

Produmex Scan How-to Guides

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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.

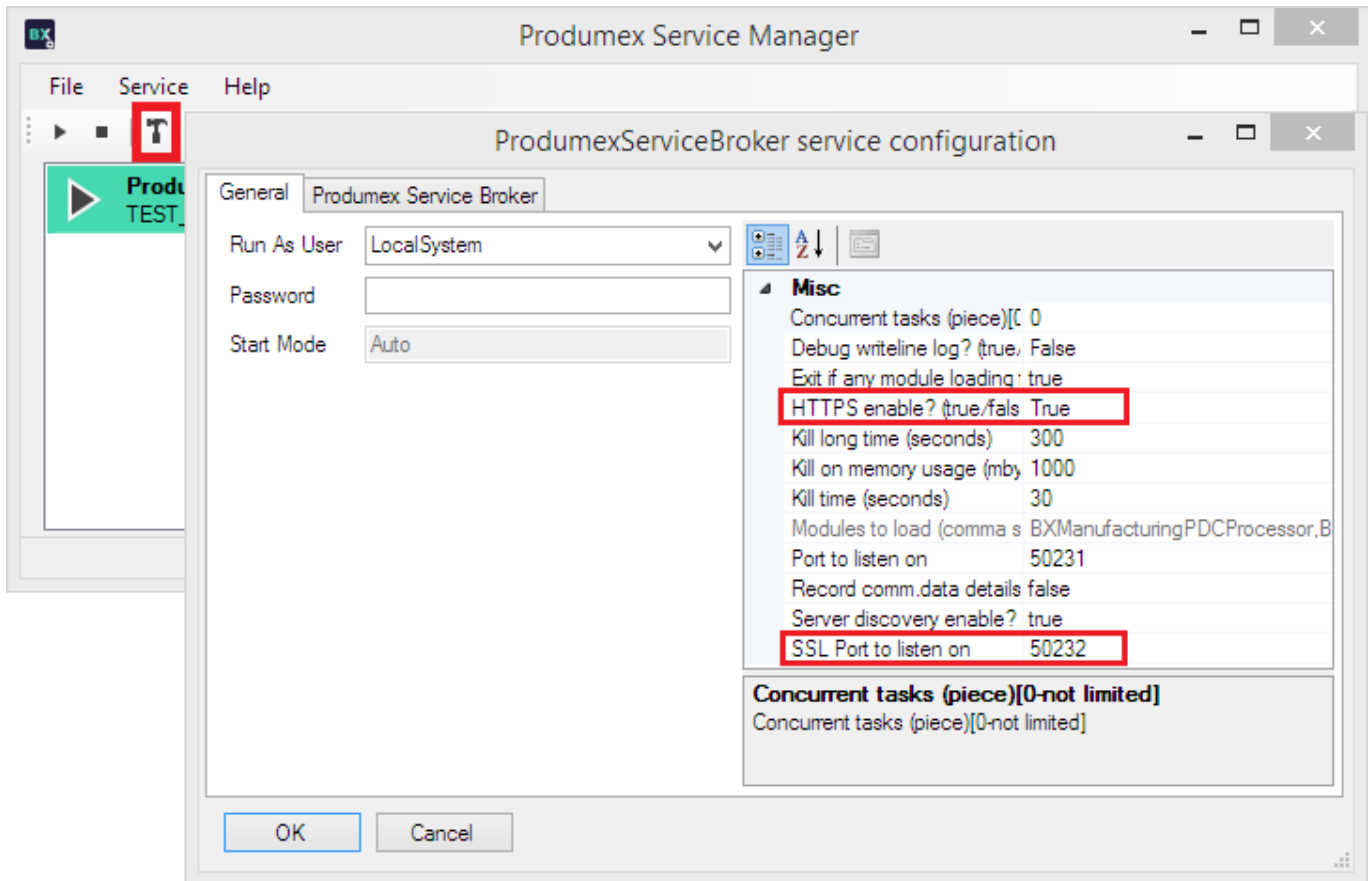
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How to Configure HTTPS for Produmex Service Broker with a self-signed certificate

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:

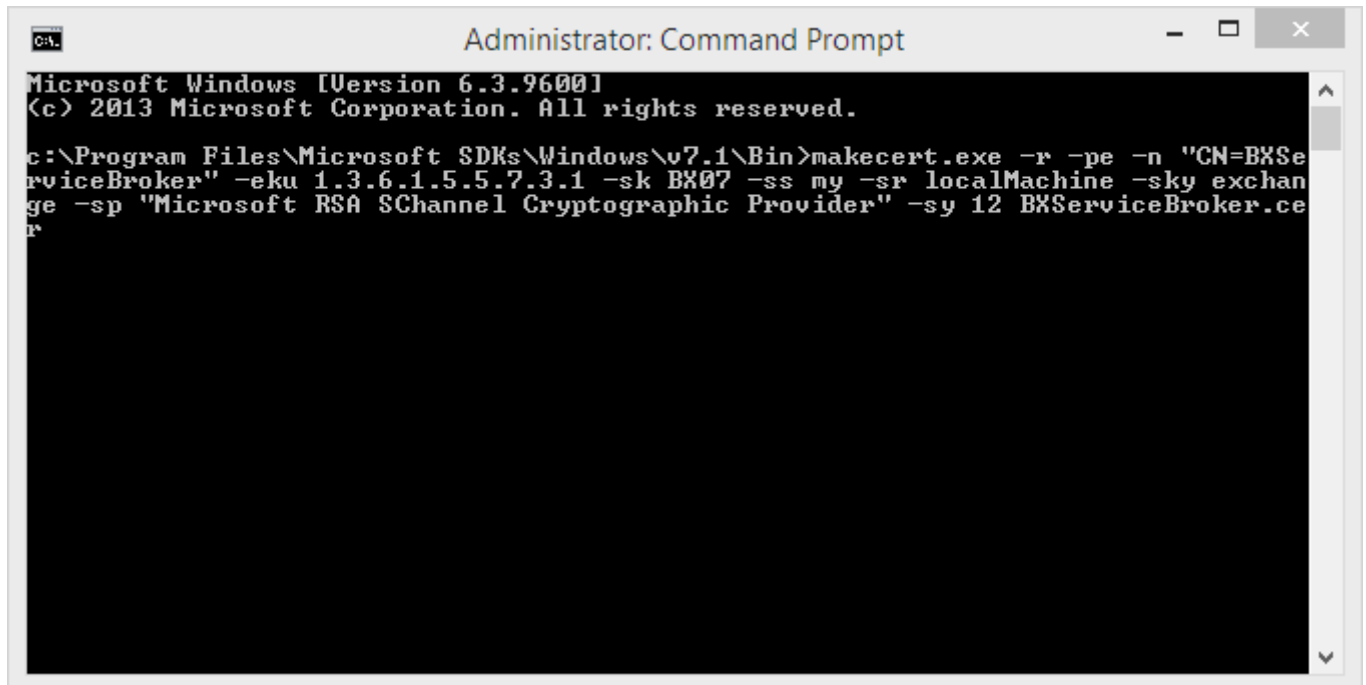
```
<path>makecert.exe -r -pe -n "CN=<name>" -eku 1.3.6.1.5.5.7.3.1 -ss my -sr localMachine -sky exchange -sp "Microsoft RSA SChannel Cryptographic Provider" -sy 12 <filename>.cer
```

