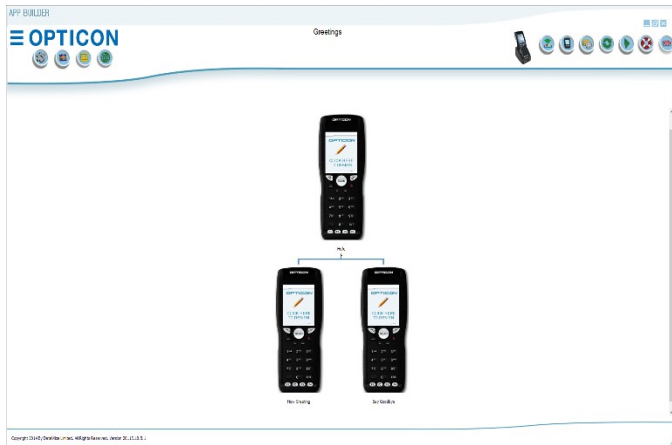# DATAWIZE LTD

Table of Contents
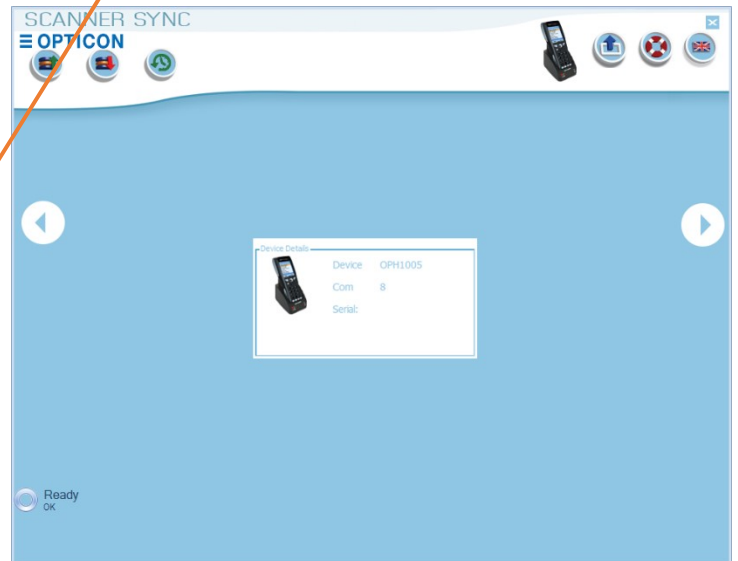
OPTICON

AUTHORISED OPTICON RESELLER

Overview Recap

In the Beginner's Training App, the *Greetings App* was created to allow the user to become familiar with some of the basic features of the Opticon App Builder.

The following objectives were focused on:

1. ***Designing an App*** – Created a simple App then displayed hello on the screen.

2. ***Viewing an Activity*** in the Button Designer Form and setting Function Keys (i.e. *F1, F4*)

3. ***Deploying the App*** – Using the Scanner Sync Form to select a scanner and *Deploy* an App the scanner.
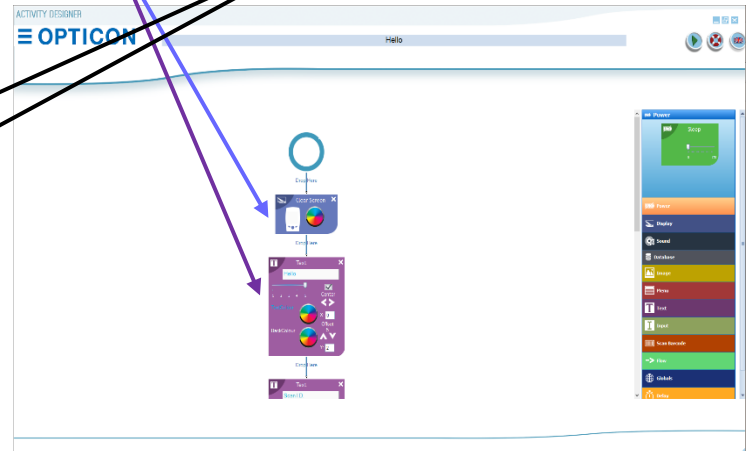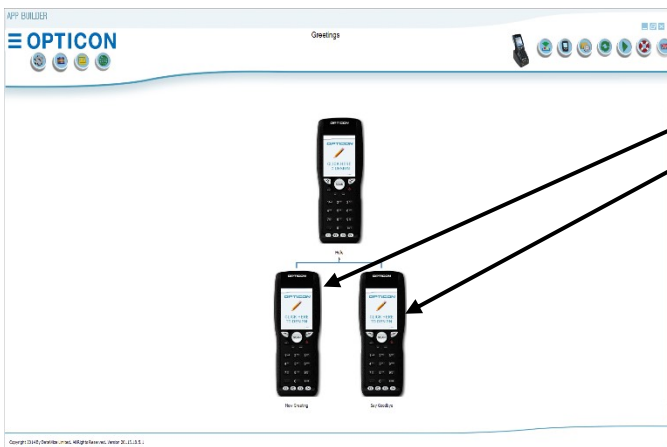
Overview Recap: Objectives Cont.

4. _Add a Database_

      _a._ Created 2 columns with fields to represent a User (_Text Field_) and a User ID (_Text Field_).

      _b._ Added 2 Users with ID's.

5. _Modify Existing App_ – Added _Activity Items_ to the 2 Activities that were created by the Function Keys (i.e. _F1, F2, F3_)

OPTICON
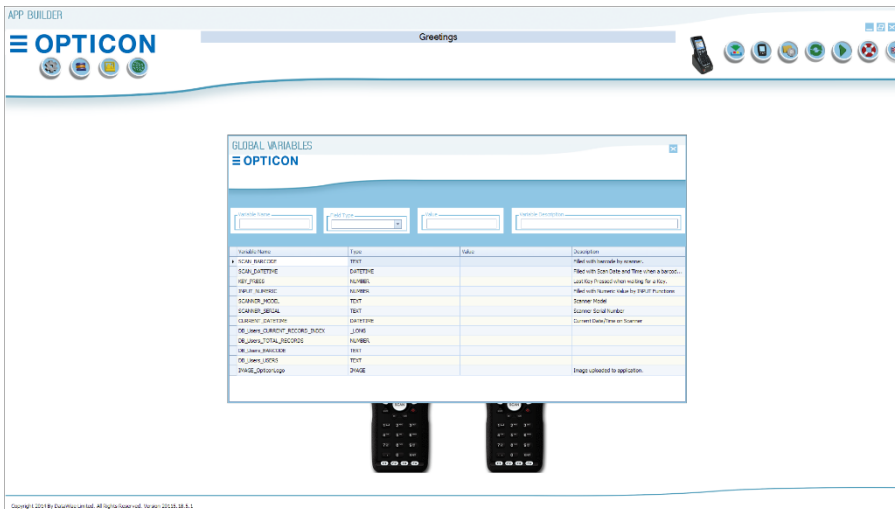
AUTHORISED OPTICON RESELLER

Overview Recap: Objectives Cont.

6. *Scanner Settings* – Set Font Size, Backlight Options, Cursor Option and Text Color/Backcolour across the App.

Note: *Any Activity can change these settings on that activity by dragging the corresponding control and setting it for that activity.*
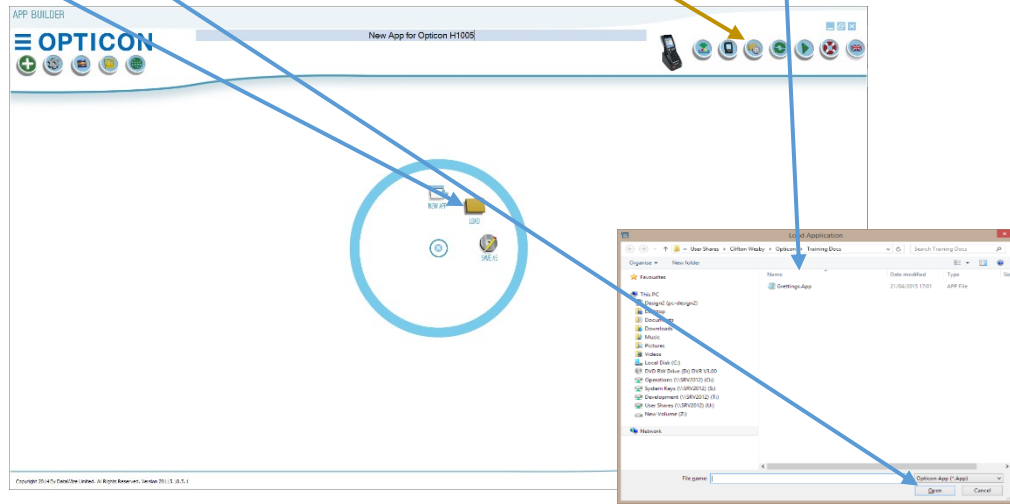
7. *Global Variable Overview* - System generated or user defined to store a value that can be used within the App.

