

iOS Change of Stock App for SAP® Business ByDesign

The iOS Change of Stock App for SAP® Business ByDesign has been designed to be really simple to use, especially if you have barcoded labels and logistics area locations within your warehouse. It is available on the App Store at: <https://apps.apple.com/gb/app/change-of-stock/id1550654349>

To confirm a change of stock via the app, you only need to enter the source logistics area (where the stock currently is), the product code, identified stock ID if applicable, the quantity being changed, whether the stock is currently marked as restricted or inspection and then the new restricted or inspection status.

Then just click the 'Confirm' button!

If you have enabled multiple line items in the app settings then the process is very similar, just press the 'Add Item' button after each product and then when you have added the last one, click 'Confirm' to save the change of stock confirmation.

If you have barcodes configured on your logistics areas and products, you can simply click the barcode icon to the right of the source logistics area field or the big 'Scan Product Label' button.

The app supports many barcode types although we do recommend QR codes if possible as the iPhone decodes these much quicker and from a further distance than 1D barcodes.

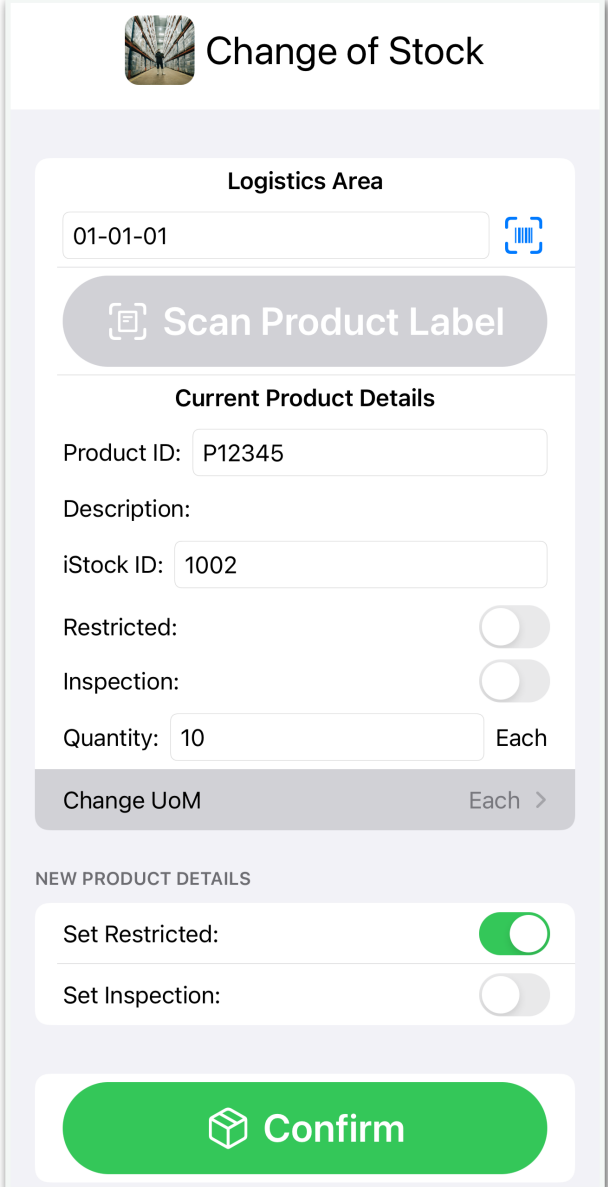
The barcode types supported are:

1D: Code 128, Code 39, Code 39 (Mod43), Code 93, EAN8, EAN13, Interleaved 2 of 5, ITF-14 and UPC-E

2D: QR Code, PDF417, Data Matrix and Aztec

When you scan the product label barcode, the app will then query your ByDesign system to get the label details, including product details, identified stock (if applicable) and the quantity on the label. This may take a few seconds depending on your network speed. You can amend the quantity manually if you are moving more than the label quantity.

Please note that the product description will only appear if you are scanning a product label. For manual entry, only the product ID is required.



