

Produmex Scan How-to Guides

How to Add a New Database to an Existing Installation

1. Assign the Produmex Scan Add-On to the database.
2. Start the add-on and run the database setup. *When working on a MSSQL environment, create a database backup before starting the database upgrade.*
3. Open Produmex Service Manager. Click on the 'Setup Companies' button and add the database. Then click on the 'Companies' button and enable the company. For more information please see: [Produmex Service Manager](#)
4. Run the [configurator for Produmex Scan](#). On the General tab, select the database from the list of databases and click OK.

How to Customize Employee Master Data with with UI Configuration Template

4.1. Overview

This documentation describes the standard SAP Business One UI Configuration function.

4.2. Create a configuration template

Open the UI Configuration Template form by following the path: Administration > Utilities > UI Configuration Template.

The screenshot shows the 'UI Configuration Template' window. The left sidebar under 'Administration' has 'UI Configuration Template' selected. The main window displays a list of UI templates on the left, with '1 US_SIMPLE' selected. To the right, the 'Name' field is 'US_SIMPLE' and the 'Description' is 'US Simplified UI Template'. Below these are two tabs: 'Forms' and 'Assigned Users'. The 'Forms' tab is active, showing a list of 17 forms: 1 Inventory Transfer Request, 2 A/R Invoice, 3 Business Partner Master Data, 4 Sales Order, 5 Delivery, 6 A/P Invoice, 7 Purchase Order, 8 Goods Receipt PO, 9 Purchase Request, 10 Sales Quotation, 11 Item Master Data, 12 Incoming Payments, 13 A/R Credit Memo, 14 Return, 15 A/P Credit Memo, 16 Goods Return, and 17 Journal Entry. At the bottom of the 'Forms' list are 'Edit Form UI' and 'Copy To' buttons. At the bottom of the window are 'OK' and 'Cancel' buttons.

Go to 'Add' mode and create a new template. On the Forms tab add the Employee Master Data. It is possible to assign the template to selected users only on the Assigned Users tab.

We will name our template 'Produmex Scan'.

The image shows a window titled "UI Configuration Template". It contains a list of UI Templates on the left, with "Produmex Scan" selected. To the right, the configuration for the selected template is shown, including its name and description. Below this, there are two tabs: "Forms" and "Assigned Users". The "Forms" tab is active, showing a list of forms, with "Employee Master Data" selected. At the bottom of the window, there are buttons for "Update", "Cancel", "Edit Form UI", and "Copy To".

UI Template	
1	US_SIMPLE
2	Produmex Scan

Name: Produmex Scan

Description: Produmex Scan

Forms

Forms	
1	Employee Master Data
2	

Update Cancel Edit Form UI Copy To

4.3. Edit the Employee Master Data UI

Select the Employee Master Data line and click on the *Edit Form UI* button. The Employee Master Data form will open in UI Edit Mode.

To add a new tab, select the *Add tab* option from the right-click menu.

We will add a Scan tab.

Drag the User Defined Fields and drop it on the new tab. After the field is placed on the tab, it can be resized. To arrange the UDFs on the tab, select multiple fields and align them with a right-click menu aligning option.

It is also possible to move standard SBO fields or standard SBO buttons from other tab as well. As the

best practice, grab the button, place it on the header area, then go to the destination tab. Grab again the button and place it on the destination tab.

Please note: The Mobile User Preference and the Mobile User Printer button cannot be moved.

Employee Master Data - UI Edit Mode

First Name: Employee No.:
 Middle Name: Ext. Employee No.:
 Last Name: ☒ Active Employee

Job Title:
 Position: Office Phone:
 Department: Ext.:
 Branch: Mobile Phone:
 Manager: Pager:
 User Code: Home Phone:
 Sales Employee: Fax:
 Cost Center: E-Mail:
 Linked Vendor:

Address	Membership	Administration	Personal	Remarks	Attachments	Finance	Scan
Aut. for Batch Delivery	No		Aut. for Production Return	No			
Aut. for Batch SO Creation	No		Aut. for Quick Counting	No			
Aut. for Batch SO Transfer	No		Aut. for Receipt By-Products	No			
Aut. for Batch Transfer	No		Aut. for Receipt from Prod.	No			
Aut. for Bin Attributes	No		Aut. for Recommendations	No			
Aut. for Bin Locking	No		Aut. for Sales Issue	No			
Aut. for Cash and Carry	No		Aut. for Sales Return	No			
Aut. for Credit Note	No		Aut. for Stock Counting	No			
Aut. for Free GR PO	No		Aut. for Stock Transfer	No			
Aut. for Goods Issue	No		Aut. for Transfer Request	No			
Aut. for Goods Receipt	No		Default Printer				
Aut. for Goods Receipt PO	No		Mobile Password				
Aut. for Issue for Prod.	No		PIN Code				
Aut. for Mass Transfer	No						
Aut. for Packing	No						
Aut. for Picking	No						
Aut. for Picking Delivery	No						
Aut. for Print Labels	No						

Find Cancel

Employee Master Data

First Name: John Employee No.: 1
 Middle Name: Ext. Employee No.: JD1
 Last Name: Doe ☒ Active Employee

Job Title:
 Position: Office Phone:
 Department: Ext.:
 Branch: Mobile Phone:
 Manager: Pager:
 User Code: Home Phone:
 Sales Employee: -No Sales Employ Fax:
 Cost Center: E-Mail:
 Linked Vendor:

Address	Membership	Administration	Personal	Remarks	Attachments	Finance	Scan
Aut. for Batch Delivery	Yes		Aut. for Production Return	Yes			
Aut. for Batch SO Creation	Yes		Aut. for Quick Counting	Yes			
Aut. for Batch SO Transfer	Yes		Aut. for Receipt By-Products	Yes			
Aut. for Batch Transfer	Yes		Aut. for Receipt from Prod.	Yes			
Aut. for Bin Attributes	Yes		Aut. for Recommendations	Yes			
Aut. for Bin Locking	Yes		Aut. for Sales Issue	Yes			
Aut. for Cash and Carry	Yes		Aut. for Sales Return	Yes			
Aut. for Credit Note	Yes		Aut. for Stock Counting	Yes			
Aut. for Free GR PO	Yes		Aut. for Stock Transfer	Yes			
Aut. for Goods Issue	Yes		Aut. for Transfer Request	Yes			
Aut. for Goods Receipt	Yes		Default Printer				
Aut. for Goods Receipt PO	Yes		Mobile Password				
Aut. for Issue for Prod.	Yes		PIN Code				
Aut. for Mass Transfer	Yes						
Aut. for Packing	Yes						
Aut. for Picking	Yes						
Aut. for Picking Delivery	Yes						
Aut. for Print Labels	Yes						

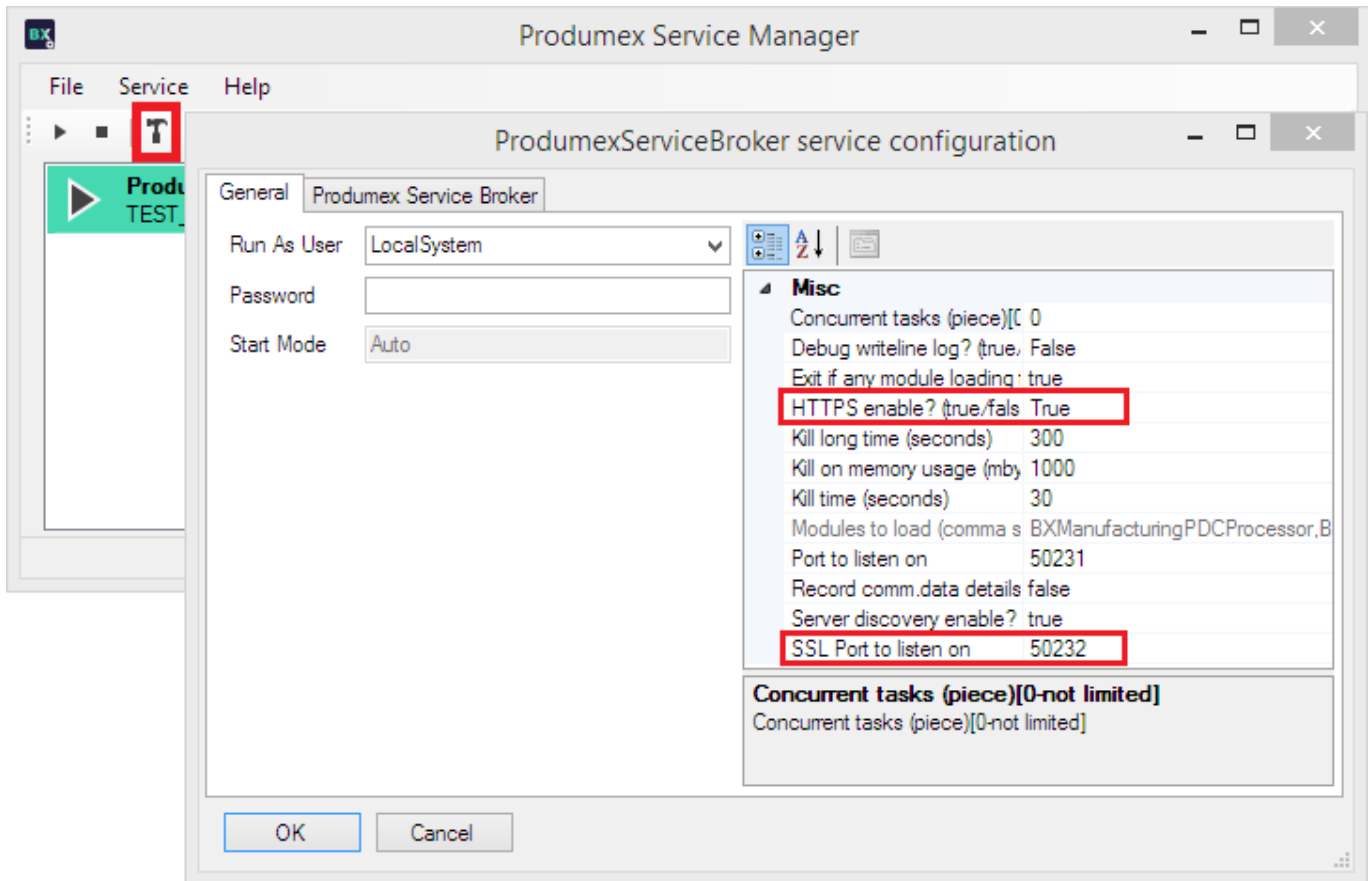
OK Cancel

How to Configure HTTPS for Produmex Service Broker with a self-signed certificate

1. Produmex Service Broker Settings

Open the Produmex Service Broker configuration window from the Produmex Service Broker.

Enable HTTPS by setting the 'HTTPS enable?' setting to True, then set the port you would like to use as the 'SSL Port to listen on'.



2. Create client certificate

Create the self-signed certificate on your server.

