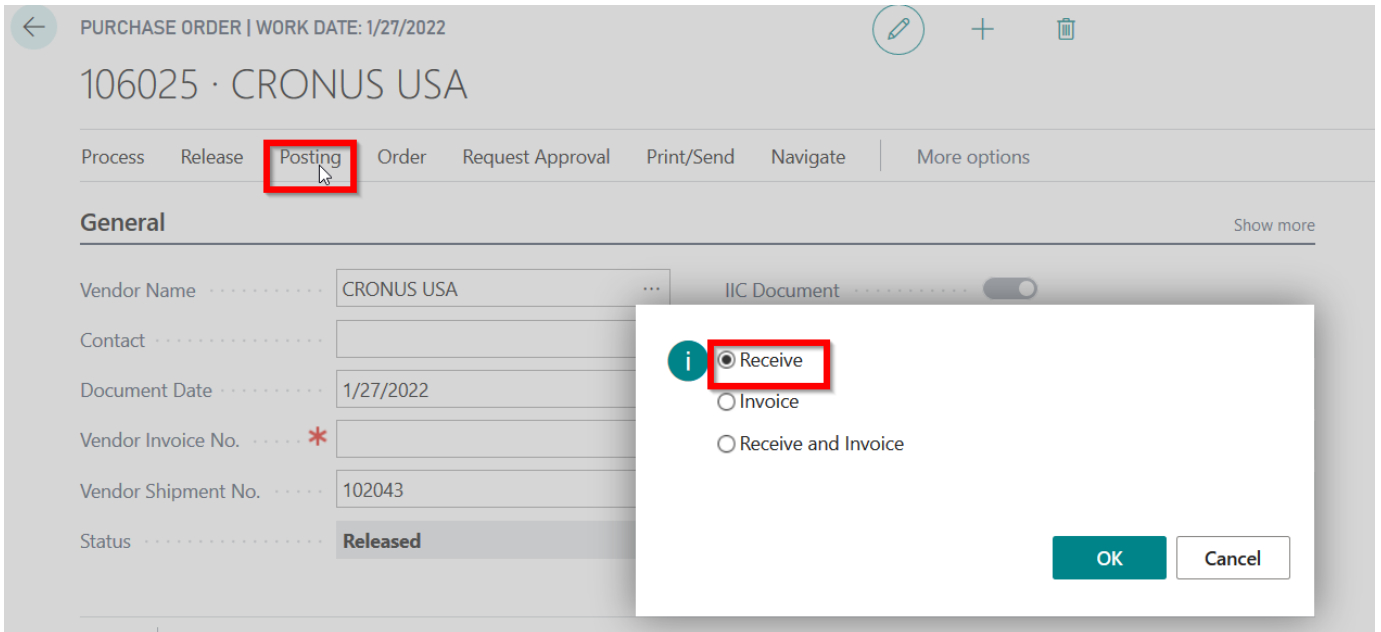
3. Go to **IIC Purchase Buffer Documents** page by using the **IIC Posted Buf. Doc. Exists** field:

4. Open the invoice buffer document.

5. Select the **Validate** and **Accept** actions in the invoice buffer document to post the invoice:

106025 · CRONUS USA

📄 Validate   ✓ Accept   ✕ Reject   🕘 Document Log Entries   🎞 Show Local Document   ···

Accept

General

Entry No. · · · · · · · · · · ·	3	Local Assigned User ID ·	ADMIN
Created Date & Time · · · ·	7/27/2020 2:59 PM	Vendor Order No. · · · · · ·	
Created By · · · · · · · · · ·		Vendor Shipment No. · · ·	
Document Type · · · · · · ·	Invoice	Vendor Invoice No. · · · · ·	103032
IIC Document Type · · · · ·	Invoice	Vendor Cr. Memo No. · · · ·	
IIC Standalone Invoice · ·	⊘	Order Date · · · · · · · · · ·	
IIC Pre-Invoice · · · · · · ·	⊘	Buy-from Vendor No. · · ·	V00010
IIC Action · · · · · · · · · ·	Post Invoice	No. of Information · · · · ·	0
Local Document Exists · ·	⬤	No. of Warnings · · · · · ·	0
Local Document Type · · ·	Order	No. of Errors · · · · · · · ·	0
Local Document No. · · · ·	106025	No. of Differences · · · · ·	0

6. Accept the dialog - the order is now posted.

7. Use the **IIC Send Outbound Messages** report to send confirmations - a dialog informing about 3 sent messages should be displayed.