The screenshot shows the 'Change of Stock' app interface. At the top, there is a header with a warehouse image and the title 'Change of Stock'. Below this is a 'Logistics Area' section with a text input field containing '01-01-01' and a barcode icon to its right. A large green button labeled 'Scan Product Label' is positioned below the logistics area. The 'Current Product Details' section includes: 'Product ID' (P12345), 'Description' (empty), 'iStock ID' (1002), 'Restricted' (toggle off), 'Inspection' (toggle off), 'Quantity' (10) with a unit dropdown set to 'Each'. Below this is a 'Change UoM' section with a dropdown set to 'Each' and a right arrow. The 'NEW PRODUCT DETAILS' section has two toggle switches: 'Set Restricted' (checked) and 'Set Inspection' (unchecked). At the bottom is a large green 'Confirm' button with a cube icon.

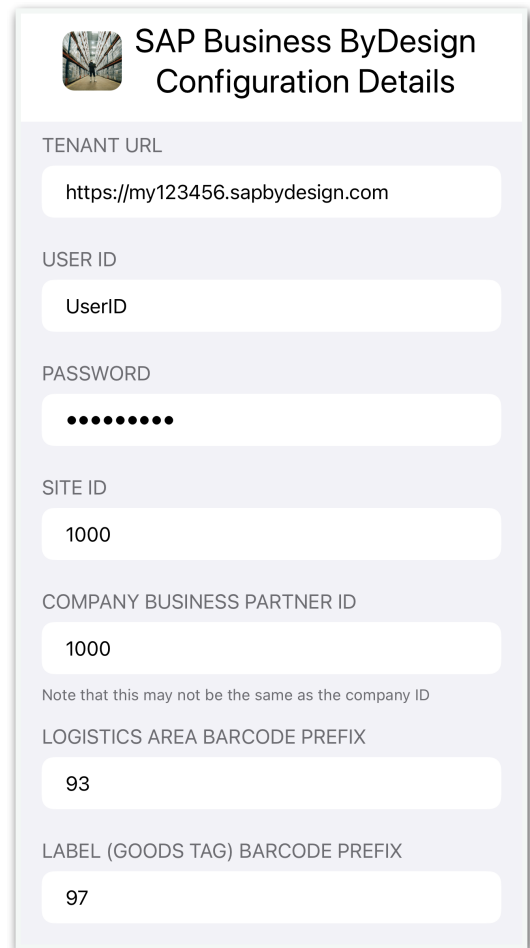
Application Settings

The first time you use the app you will be directed to the application settings screen where you can enter the ByDesign system URL, username and password that will be used to connect to your system. You can also enter your company business partner and site IDs - please remember that if you go to a different warehouse on another site you will need to update this before completing any new change of stock confirmations!

Be aware that your company business partner ID may not be the same as the company ID used in the system. You can determine this by searching for your company name in Business Partners or if in doubt please ask your system administrator or SAP partner.

If you are using application identifiers on your barcodes, which is quite common if you are using them elsewhere in the system, then you can enter these here too. The standard ByDesign application identifiers are:

