



BEYOND BARCODES

User Guide



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About BEYOND Barcodes

About this extension

BEYOND Barcodes is an extension for Microsoft Dynamics 365 Business Central.

It is developed by:

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BEYOND Barcodes extends your Business Central and enables the use of barcodes. The solution adds a barcode factbox on the item card and item list in Business Central. An API in the background generates barcodes for item numbers or other information you have defined in the barcode setup. The barcodes can also be used as electronic business cards for contacts or employees. The app can be easily and quickly customized to your needs, just contact us.

NOTE

Supported Barcode Formats

The extension supports a variety of barcode formats including Code128, Code128A, Code128B, Code128C, Code39, EAN13, EAN8, EAN5, EAN2, UPC, UPCE, ITF, ITF14, MSI and QR codes.

This documentation describes two different use cases:

Use Cases

- Barcodes for Item Nos
In this use case, the app is set up to generate barcodes for item numbers. The barcodes can be read using the integrated barcode scanner. The view in Business Central then switches to the item card.
- QR Codes (electronic business cards) for contacts
In this use case, we set up the app to generate QR codes with the contact details of the contact stored in Business Central. You can use these QR codes, for example, to send customer contact information to your sales representatives or field staff.

The examples (use cases) described in this documentation represent only a part of the possibilities offered by the BEYOND Barcodes extension. If you have a specific case that you would like to map using the extension, please contact us. Visit <https://github.com/byndit/BeyondBarcodes> to get additional information of how you can use this extension.

Version	Date	Author	Comment
1.0	03.07.2022	Jannic Weidel	Digitalization of the documentation
1.1	03.28.2022	Jannic Weidel	Added Subtitles for Screenshots
Document Access		public	

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Your Token

Before you can use BEYOND Barcodes, you should contact us, so we can advise you which cost plan is the best for you. The plans available are based on time and/or number of barcodes generated. For more information, please visit <https://www.beyondbarcodes.de/>. We can also support you installing the extension, if needed.

Once you have decided on a cost plan, you will receive two tokens from us:

- **Capacity Token**

The capacity token controls access to your personal barcode API. The capacity token can be limited, i.e. it can only be used to generate a certain number of API calls (create barcodes) each month. When the capacity token is exhausted, you can buy new API calls or wait for the next month. You could also switch the cost plan and access a larger contingent of barcodes, if needed.

- **Manage Token**


The Manage Token controls the administrator area for managing capacity tokens. It is used to create capacity tokens and allocate the associated quotas for API calls.

We recommend that you save the two tokens in a file. The tokens are required for extension setup.

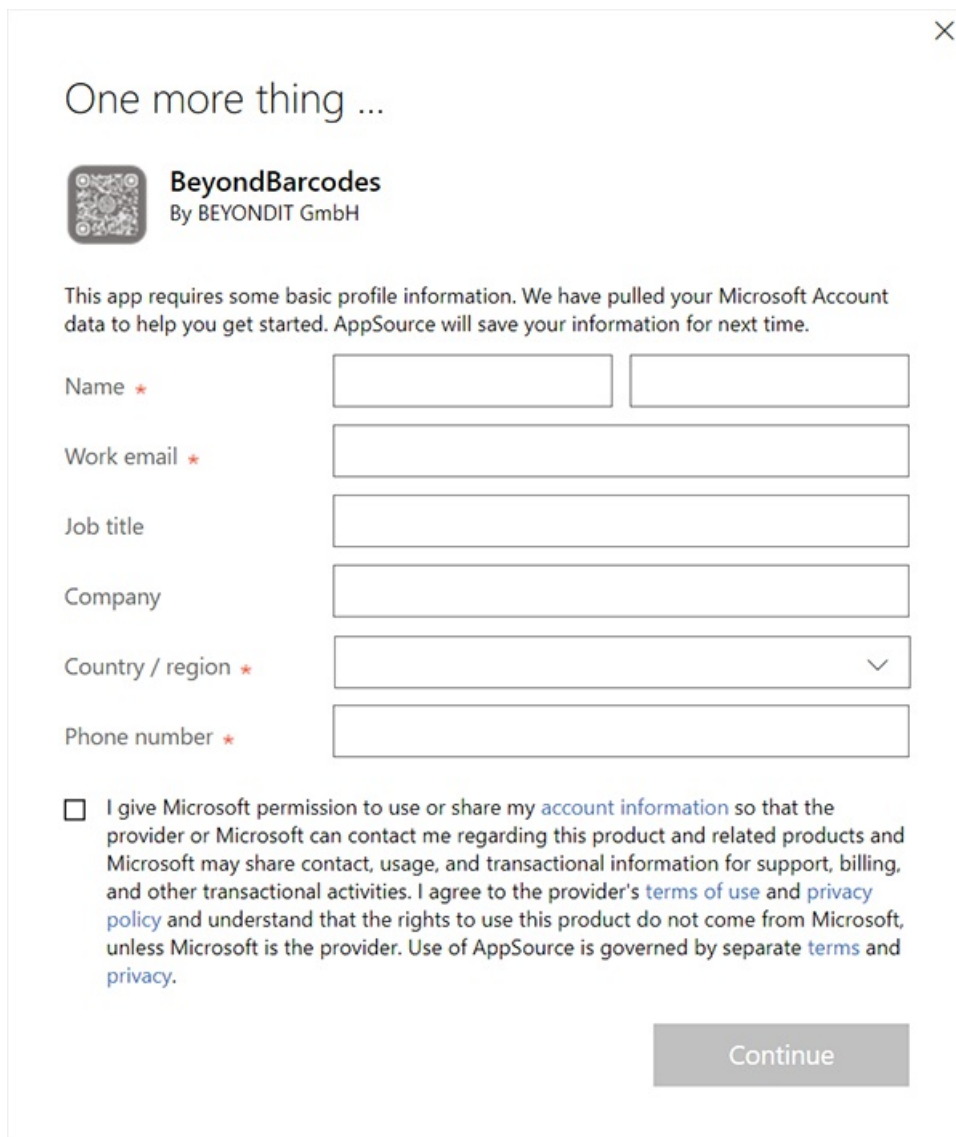
[Next chapter](#)

