

iOS Scrapping Stock App for SAP® Business ByDesign

The iOS Scrapping 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/scrap-stock/id1554681169>.

To confirm a scrapping via the app, you only need to enter the source logistics area (where you are taking the goods from), the product code, identified stock ID if applicable, the quantity being scrapped and whether the stock is marked as restricted. 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 when you have added the last one, press 'Confirm' to save the scrapping confirmation.

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

The app supports many barcode types although it is recommended to use 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 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 scrapping more than the label quantity.

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

The screenshot shows the 'Scrapping Stock' app interface. At the top, there is a trash can icon and the title 'Scrapping Stock'. Below this is a 'Source Logistics Area' section with a text input field containing '01-01-01' and a barcode icon to its right. A large green button with a barcode icon and the text 'Scan Product Label' is positioned below the source logistics area. The 'Product Details' section follows, containing several input fields: 'Product ID' with 'SKU2', 'Description' (empty), 'iStock ID' with '123456', 'Restricted' with a toggle switch, and 'Quantity' with '12' and a unit dropdown set to 'Liter'. Below these fields is a 'Change UoM' section with a dropdown menu currently showing 'Liter >'. A large green button with a plus icon and the text 'Add to Items List' is located below the product details. At the bottom, there is a section titled 'ITEMS BEING SCRAPPED:' containing a list item 'SKU1 - 50 Kilogram' with a circular icon to its left. A final large green button with a cube icon and the text 'Confirm' is at the very bottom.

Application Settings

The first time you use the app you will be directed to the application settings screen where you can enter your SAP Business ByDesign system URL and the communication arrangement username and password that will be used to connect to your system. You must 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 scrapping confirmations!

Please be aware that your company's 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 producing them directly from the system, then you can enter these here too.

The standard SAP Business ByDesign application identifiers are:

- Logistics Area: 93
- Label ID: 97

SAP Business ByDesign Configuration Details

Show Help

TENANT URL
https://my123456.sapbydesign.com

USER ID
MyUserID

This is the communications arrangement user id and password, not your usual SAP Business ByDesign user account!

PASSWORD
.....

SITE ID
1234

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 Scrap Stock

APP SETTINGS

Enable QR/Barcode Scanning:

Enable Identified Stock:

Enable Restricted Stock:

Enable Label Scanning:

Multiple Items:

Site ID: 1234

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: MyUserID

Password:

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

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

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

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

Enable Restricted Stock: This enables or disables the restricted stock toggle.

Multiple Items: This enables the ability to scrap multiple items of stock in one confirmation. Disable this if you only scrap one item of stock 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 Scrapping Stock app are:

- Read Goods Tags
- Query Identified Stocks
- Query Materials
- Create Goods and Activity Confirmations for Goods Scrapping
- 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: SCRAPPING
 - 2.2.Host Name: SCRAPPING
 - 2.3.System Access Type: Internet
 - 2.4.Add a System Instance with ID: SCRAPPING and Preferred Application Protocol: 5 - Web Service

The screenshot shows the SAP Business ByDesign configuration interface for creating a communication arrangement. It is divided into several sections:

- Basic Information:** ID: * (SCRAPPING), SAP Business Suite: , Host Name: (SCRAPPING), System Access Type: * (Internet).
- Internal Comment:** A large empty text area.
- Technical Contact:** Fields for First Name, Last Name, Email, Phone, and Fax.
- System Instances:** Includes 'Add Row' and 'Remove' buttons, and a table with one instance.

System Instance ID	Preferred Application Protocol
SCRAPPING	5 - Web Service

2.5.Click Save and then activate it (Actions button)

2.6.Finally click Save and Close

3. Now go to Application and User Management - Communication Scenarios
4. Create a new communications scenario:
 - 4.1. Communication Scenario Name: SCRAPPING
 - 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 goods scrapping)
 - 4.2.2. Read Goods Tag
 - 4.2.3. Query Identified Stocks
 - 4.2.4. Query Materials
 - 4.2.5. Query Code Lists
 - 4.3. Click Save and Close to finish

Available Operations

Add Oper...	Release Status	Operation Description	Service Description	Service Name
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Find code lists	Query Code Lists	QueryCodeListIn

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 goods scrapping	Create Goods and Activity Confirmations	InventoryProcessingGoodsAndActivityConfirmatio...	<input type="checkbox"/>
<input checked="" 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 = SCRAPPING

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
SCRAPPING	Application Integration

6.2. Click Next

6.3. System Instance ID = SCRAPPING

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 Da

System Instance ID: * SCRAPPING My System:

Communication System: SCRAPPING

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 as Draft ?

Communication Method: Direct Connection

Inbound Communication: Basic Settings Outbound Communication: Basic Settings

Inbound Communication Enabled: No Outbound Communication

Application Protocol: * Web Service

Authentication Method: * User ID and Password

User ID: * _SCRAPPING 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 Activity C...	Uses Basic Settings	Enabled
Query Identified Stocks	Uses Basic Settings	Enabled

6.7. Click Next

6.8. Click Finish

Now use the user ID `_SCRAPPING` and the password you entered in step 6.6 in the app settings!