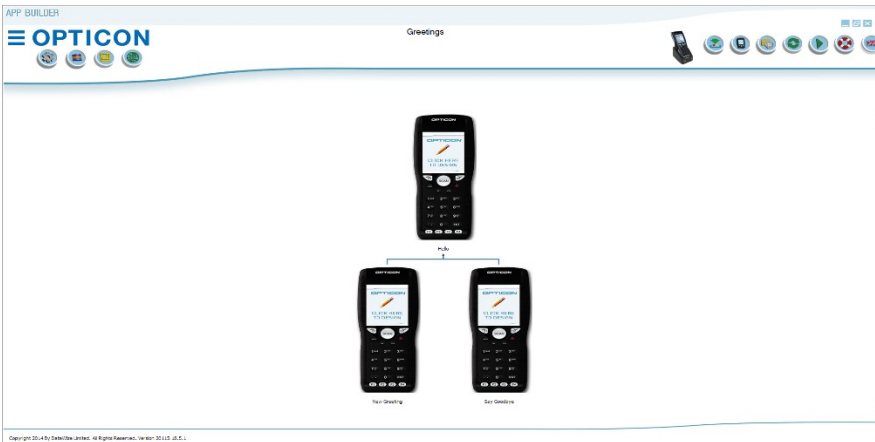**OPTICON**   **AUTHORISED OPTICON RESELLER**

Load Greetings App

1. Open AppBuilder. Select the File Button. On the menu, select the Load Button. Navigate to the previously saved App, select and click the Open Button.
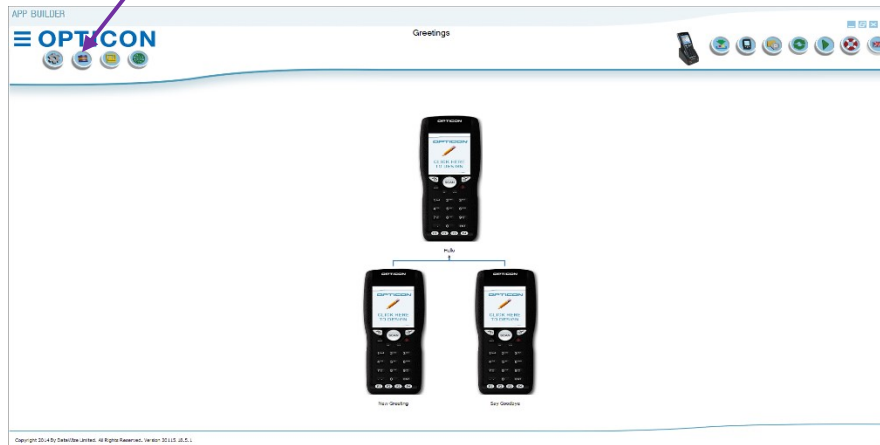

The Greetings App will appear with 3 Activities. The First Activity, *Hello, has a simple greeting to say "Hello",* followed by *"Scan I.D.".* This Activity and

the *Say Goodbye* Activity will remain the same. The *New Greeting* Activity will be modified to make the App more functional. First another database must be added.
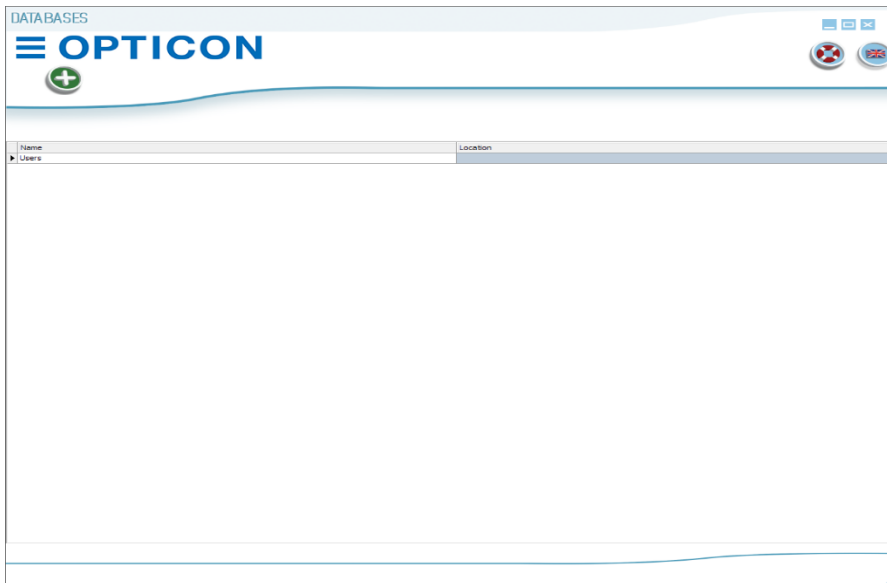
Adding a Database

1. Select the Database Icon on the Top-Left of the App Builder Form.

The Databases form will open. This form displays the databases that have

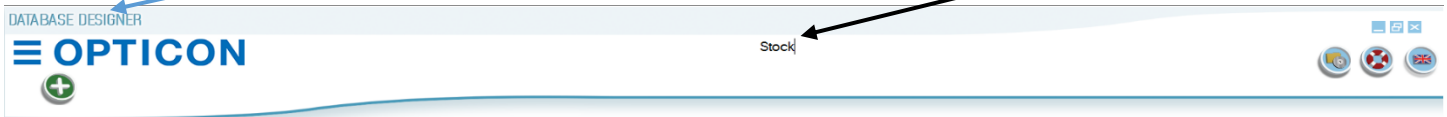been created in the database. The **Users** database was previously created.

Select the Add symbol located at the Top-Left of form to view the Database Designer Form.
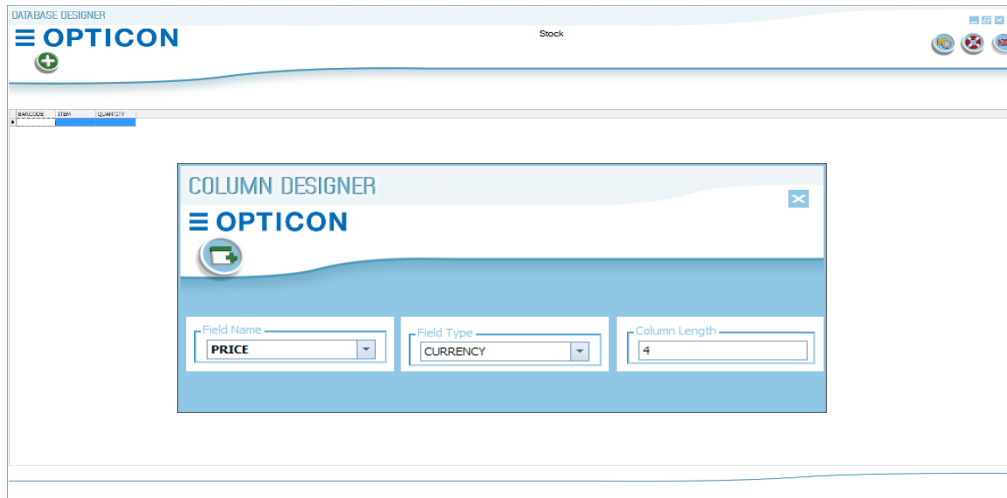
Adding a Database Cont.

2. On the Database Designer Form, name the Database 'Stock' by typing in the field at the top of the form.

3. Select the Add symbol ⊕ located at the Top-Left of form to view the Column Designer Form.
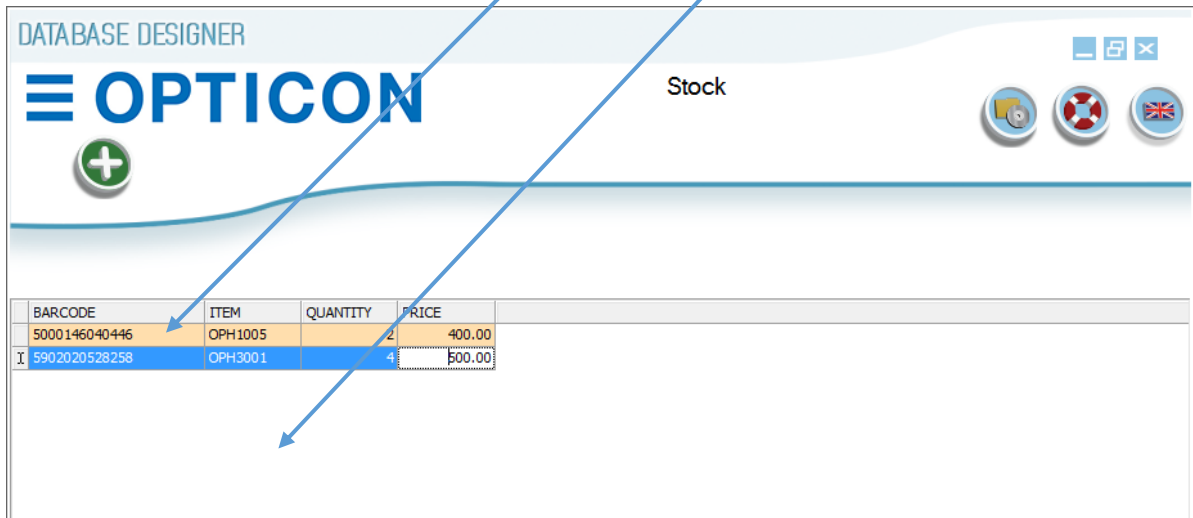

4. Create the following Columns by entering each field's parameters then press Add :

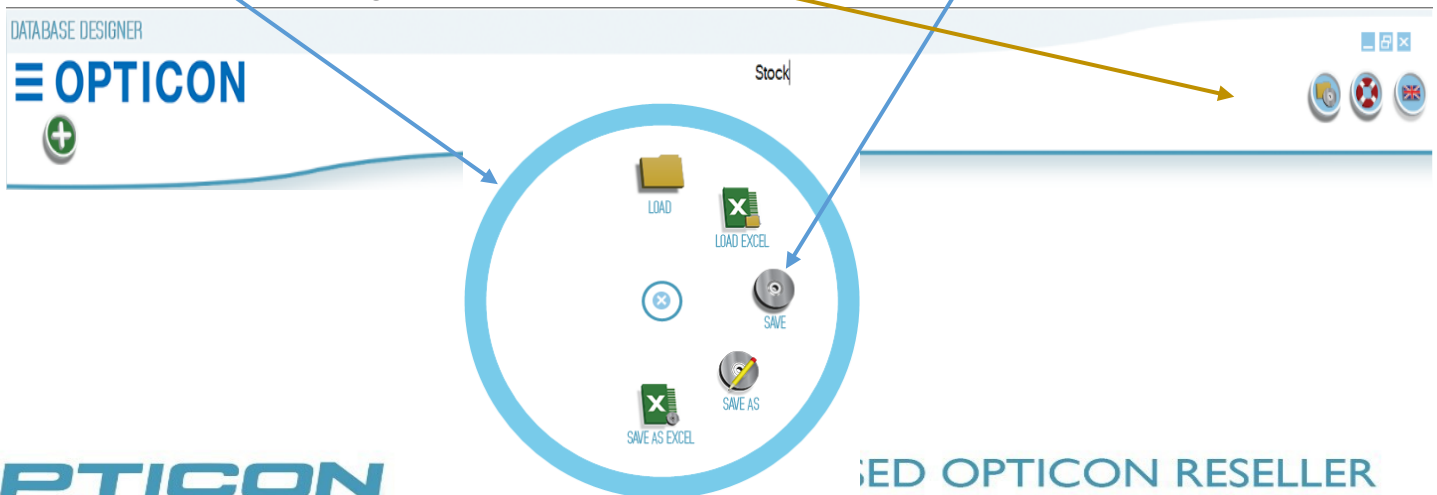| Field Name	Field Type	Column Length
BARCODE	Text	13
ITEM	Text	20
QUANTITY	Number	6
PRICE	Currency	6

Adding a Database Cont.