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:

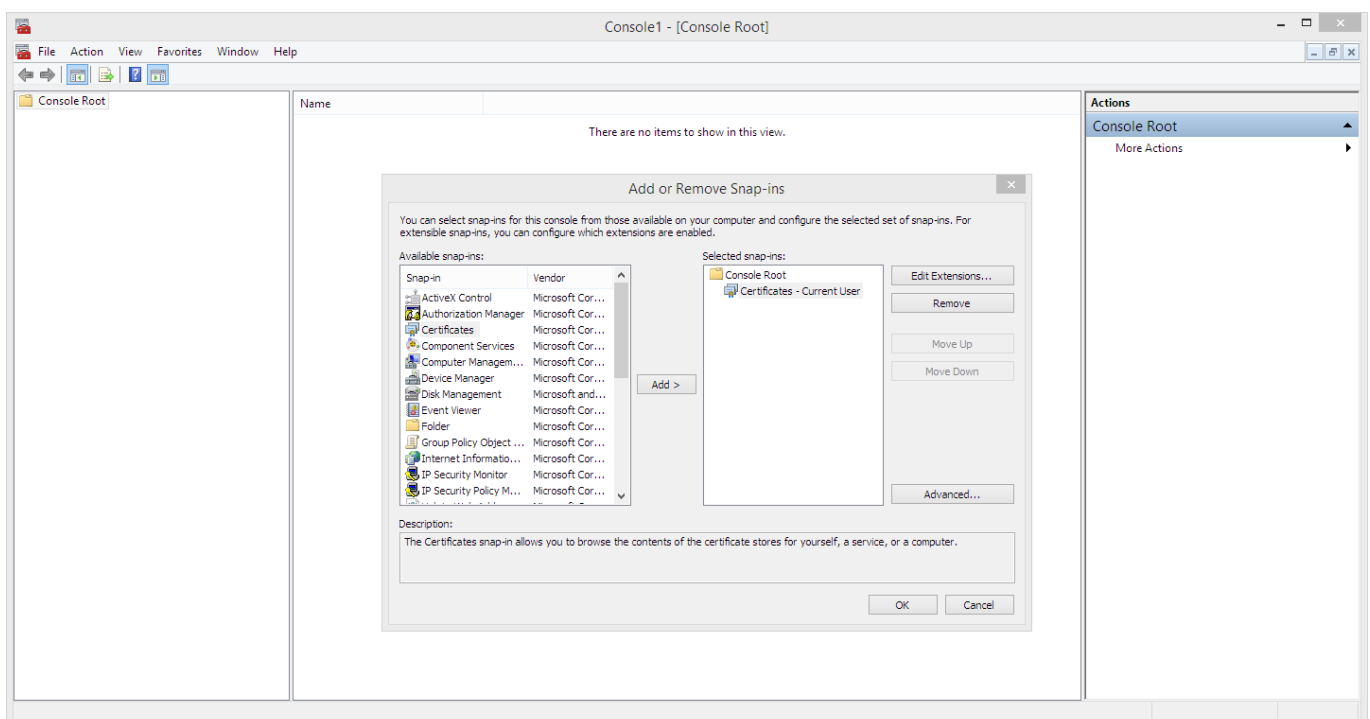
```
C:\Program Files\Microsoft SDKs\Windows\v7.1\Bin\makecert.exe -r -pe -n "CN=ServiceBroker" -eku 1.3.6.1.5.5.7.3.1 -ss my -sr localMachine -sky exchange -sp "Microsoft RSA SChannel Cryptographic Provider" -sy 12 ServiceBroker.cer
```

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.