Install BEYOND Barcodes


BEYOND Barcodes can be downloaded from the Microsoft AppSource or installed directly from Business Central. The following section describes how to install the extension via Business Central.

1. Open your Business Central.
2. From the role center, open the search (**ALT+Q**) .
3. Search for **Extension Marketplace** and click on the corresponding search result. The page **Extension Marketplace** is displayed.
4. Enter **BEYONDIT GmbH** in the search and press ENTER. Searching for BEYONDIT GmbH will ensure that you install the correct extension.
5. Choose **BEYOND Barcodes** from the search results.

The following window is displayed:



One more thing ...

 **BeyondBarcodes**
By BEYONDIT GmbH

This app requires some basic profile information. We have pulled your Microsoft Account data to help you get started. AppSource will save your information for next time.

Name *

Work email *

Job title

Company

Country / region *

Phone number *

I give Microsoft permission to use or share my [account information](#) so that the provider or Microsoft can contact me regarding this product and related products and Microsoft may share contact, usage, and transactional information for support, billing, and other transactional activities. I agree to the provider's [terms of use](#) and [privacy policy](#) and understand that the rights to use this product do not come from Microsoft, unless Microsoft is the provider. Use of AppSource is governed by separate [terms](#) and [privacy](#).

Continue

Install BEYOND Barcodes

6. Complete the information in the window. Select the checkbox, to allow Microsoft to share these information with us. Click **Continue**. The following window is displayed:

Extension Installation



Review Extension Information before installation

Name	BeyondBarcodes
Publisher	BEYONDIT GmbH
Language	English (United States) ...

Terms and Conditions

Privacy Statement

I accept the terms and conditions

[Read more about the best practices for installing and publishing extensions](#)

Extension Installation

7. Choose the language for BEYOND Barcodes and click **Install**.


BEYOND Barcodes is installed to your Business Central.

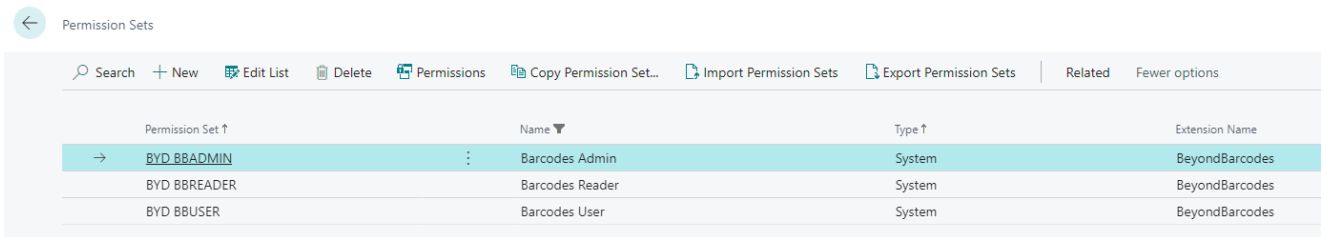
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Assign User Permission Set for the Setup of BEYOND Barcodes

All setup for BEYOND barcodes is done on a dedicated page (**Barcode setup**). Access to this page is restricted to prevent accidental changes to the settings. To set up access to this page for users, users must be assigned the **BYD BBADMIN** permission set.

