iOS Introduction
2.3.02 Barcode Scanning

Purpose

Liquid UI for iOS supports barcode scanning using a built-in camera or a third party device like Linea Pro. It enables you to populate the data on any SAP input field with a single click. It supports both: 1D and 2D barcode scanning. Furthermore, edit the scanned data or program an action after scanning to trigger events like auto-populate, auto-enter or auto-tabbing.

For instance, auto PO Number, Line Item and Quantity fields for your PO Receipts process with a single barcode scan – removing data entry errors and enabling automated data capture.

It is a rule-based barcode integration where you can configure barcode scanner based on the selected barcode type in your App.

- **Rule 1:** You can add or remove prefixes and suffixes from the scanned value based on a barcode type.
- **Rule 2:** You can program scanned data to trigger actions like auto-populate or auto-enter after scanning data.
- **Rule 3:** The default configuration is applied to all the barcode scan, if rule based on barcode type is not defined.
- **Rule 4:** You can also determine action like scan, done, tab, or return later, at the time of barcode scanning.

Note: The app provides advanced rule-based barcode integration where you can either pre-configure barcode scanner from the Main Menu or determine action after each barcode scan.

- Minimum Requirements
- Supporting barcode formats
- Pre-configuring barcode scanner
- Scanning 1D barcode
- Scanning 2D barcode

Minimum Requirements

This feature requires an active Liquid UI for iOS license. ([Click here](http://www.guixt.com/knowledge_baseindex.php?action=artikel&cat=35&id=409&artlang=en) to know more about Liquid UI for iOS licensing.)

Supporting barcode formats

1. **Using the built-in camera:** Liquid UI supports the following barcode types when you use the built-in camera;

   - Code 39, Code 93, Code 128, DataBar, DataBar Expanded, EAN-8, EAN-13, Interleaved 2 of 5, QR Code, UPC-A, and UPC-E
iOS Introduction

2. Using a third-party scanner: Liquid UI supports the following barcode types when you use a third party scanner like:

- Linea Pro 4, Aztec code, Code 11, Code 39, Code 93, Code 128, Codebar, Data Matrix, EAN 8, EAN 13, UCC/EAN 128, UPC A, UPC E, UPC E1, GS1, IATA, ISBN, ISMN, ISSN, Industrial 2 of 5, Interleaved 2 of 5, Matrix 2 to 5, Maxi code, MicroPDF417, Micro QR code, MSI/Plessey, UK/Plessey, PDF417, QR code, RSS 14, RSS Limited, RSS-Expanded, S-code, and Telepen

Pre-configuring barcode scanner

Liquid UI supports full native scanner configuration capability. You can edit the Default Barcode Type or add a new Barcode Type to perform auto-tab or auto-enter and can also add prefix and suffixes under Barcode Types to remove them from barcode scanned value based on your requirement.

1. Open Liquid UI for iOS App. User will find Scanner option on the top left hand side of the screen. Click on the Configure Scanner to initiate the configuration process.

2. You will be navigated to Barcode Types screen. You can view a Default barcode Type.
3. Select the **default Barcode Type** to navigate to Scanner Prefixes screen. You can view default scanner element.

**Note:** You cannot delete the default Barcode type.

4. Under **Default** scanner element, you can view default settings with AUTO ENTER, AUTO TAB and OFF options only. Select the required option and click **Save**.
iOS Introduction

- **AUTO ENTER**: This option automatically perform enter after populating the scanned value into the scanned field.
- **AUTO TAB**: This option automatically places the cursor in the next field after populating the scanned value into the scanned field.
- **OFF**: Performs neither AUTO ENTER nor AUTO TAB.

5. You will be navigated to Barcode Types screen. Click + symbol to add the barcode type.

6. Add Barcode Type screen has following fields,
iOS Introduction

1. **Type:** This field indicates the class of barcode, which can be added in two ways;
   - Manually enter barcode type
   - Scan barcode with the camera to retrieve type.
2. **Comment:** Provide description about the barcode type for further reference.
3. **Enabled:** To activate or deactivate barcode type
4. Click **Save.** On success, user will be taken back to the Barcode Types screen with an updated list.