5. Enter data into the rows with Barcode fields that can be scanned with physical barcodes. Clicking in the Space below the columns will add rows to the database.

6. Select the File Button. On the menu, select the Save Button from the Radial Menu. This will save the Database into the App. Close the Database Designer Form and the Databases Form.
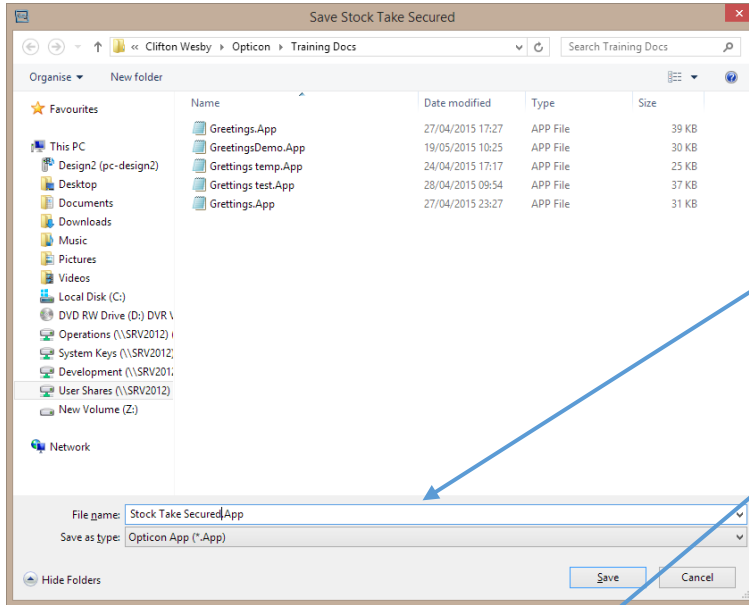
Changing Controls on an Activity
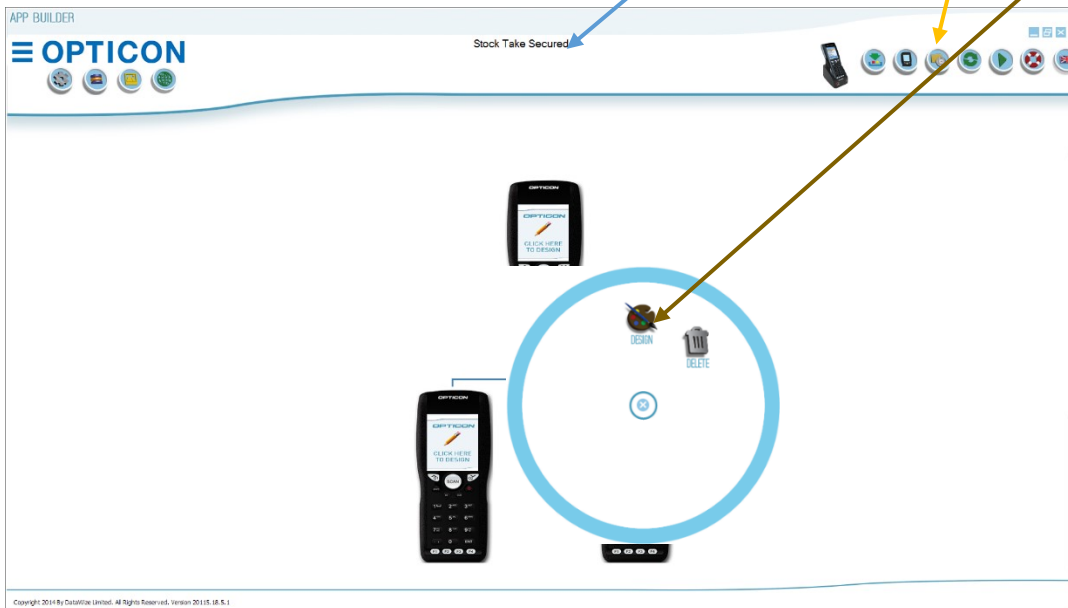
1. Before continuing, change the name of the App to "**Stock Take Secured**" by typing in the text field as the top of the page and selecting the File Button. Clicking Save As on the radial menu, the name "**Stock Take Secured**" will appear in the **File Name**. Click Save.
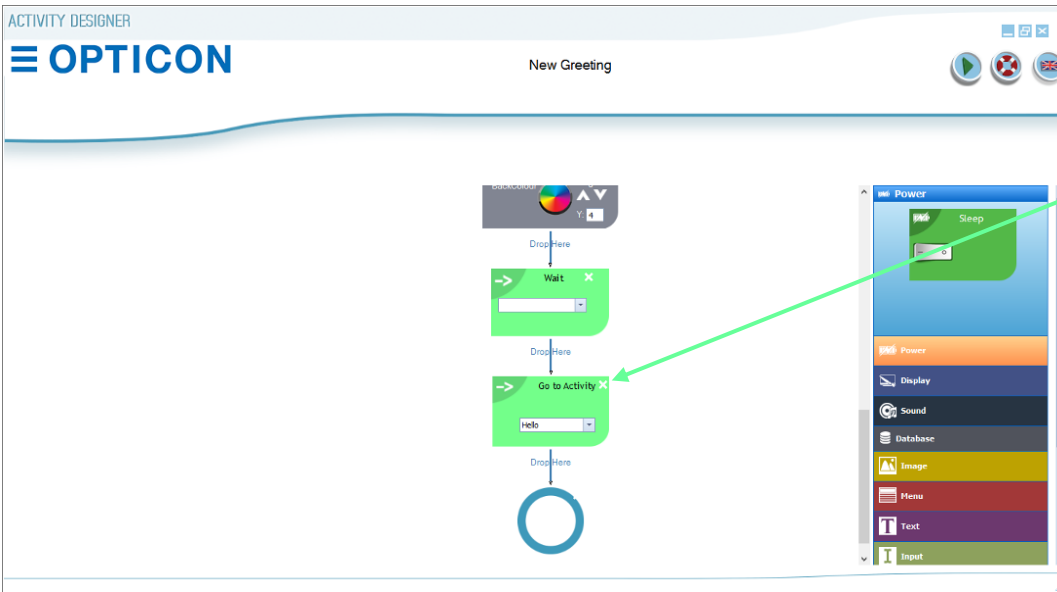
2. Click on the "**New Greeting**" activity and select the "**Design**" button option from the radial menu.
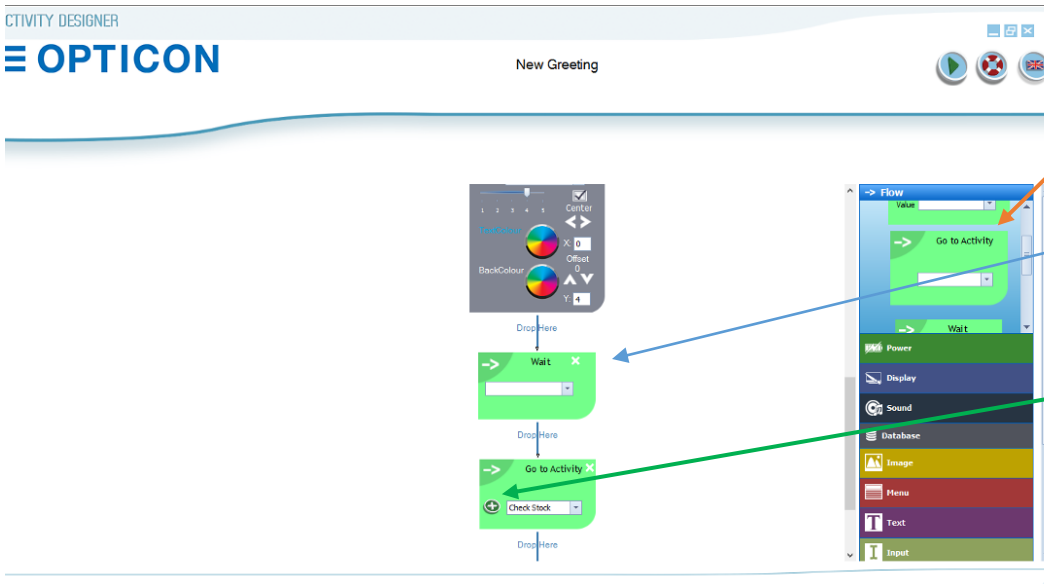
Changing Controls on an Activity Cont.

The New Greeting Activity has an Item Link control set to navigate to the Hello Activity.

3. Click on the white "X" in the top right of the *Go to Activity* control to delete it. This will allow the New Greeting Activity to navigate to a new Activity. **Note: Not deleting the control and simply changing the Text will just change the name of the "*Hello*" Activity.**
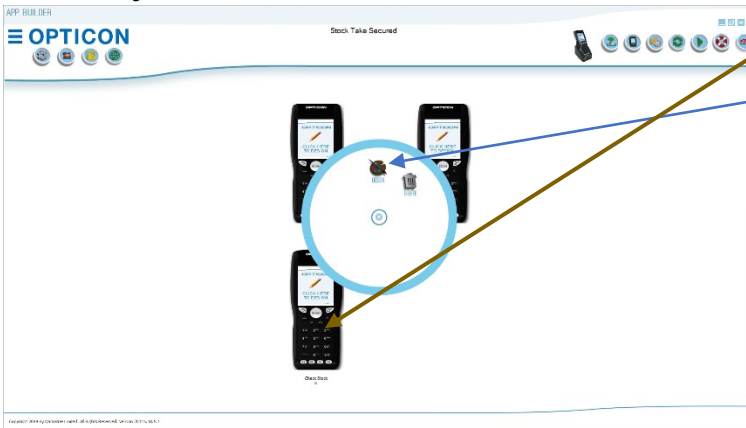
4. Drag another *Go to Activity* control under the *Wait* Control. Type "*Check Stock*" in the drop-down and select the Add Button. This will add another Activity to the App.
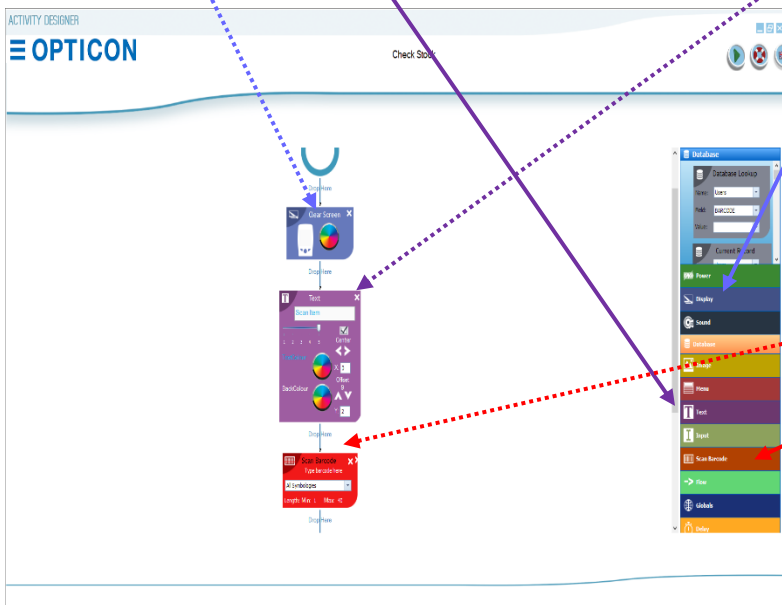
Stock Take Secured Activities & Controls

1. Close the Activity Designer. On the App Builder Form, scroll down to the new Activity named "***Check Stock***". Click on the "***Check Stock***" activity

and select the "***Design***" button option from the radial menu.