In this documentation we used MakeCert.exe which is a part of the Microsoft Windows SDK. You can download the Windows SDK from here:

- Windows 10: <https://developer.microsoft.com/en-us/windows/downloads/windows-10-sdk>
- Versions previous to Windows 10: <https://developer.microsoft.com/en-us/windows/downloads/sdk-archive>

Open Command Prompt as an administrator and run the following command:

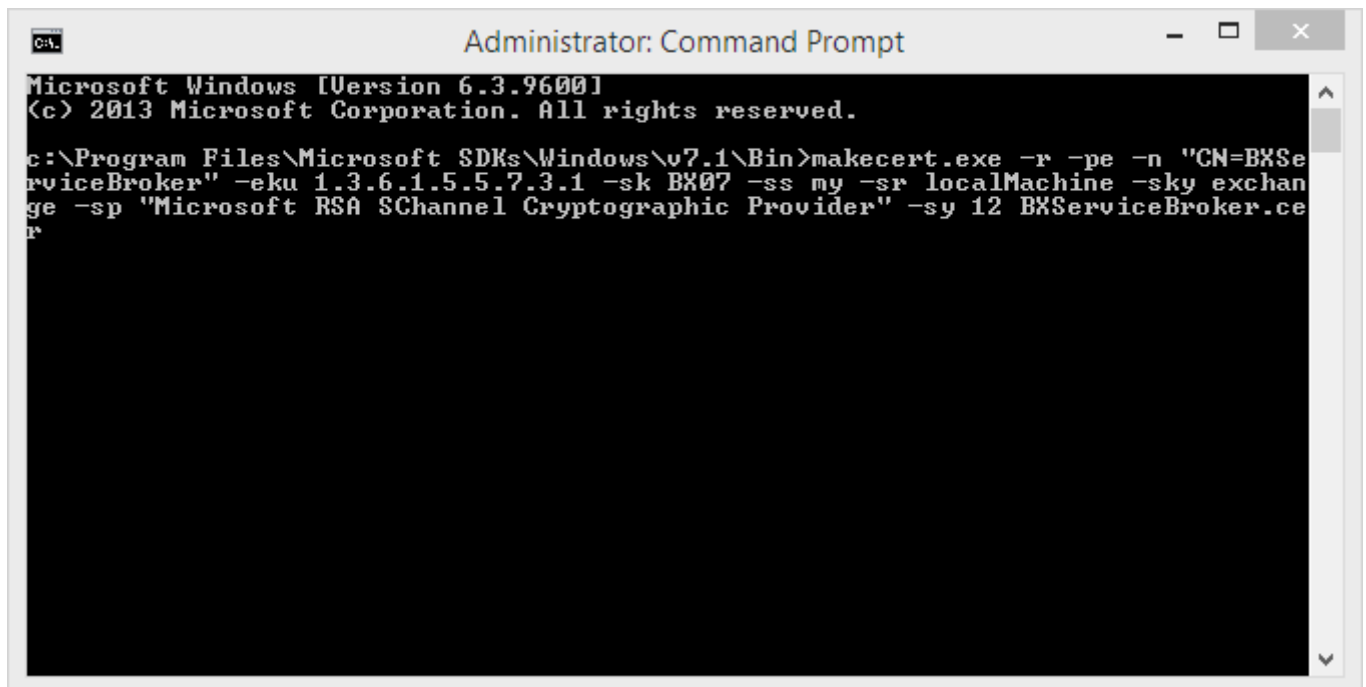
```
<path>makecert.exe -r -pe -n "CN=<name>" -eku 1.3.6.1.5.5.7.3.1 -ss my -sr localMachine -sky exchange -sp "Microsoft RSA SChannel Cryptographic Provider" -sy 12 <filename>.cer
```

Replace <path> with the actual access path of the MakeCert.exe. Adapt the <name> and the <filename> as well.

In this example we used the following command:

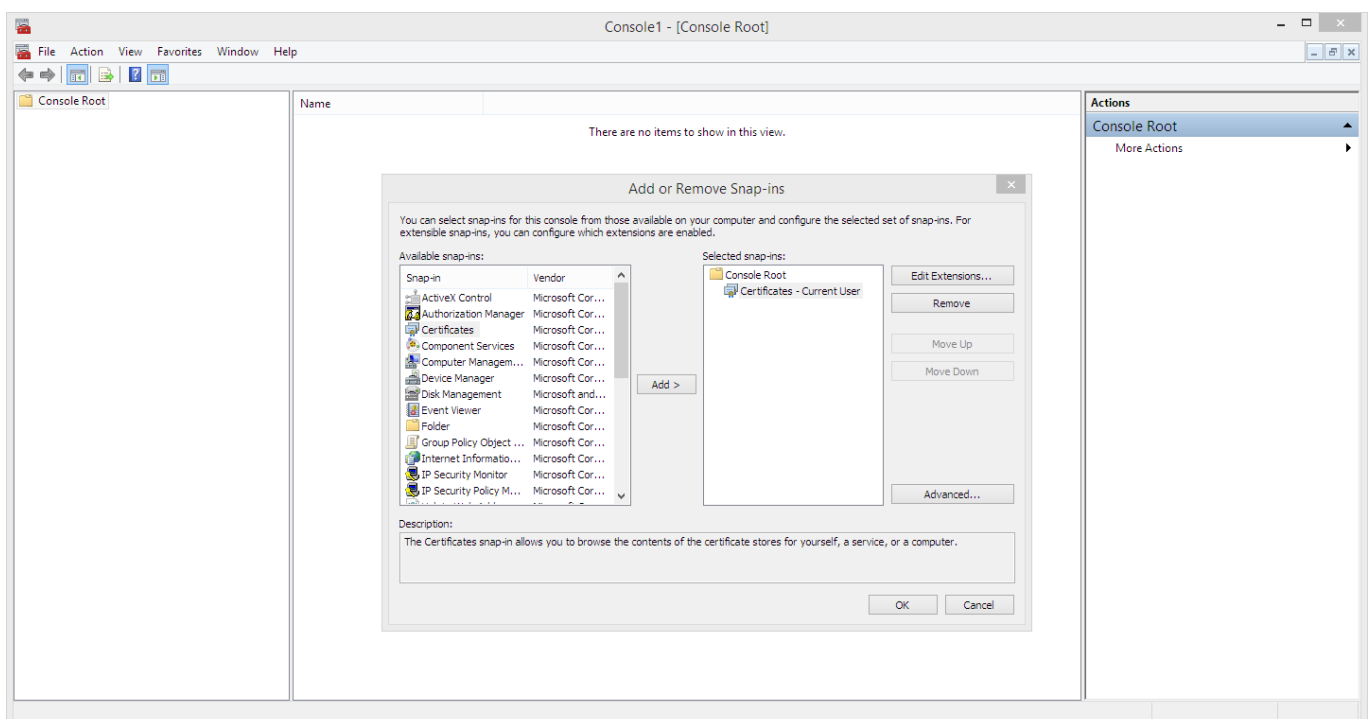
```
C:\Program Files\Microsoft SDKs\Windows\v7.1\Bin\makecert.exe -r -pe -n "CN=ServiceBroker" -eku 1.3.6.1.5.5.7.3.1 -ss my -sr localMachine -sky exchange -sp "Microsoft RSA SChannel Cryptographic Provider" -sy 12 ServiceBroker.cer
```

In this documentation we used MakeCert.exe which is a part of the *Microsoft Windows SDK for Windows 7 and .NET Framework 4*. Please keep in mind that other versions of MakeCert or other certification generators might use different parameters.

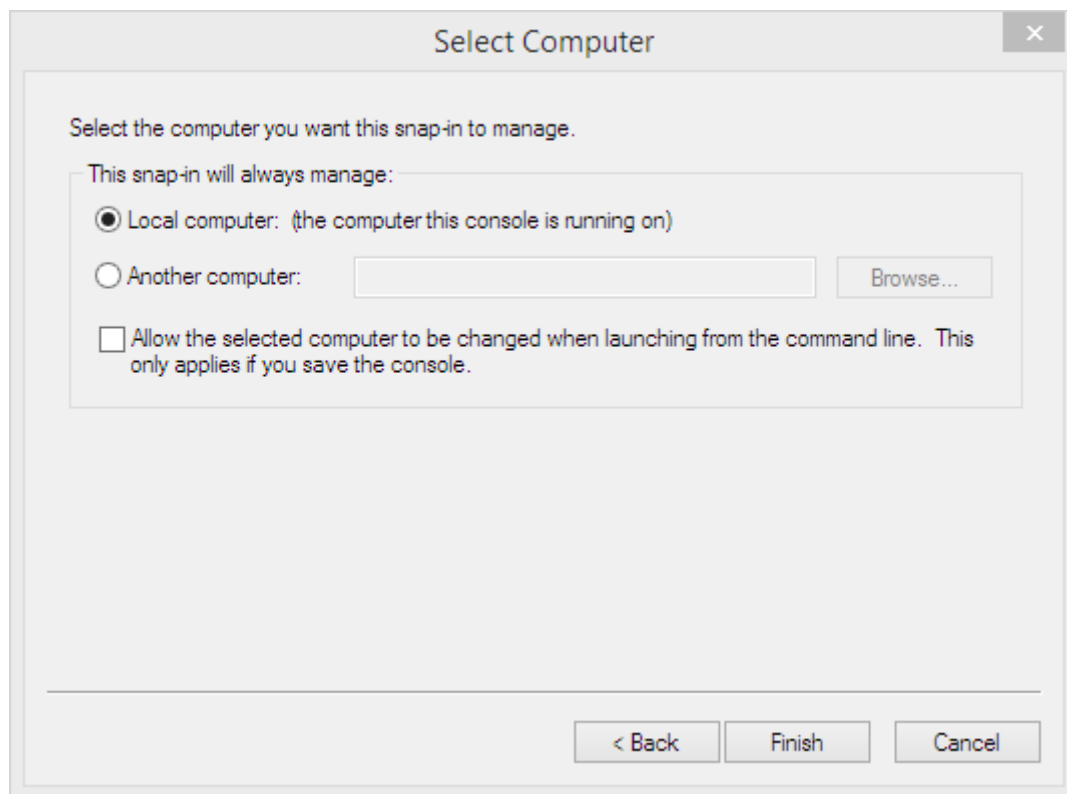


3. Import the certificate on a Windows server

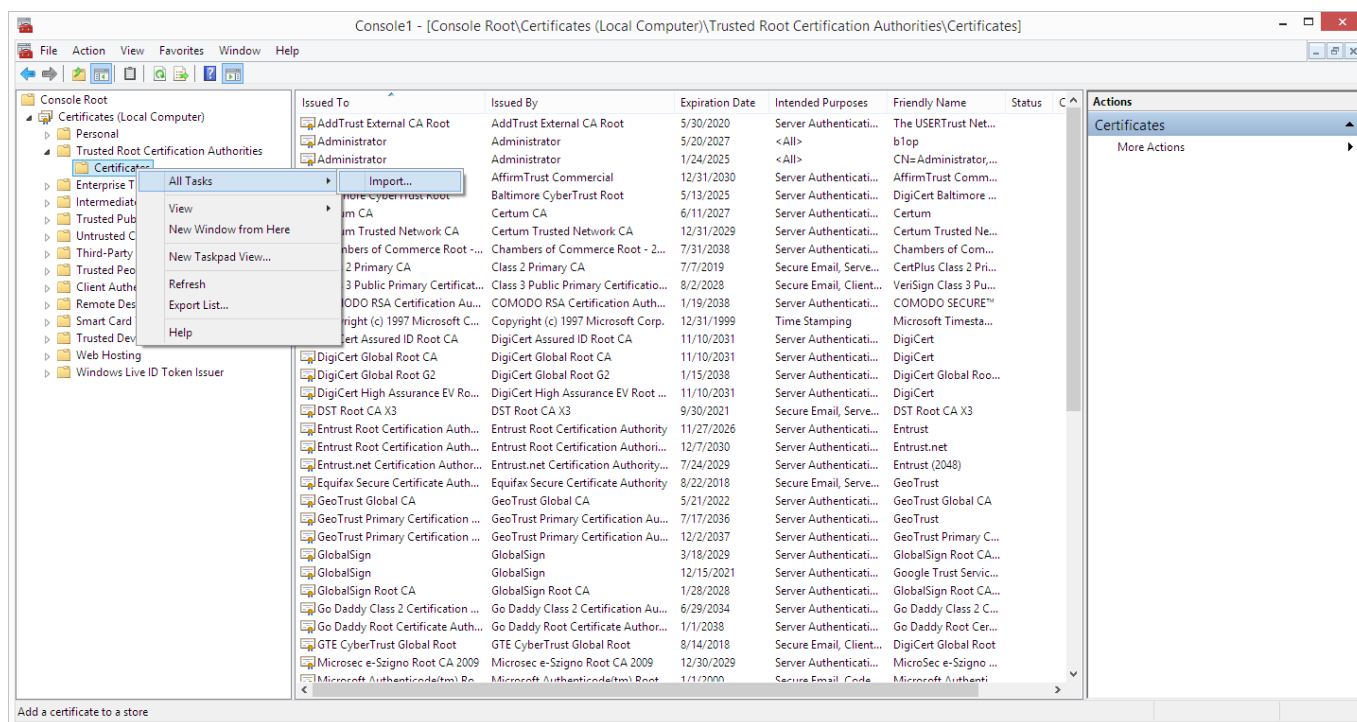
Run the Microsoft Management Console (mmc.exe). From the File menu select Add/Remove Snap-In.