- Logistics Area: 93
- Label ID: 97



SAP Business ByDesign Configuration Details

TENANT URL
https://my123456.sapbydesign.com

USER ID
UserID

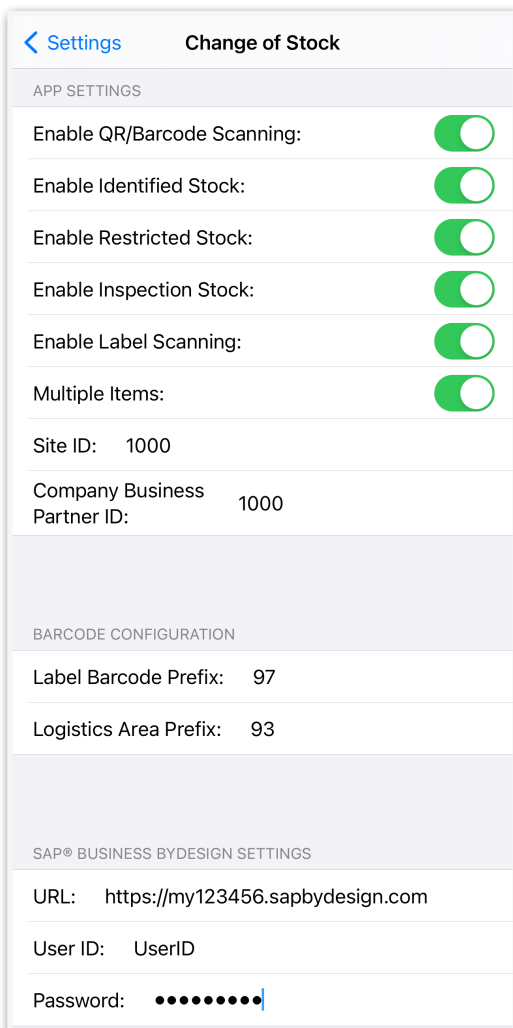
PASSWORD
••••••••

SITE ID
1000

COMPANY BUSINESS PARTNER ID
1000
Note that this may not be the same as the company ID

LOGISTICS AREA BARCODE PREFIX
93

LABEL (GOODS TAG) BARCODE PREFIX
97



Settings Change of Stock

APP SETTINGS

Enable QR/Barcode Scanning:

Enable Identified Stock:

Enable Restricted Stock:

Enable Inspection Stock:

Enable Label Scanning:

Multiple Items:

Site ID: 1000

Company Business Partner ID: 1000

BARCODE CONFIGURATION

Label Barcode Prefix: 97

Logistics Area Prefix: 93

SAP® BUSINESS BYDESIGN SETTINGS

URL: https://my123456.sapbydesign.com

User ID: UserID

Password: ••••••••

Within the iPhone settings app, you have some additional configuration options to disable barcode scanning, disable identified stock and update the ByDesign settings available within the app itself. You can also amend the permissions for camera access and check which version of the app you have installed.

Enable QR/Barcode Scanning: This enables or disables logistics area barcode scanning

Enable Identified Stock: This enables or disables the identified stock field; however a scanned label will always include the identified stock regardless of this app setting

Enable Restricted Stock: This enables or disables the restricted stock toggles

Enable Inspection Stock: This enables or disables the inspection stock toggles

Enable Label Scanning: This enables or disables the ability to scan a product label

Multiple Items: This enables the ability to change the stock for multiple items in one confirmation. Disable this if you only process one item at a time

SAP® Business ByDesign Configuration

In order for the app to work with your Business ByDesign system you will need to create a new communication arrangement.

You can view the official Communication Arrangements Quick Guide at: <https://help.sap.com/viewer/7c182c462ec043cba338a30b952068c7/2005/en-US/2dd4cb73722d1014938ec0c0927d57ed.html?q=communication%20arrangement>

Please ensure you set the user authentication method to be username and password.

The web services, or APIs, required for the Change of Stock app are:

- Read Goods Tags
- Query Identified Stocks
- Query Materials
- Create Goods and Activity Confirmations for Change of Stock
- Query Code Lists

To create the communication arrangement, please follow these steps:

1. Go to Application and User Management - Communication Systems
2. Create a new communication system:
 - 2.1.ID: CHANGESTOCK
 - 2.2.Host Name: CHANGESTOCK
 - 2.3.System Access Type: Internet
 - 2.4.Add a System Instance with ID: CHANGESTOCK and Preferred Application Protocol: 5 - Web Service
 - 2.5.Click Save and then activate it (Actions button)
 - 2.6.Finally click Save and Close

The screenshot shows a configuration form for a communication system. It is divided into several sections: Basic Information, Internal Comment, Technical Contact, and System Instances. The Basic Information section contains fields for ID (CHANGESTOCK), SAP Business Suite (unchecked), Host Name (CHANGESTOCK), and System Access Type (Internet). The Internal Comment section is empty. The Technical Contact section has fields for First Name, Last Name, Email, Phone, and Fax, all of which are empty. The System Instances section has 'Add Row' and 'Remove' buttons. Below these buttons is a table with two columns: 'System Instance ID' and 'Preferred Application Protocol'. The table contains one row with 'CHANGESTOCK' in the first column and '5 - Web Service' in the second column.