To assign the **BYD BBADMIN** authorization set to a user, proceed as follows:

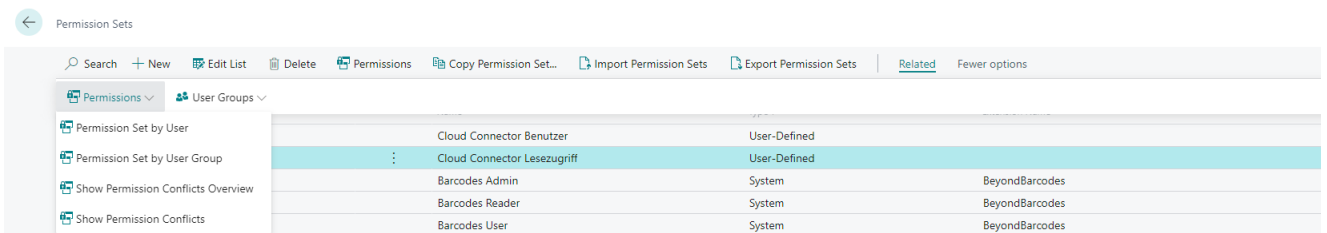
1. Open your Business Central.
2. From the Role Center, open the search (**ALT+Q**) .
3. Search for **Permission Sets** and click on the corresponding search result.
The **Permission Sets** page is displayed.



Permission Set ↑	Name ▼	Type ↑	Extension Name
→ BYD BBADMIN	Barcodes Admin	System	BeyondBarcodes
BYD BBREADER	Barcodes Reader	System	BeyondBarcodes
BYD BBUUSER	Barcodes User	System	BeyondBarcodes

BYD BBADMIN Permission Set

4. You can assign the **BYD BBAdmin** permission set for a single user oder for a user group. For the following description, we assume that you want to set the permission set at the user level. Click **Related > Permissions > Permission Set by User**.



Permission Set by User	Name	Type	Extension Name
Cloud Connector Benutzer	User-Defined		
Cloud Connector Lesezugriff	User-Defined		
Barcodes Admin	System		BeyondBarcodes
Barcodes Reader	System		BeyondBarcodes
Barcodes User	System		BeyondBarcodes

Permission Set per User

5. The **Permission Set by User** pag is displayed. From the **Company Name** drop-down menu, select the company for which you want to grant a user access to the BEYOND Barcodes setup page.
6. Select the **BYD BBADMIN** permission set from the table and select the check box for this user.

This user now has permission to view the **Barcode Setup** page.

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Set up BEYOND Barcodes


This section describes how to set up the BEYOND Barcodes extension for your Business Central. The **Capacity Token** and the **Manage Token** are required for the setup. These are provided by your vendor.

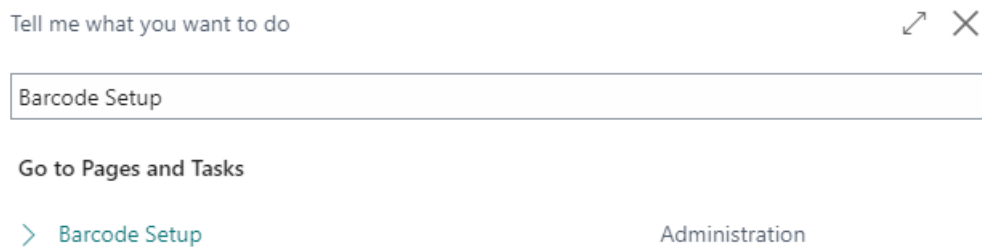
NOTE

User Permission Set Required

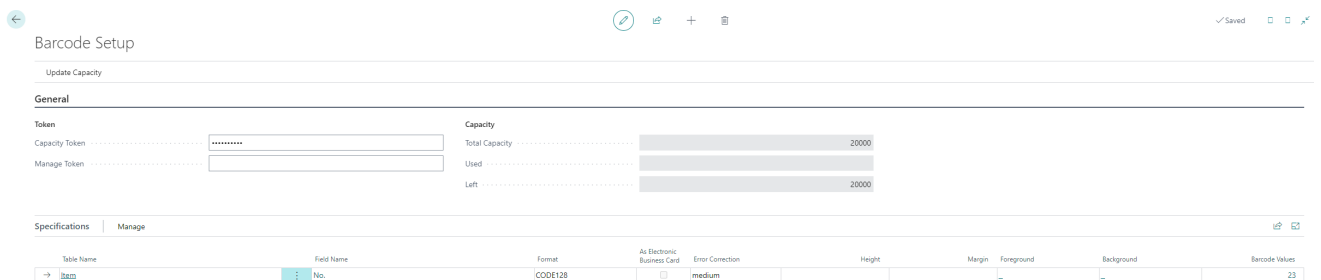
To be able to search for the **Barcode Setup** page you need to have the proper user permissions set. Ask your Business Central administrator for the corresponding user permission set. More information about the user permission sets can be found under "**Assign User Permission Set for the Setup**".

To set up the extension, proceed as follows:

1. Open your Business Central.
2. From the role center, open the search (**ALT+Q**) .
3. Search for **Barcode Setup** and click on the corresponding search result.