Choose the *Certificates* snap-in and add it to the 'Selected snap-ins'. On the opening Certificates snap-in select 'Computer account'. On the next screen choose *Local computer* (or select the computer account) then click on the Finish button.



On the Console navigate to Certification via Certificates (Local computer) > Trusted Root Certification Authorities > Certification. Right-click on Certification and select *Import...* from *All Tasks*.



Follow the steps of the Certificate Import Wizard. Browse the ServiceBroker.cer, place the certificate to the Trusted Root Certification Authorities certificate store and finish the import.

Then import the certificate to the Personal folder as well, following the above described steps.

4. Bind the certificate to the port number

Bind the ServiceBroker.cer to the port number.

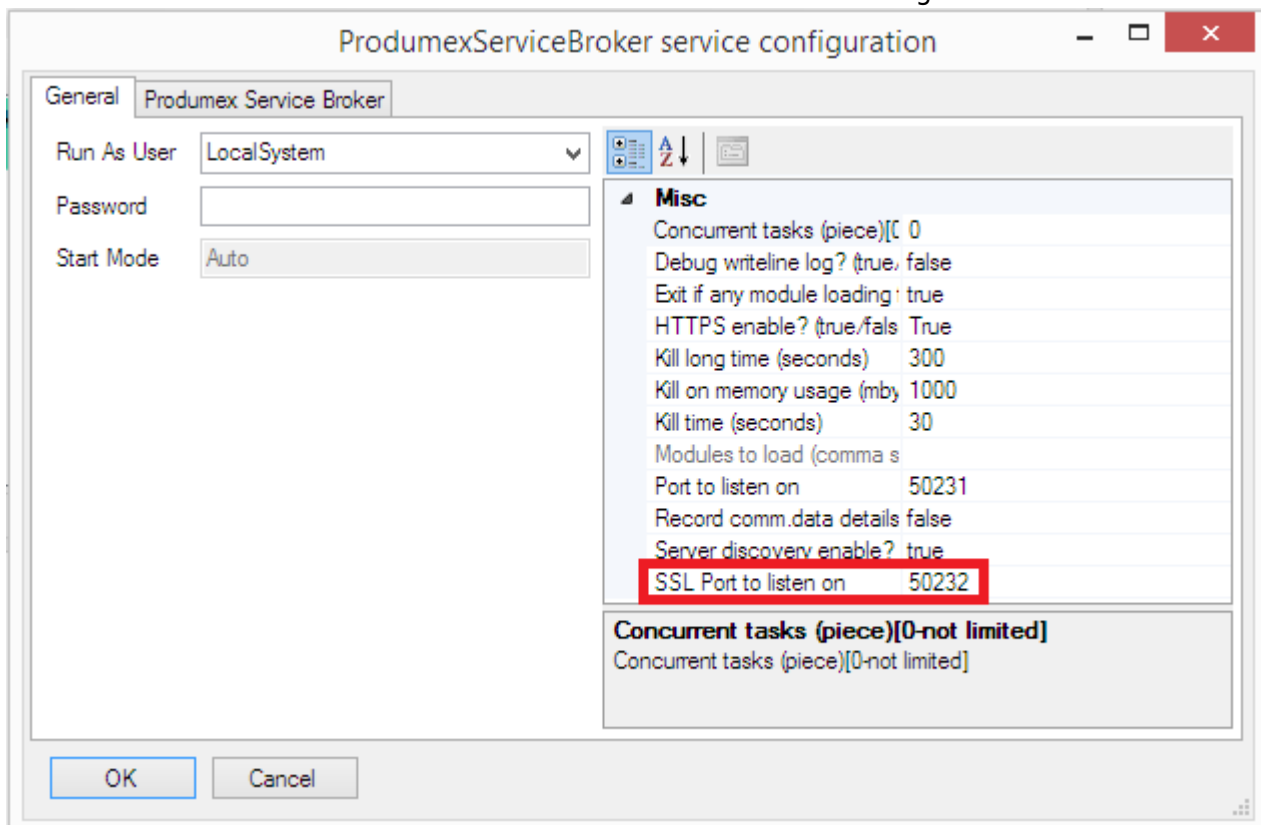
In this example we use the following netsh command in order to configure the certification to the port number.

Run the following command with Command Prompt:

```
netsh http add sslcert ipport=0.0.0.0:port certhash=thumbprint appid={app-guid}
```

Where:

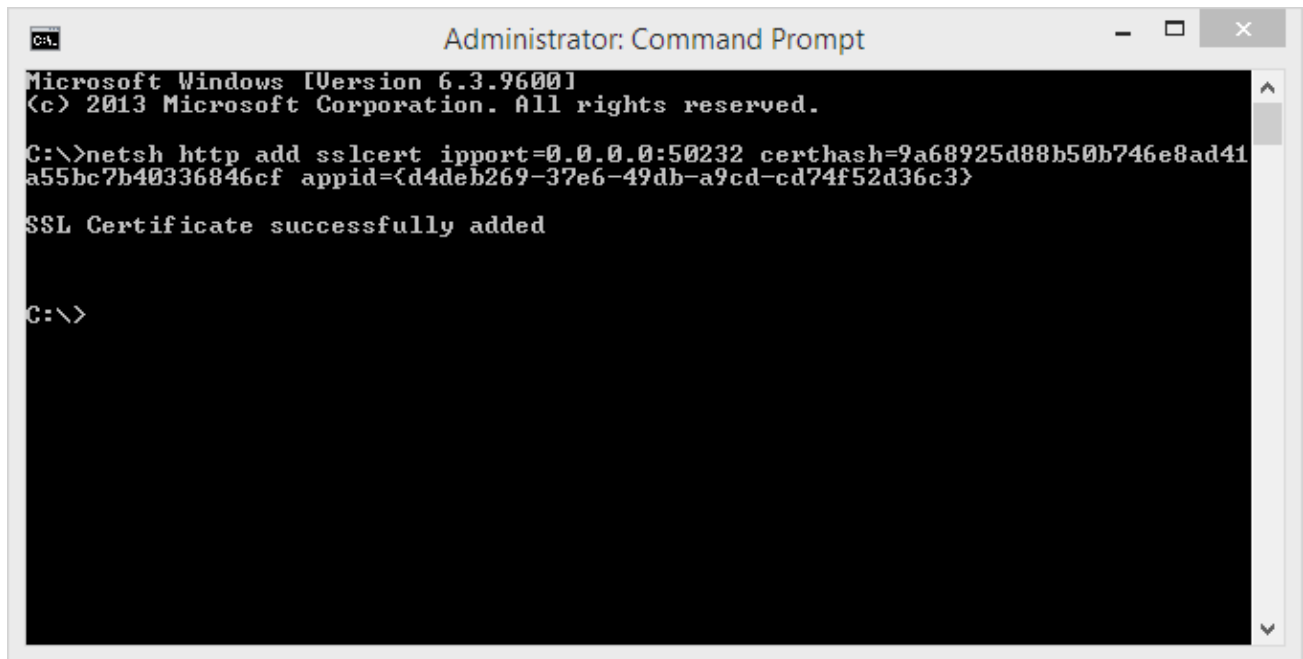
- **ipport**: is the IP address and the listening port. You can use a special IP address 0.0.0.0 that matches any IP address for the local machine. The listening port must be the same as the 'SSL Port to listed on' that is set on the Produmex Service Broker service configuration screen.



- **certhash**: The thumbprint of the certificate is the certificate's SHA-1 hash, represented in hexadecimal. In order to determine the certhash, open the certificate and go to the Details tab. Copy the thumbprint value to a text editor and remove all spaces between the hexadecimal characters. Make sure that there are no hidden characters in the string. (Eg. select the line and set the encoding to ANSI.)
- **appid**: is the GUID (e.g. {00000000-0000-0000-0000-000000000000}) that identifies the owning application. The GUID of the Produmex Service Broker is **{d4deb269-37e6-49db-a9cd-cd74f52d36c3}**

Example command:

```
netsh http add sslcert ipport=0.0.0.0:50232  
certhash=a828d05b70e88c9c904fe5149ad170ff89433102 appid={d4deb269-37e6-  
49db-a9cd-cd74f52d36c3}
```



5. Import the certificate

Besides the server, the certificate has to be imported on every computer that connects to Produmex Service Broker over HTTPS.

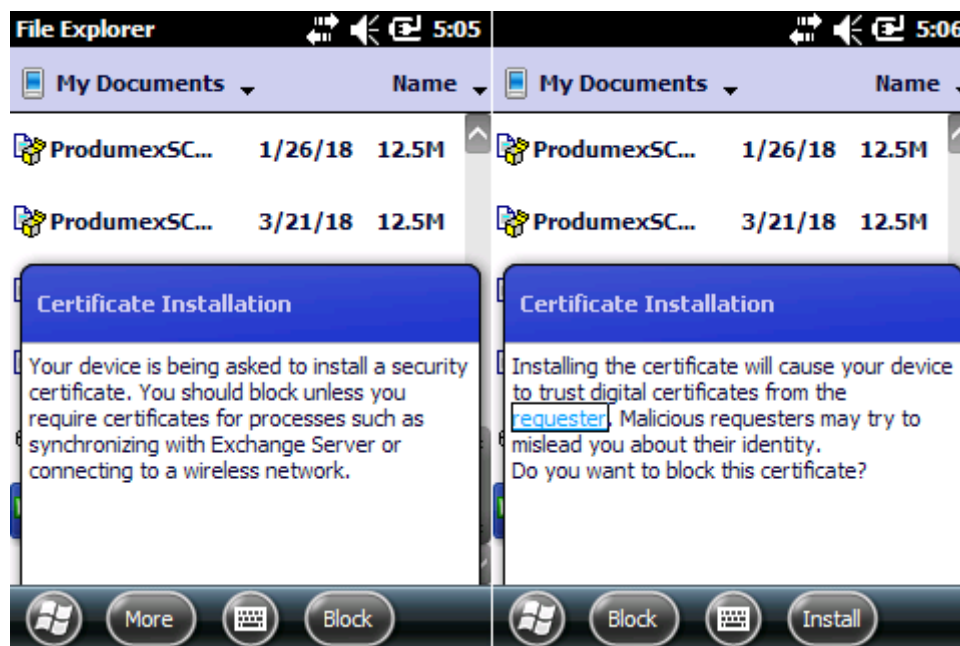
5.1. Import the certificate on a mobile device

In this example we installed the certificate on a Honeywell Dolphin 60 device with Windows Embedded Handheld 6.5 Classic operating system. The installation steps may differ based on the operating system and the device.

Copy the certificate file to the device, eg. to the *My Documents* folder.

Open the File Explorer from Start>Programs>File Explorer and open the folder where you copied the certificate. Tap on the certificate file you would like to import.

A 'Certificate Installation' message opens up. Press the 'More' button. To see the details of the certificate file, tap on the 'requester' link. To install the certificate, press the 'Install' button.