2. On the Activity Designer, select the Display Tab and drag the Clear Screen control onto the Activity.

3. Select the **Text Tab** and drag the **Text** control onto the Activity. Type the

text "***Scan Item***" in the text field, set the ***Font*** size to 5, check the ***Center*** box, and change the '***Y***' value to '***2***'.
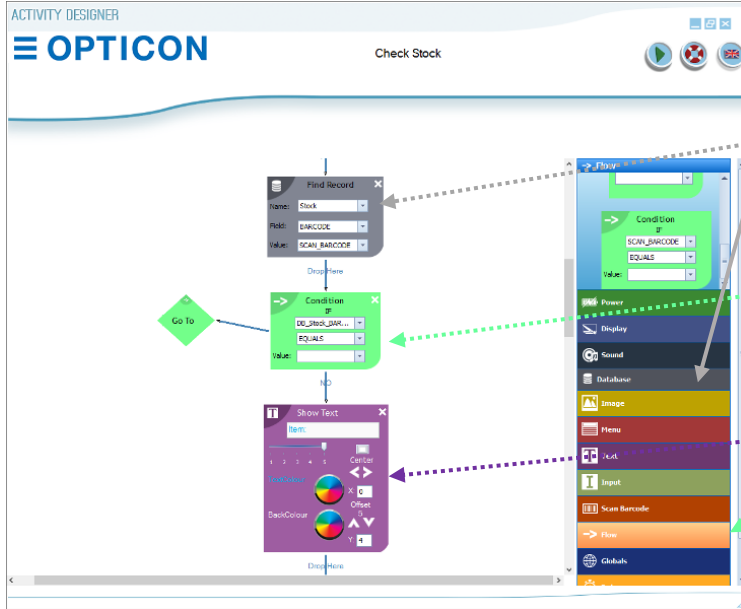
4. Select the **Scan Barcode Tab** and drag the **Scan Barcode** control onto the Activity. Set ***Min*** and ***Max*** values to '***13***' to match the ***Barcode*** field length in the Database.
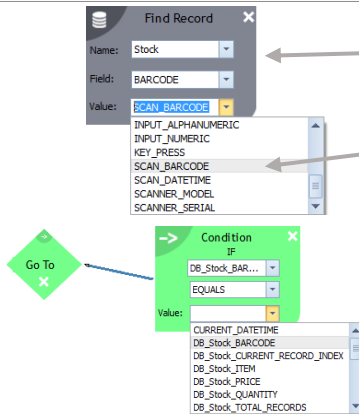
Stock Take Secured Activities & Controls

5. For steps 6-8, select the **Database** Tab, and drag the **Find Record** control onto the Activity, then select the **Flow** Tab, drag the **Condition** control onto the Activity, and lastly, select the **Text Tab** and drag the **Text** control onto the Activity.

6. Change the Name field of the **Find Record** control to "***Stock***", and the Value field to "***SCAN_BARCODE***".

7. In the top field of the **Condition**, select the value '***DB_Stock_Barcode***'. This is set to compare the result from the **Find Record**, which is stored in a "***Global Variable***" that is automatically created when a Database has been added to an App.
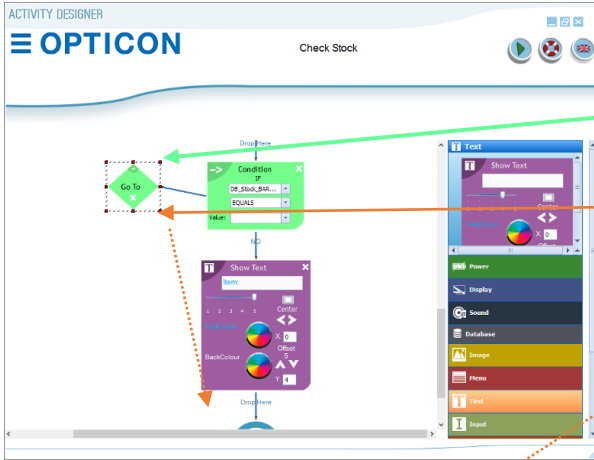
8. In the **Text** control type the word "***Item:***" in the box. Select the number 5 to choose the **Text Size**, and change the '**Y**' to 4 to show under the previous **Text** control display.
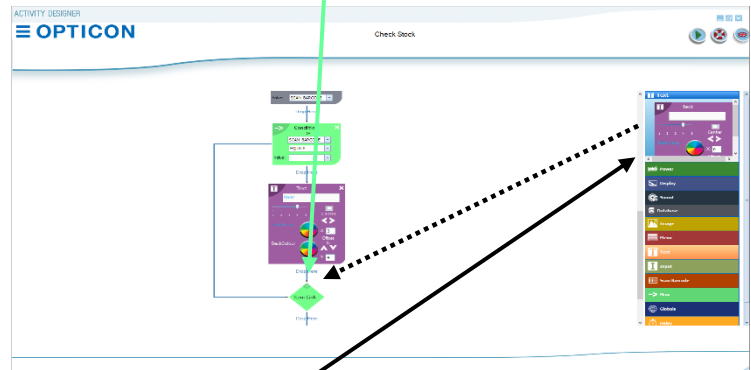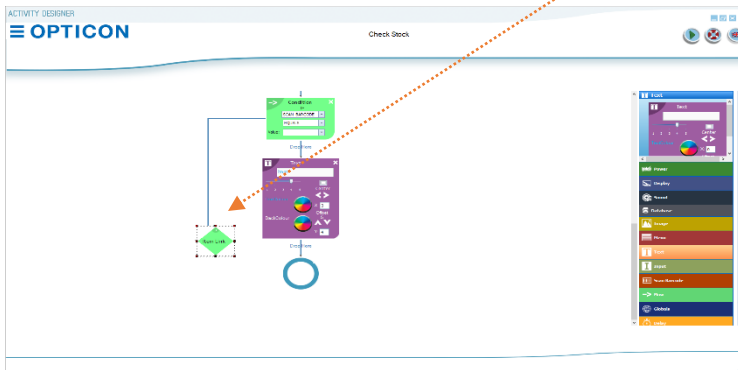
Stock Take Secured Activities & Controls Cont.

The following steps will walk through the purpose of the extra *Go To* control that appears with the **Condition** control.

9. Selecting the *Go To* will highlight the control.

10. Holding the mouse down on the dashed-line, drag the *Go To* control just under the Text control and release the mouse. That will anchor the *Go To* control under the Text control.
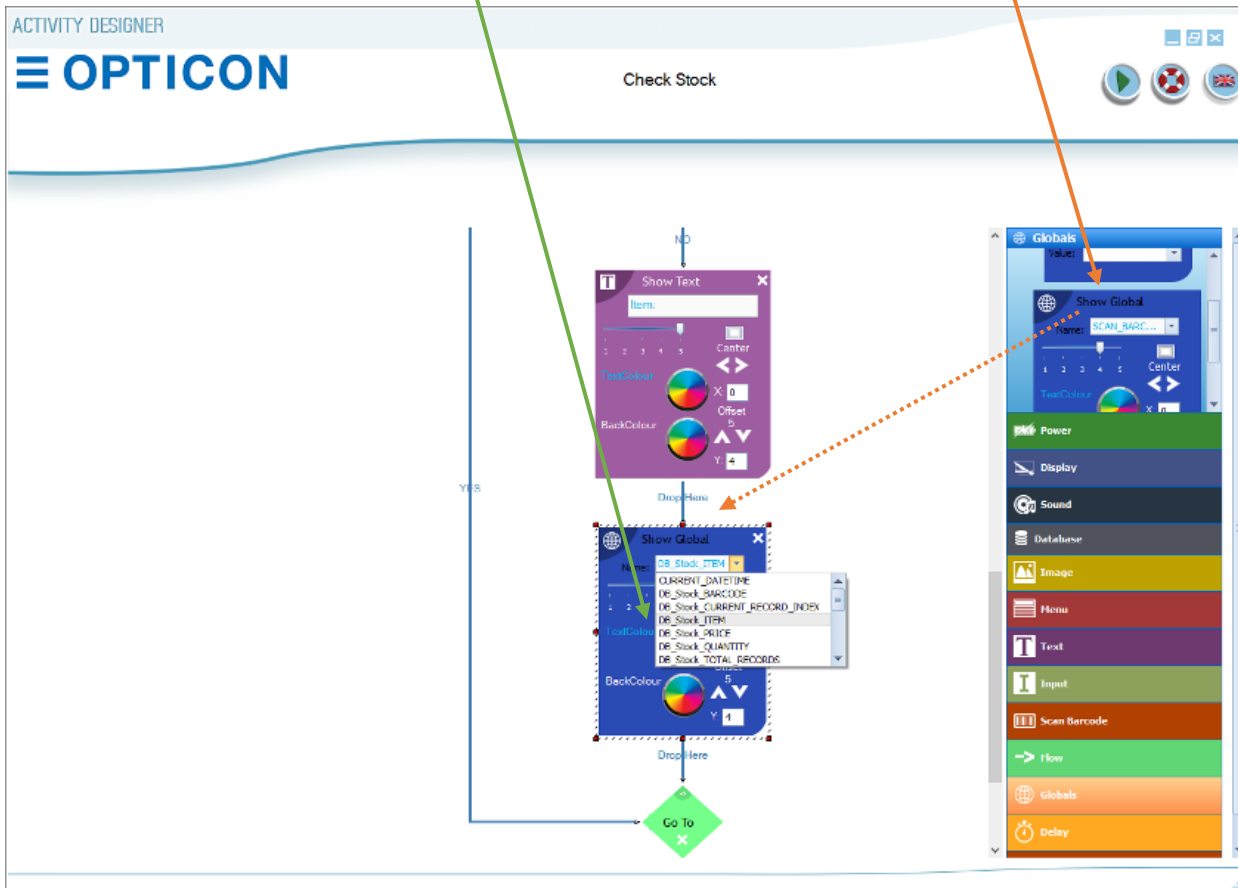