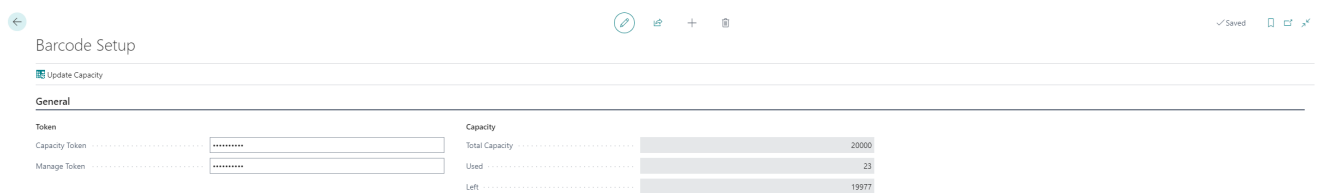


4. The **Barcode Setup** page is displayed.



Barcode Setup Page

5. Enter the tokens in the fields on the page.
6. In the menu bar, click on **Update Capacity**. The fields **Total Capacity**, **Used** and **Remaining** are updated.



Update Capacity

The update of the fields indicate that the set up of the extension was completed. The API can now be used to generate barcodes.

Define Fields for Barcode Generation

This section describes how you can define which values (or information) of fields should be displayed as barcodes. We have provided use cases for you to get a better understanding of how you can use the extension.

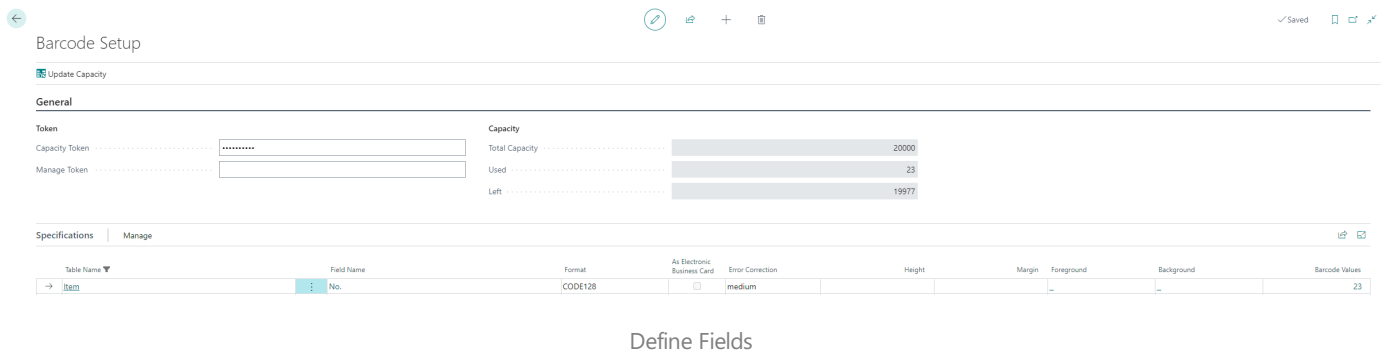
Barcodes for Item Nos.

Barcodes are often used to represent item numbers. The following use case describes how to set up the extension to generate item numbers as barcodes in Business Central.

To define that item numbers are generated as barcodes, do the following:

1. Open your Business Central.
2. Search for **Barcode Setup** and click on the corresponding search result.
The **Barcode Setup** page is displayed.
3. Scroll down to the **Specifications** table and click on **Manage > New Line**.
4. A new line is added to the table. Add the following information:

Column	Description
Table Name	In this field you specify the table from which you want a field information (to be generated as a barcode) to come from. In our example, you would specify the Item table (ID: 27).
Field Name	In this field you specify the field of the table in which a value is to be created as a barcode. In our example, you would specify the No. field (ID: 1).
Format	In this field you define the format of the barcodes to be generated. You can choose between 15 different formats (including QR codes). In our example we use the Code128 format.
As Electronic Business Card	Select this checkbox if you want an electronic business card to be created. This option should be enabled only if you want to exchange contact information. For our example, this option should not be enabled.
Error Correction	In this field you can define the error correction for the barcode generation. The default setting is medium .
Height	In this field you define the height of the barcodes in pixels. If you do not define a height, the default setting is used. The default setting is 100 pixel.
Margin	In this field you define the margin of the barcodes in pixels. If you do not define a margin, the default value is used. The default value is 10 pixels.
Foreground	In this field you define the color of the barcodes. If you do not define a color, the default setting is used. The default setting is black (#00000).
Background	In this field you define the background color of the barcodes. If you do not define a background color, the default setting is used. The default setting is white (#ffffff).
Barcode Values	This field is automatically filled by the system. This field displays the number of generated barcodes in the system for the table an field combination.



QR Codes for Contacts

You can also use the extension to create electronic business cards for contacts. These business cards (QR codes) can be used to exchange contact information quickly and easily.