If the installation is successful, a confirmation message is displayed. The certificate is imported to the Root folder of Certificates.

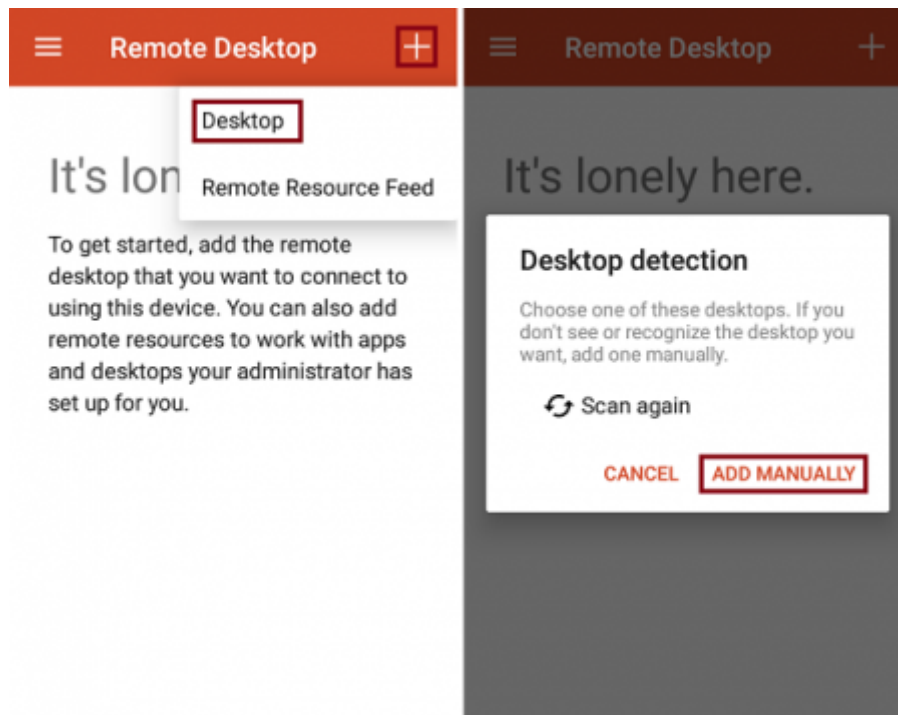
How to Set Up Android Devices for Produmex Scan

1. Setting up Wi-Fi Connection

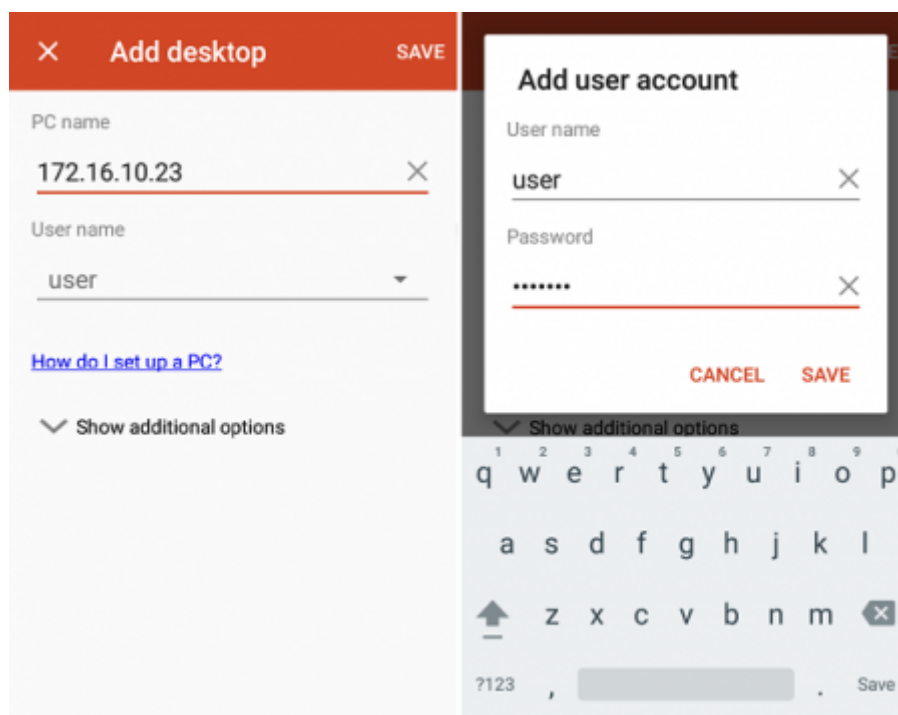
Set up the Wi-Fi connection on the device from Android settings.

2. Setting up Remote Desktop Connection

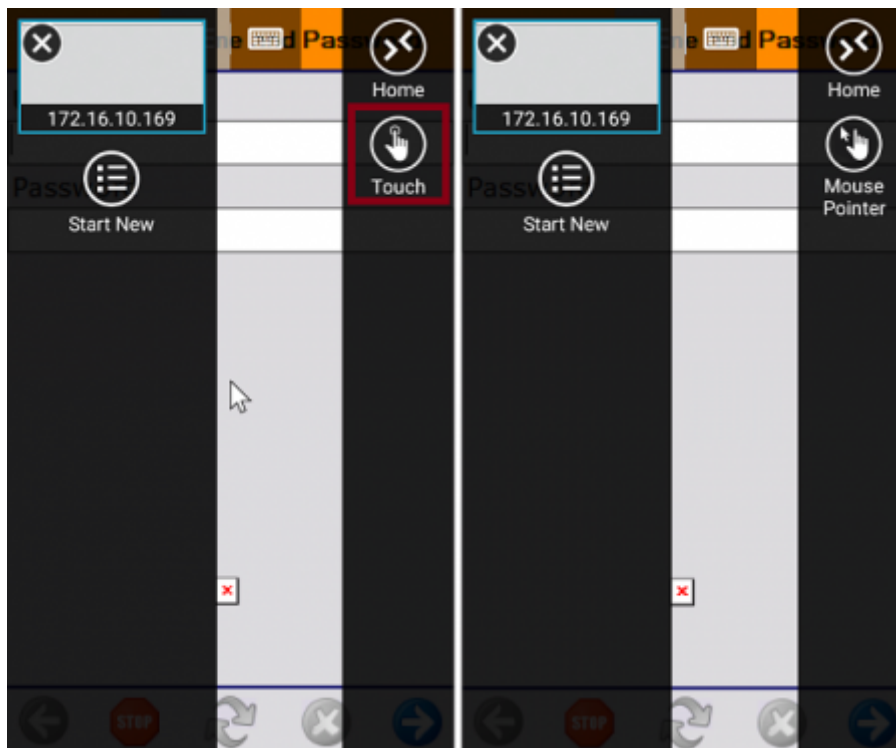
1. Install Remote Desktop on your device. If the device has access to Google Play, install the Microsoft Remote Desktop app from Google Play, otherwise download the Microsoft Remote Desktop .apk file and install it manually on the device.
2. Open the Remote Desktop app.
3. Tap the + icon and select *Desktop* to add a new connection.
4. Tap Add Manually.



5. Enter the IP address or the host name as the *PC name*.
6. Add the user account by entering the user name and password and tap Save.



7. Open remote desktop and tap the  icon.
8. Set the mouse mode to *Touch*. Tap the *Touch* icon on the right sidebar. The mouse mode is *Touch* if the *Mouse Pointer* icon is displayed.

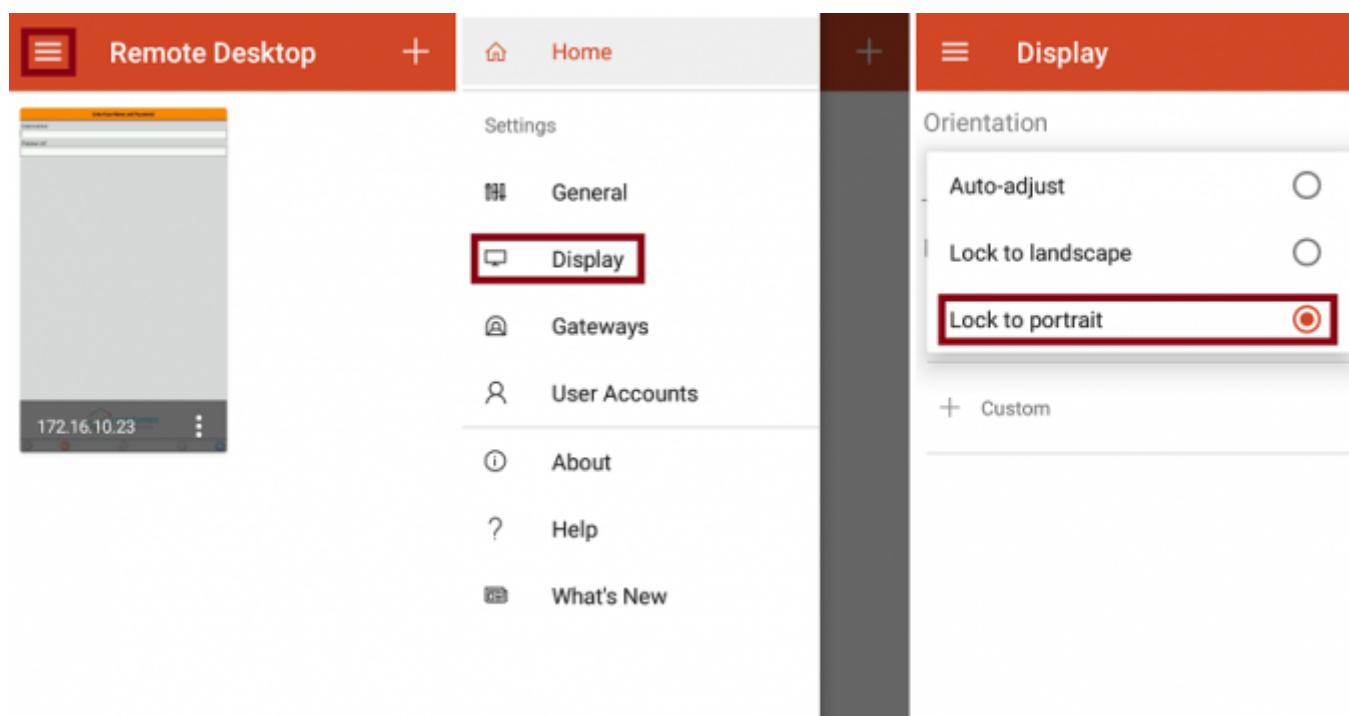


3. Display Settings

3.1. Remote desktop

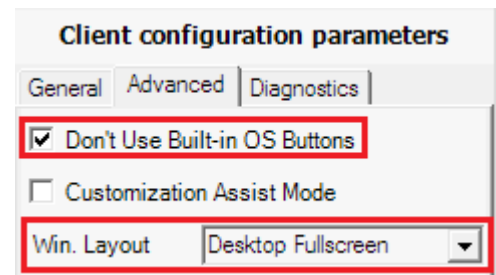
We recommend setting the orientation as *Portrait*. This can be done in the following way:

Set the orientation of the Remote Desktop app to *Portrait*. Open the app settings and select the *Display* menu. Set the Orientation to *Lock to portrait*.



3.2 Device

We recommend the following settings on the device.