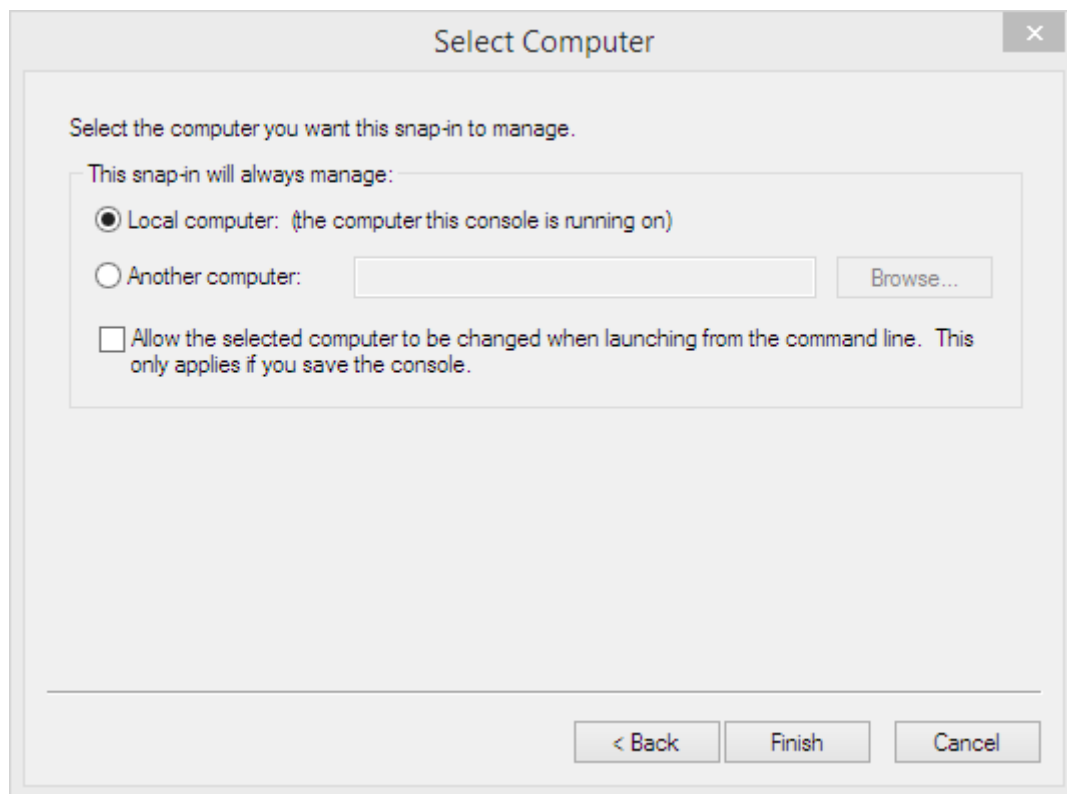


3. Import the certificate on a Windows server

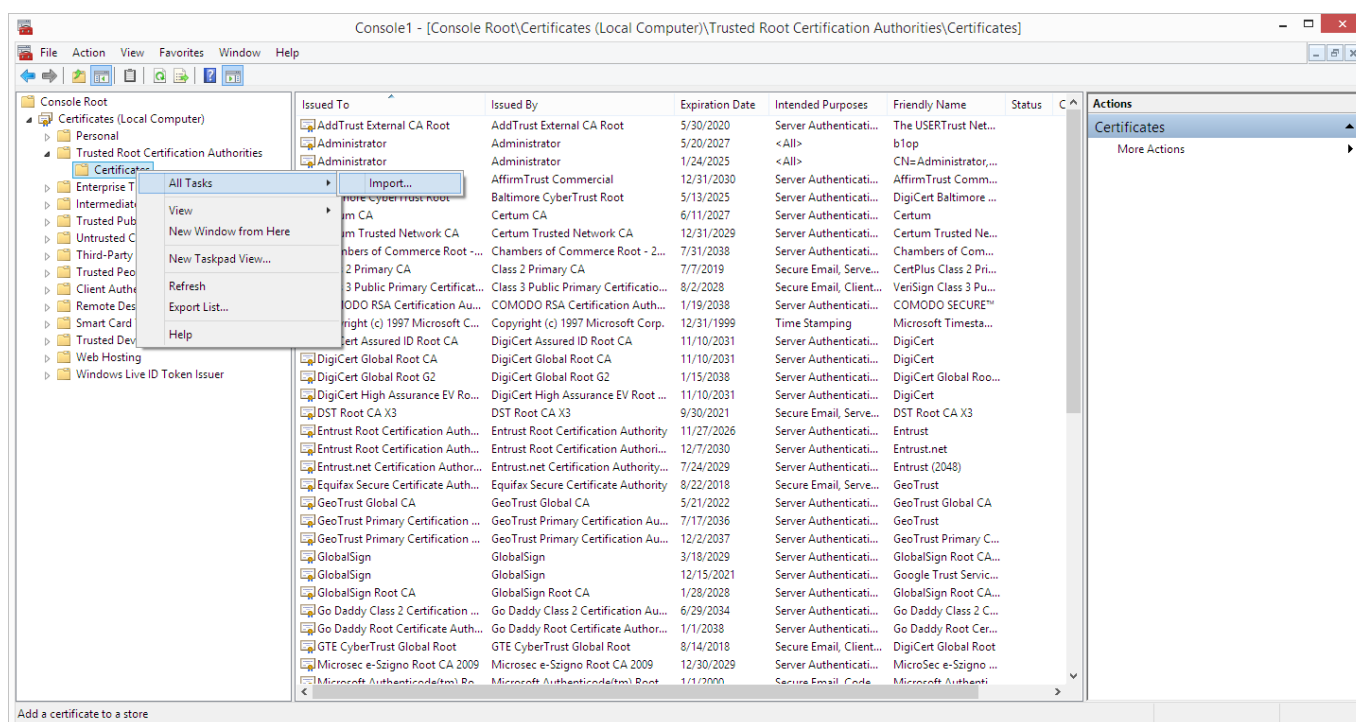
Run the Microsoft Management Console (mmc.exe). From the File menu select Add/Remove Snap-In.



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.

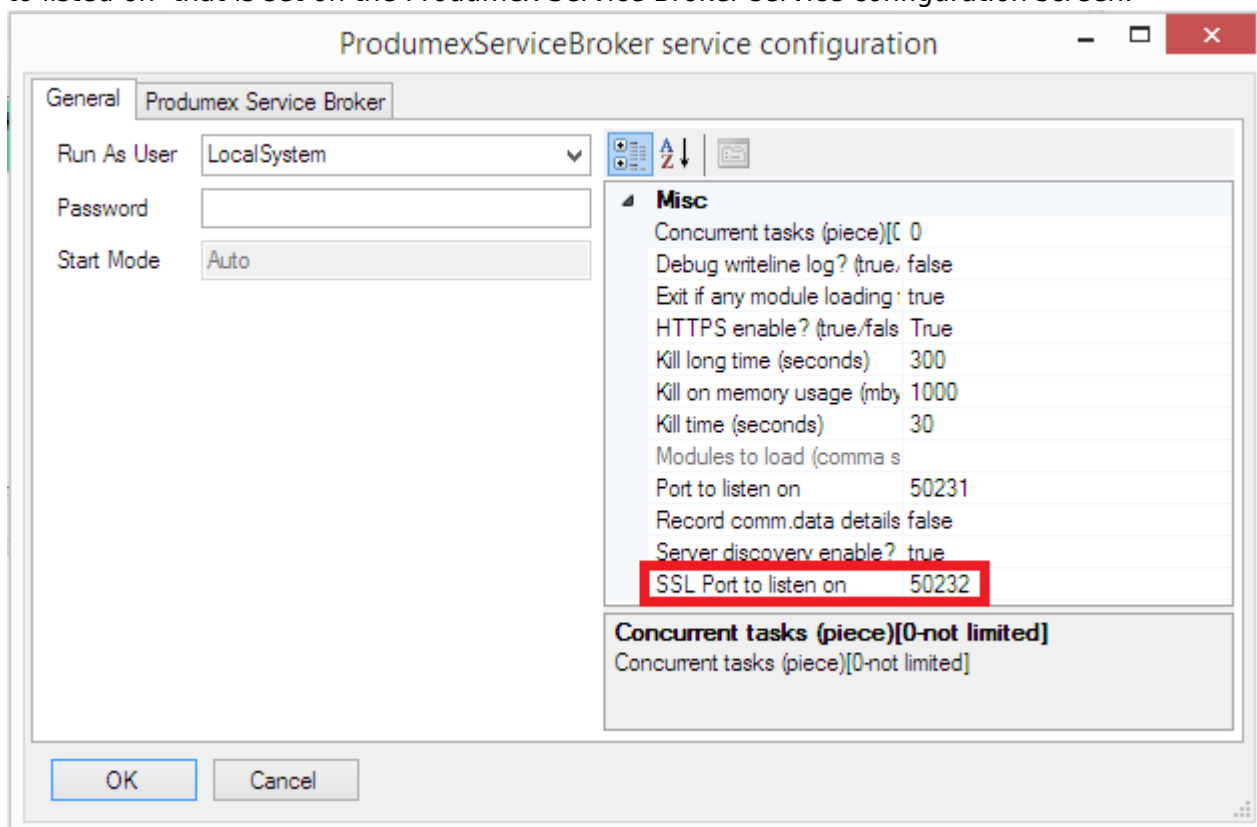
In this example we use the following netsh command in order to configure the certification to the port number.