Unlike previous steps, steps 11-15 will involve dragging controls before the newly placed *Go To* control. If the condition is met in the **Condition** (i.e. '*DB_Stock_Barcode*' '*EQUALS'* a blank field), the flow will continue from after the *Go To* control. Otherwise, the flow will continue to execute all controls before the *Go To* control.
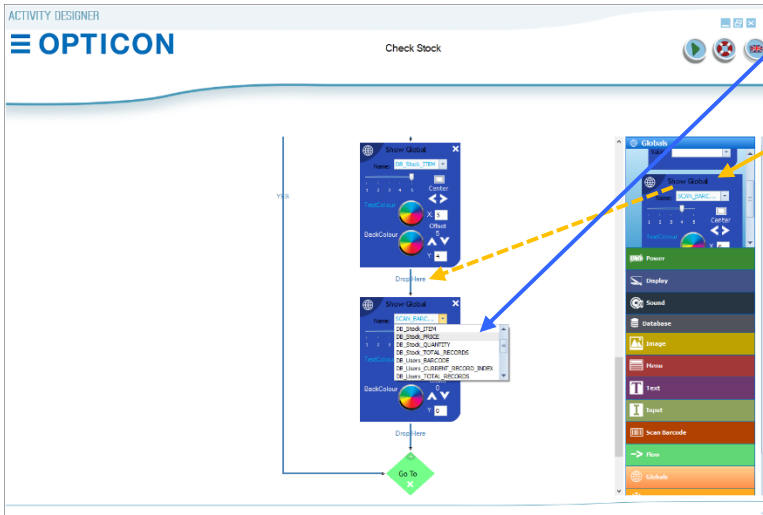
Stock Take Secured Activities & Controls Cont.

11. Select the **Global Tab** and drag the **Show Global** control onto the Activity between Text and Go To controls.
Select the "***DB_STOCK_ITEM***" option in the drop-down field, set the ***Font*** size to 5, and change the '***X***' to '***5***' and the '***Y***' value to '***4***' to show on the same line next to the Text control's text.
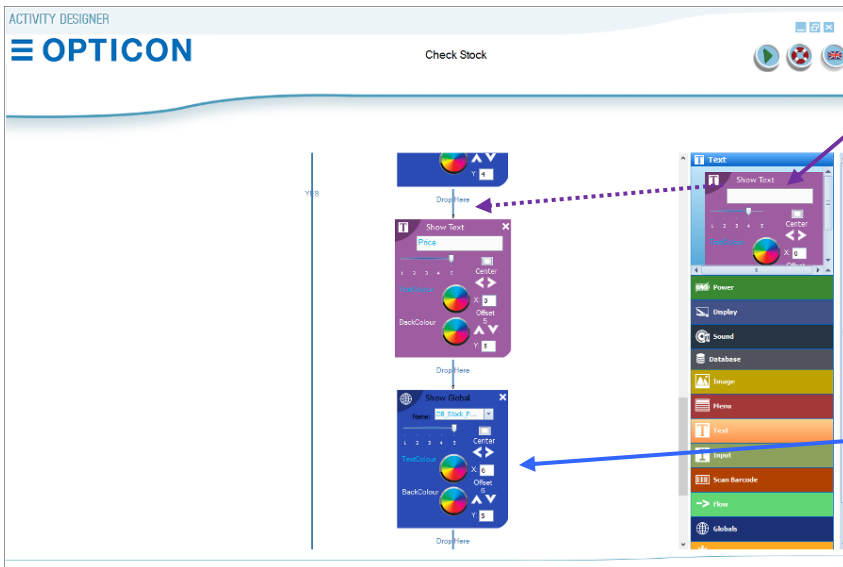
Stock Take Secured Activities & Controls Cont.

12. While the **Global Tab** is available, select and drag another **Show Global** control onto the Activity. Select the "*DB_STOCK_PRICE*" option in the drop-down field, set the *Font* size to 5, and change the '*Y*' value to '*5*' to show on the next line from the previous **Show Global** control's text.

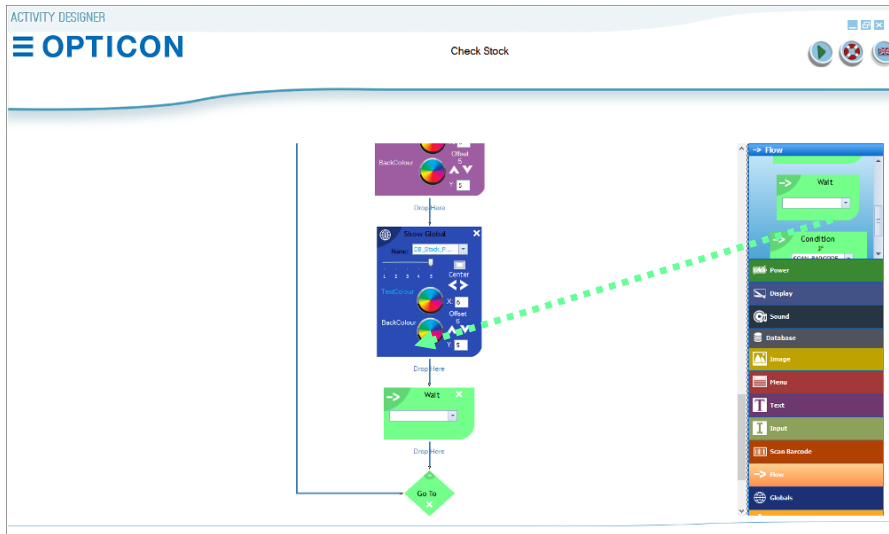13. Now, select the Text Tab once again and drag a Text control between the 2 **Show Global** controls. In the Text control type the word "*Price*" in the box. Select the number 5 to choose the **Text Size**, and change the '*Y*' to '*5*' to show on the same line as the under the Text control display. With the *Offset* of the Text control showing '*5*' for the length of the Text "*Price:*", set the '*X*' of the **Show Global** control beneath to '*6*' in order to print next to it.
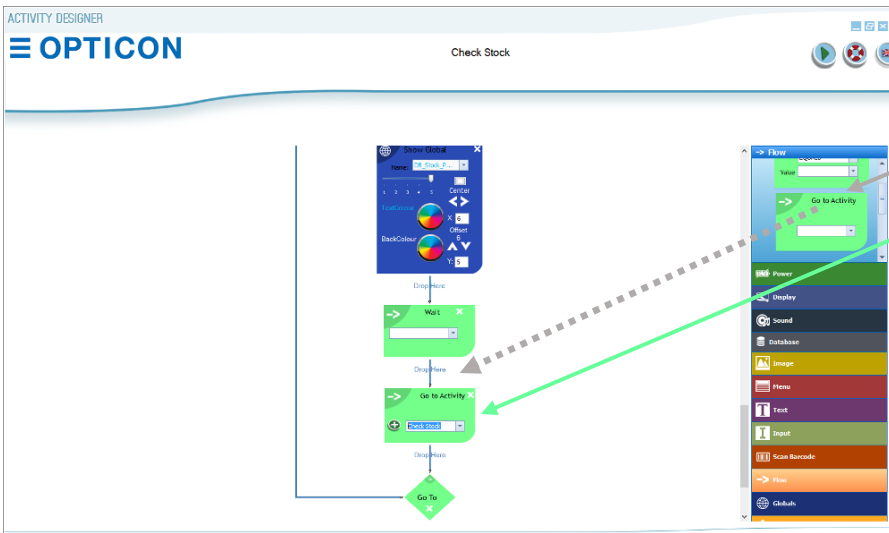
Stock Take Secured Activities & Controls Cont.

Two steps remain in setting up the functionality that is to occur if the condition is not met in the **Condition** for '*DB_Stock_Barcode*' '*EQUALS*' a blank field.

14. Select the *Flow* Tab. Drag a *Wait* Control under the last **Show Global** control and before the *Go To* control of the **Condition**. This will mean the user has to press a key before continuing.