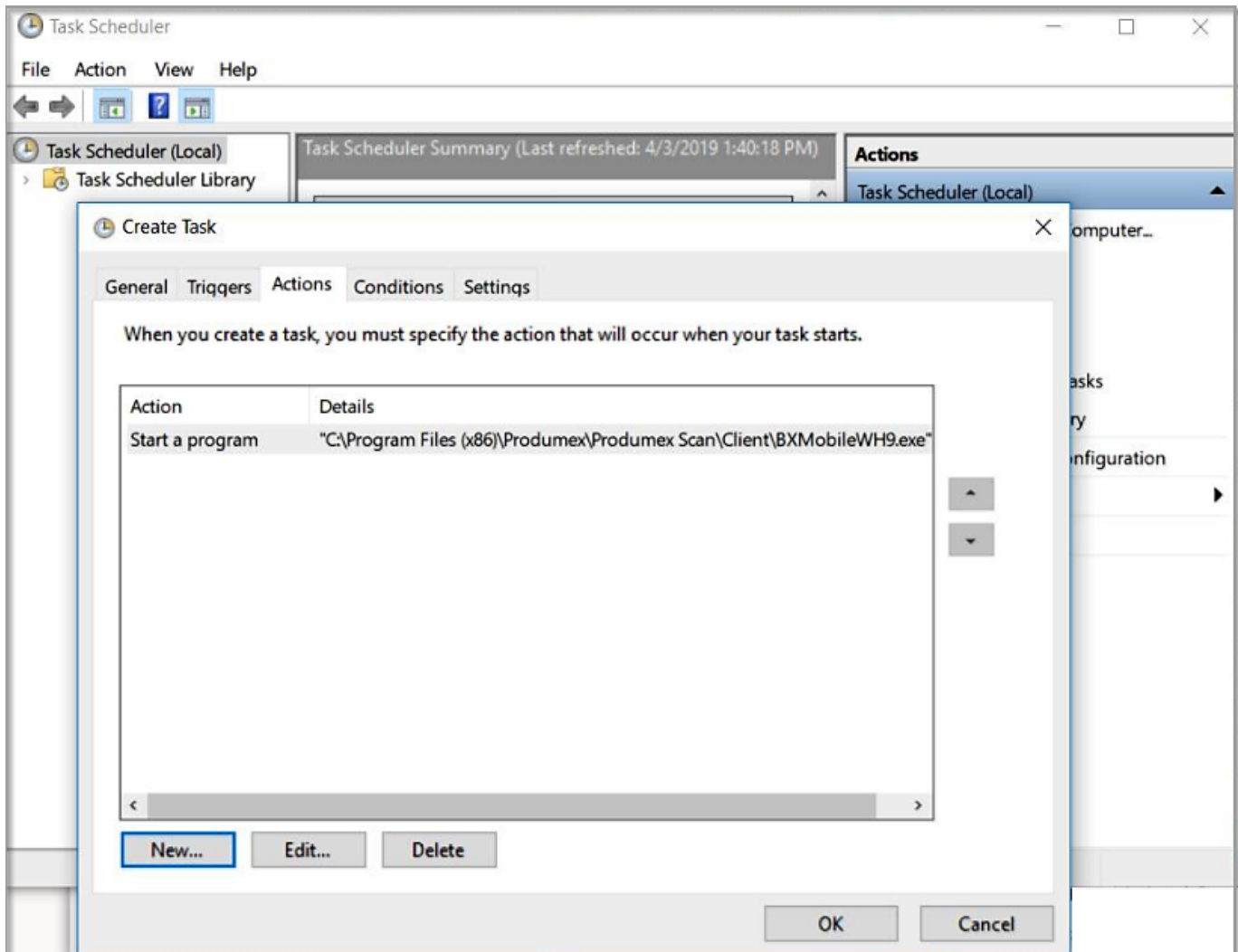
1. Open the Configure Produmex Scan application.
2. Tick the **Do not use built-in OS buttons** option to disable the built-in OS buttons.
3. Set the Windows layout to **Desktop fullscreen**.

4. Creating a Scheduled Task

Create a scheduled task for the batch file that is triggered at log on.

Start the *Task Scheduler* and click Create Task.

Make sure that on the Triggers tab the *Begin the task setting* is set to **At log on**.



5. Scanning Configurations

On most systems scanning settings are assigned to profiles. By default, the settings of the default profile are applied, but it is possible to create specific profiles for applications. Profile handling may differ based on the device.

Set the following scanning configurations for the profile you would like to use:

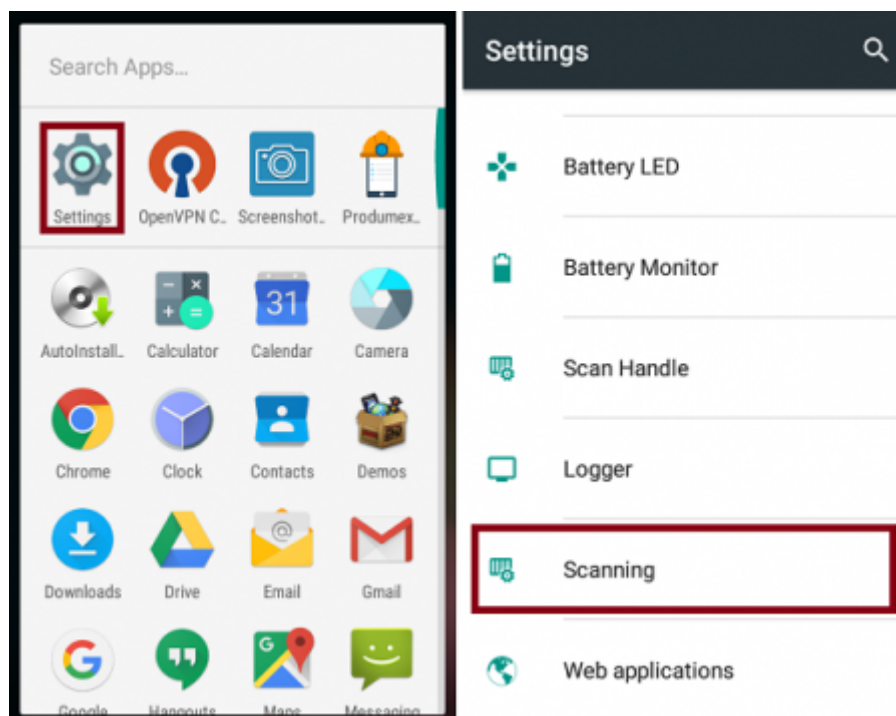
1. Set the code type to **NONE**.
2. Set to **send TAB** after the barcode data.

Configuration steps may differ based on the device and the Android version. This documentation includes the configuration steps for the following:

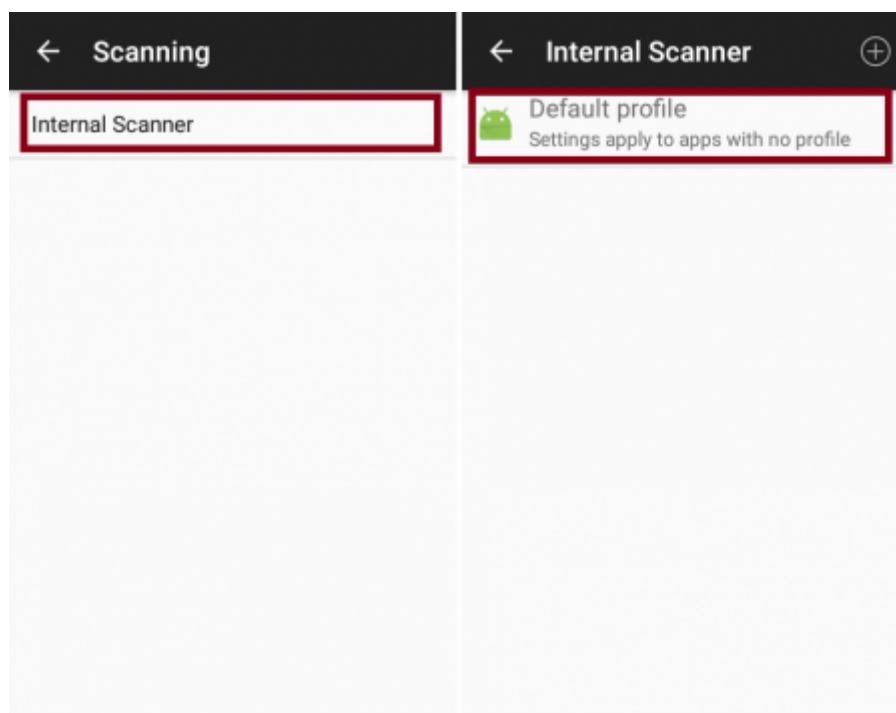
- Honeywell Dolphin 75e – Android 6.0.1.
- Zebra MC9200 – Android 4.4.4.

5.1. Example 1: Honeywell Dolphin 75e – Android 6.0.1

1. Open Android Settings. 2. From the Honeywell settings select *Scanning*.



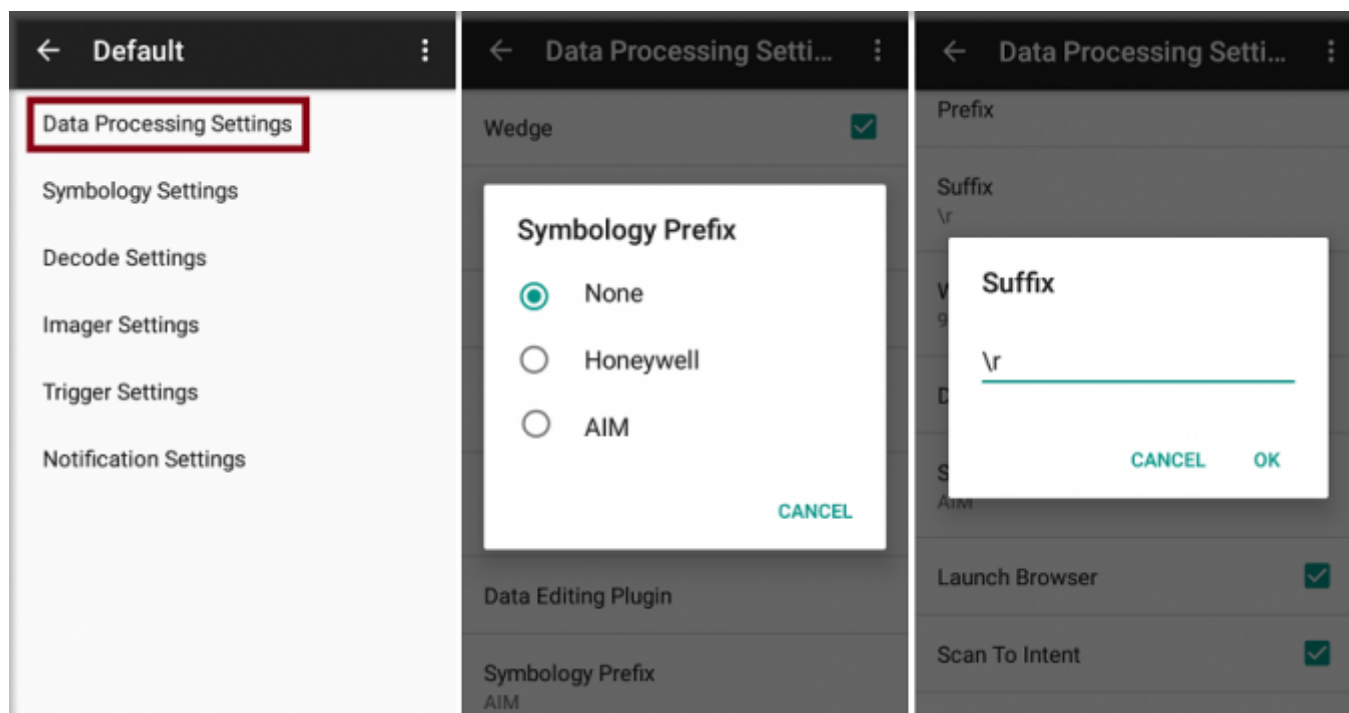
3. Select *Internal Scanner* and select the profile you would like to use from the list of profiles.