Run the following command with Command Prompt:

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

Where:

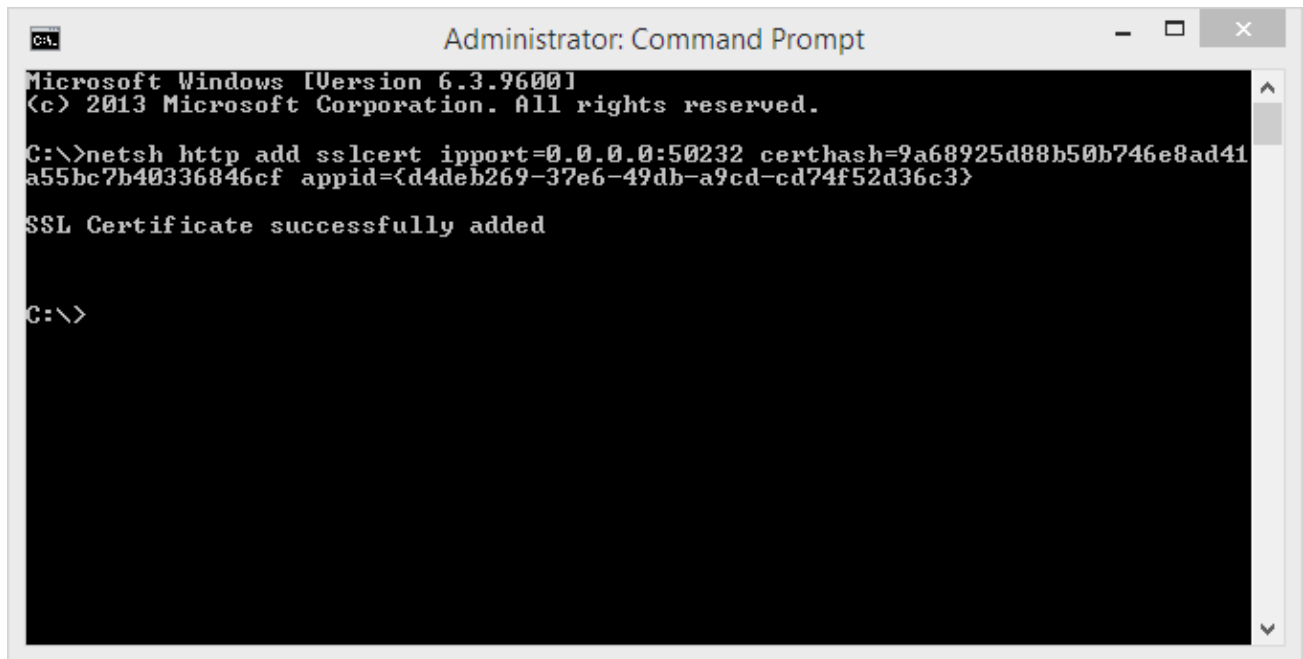
- **ipport**: is the IP address and the listening port. You can use a special IP address 0.0.0.0 that matches any IP address for the local machine. The listening port must be the same as the 'SSL Port to listed on' that is set on the Produmex Service Broker service configuration screen.



- **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.

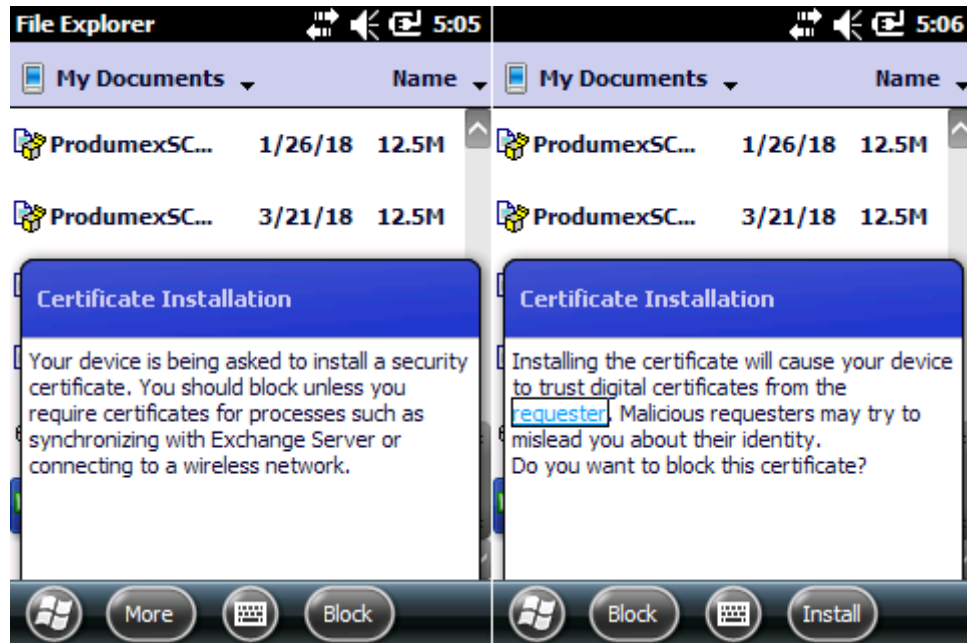
5.1. Import the certificate on a mobile device

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.

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How to Perform a Version Upgrade

Make sure that you check the [release notes](#) of the new product version before starting the upgrade because it might contains important information regarding the upgrade.

1. Produmex Scan Add-on

The steps of a version upgrade for the Produmex Scan add-on are identical to a fresh installation.

If you are upgrading from a version higher than 17.05, it is not required to uninstall the current version before starting the upgrade.

When the add-on is started the first time after the upgrade, the database setup will run.

Please note: In order to run the database setup, a database backup that was created within an hour is required on an MSSQL environment.

2. Produmex Service Broker

If you are upgrading from version 17.09 or higher, it is not required to install a new version of the Service Broker for an upgrade of Produmex PDC/Scan. If you are upgrading from a version previous to

17.09, please take the extra steps described here: [Version 17.09](#). The steps of a version upgrade are identical to a [new installation](#).

If you would like to uninstall the 32-bit DI API when upgrading to the 64-bit Service Broker, it is advised to uninstall both the 32-bit and the 64-bit DI API and then install the 64-bit DI API again because on certain SBO versions the uninstallation of the 32-bit DI API can cause issues for the 64-bit DI API.

Compatibility matrix

		Service Broker Version				
		18.2.	18.1.	17.11.	17.09.	17.05.
Server Module version	18.2.	✓	✓	✓		
	18.1.		✓	✓		
	17.11.			✓		
	17.09.				✓	
	17.05.					✓

3. Server Module

The steps of the version upgrade for the server module are identical to a [new installation](#).

4. Produmex Scan client

The steps of the version upgrade for the Scan Client are identical to a new installation. If you are upgrading from a version higher than 17.05, only uninstall the current Produmex Scan version if based on the settings of the operating system, the installation process requires it.

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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