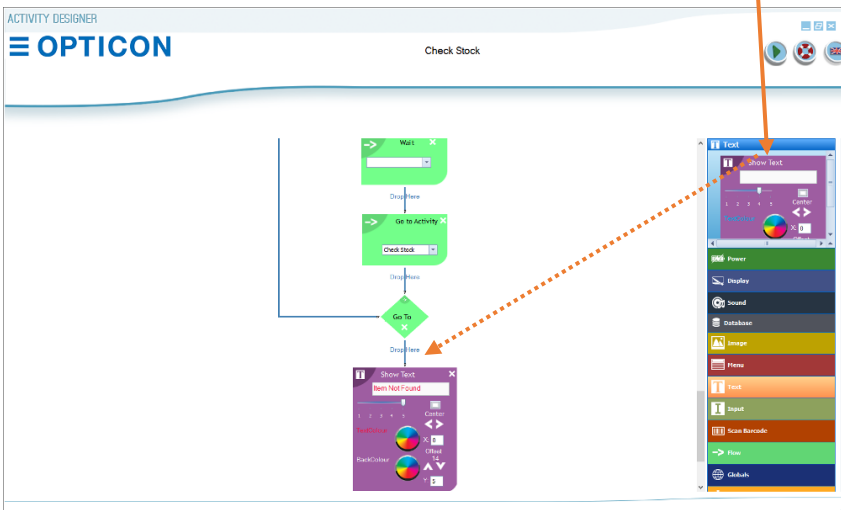
15. Drag a *Go to Activity* control under *Wait* Control. Select "*Check Stock*" in the drop-down and press the Add Button. This will navigate back to the top of the "*Check Stock*" Activity, skipping the remaining commands.
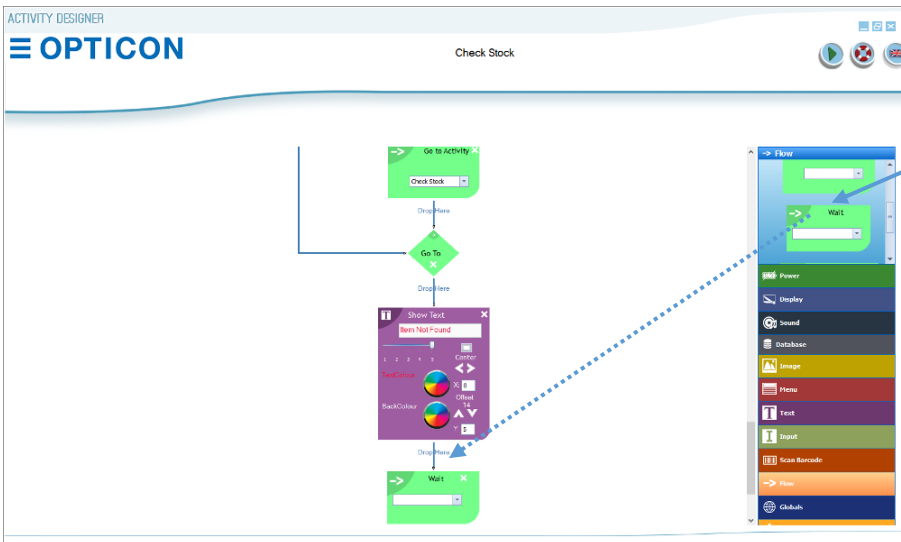
Stock Take Secured Activities & Controls Cont.

The remaining steps 16-18 will involve dragging controls after the **Condition's *Go To*** control if the condition is met '***DB_Stock_Barcode***' '***EQUALS'*** a blank field.

16. Select the Text Tab and drag a Text control **UNDER** the

Condition's *Go To* control. In the Text control type the words "***Item Not Found***" in the box. Select the number 5 to choose the **Text Size**, set the **Text Color** to Red and change the '**Y**' to '*5*' to show on the line under the Text control displaying the Text "*Scan Item*".
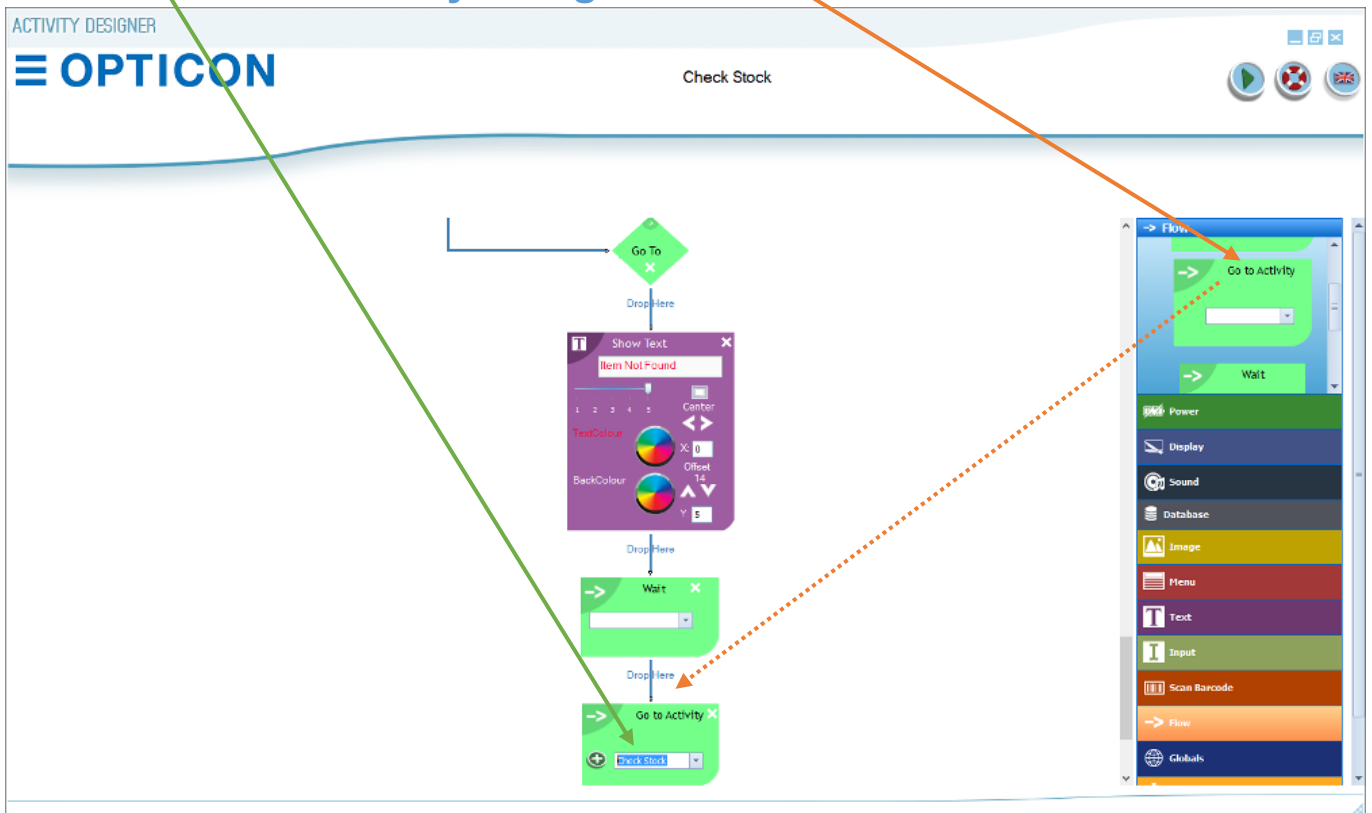

17. Select the ***Flow*** Tab. Drag a ***Wait*** Control under the Text control. This will, again, prompt the user to press a key before continuing.

Stock Take Secured Activities & Controls Cont.

18. Drag a *Go to Activity* control under *Wait* Control. Select "**Check Stock**" in the drop-down and select the Add ⊕ Button. This will navigate back to the top of the "**Check Stock**" Activity, completing the functionality of the "**Check Stock**" Activity.
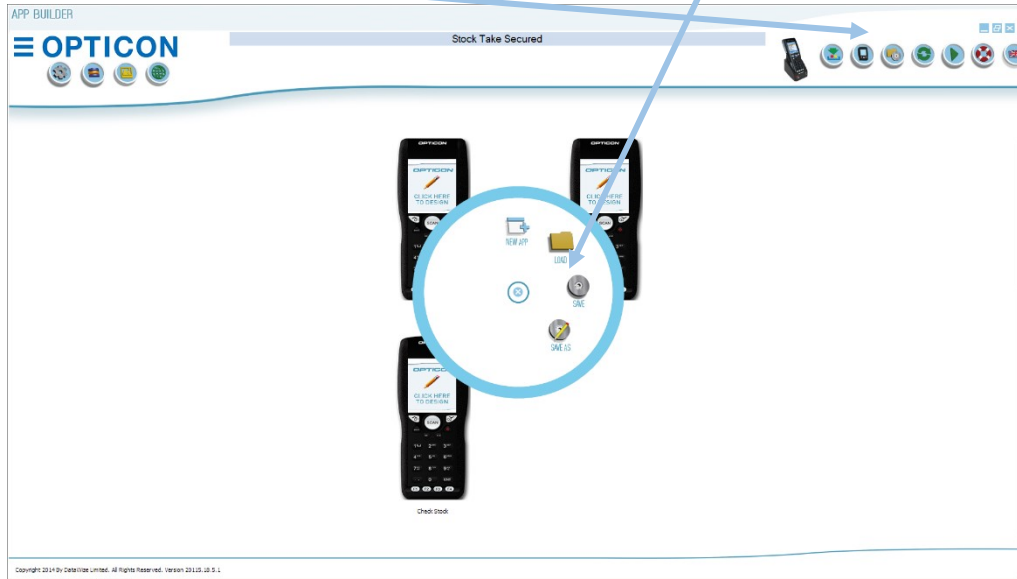Close the **Form Activity Designer**.

Summary: The 'Check Stock' Activity scans a barcode, does a database lookup, and decides, based on whether a condition is met, to display item information or display a message, then prompt the user to scan another item.
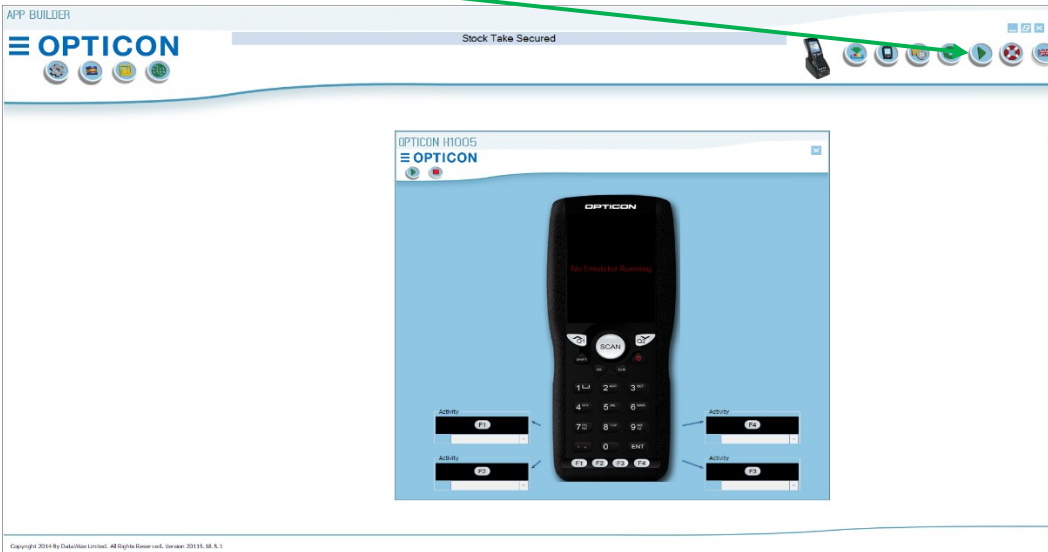
Testing Application Activities