To set up BEYOND Barcodes so that QR codes can be used as electronic business cards, proceed as follows:

1. Open your Business Central.
2. Search for **Barcode Setup** and click on the corresponding search result.
The **Barcode Setup** page is displayed.
3. Scroll down to the **Specifications** table and click on **Manage > New Line**.
4. A new line is added to the table. Add the following information:

Column	Description
Table Name	In this field you specify the table from which you want a field information (to be generated as a QR Code) to come from. In our example, you would specify the Contact table (ID: 5050).
Field Name	In this field you specify the field of the table in which a value is to be created as a QR Code. In our example, you would specify the No. field (ID: 1).
Format	In this field you define the format of the barcodes to be generated. You can choose between 15 different formats (including QR codes). In our example we use the QR Code format.
As Electronic Business Card	Select this checkbox if you want an electronic business card to be created. This option should be enabled only if you want to exchange contact information. <u>For our example this option should be selected.</u>
Error Correction	In this field you can define the error correction for the QR code generation. The default setting is medium .
Height	In this field you define the height of the QR Codes in pixels. If you do not define a height, the default setting is used. The default setting is 100 pixel.
Margin	In this field you define the margin of the QR Codes in pixels. If you do not define a margin, the default value is used. The default value is 10 pixels.
Foreground	In this field you define the color of the QR Codes. If you do not define a color, the default setting is used. The default setting is black (#00000).
Background	In this field you define the background color of the QR Codes. If you do not define a background color, the default setting is used. The default setting is white (#ffffff).
Barcode Values	This field is automatically filled by the system. This field displays the number of generated barcodes in the system for the table an field combination.

Barcode Setup

Update Capacity

General

Token

Capacity Token [.....]

Manage Token [.....]

Capacity

Total Capacity 20000

Used 23

Left 19977

Specifications | Manage

Table Name	Field Name	Format	As Electronic Business Card	Error Correction	Height	Margin	Foreground	Background	Barcode Values
→ Contact	No.	QR Code	<input checked="" type="checkbox"/>	medium	10.00	10.00	-	-	27
Employee	No.	QR Code	<input checked="" type="checkbox"/>	medium	10.00	10.00	-	-	7

Setup Electronic Business Card

The electronic business cards have been set up. To create the business cards, the barcode values must be updated. Once the barcode values are updated (see section [Update barcode values](#)), the business cards (QR codes) will be displayed in the info box area on the right side of the screen.


Contacts

Search + New Manage Process Contact Navigate More options

No.	Name T	Company Name T	Contact Business Relation	Phone No.	Email	Salesperson Code	Territory Code
KT000001	Adatum Corporation	Adatum Corporation	Customer		adatum.corporation@contoso.com	DH	
KT000002	Jakob Otto	Adatum Corporation	Customer	+49 431 3630 3700	jakob.otto@contoso.com	DH	
KT000007	Alpine Ski House	Alpine Ski House	Customer		alpine.ski.house@contoso.com	DH	AUSLAND
KT000008	Ian DeBerry	Alpine Ski House	Customer		ian.deberry@contoso.com	DH	AUSLAND
KT000024	BEYONDIT GmbH	BEYONDIT GmbH	None	+49 431 3630 3700	hello@beyondit.gmbh	DG	
KT000029	Sascha Fischer	BEYONDIT GmbH	None	+49 431 3630 3777	hello@beyondit.gmbh	DG	
KT000011	Fabrikam, Inc.	Fabrikam, Inc.	Vendor		fabrikam.inc@contoso.com	EK	AUSLAND
KT000012	Krystal York	Fabrikam, Inc.	Vendor		krystal.york@contoso.com	EK	AUSLAND
KT000013	First Up Consultants	First Up Consultants	Vendor		first.up.consultants@contoso.com	EK	
KT000014	Falk Neuman	First Up Consultants	Vendor		falk.neuman@contoso.com	EK	

Details Attachments (0)

Barcode



Electronic Business Card for a Contact


You can also set up these electronic business cards for your employees.

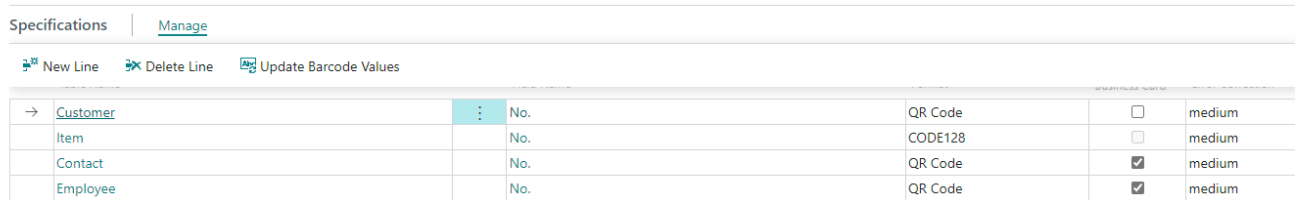
[Next chapter](#)

Update Barcode Values

If you define a new barcode for your Business Central or if you make changes to an already defined barcode on the setup page, you need to update existing barcodes or create new one for the defined format. This task can be time-consuming if you do it manually. We have added a button which allows you to update the barcode values globally.