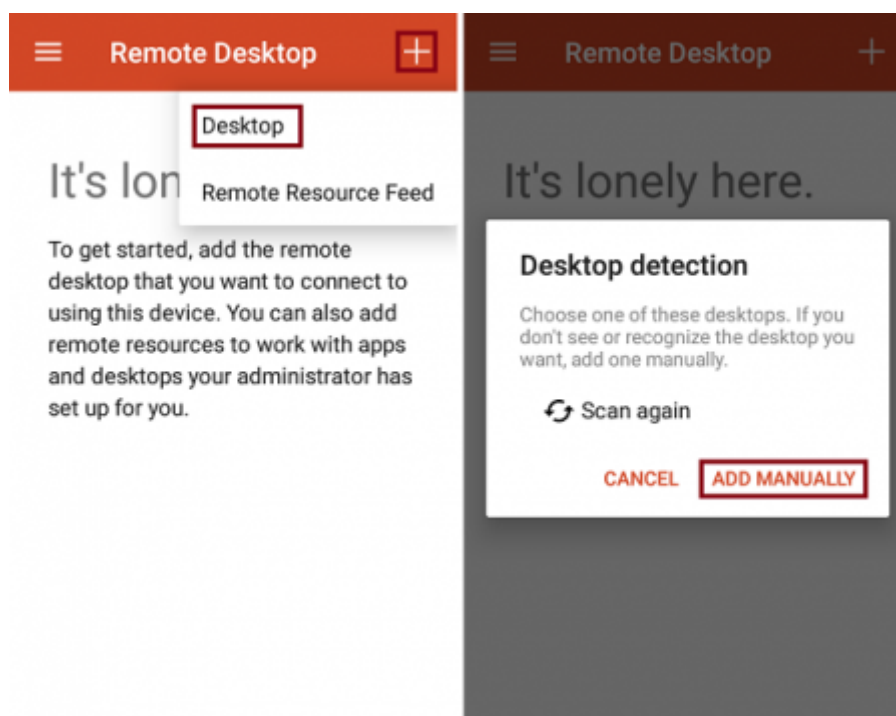
1. Install Remote Desktop on your device. If the device has access to Google Play, install the Microsoft Remote Desktop app from Google Play, otherwise download the Microsoft Remote Desktop .apk file

and install it manually on the device.

2. Open the Remote Desktop app.

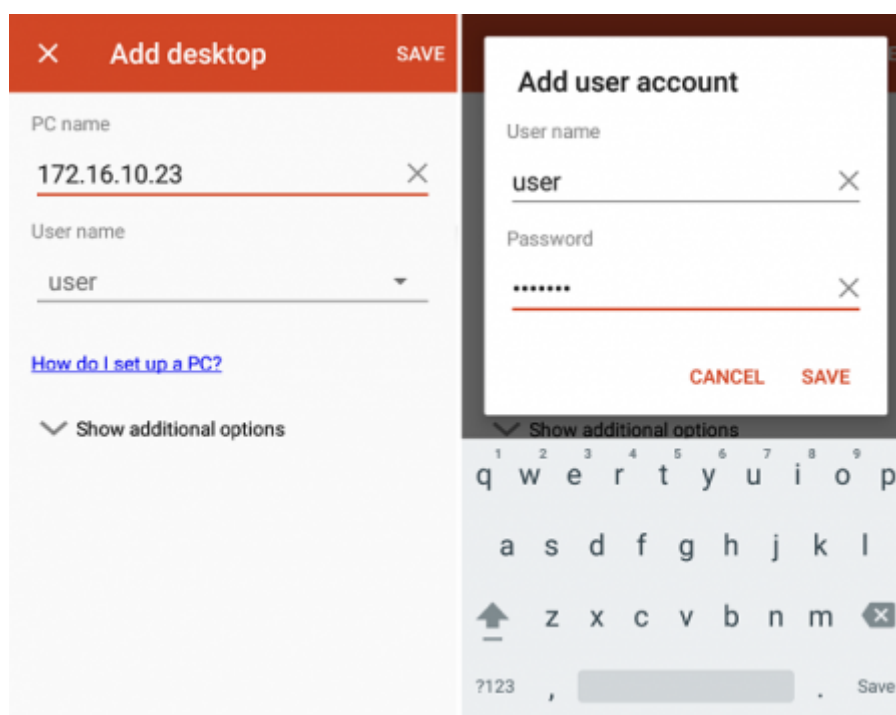
3. Tap the + icon and select *Desktop* to add a new connection.

4. Tap Add Manually.



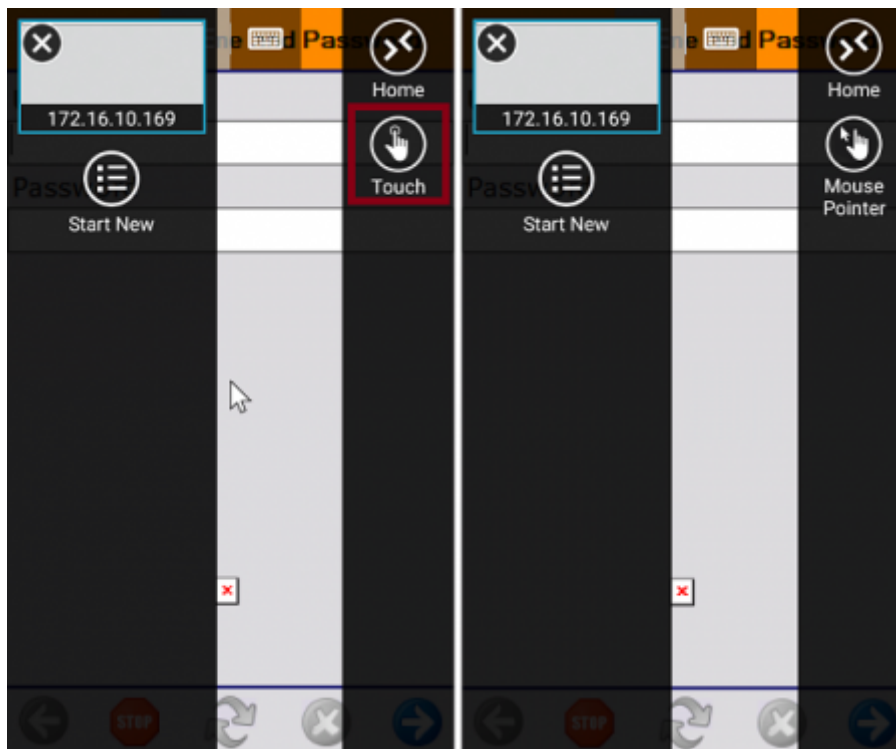
5. Enter the IP address or the host name as the *PC name*.

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.