System Instance ID	Preferred Application Protocol
CHANGESTOCK	5 - Web Service

3. Now go to Application and User Management - Communication Scenarios
4. Create a new communications scenario:
 - 4.1. Communication Scenario Name: CHANGESTOCK
 - 4.2. Add the following operations (there are the Service Descriptions):

- 4.2.1. Create Goods and Activity Confirmations (Operation Description: Create goods and activity confirmation for change of stock)
- 4.2.2. Read Goods Tag
- 4.2.3. Find Identified Stocks
- 4.2.4. Find Materials
- 4.2.5. Find Code Lists
- 4.3. Click Save and Close to finish

Available Operations

Add Ope...	Release Status	Operation Description	Service Description	Service Name	De... Obj... ser...
	<input type="checkbox"/>	Find code lists	Query Code Lists	QueryCodeListIn	<input type="checkbox"/>

Communication Scenario *

Assigned Operations

[Remove](#) | [Add Operations](#)

Release Status	Operation Description	Service Description	Service Name	Dependent Object Service
<input type="checkbox"/>	Create goods and activity confirmations for change of...	Create Goods and Activity Confirmations	InventoryProcessingGoodsAndActivityConfir...	<input type="checkbox"/>
<input type="checkbox"/>	Find code lists	Query Code Lists	QueryCodeListIn	<input type="checkbox"/>
<input type="checkbox"/>	Find identified stocks	Query Identified Stocks	QueryIdentifiedStocksIn	<input type="checkbox"/>
<input type="checkbox"/>	Find materials	Query Materials	QueryMaterialIn	<input type="checkbox"/>
<input type="checkbox"/>	Read goods tags	Read Goods Tag	ManageGoodsTagIn	<input type="checkbox"/>

- 5. Go to Application and User Management - Communication Arrangements
- 6. Click New to create a new communication arrangement:
 - 6.1. Communication scenario = CHANGESTOCK

1 Select Scenario | 2 Define Business Data | 3 Define Technical Data | 4 Review | 5 Confirmation

[Previous](#) | [Next](#) | [Finish ?](#) | [Close](#) | [Preview](#) | [Check Completeness ?](#) | [Save as Draft ?](#)

Communication Scenarios

Communication Scenario	Communication Type
CHANGESTOCK	Application Integration

6.2. Click Next

6.3. System Instance ID = CHANGESTOCK

1 Select Scenario 2 Define Business Data 3 Define Technical Data 4 Review 5 Confirmation

< Previous Next > Finish ? Close | Preview Check Completeness ? Save as Draft ?

Communication System My Communication Data

System Instance ID: * CHANGESTOCK My System:

Communication System: CHANGESTOCK

6.4. Click Next

6.5. Authentication Method = User ID and Password

6.6. Click Edit Credentials to set the password

1 Select Scenario 2 Define Business Data 3 Define Technical Data 4 Review 5 Confirmation

< Previous Next > Finish ? Close | Preview Edit Advanced Settings Check Completeness ? Save a

Communication Method: Direct Connection

Inbound Communication: Basic Settings Outbound Communicati

Inbound Communication Enabled: No Outbound Communi

Application Protocol: * Web Service

Authentication Method: * User ID and Password

User ID: * _CHANGESTOCK Edit Credentials

Services Used

Query Materials	Uses Basic Settings	Enabled
Query Code Lists	Uses Basic Settings	Enabled
Read Goods Tag	Uses Basic Settings	Enabled
Create Goods and Activitv...	Uses Basic Settings	Enabled

6.7. Click Next

6.8. Click Finish

Now use the user ID _CHANGESTOCK and the password you entered in step 6.6 into the app settings!