To generate barcodes or replace already existing barcodes with batch processing, proceed as follows:

1. Open your Business Central.
2. From the role center, open the search (**ALT+Q**) .
3. Search for **Barcode Setup** and click on the corresponding search result. The page **Barcode Setup** is displayed.
4. In the table **Specifications**, click **Manage > Update Barcode Values**.

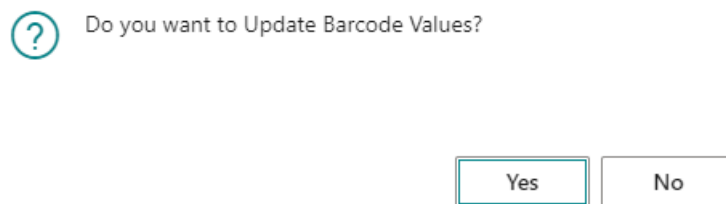


The screenshot shows the 'Specifications' table in the Barcode Setup page. The 'Manage' tab is active, and the 'Update Barcode Values' button is highlighted. The table contains the following data:

→	Customer	:	No.	QR Code	<input type="checkbox"/> medium
	Item		No.	CODE128	<input type="checkbox"/> medium
	Contact		No.	QR Code	<input checked="" type="checkbox"/> medium
	Employee		No.	QR Code	<input checked="" type="checkbox"/> medium

Update Barcode Values

5. A dialog is displayed asking you if you want to update the barcode values.



Update Barcode Values Dialog

6. Click **Yes**.
7. Another dialog is displayed. You are asked if you want to update only existing barcodes.
8. If you want to update the existing barcodes, click **Yes**.

The barcodes are generated by the API and will be replaced by the extension.

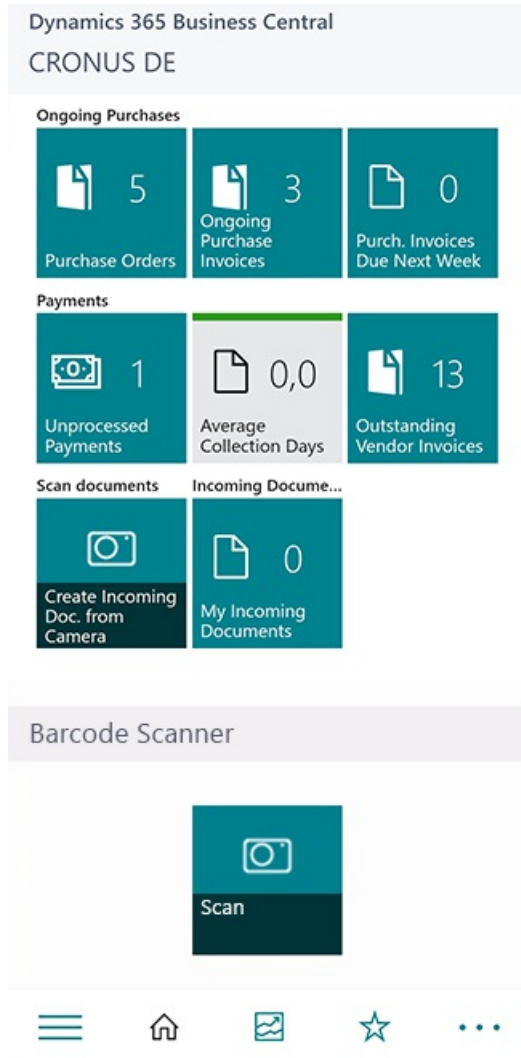
[Next chapter](#)

Scan Barcodes

The extension adds a barcode scanner to your role center. This barcode scanner can be used with any compatible device with a camera.

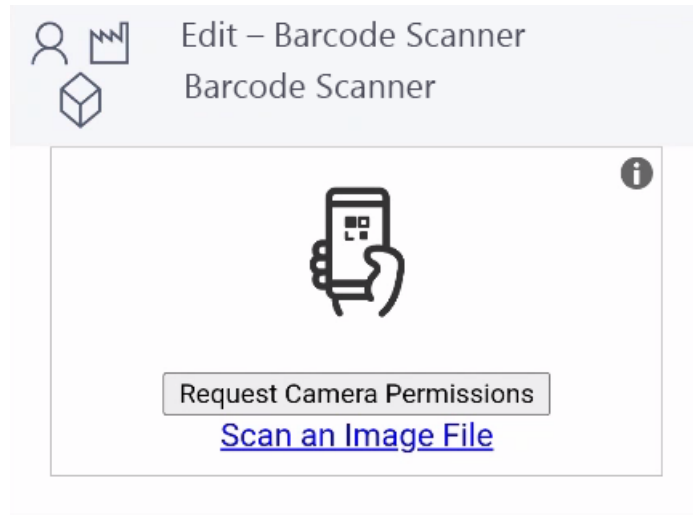
For the following description we used a mobile device (Android operating system).