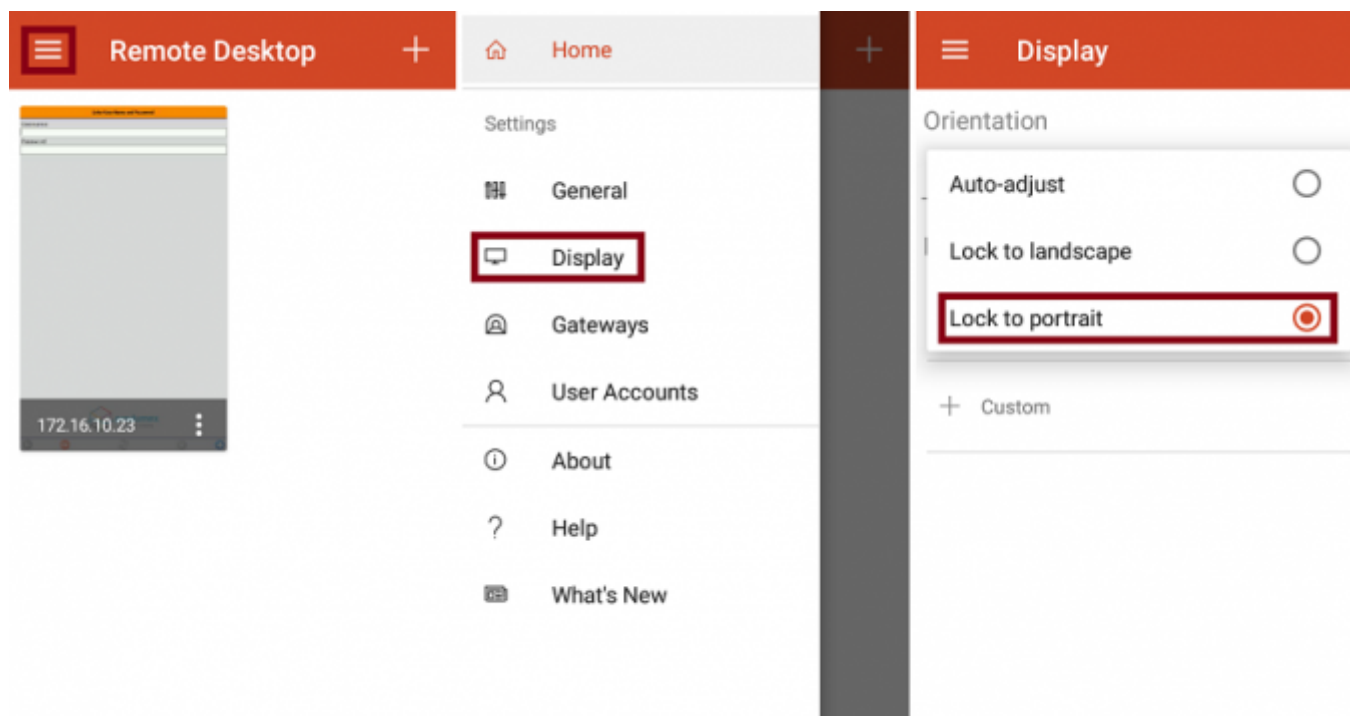


3. Display Settings

3.1. Remote desktop

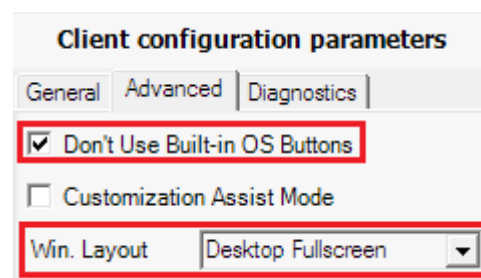
We recommend setting the orientation as *Portrait*. This can be done in the following way:

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.



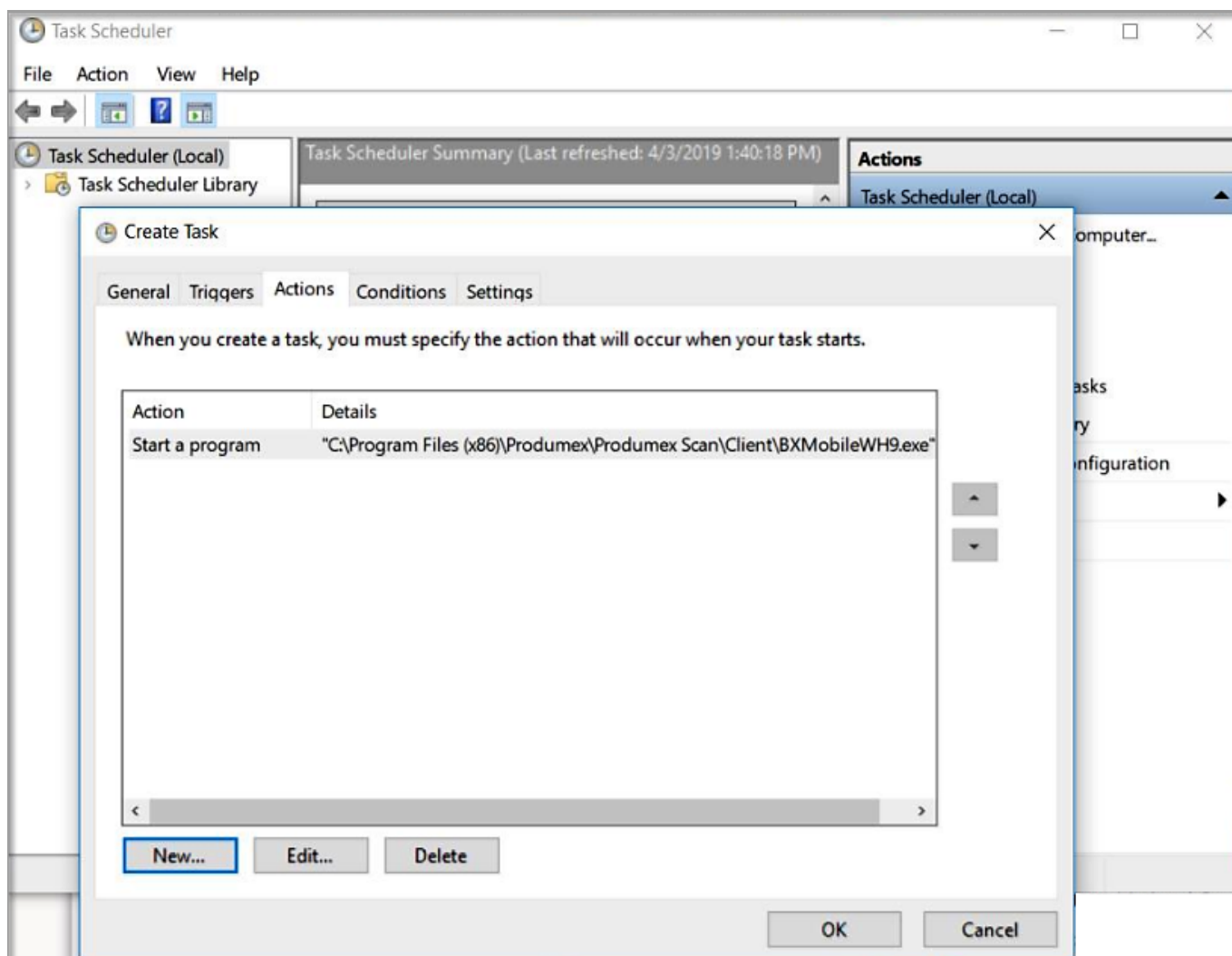
1. Open the Configure Produmex Scan application.
2. Tick the **Do not use built-in OS buttons** option to disable the built-in OS buttons.
3. Set the Windows layout to **Desktop fullscreen**.