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7. The naming of the added barcode would be combination of comment and type. The comment will be highlighted in bold, whereas the barcode type in normal font as in following screen.
8. Select any field from the listed barcode type. User will be navigated to the Scanner Prefixes screen.
iOS Introduction

9. Click + symbol on the screen to configure scanner prefixes. User will be navigated to Add Prefix screen.

10. Enter prefix, comment, and suffixes in the add prefix screen. Once you save the screen,
user will be navigated back to Scanner Prefixes screen. When the user tapped on H190 entry, Top toolbar title changes accordingly, and populates with the prefix on this screen, as H190 title. If user hits Cancel button, no changes would be taking place to that screen.

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Comment</th>
<th>Remove Prefix</th>
<th>Suffixes</th>
<th>Remove Suffix</th>
<th>Auto Enter</th>
<th>Auto Tab</th>
<th>Off</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prefix</td>
<td>Comment</td>
<td>Remove Prefix</td>
<td>Suffixes</td>
<td>Remove Suffix</td>
<td>Auto Enter</td>
<td>Auto Tab</td>
<td>Off</td>
</tr>
</tbody>
</table>

**Note:** Prefix and Suffixes fields are case-sensitive.

11. Enter the required field on Add Prefix screen and click **Save**. If user doesn’t enter prefix field, they will receive an **alert message** as following screen.
12. Click save after entering the necessary inputs. On successful, user will find the updated
13. **Swipe** to the left on the selected list item to delete. Default element will not be deleted from the screen. Select **Delete** option and the listed item would be removed from the screen.

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**Scanning 1D barcode**

The barcode scan enables iOS users to select SCAN option on any SAP input field with just a tap.
iOS Introduction

1. Liquid UI SCAN feature eliminates manual data entries by populating the detail through barcode. The user can also edit the scanned field by placing the cursor on the input field.

Open Liquid UI for iOS App. Navigate to any SAP transaction. For Example MM03 transaction.
Display Material (Initial Screen)

Material

Select view(s)  Organize  Return
2. Double tap on the input field to select all the available options for input field. Select **Scan Barcode** to scan the barcode and read the value into the input field.

3. Click **Done** to finish the scanning.
4. The scanned value will be read into the input field as shown below:

5. To edit the scanned field, place the cursor on the input field. The user can manually edit the field with the device keyboard.
Scanning 2D barcode

The 2D barcode can contain multiple rows of data, i.e. a block of data, that if used the user would need to generate a rule to extract the data for a field from the block of data scanned. The 2D data input would normally be used in a single field like 1D scan. Open Liquid UI for iOS App. Navigate to any SAP transaction. For Example XK02 transaction.

1. Navigate to XK02 transaction and enter Vendor details, and select the **Address** checkbox from General data and click **Return**.
Change Vendor: Initial Screen

Vendor

Company Code

Purch. Organization

General data

☑ Address

☐ Control

☐ Payment transactions

Company code data

☐ Accounting info

☐ Payment transactions

☐ Correspondence

☐ Withholding tax

Purchasing organization data

☐ Purchasing data
2. You will be navigated to the Change Vendor Address screen. Place the cursor on the input field and then do a single tap on the field to view the SCAN option. Click **Scan Barcode** to scan either 1D or 2D barcode.
3. To retrieve the Vendor address, let us scan a 2D barcode as following:
Align barcode within frame to scan for:
iOS Introduction

4. Once the scan is performed, the scanned value will be read directly into the input field as shown below:

5. To edit the scanned field, place the cursor on the input field. The user can manually edit the field with the device keyboard.
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<table>
<thead>
<tr>
<th>US</th>
<th>United States</th>
<th>Region</th>
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</thead>
<tbody>
<tr>
<td>CST</td>
<td></td>
<td>Tax Jurisdiction</td>
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