4. Tap *Data Processing Settings*.

5. In the *Data Processing Settings* menu set the *Symbology Prefix* to **None**.

6. To send the **TAB** key after the barcode data, add '\r' as *Suffix*.

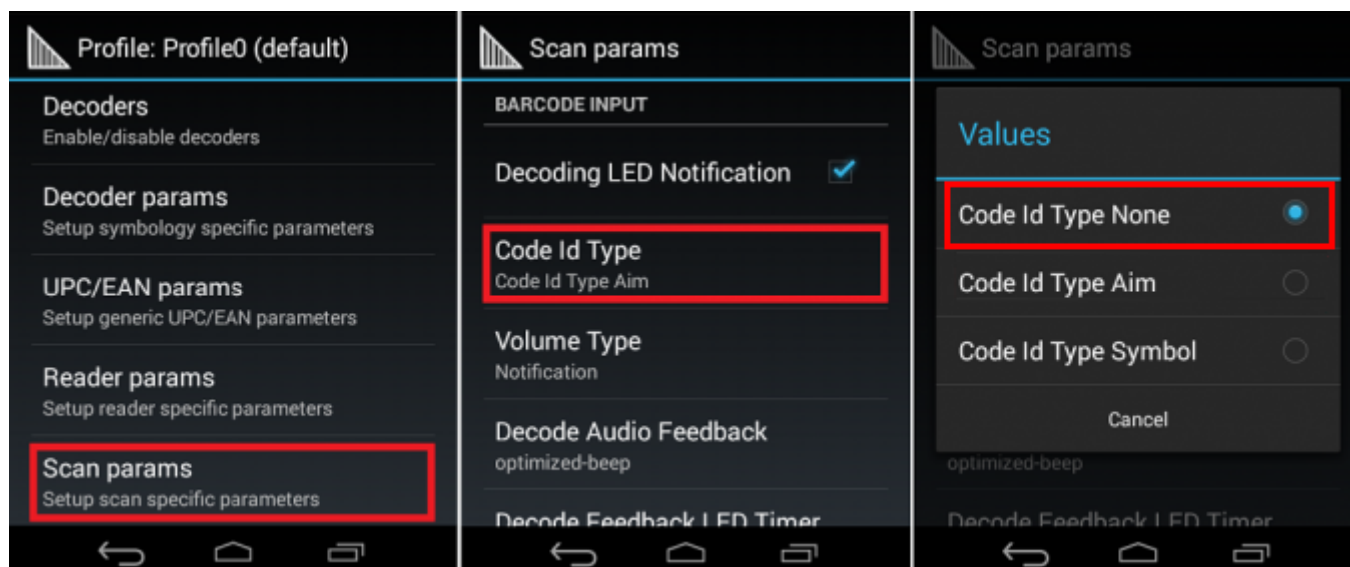


5.2. Example 2: Zebra MC9200 - Android 4.4.4

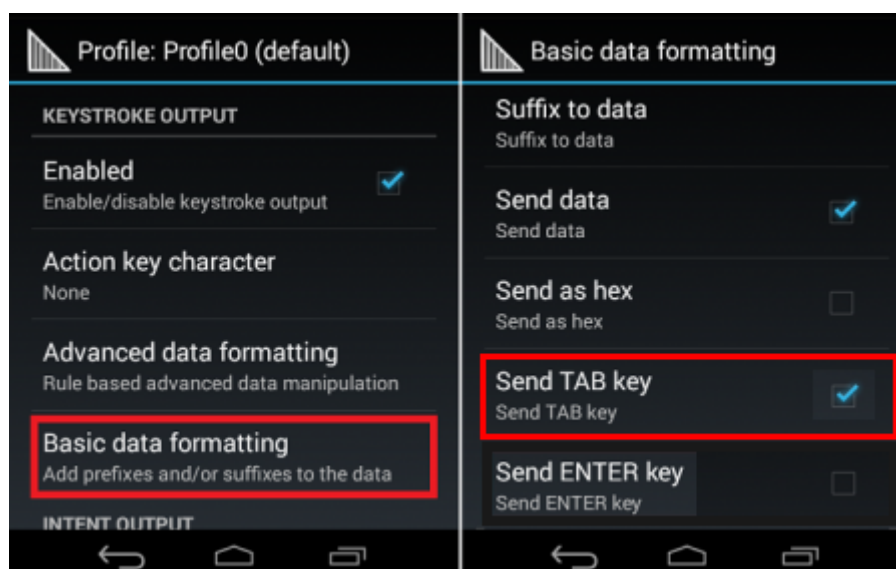
1. Open the DataWedge app.
2. Select the profile you would like to use from the list of profiles.



3. From the BARCODE INPUT plugin select *Scan params*.
4. Select *Code Id Type* and set the code ID type to **NONE**.



5. From the KEYSTROKE OUTPUT plugin open *Basic data formatting* and enable the **Send TAB key** setting.



6. Setup for Power Usage

We recommend adjusting the following settings in order to save power usage:

6.1. Sleep Mode

Adjust the sleep mode settings.

6.2. Backlight

Adjust the backlight settings. The configuration steps depend on the device.

How to Set Up a Windows scanner for Produmex Scan on Windows Embedded Handheld 6.5

The Produmex Scan client application runs natively on Windows mobile devices. It is also possible to run it on the server and access through remote desktop, but it is only recommended on cloud environments where the network connection is slower in order to avoid latency issues.

In this documentation we demonstrate the configuration steps on two different devices:

- Zebra MC67NA mobile computer (Windows Embedded Handheld 6.5 Professional)
- Honeywell Dolphin 60 handheld computer (Windows Embedded Handheld 6.5 Classic)

Please note: The configuration steps may differ based on the device and the operating system.

1. Setup the Wi-Fi connection on the device

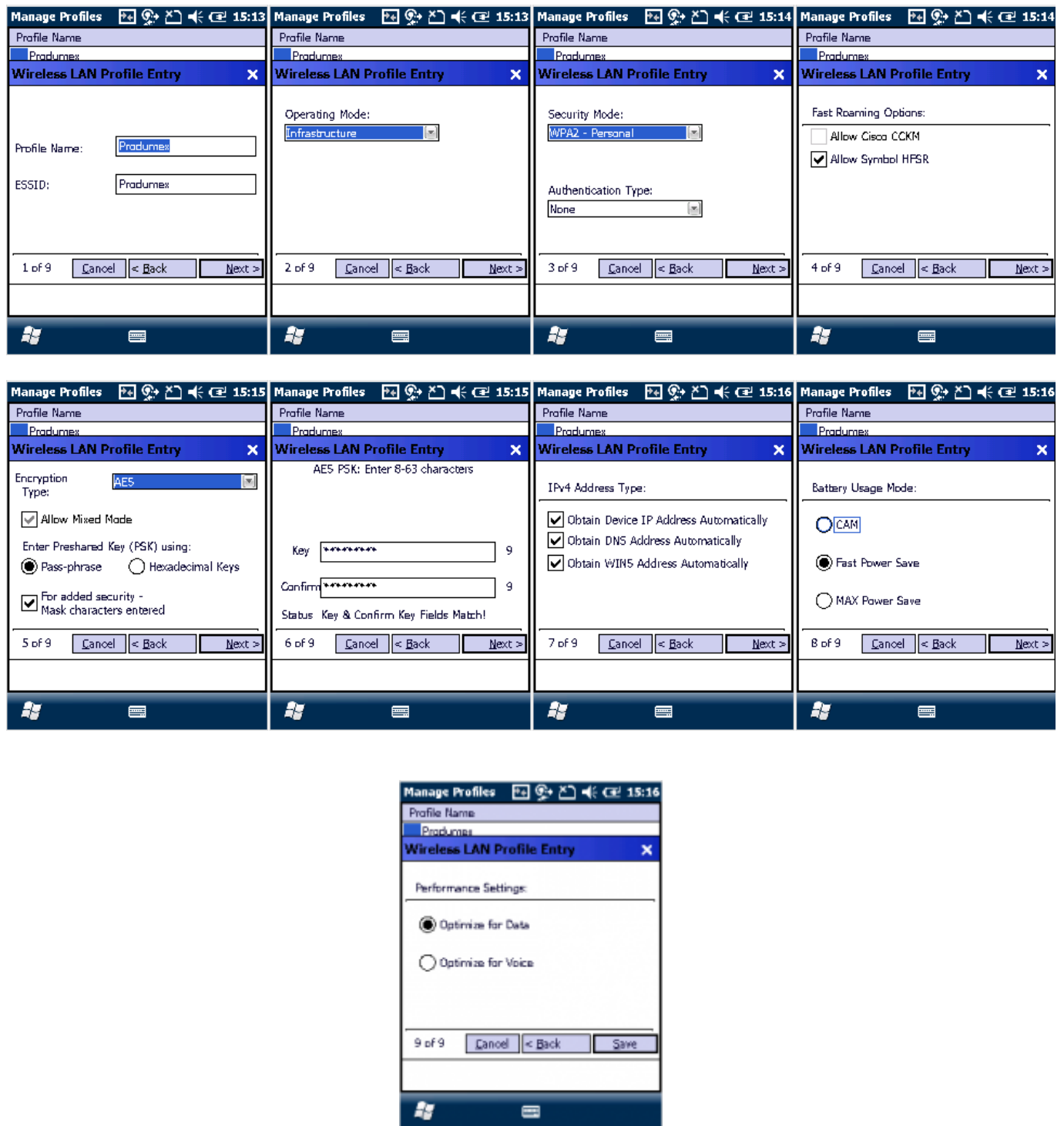
Set up the Wi-Fi connection on the device. The Produmex Scan client application connects to the Service Broker by using HTTP/HTTPS protocols.

1.1. Example: Zebra MC67NA

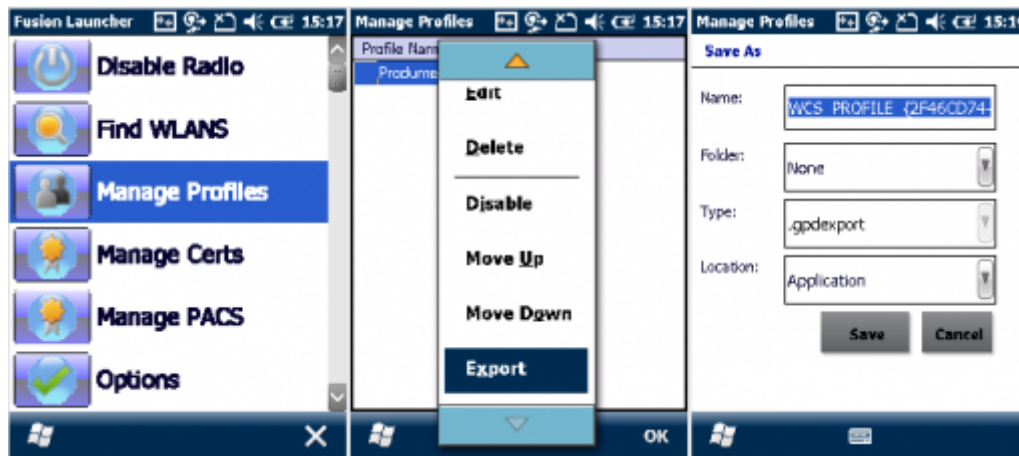
From the Start menu select Wireless Companion>Wireless Launch. On the Fusion Launcher screen press 'Find WLANS'. On the next screen every active WLAN in the area is listed. Press the WLAN you would like to connect and select the 'Create profile' option.



Follow the steps of the Wireless LAN Profile Entry and save the profile.