1. Open your Business Central on your mobile device.
2. From the role center, scroll down to the **Barcode Scanner** pane.



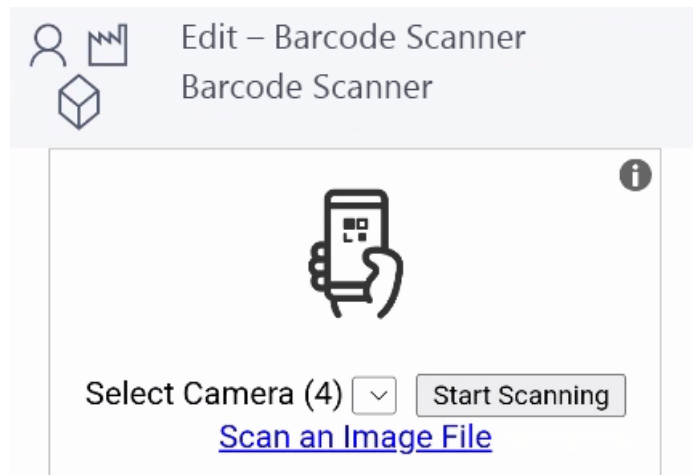
Business Central App

3. Tap on the **Scan** tile.
The **Edit – Barcode Scanner** is displayed. To be able to scan barcodes with the camera of your mobile device you need to grant permissions to access the camera.
4. Tap **Request Camera Permissions**.



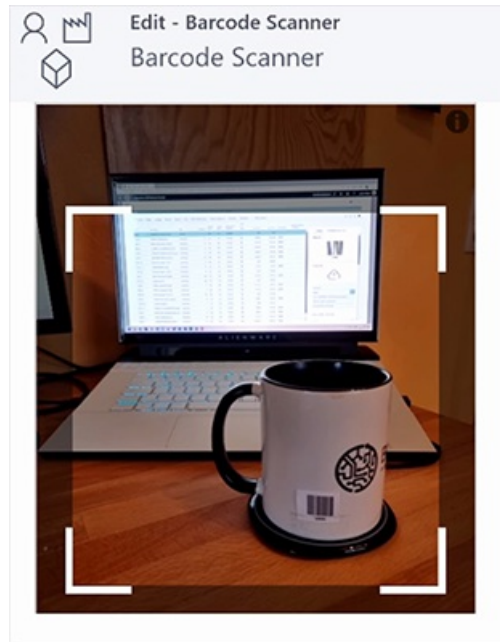
Request Camera Permissions

5. If your mobile device has more than one camera, you need to specify which camera should be used to scan the barcode. Tap the dropdown symbol next to the option **Select Camera**.



Select Camera

6. Tap **Start Scanning**.
7. Scan the barcode on the item.



Scan Barcode

The view in your Business Central app is switched to the item card of the scanned item.

Edit - Item Card
1001 · BEYONDIT Coffee Mug

Item Show more

No. ...

Description

Blocked



Type ▾

Base Unit of Measure ...

Item Category Code ...

Inventory Show more

Shelf No.

Item Card in Mobile App

[Next chapter](#)

Create Barcode Print Layout

This chapter describes how to create a print layout for barcodes.

To create a print layout for barcodes, proceed as follows:

1. Open the search field (ALT+Q) and search for the page **Barcode Print Layouts**.
2. The **Barcode Print Layouts** page is displayed.

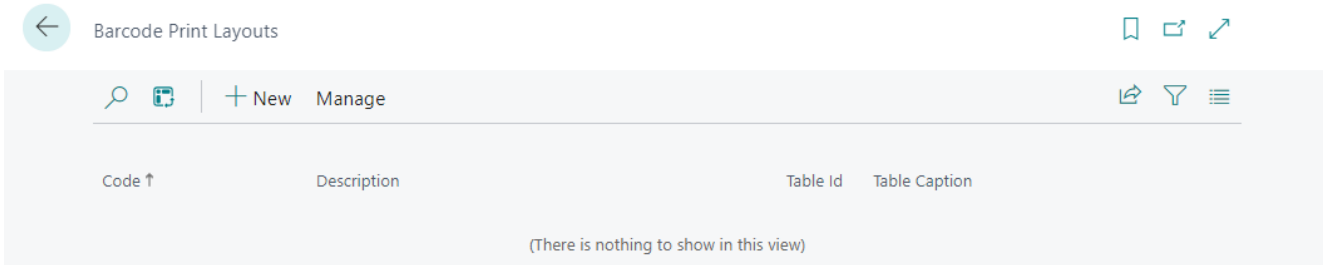


Figure: Barcode Print Layouts

3. To create a new print layout for barcodes, click on the **New** option in the menu bar.
4. A new card for a barcode print layout is displayed.