Administration and Installation

In this article, you will find information about Advanced Intercompany administration and installation.

TO	SEE
Learn more about system requirements	System Requirements
Get to know how to install the application	Installation and Registration

See Also

Technical Support for the App - Contact IT.integro or your Business Central partner

Releases

System Requirements

System requirements for Advanced Intercompany are the same as for Business Central Microsoft Dynamics 365 on-premises and online. The requirements for Microsoft Dynamics 365 Business Central online have been described in Advanced Intercompany.

See Also

Installation and Registration

Installation and Registration

This article describes the prerequisites and installation and registration steps for Advanced Intercompany in Business Central online and on-premises.

Requirements

1. Additional requirements for an on-premises installation:

   - BC Instance with **NavUserPassword** authentication must exist.

   - There must be a service account for the NavUserPassword instance (can be the same as for other instances). It must have the **Log on as a Service** permission.

   - There must be **SSL certificate** installed on and trusted by each communicating server. It can be either an external CA certificate, or a self-signed added as trusted on each server.

   - The service account must have permissions to the certificate private key.

   See more at Authentication and Credential Types for Dynamics 365 Business Central.

2. User account with password or Web Service Access Key, that has permissions to both companies, or multiple users.

Installing the Application for Business Central Online

To install Advanced Intercompany for Business Central online:

1. On the AppSource offer page, select **Free Trial**.
2. Choose the environment on which you would like to install the app (sandbox/ or production).
3. Press the **Install** button.

Installing the Application for Business Central On-Premises

To install Advanced Intercompany for Business Central on-premises:

1. Download the installation file from the IT.integro Product Portal. Add the Advanced Intercompany functionality for NAV and D365BC application for the client license.

> 👉 **IMPORTANT**
>
> The IT.integro Product Portal can be accessed only by authorized IT.integro partners.

> ⚠ **CAUTION**
>
> When installing the application, you have to be assisted by an authorized IT.integro partner.

2. Run Dynamics NAV Administration Shell as an administrator.

3. To publish Advanced Intercompany run the command:

```
Publish-NAVApp -ServerInstance YourDynamicsNAVServer -Path ".\\IT.integro sp. z o.o._Advanced Intercompany.app"
```

3. To synchronize Advanced Intercompany run the command:

```
Sync-NAVApp -ServerInstance YourDynamicsNAVServer -Name "App Name" -Version VersionNo. -Tenant [Tenant1, Tenant 2, default]
```

> **ℹ TIP**
>
> The **Tenant** parameter can be skipped for a single-tenant instance or set as *default*. For multi-tenant instances, each tenant to be synchronized has to be listed.

4. To install Advanced Intercompany run the command:

```
Install-NAVApp -ServerInstance YourDynamicsNAVServer -Name "App Name" -Tenant [Tenant1, Tenant2, default]
```

> **ℹ TIP**
>
> It is recommended to install the latest application version available.

See Also

Technical Support for the App - Contact IT.integro or your Business Central partner

System Requirements

Publishing and Installing an Extension

Sync-NAVApp

IT.integro's Product Lifecycle Policy for solutions (modules) created for Microsoft Dynamics NAV/Dynamics 365 Business Central

Due to the fact that all IT.integro solutions work only as add-on modules/extensions of the base system, i.e. Microsoft Dynamics NAV/ Dynamics 365 Business Central, they are subject to the same product lifecycle policy as the base system, i.e. Microsoft Dynamics NAV/ Dynamics 365 Business Central.

Classification of Changes in Product Versions

As part of product development and maintenance, IT.integro introduces the following changes to the offered modules:

- **New versions (change of the MAJOR type - when changes to the application elements are introduced as a result of breaking API compatibility)**

  - Application releases that adapt IT.integro products to the respective versions of the main system. The versions can be released for new "Cumulative Updates" (CU), fixes or full system versions, i.e. NAV 2018, Business Central 13 and 14. New versions may also add new functionalities to the modules, such as those listed hereinafter.

- **Functional extensions (change of the MINOR type - when a new functionality is introduced that is compatible with previous versions)**

  - New legally required functionalities - functions implemented within the system in order to adapt the system to legal requirements or to change the requirements. By definition, they should include functionalities explicitly required by law as applicable to ERP systems, but the definition may be extended to functionalities that support processes, the implementation of which, apart from the ERP system used, would be technically difficult.
  - New development functionalities - functions that improve work in the system, but are not required obligatorily by law. Their introduction is a result of feedback submitted by customers and project teams during implementation works at customers' and the result of technology development.