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:

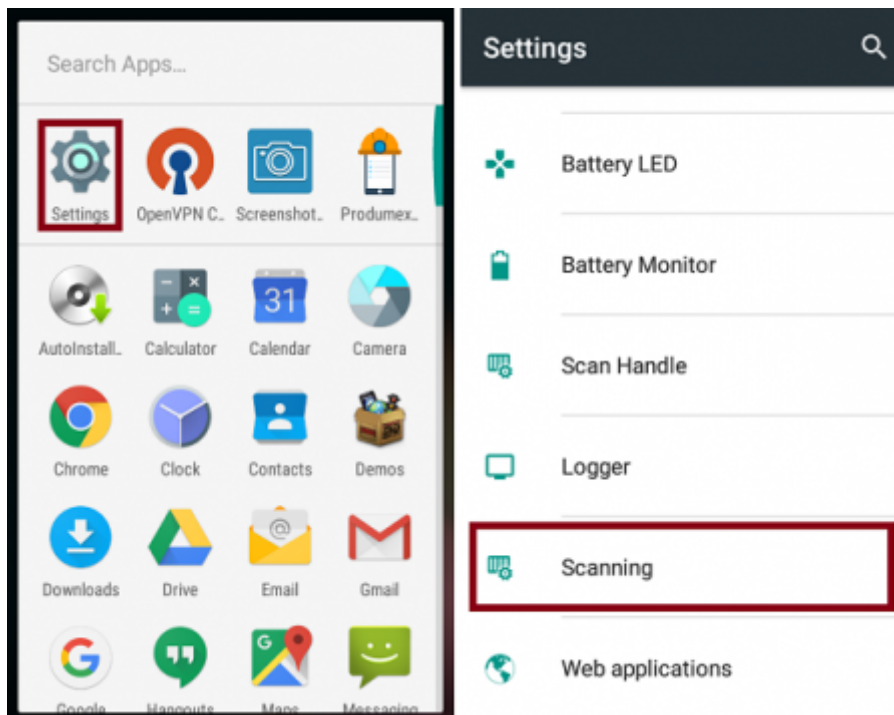
1. Set the code type to **NONE**.
2. Set to **send TAB** after the barcode data.

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

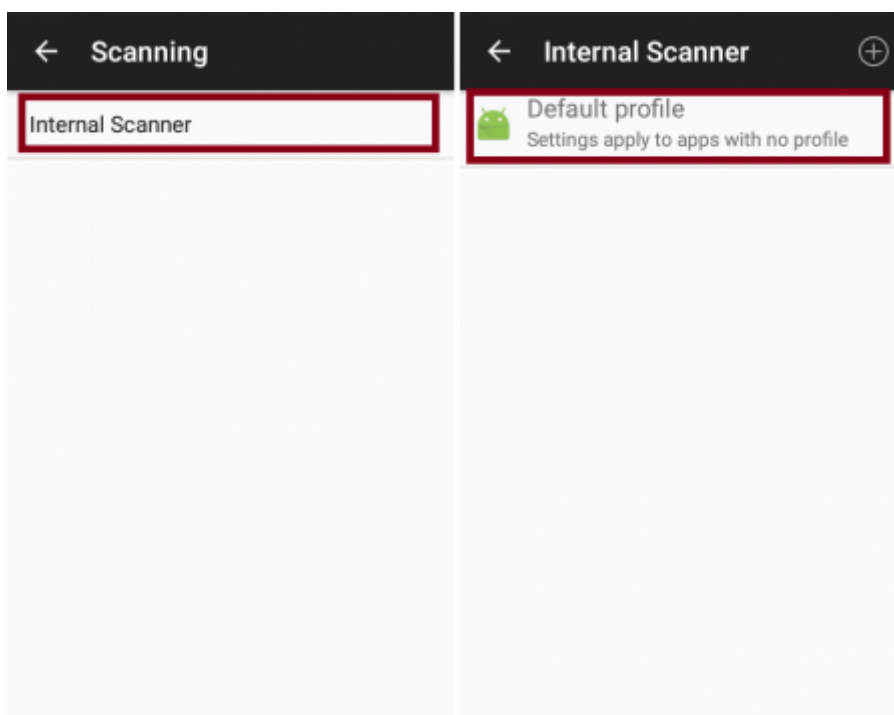
- Honeywell Dolphin 75e - Android 6.0.1.
- Zebra MC9200 - Android 4.4.4.

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

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



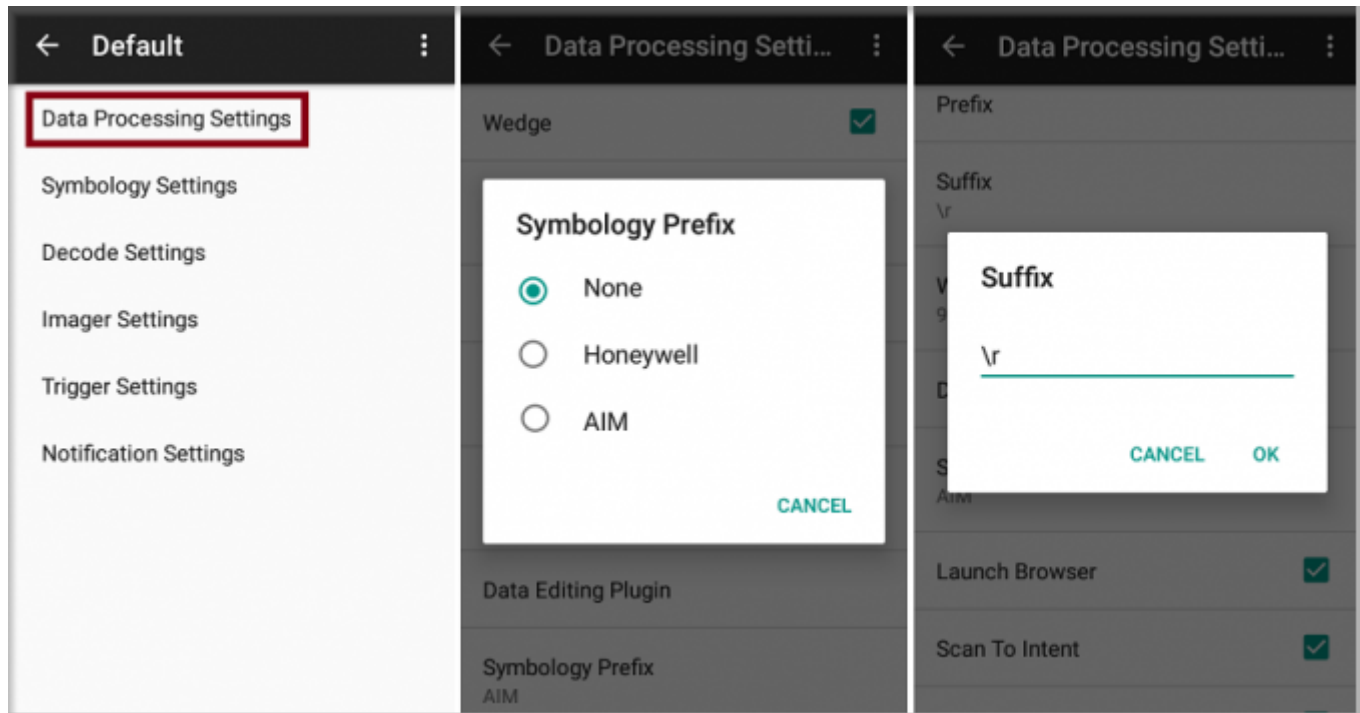
3. Select *Internal Scanner* and select the profile you would like to use from the list of profiles.



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*.