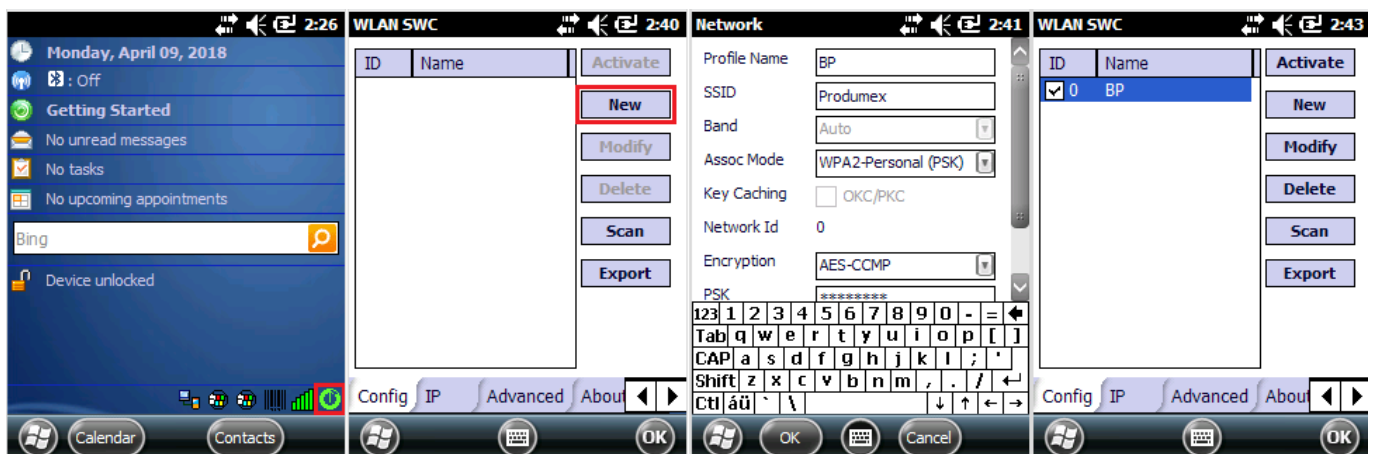
To save the profile to the fixed menu of the device, press Manage Profiles on the Fusion Launcher screen. Tap on the profile and select the 'Export' option. Select the destination folder and press Save.



1.2. Example: Honeywell Dolphin 60

Press the WLAN SWC icon  and go to the 'Config' tab. Press the 'New' button to establish a new connection. Fill in the required parameters and tap OK.

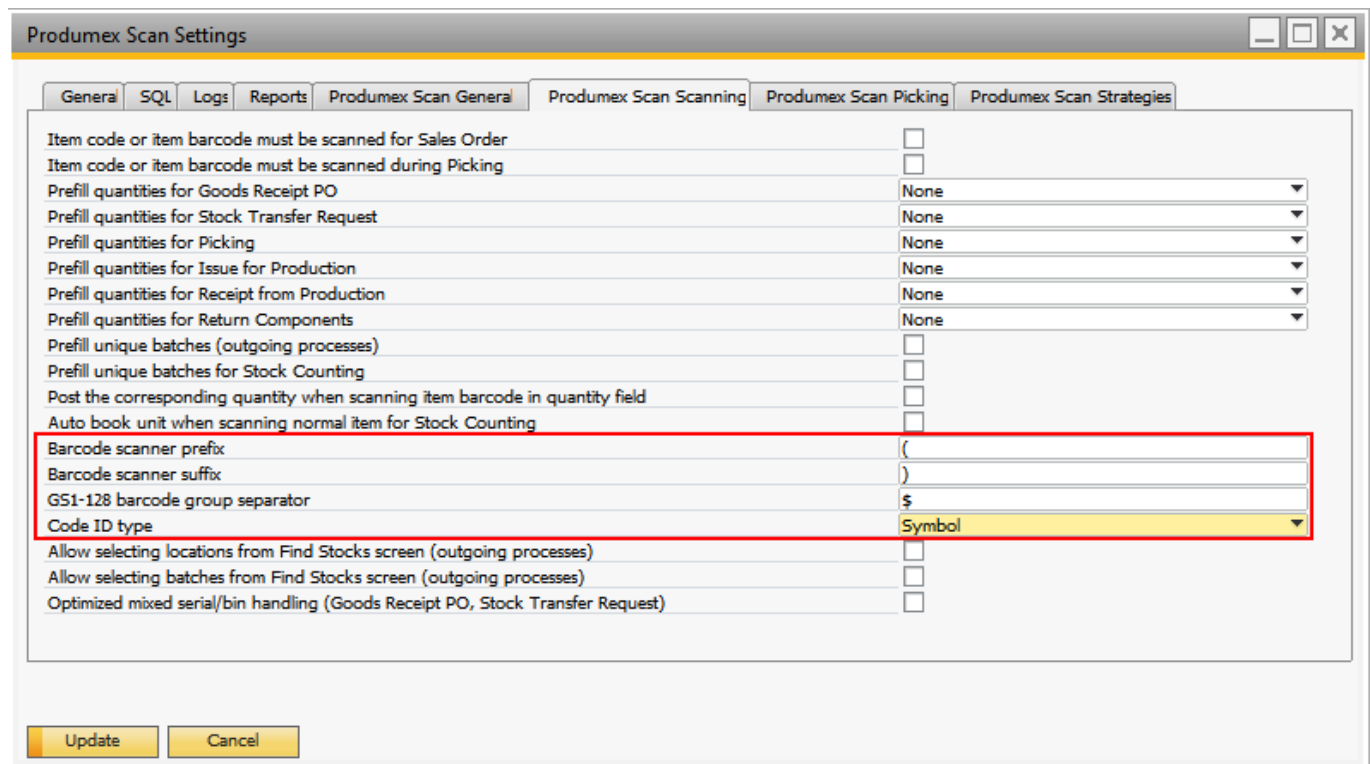
Then select the profile from the list and tap 'Activate'. The device tries to connect to the network according to the entered parameters.



2. Scanning settings

This section describes the scanning configurations that are necessary to use Produmex Scan properly:

1. Configure your scanning device to send TAB after each scanning.
2. In SAP Business One go to Administration > Add-Ons > Produmex Scan > Produmex Scan Settings and on the Produmex Scan Scanning tab set the same prefix and suffix as set on the barcode scanner. In the example '(' is set as the prefix and ')' is set as the suffix.
3. If you are using GS1-128 barcodes, define the following scanning configurations on the Produmex Scan Scanning tab:
 - Add the group separator character for GS1-128 type barcodes in the GS1-128 barcode group separator field. In the example the group separator is set to '\$'. Note:
 - Hidden characters are not supported.
 - NFC1 characters must be replaced with some other printable characters. For more information consult with the official documentation of your scanning device.
 - Define the code ID in the CodeID type field. Note: Currently only 'Symbol' is supported.



Produmex Scan Settings

General SQL Logs Reports Produmex Scan General Produmex Scan Scanning Produmex Scan Picking Produmex Scan Strategies

Item code or item barcode must be scanned for Sales Order ☐

Item code or item barcode must be scanned during Picking ☐

Prefill quantities for Goods Receipt PO None

Prefill quantities for Stock Transfer Request None

Prefill quantities for Picking None

Prefill quantities for Issue for Production None

Prefill quantities for Receipt from Production None

Prefill quantities for Return Components None

Prefill unique batches (outgoing processes) ☐

Prefill unique batches for Stock Counting ☐

Post the corresponding quantity when scanning item barcode in quantity field ☐

Auto book unit when scanning normal item for Stock Counting ☐

Barcode scanner prefix (

Barcode scanner suffix)

GS1-128 barcode group separator \$

Code ID type Symbol

Allow selecting locations from Find Stocks screen (outgoing processes) ☐

Allow selecting batches from Find Stocks screen (outgoing processes) ☐

Optimized mixed serial/bin handling (Goods Receipt PO, Stock Transfer Request) ☐

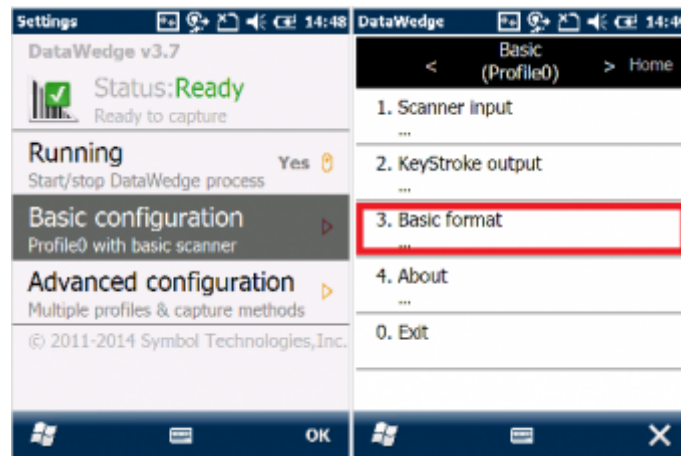
Update Cancel

2.1. Example: Zebra MC67NA

Open DataWedge, for example from Start > Settings > System> DataWedge.



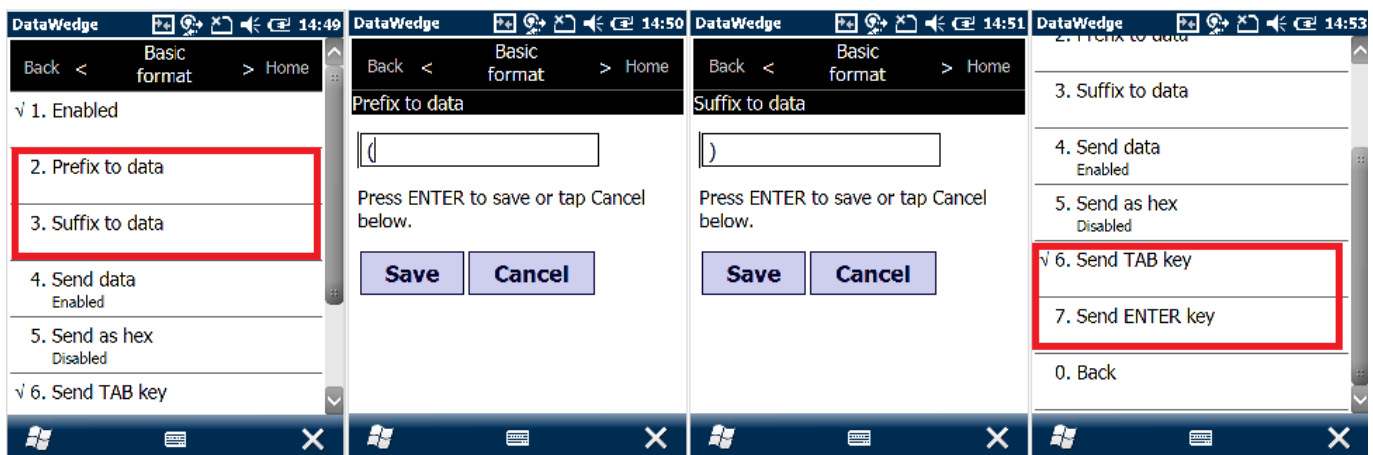
Tap Basic configuration then press Basic Format.



To set the barcode prefix, press 'Prefix to data'. Add the prefix character on the next screen. In the example we set the '(' character as the prefix.

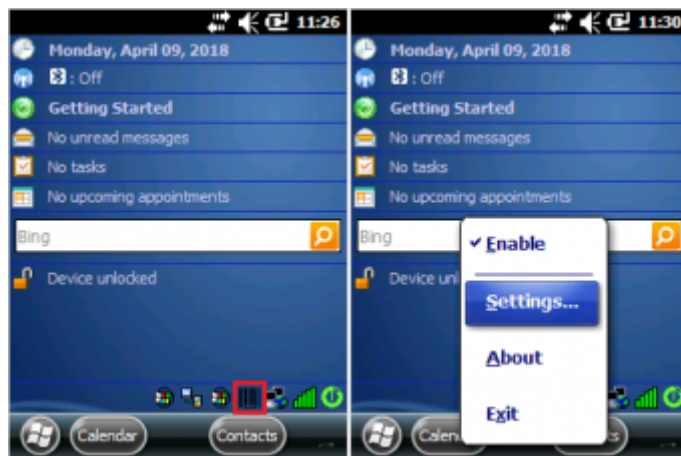
To set the barcode suffix, press 'Suffix to data'. Add the suffix character on the next screen. In the example we set the ')' character as the suffix.