- **Fixes (change of the PATCH type - when the bug is fixed and the compatibility with previous versions is not broken)**

  - Application releases containing fixes to the existing functions of add-on modules or adaptation to the fixes implemented within the standard system version.

Support Cycles

For each product created by IT.integro (as an ISV partner - Independent Software Vendor) to the appropriate versions of the Microsoft Dynamics NAV/ Dynamics 365 Business Central system, fixes and new versions and functionalities are prepared during the standard product support period – in accordance with the definitions presented above. The support periods for individual full system versions are listed in the table.

VERSION NAME	RELEASE DATE	END-OF SUPPORT DATE FOR THE STANDARD SYSTEM VERSION
NAV 2016	3 January, 2016	13 April, 2021
NAV 2017	27 October, 2016	11 January, 2022

VERSION NAME	RELEASE DATE	END-OF SUPPORT DATE FOR THE STANDARD SYSTEM VERSION
NAV 2018	1 December, 2017	10 January, 2023
Dynamics 365 Business Central (BC 13)	1 October, 2018	14 April, 2020
Dynamics 365 Business Central on-premises Spring 2019 Update (BC 14)	1 April, 2019	10 October, 2023
Dynamics 365 Business Central on-premises 2019 Release Wave 2 (BC 15)	10 October, 2019	13 April, 2021
Dynamics 365 Business Central on-premises 2020 Release Wave 1 (BC 16)	1 April, 2020	12 October, 2021
Dynamics 365 Business Central on-premises 2020 Release Wave 2 (BC 17)	1 October, 2021	12 April, 2022
Dynamics 365 Business Central on-premises 2021 Release Wave 1 (BC 18)	1 April, 2021	12 October, 2022
Dynamics 365 Business Central on-premises 2021 Release Wave 2 (BC 19)	1 October, 2021	12 April, 2023
Dynamics 365 Business Central on-premises 2022 Release Wave 1 (BC 20)	1 April, 2022	12 October, 2023
Dynamics 365 Business Central on-premises 2022 Release Wave 2 (BC 21)	3 October, 2022	12 April, 2024
Dynamics 365 Business Central on-premises 2022 Release Wave 1 (BC 22)	3 April, 2023	13 October, 2024

Product Support Rules

1. Customers paying for the Enhancement Plan and partners are entitled to get a free download of new versions of individual products, legally required functionalities and fix packages during the periods listed in the table. Additional functionality extensions are also added to the new full versions of products. Such functionality extensions facilitate the use of solutions, but are not obligatory from a legal point of view. They are not prepared for lower versions that already operate on the market. For each perspective implementation of a new version within older versions, the project team will provide a cost estimate.

2. Customers who do not pay for the Enhancement Plan, will be charged for each modification or new version in accordance with the price list for the respective version.

3. After the expiry of the standard support period for individual versions of the produced solutions, no new legally required functionalities or fix packages will be added to them. The technical feasibility of preparing and installing such fixes or new versions will be valued and assessed each time individually by the project team or partner.

4. Downgrade to earlier solution versions (not supported) for customers requesting for the downgrade is considered and evaluated on an individual basis and performed by project teams. Project teams take responsibility for preparing the "lower" version, checking its compatibility with the customer's system and installing it in the customer's system.

5. In accordance with the product life cycle policy developed by Microsoft and adopted by IT.integro for their ISV solutions, paying the Enhancement Plan fees after the expiry of the standard support period does not entitle customers to obtain new releases and fixes free of charge. On the other hand, the Enhancement Plan fee entitles the customer to download a newer version (compatible with the appropriate version of the main system) of a given product free of charge and install it within the Microsoft Dynamics NAV/ Dynamics 365 Business Central system in use. It is recommended for Customers to upgrade their software to the latest system versions.

6. Installation of new releases and fixes will be delivered as a paid service in compliance with the terms and conditions for the provision of services by IT.integro.

See Also

Contact IT.integro at appsales@it.integro.pl

Technical Support for the App - Contact IT.integro or your Business Central partner

IT.integro applications for companies in Poland and global companies

IT.integro offer

Software Lifecycle Policy and Dynamics 365 Business Central On-Premises Updates

Dynamics 365 Business Central on-premises (Modern Policy)