1. Click the File Button and select the *Save* Button.

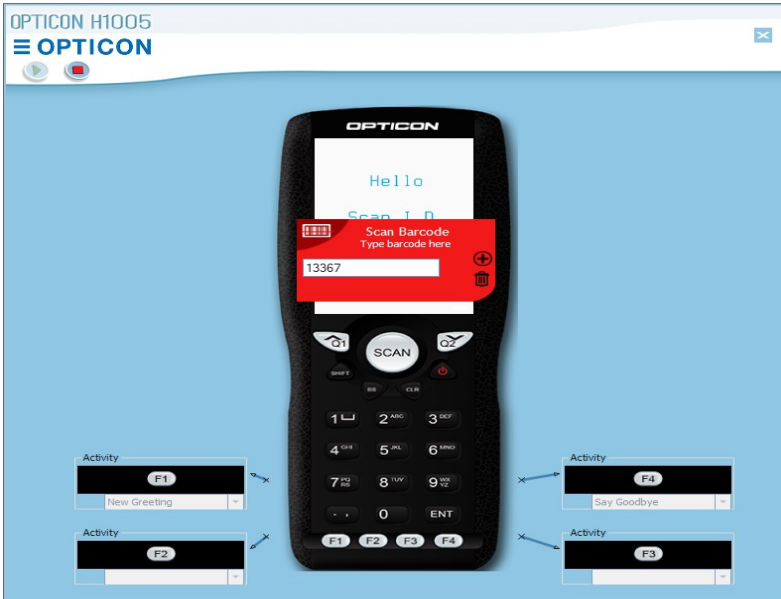2. Click the Run Button to see the Full App with all the functionality in the Emulator to test the Logic. During this testing, the keys on the Emulator are functional except during the entering of a Barcode. That must be done with the computer keypad.

Testing Application Activities

3. Select the **Play** Button. After the Text appears, press the Scan Button, which shows the Scan Barcode Control. Type a Barcode and press the **Plus** Button or press the enter key on the computer keypad to see the remaining Logic work. If the Result is not desired, open the corresponding Activity to fix logical errors and retest. When satisfied with the outcome, deploy the App.
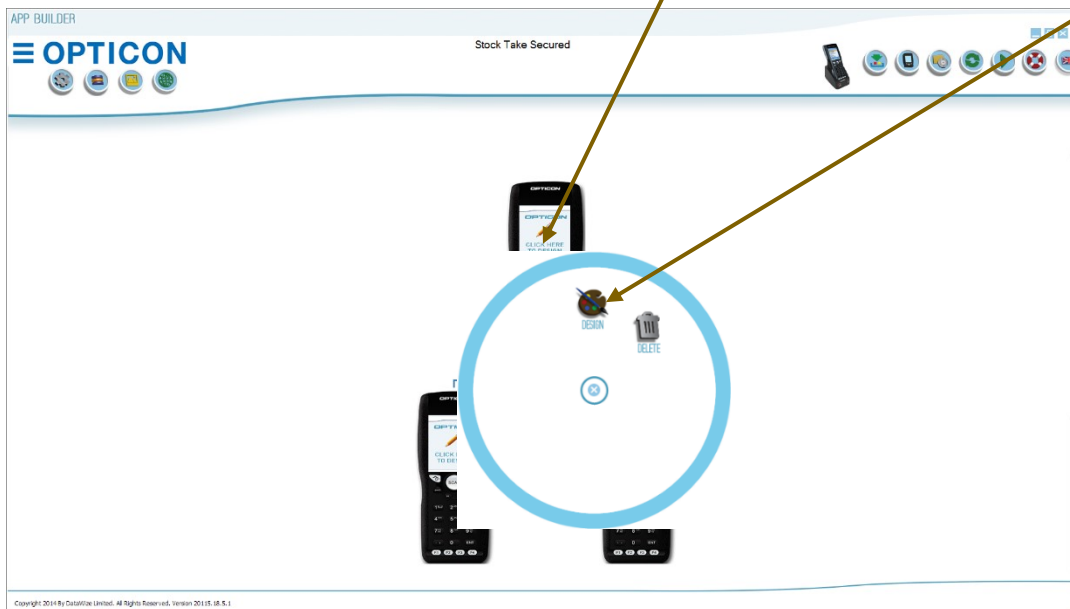

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Adjusting the Function Keys

After testing the logic of this new app, it should be apparent that leaving the **F1** key set to navigate to the '***New Greeting'*** Activity and the **F2** key set to navigate to the ***'Say Goodbye'*** Activity would defeat the purpose of the having a secured stock taking app. It is time to reset the **Function keys.**
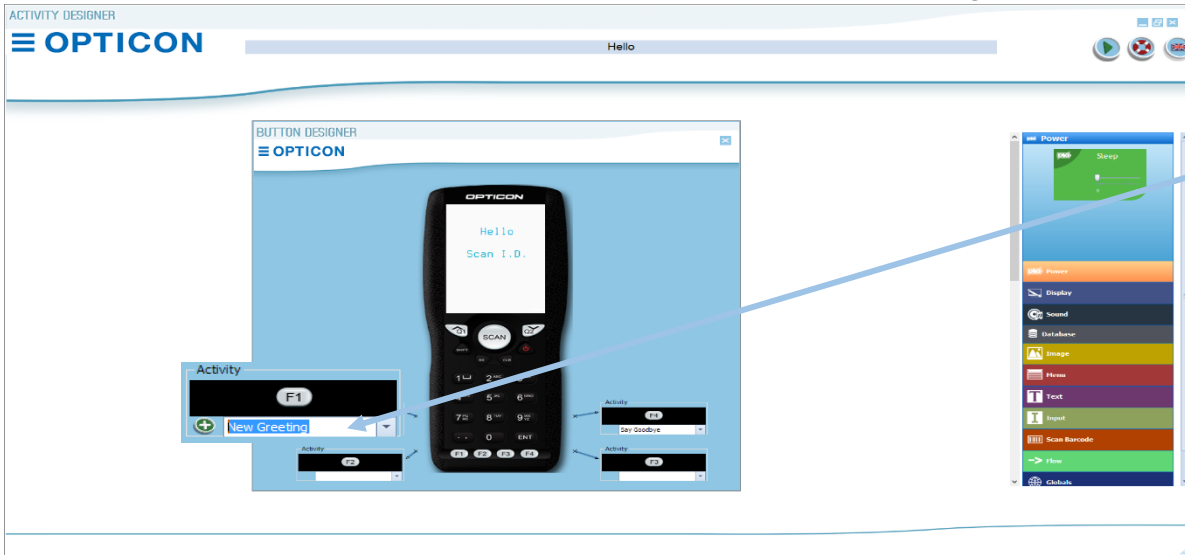
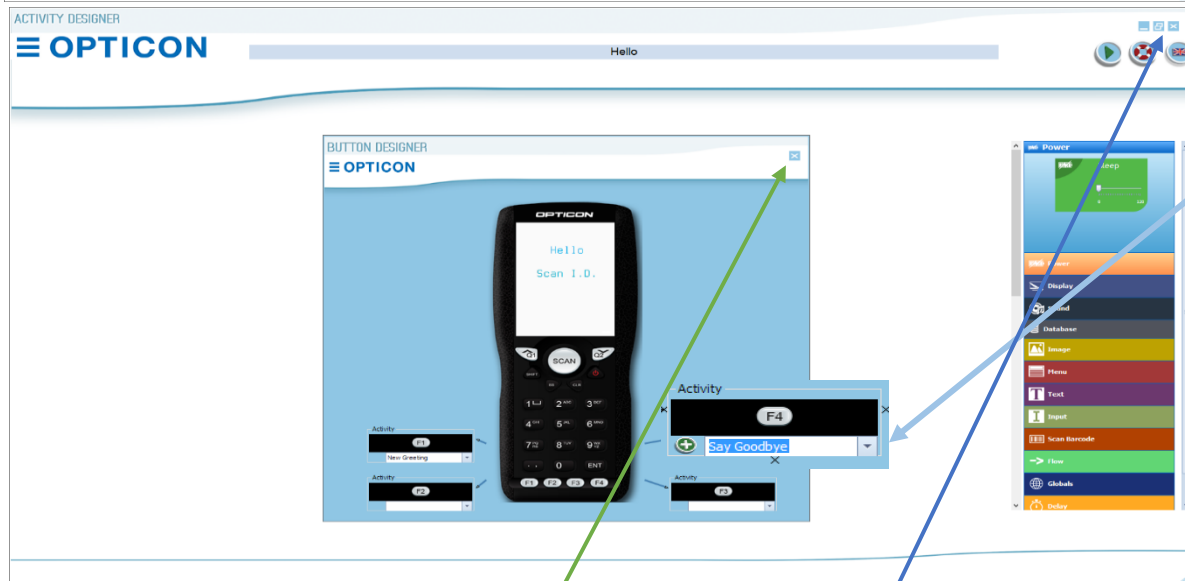**1.** On the App Builder Form click the "***Hello***" Activity and select the "***Design***" button option from the radial menu.