In order to send TAB after each scanning enable the 'Send TAB key' setting. Make sure that the 'Send ENTER key' option is disabled.

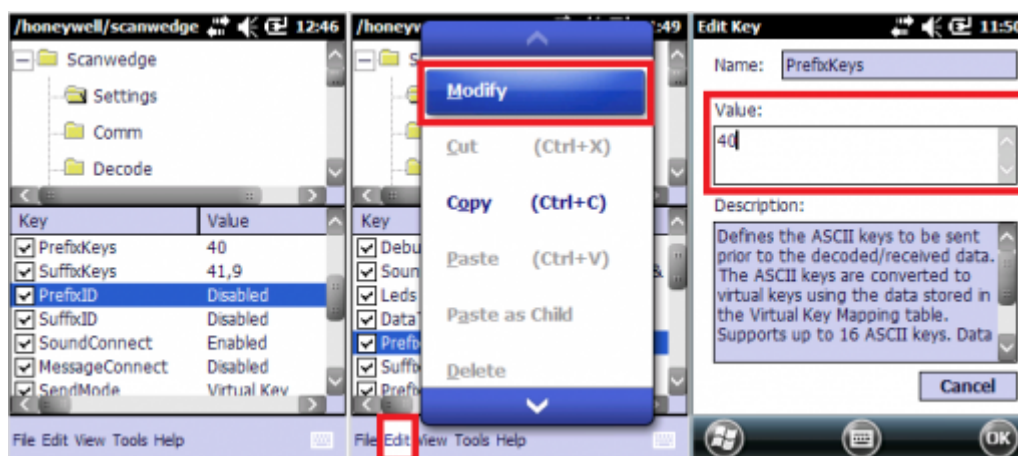


2.2. Example: Honeywell Dolphin 60

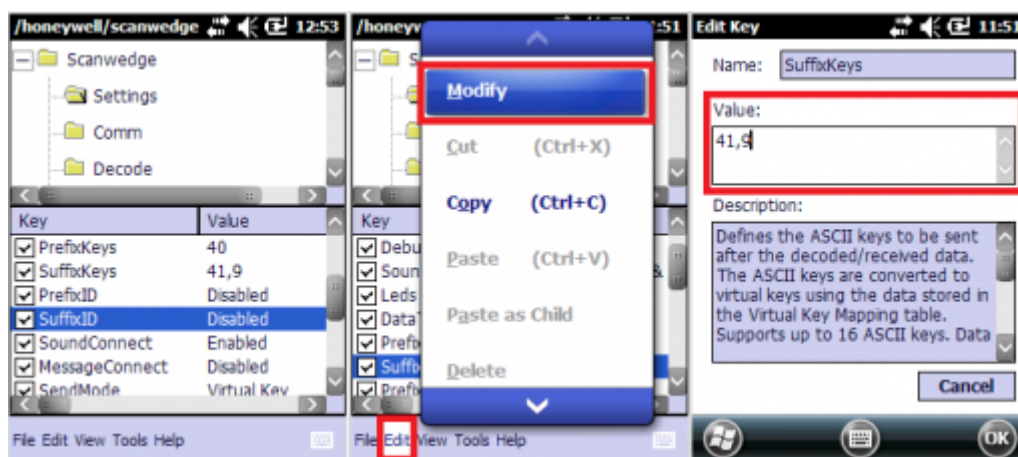
On the main menu screen press the Scanwedge icon  and select 'Settings...'. Go to the Settings folder under Scanwedge.



To set a barcode scanner prefix, select 'PrefixKeys', press 'Edit' then select 'Modify'. On the next window enter the ASCII code of the prefix character. In the example we set the '(' character as the prefix.



To set a barcode scanner suffix, select 'SuffixKeys', press 'Edit' then select 'Modify'. On the next window enter the ASCII key of the suffix character. **Make sure that you add TAB as the suffix after the selected suffix character as well.** Do not add TAB as the Barcode scanner suffix value in Produumex Scan Settings. In the example we set the ')' character as the suffix.



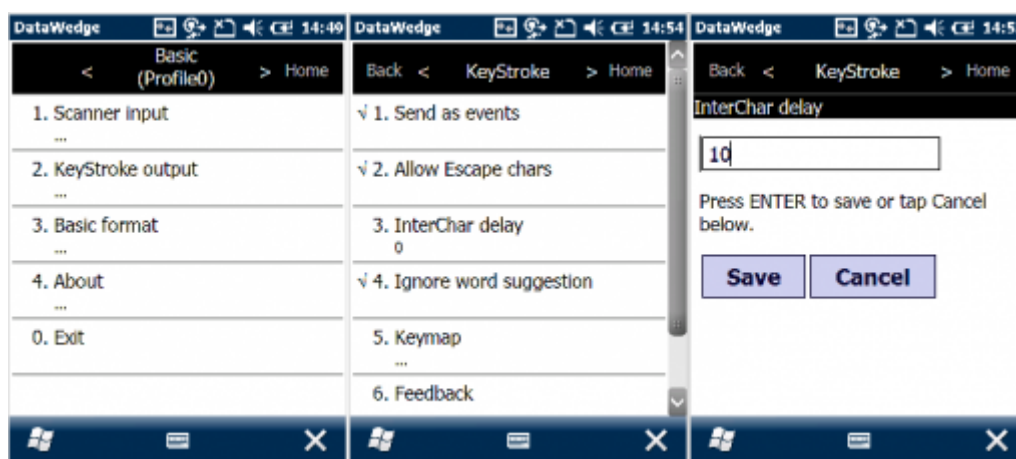
3. Interchar delay

When running Produmex Scan through remote desktop connection, it is possible that the device sends characters so quickly through the remote connection that it causes incorrect character display.

In order to avoid this issue setup Interchar delay.

3.1. Example: Zebra MC67NA

Open DataWedge > Basic configuration > KeyStroke output > InterChar delay and add the value. The value for InterChar delay depends on the network speed and stability. You can find the the correct value by progressively increasing it until the communication is stable.



It is possible to set InterChar delay for a given scanning profile only. Open DataWedge > Advanced configuration > Profiles > Your profile > Output > KeyStroke > InterChar delay where 'Your profile' is the name of the given scanning profile. On the next screen add the value and press Save.

4. Setup for power usage (Recommended)

4.1 Automatic sleep mode

Open Power settings from Start>Settings>System>Power. Go the the Advanced tab. To set an interval, check the checkbox under 'On battery power' and choose an interval from the dropdown list (maximum 5 minutes).

To disable the automatic sleep mode, uncheck the box.

4.1.1. Example: Zebra MC67NA



4.1.2. Example: Honeywell Dolphin 60



4.2. Backlight

It is recommended to set the backlight with a timeout, because this is the main battery consumer.

4.2.1. Example: Zebra MC67NA

Open Backlight settings from Start>Settings>System>Backlight. Go to the *Battery Power* tab.

To set an interval, check the 'Disable backlight if device is not used for' checkbox and choose an interval from the dropdown list.



4.2.2. Example: Honeywell Dolphin 60

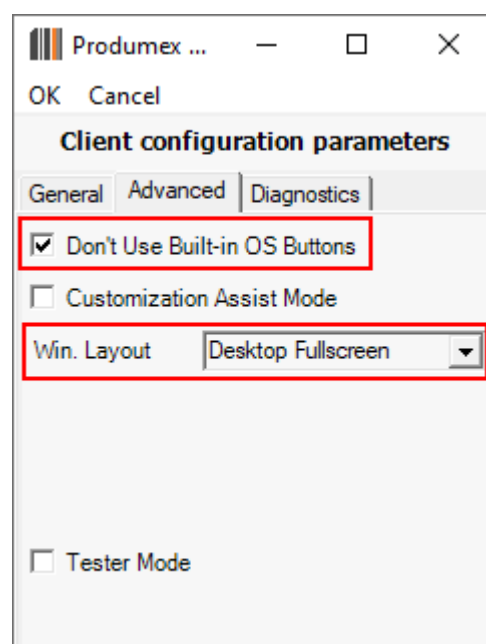
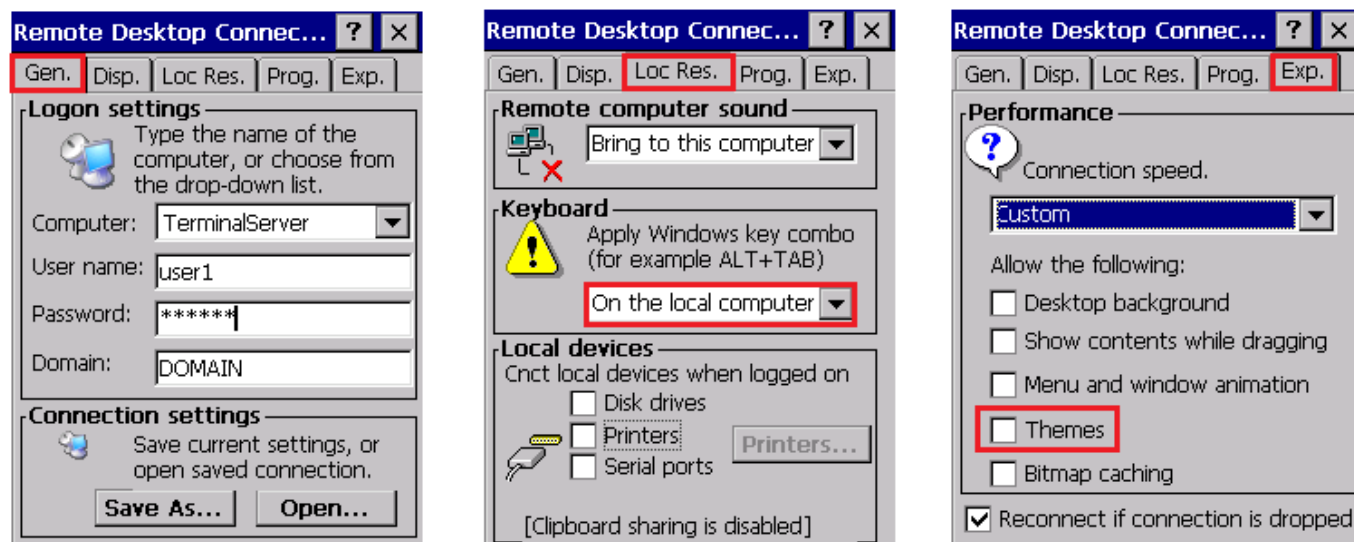
Open Backlight settings from Start>Settings>System>Backlight. Go to the Dim Backlight tab.

To set an interval, check the 'On Battery power, dim backlight if device is not used for' checkbox and choose an interval from the dropdown list.



How to Set Up Remote Desktop Connection for Produmex Scan

1. Open the Remote Desktop Connection.
2. Fill in the User name and Password fields on the General tab.
3. Recommended step: Select *Full screen* and *Fit remote desktop to screen* options on the Display tab.
4. Select the *On the local computer* keyboard setting from the dropdown menu on the Local Resources tab.
5. On the Experience tab disable *Themes*.
6. Go back to the General tab and save the settings to the fixed memory.



Recommended steps:

7. Run the Produmex Scan Client.

8. Enable the *Don't Use Built-in OS Buttons* option and set the Windows layout to *Desktop Fullscreen* on the Advanced tab.

9. Click the OK button on the top of the screen.

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