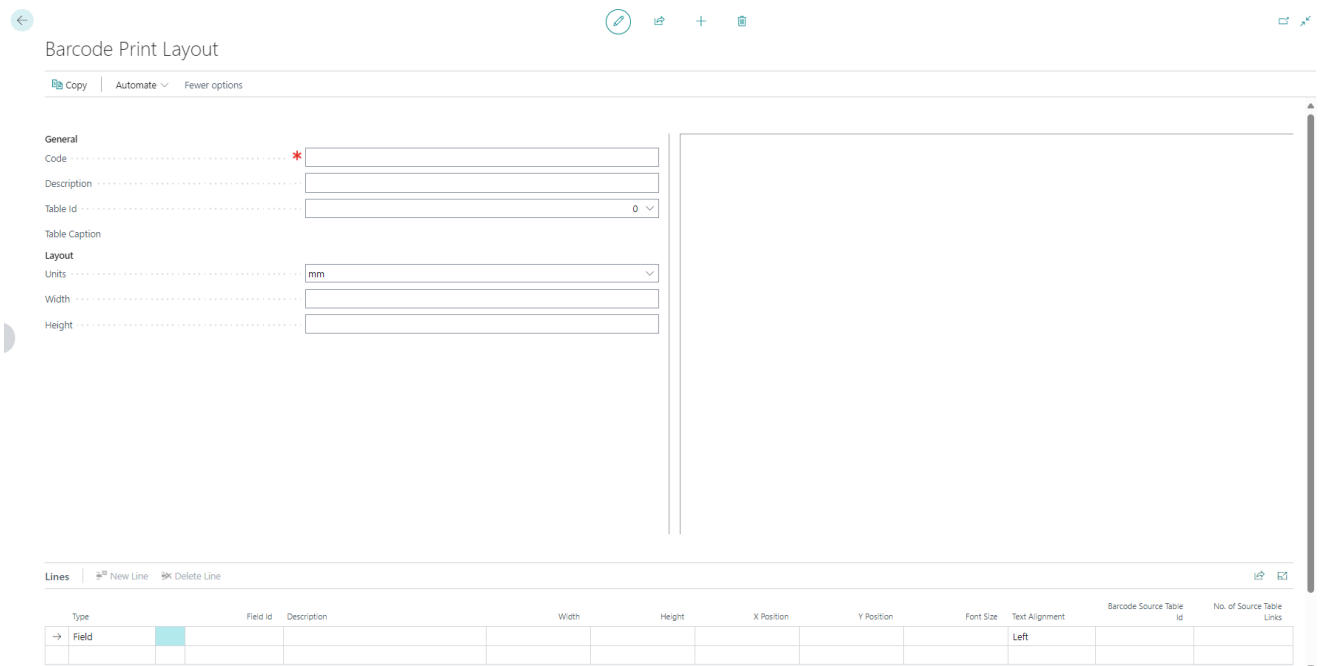


Figure: Barcode Print Layout Card

5. Enter a code for the print layout in the **Code** field.
6. Enter a description for the print layout in the **Description** field.
7. Enter a table ID in the **Table ID** field.
8. In the **Layout** area, you can set the unit for the size of the barcode print layout.
9. Define the width and height of the barcode print layout.
10. You can add information to the barcode print layout in the **Lines** area. For example, if you want to create a barcode print layout for items, you can add the following information:

Type	Field ID	Description	Width	Height	X Position	Y Position	Font Size	Txt Alignment	Barcode Source Table ID	No. of Source Table Links
Field	3	Description	-	-	2.00	3.00	6.00	Left	-	-
Barcode	-	-	-	-	2.00	3.00	6.00	Left	-	-

Barcode Print Layout

40X20-WO-SP

Copy | Automate | Fewer options

Layout

Units mm

Width 40.00

Height 20.00

BEYONDIT Coffee Mug
1000

BEYONDIT Pen
1001

BEYONDIT Pen
1002

Lines | New Line | Delete Line

Type	Field Id	Description	Width	Height	X Position	Y Position	Font Size	Text Alignment	Barcode Source Table Id	No. of Source Table Links
Field	3	Description			9.00	4.00	6.00	Left		
Barcode			30.00	15.00	5.00	5.00		Left		

Figure: Barcode Print Layout

Troubleshooting and FAQ

Question/Problem	Solution
Could you extend the extension so we can use barcodes on other pages than the specified ones?	Please contact us if you want to use the extension in a different way than the specified use cases. We can customize the app to your needs.
Do I need to change the token every month?	The token and the number of barcodes that can be generated with it stays the same. The token is not changed.
I did not receive a token...	Please check the inbox of your email account. Please also check if the mail with the token is in your SPAM.
I want to switch zu a different costing plan.	You can switch to a different costing plan at the beginning of every month (if no other agreements have been made), just contact us.

Contact Details

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