Adjusting the Function Keys

2. Select the View Button to see the Button Designer form.

3. Select the field text *'**New Greeting**'* on the **F1** function key, press the delete key on the computer keyboard. The **F1** function key will clear.
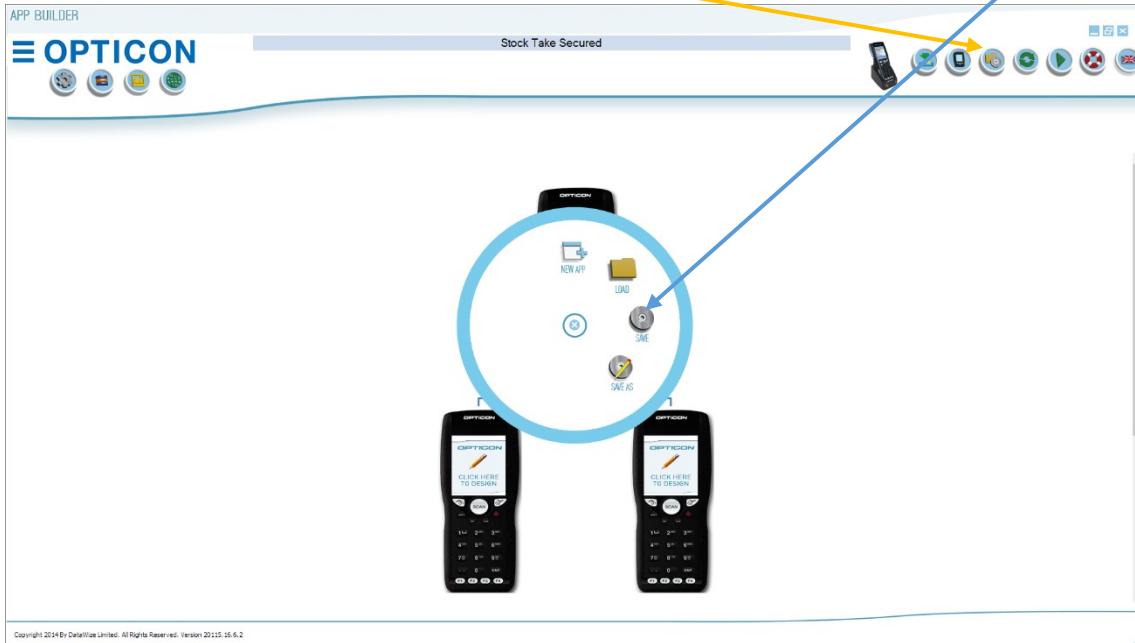

4. Select the field text *'**Say Goodbye**'* on the **F4** function key, press the delete key on the computer keyboard. The **F4** function key will clear

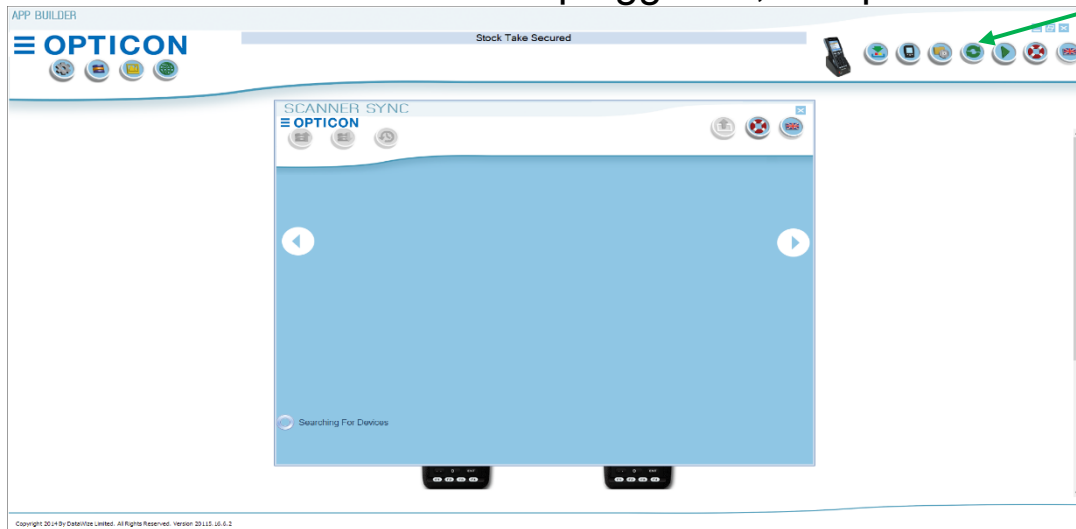**5.** Close the Button Designer and Activity Designer form.

Syncing to the Scanner

1. Before syncing the app, click the File Button and click Save.

The Stock Take Secured app is now ready to be deployed to the scanner. Ensure a scanner is plugged in, and press the Sync button in the top-right of the form. The **Scanner Sync** form will appear.
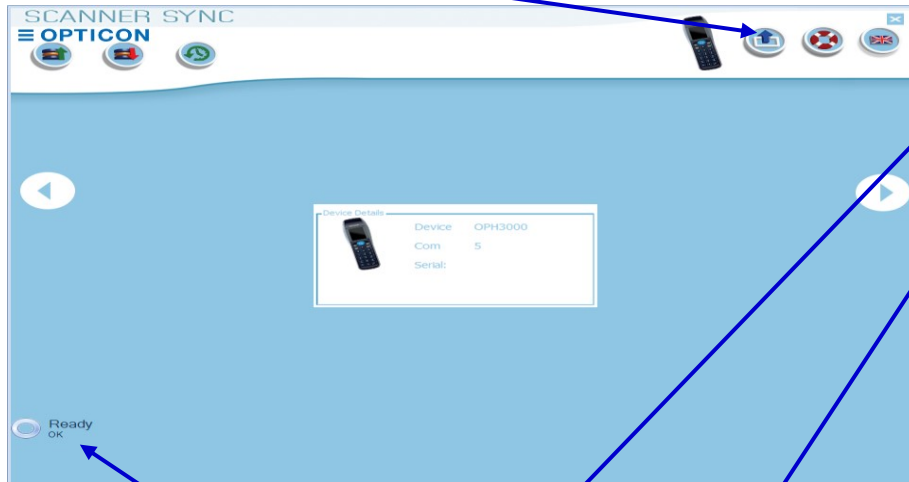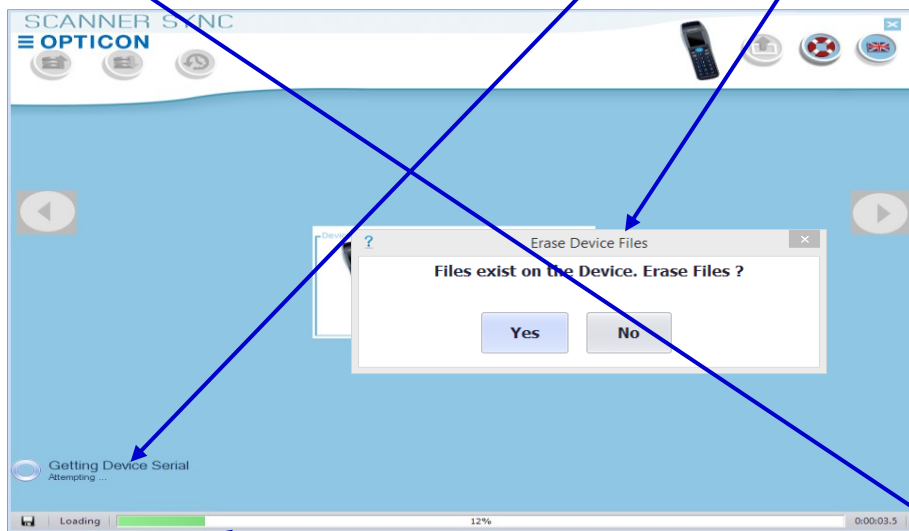
Syncing to the Scanner Cont.

When the scanner is detected, the button will become enabled.

2. Click the **Deploy** button.

3. A series of notifications and prompts may appear showing the progress of the following:

1. Getting Device Serial
2. Check if Scanner Format needed
3. Getting License Details
4. Erasing previous Database files and loading and subsequent files.
5. Compiling the App for the scanner
6. Publishing the App to the scanner.
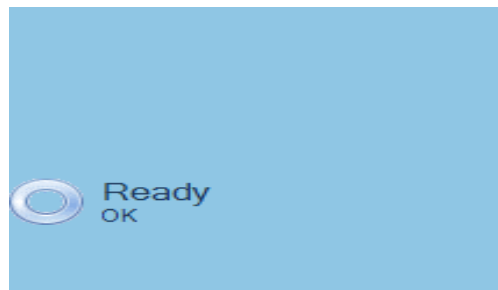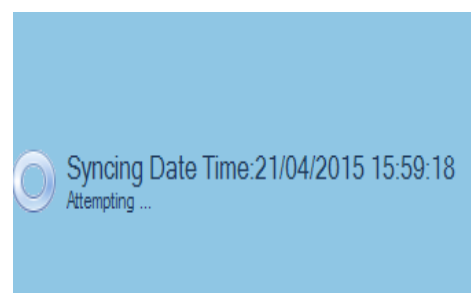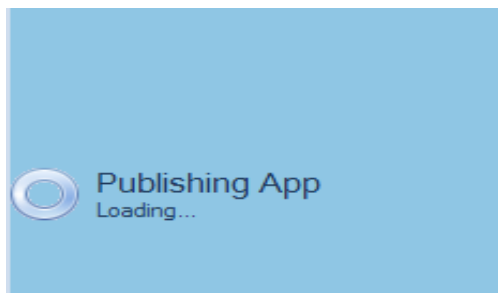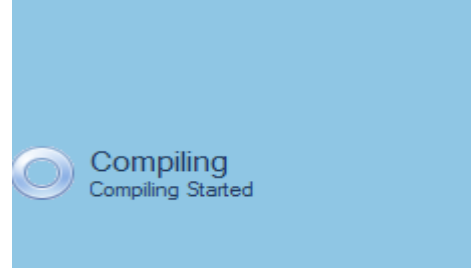**7.** Syncing the Date/Time of the scanner.

When the progress bar disappears and the **Ready OK** status appears, the scanner is ready for use.

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Syncing to the Scanner Cont.

The prompts that appear in the Bottom-Left corner to show the status of deployment:

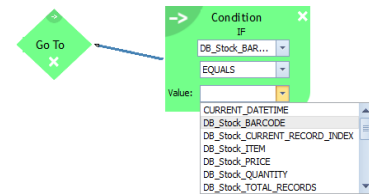|	
◎ Getting Licence Details Found Licenced Device	◎ Compiling Compiling Started
◎ Publishing App Loading…	◎ Syncing Date Time:21/04/2015 15:59:18 Attempting …
◎ Ready OK	**NOTE:** When the ***Ready OK*** status appears, the scanner can be unplugged. **Do not unplug the Scanner before the Status of *Ready OK* appears.**

DATAWIZE LTD

Secured Stock Take Summary

The Secured Stock Take App has introduced new logic and functionality in order to help.

From modifying an existing app, changing controls like the Function Keys, (i.e. **F1**, **F4**)

To using new logic and controls like the Flow Condition,

The Secured Stock Take app gives a user a real life app that can used in a stockroom or on a sales floor as soon as completed.

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