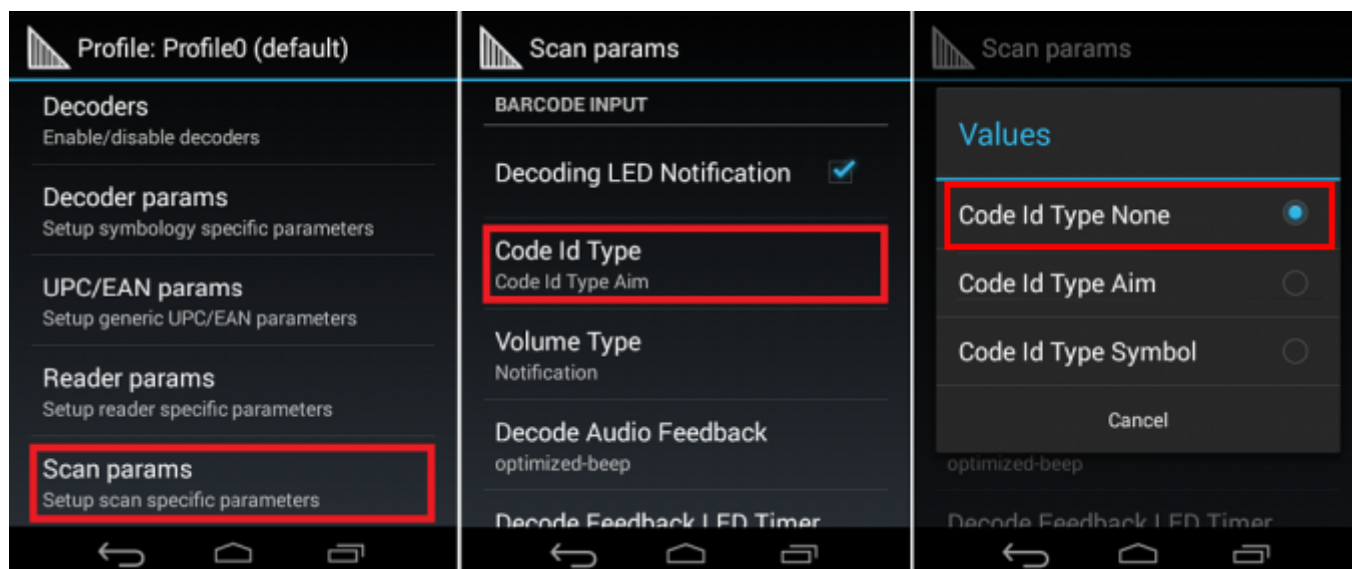


5.2. Example 2: Zebra MC9200 - Android 4.4.4

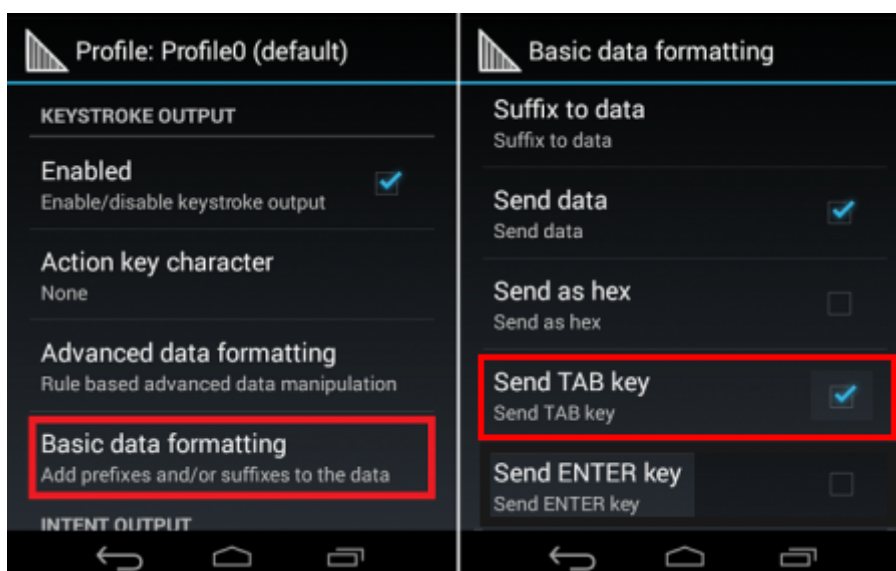
1. Open the DataWedge app.
2. Select the profile you would like to use from the list of profiles.



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.

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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.

The screenshots show the following steps in the 'Wireless LAN Profile Entry' wizard:

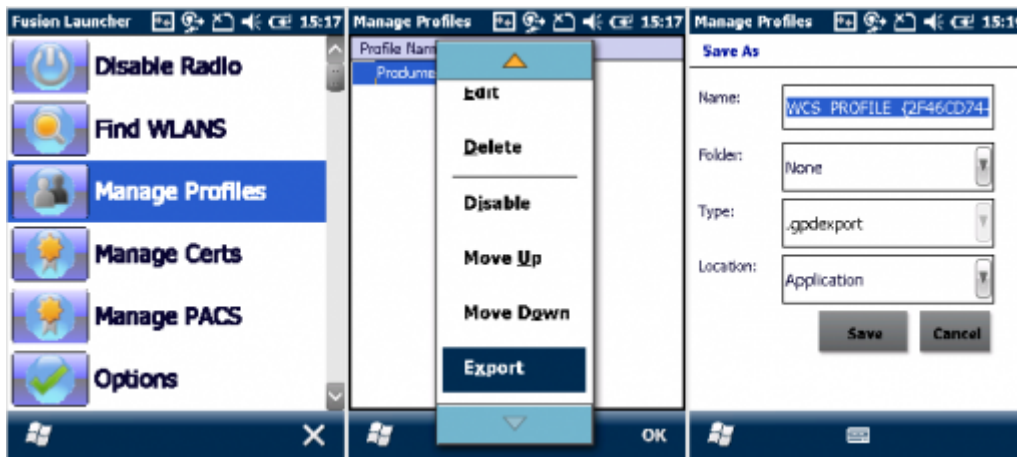
- Step 1:** Profile Name: Produmex, ESSID: Produmex. (1 of 9)
- Step 2:** Operating Mode: Infrastructure. (2 of 9)
- Step 3:** Security Mode: WPA2 - Personal, Authentication Type: None. (3 of 9)
- Step 4:** Fast Roaming Options: Allow Cisco CCKM (unchecked), Allow Symbol HFSR (checked). (4 of 9)
- Step 5:** Encryption Type: AES, Allow Mixed Mode (checked), Enter Preshared Key (PSK) using: Pass-phrase (selected), Hexadecimal Keys (unselected), For added security - Mask characters entered (checked). (5 of 9)
- Step 6:** AES PSK: Enter 8-63 characters. Key: [masked], Confirm: [masked]. Status: Key & Confirm Key Fields Match! (6 of 9)
- Step 7:** IPv4 Address Type: Obtain Device IP Address Automatically (checked), Obtain DNS Address Automatically (checked), Obtain WINS Address Automatically (checked). (7 of 9)
- Step 8:** Battery Usage Mode: CAM (selected), Fast Power Save (selected), MAX Power Save (unselected). (8 of 9)

Step 9: Performance Settings

Optimize for Data (selected) / Optimize for Voice (unselected)

(9 of 9) [Cancel] [Back] [Save]

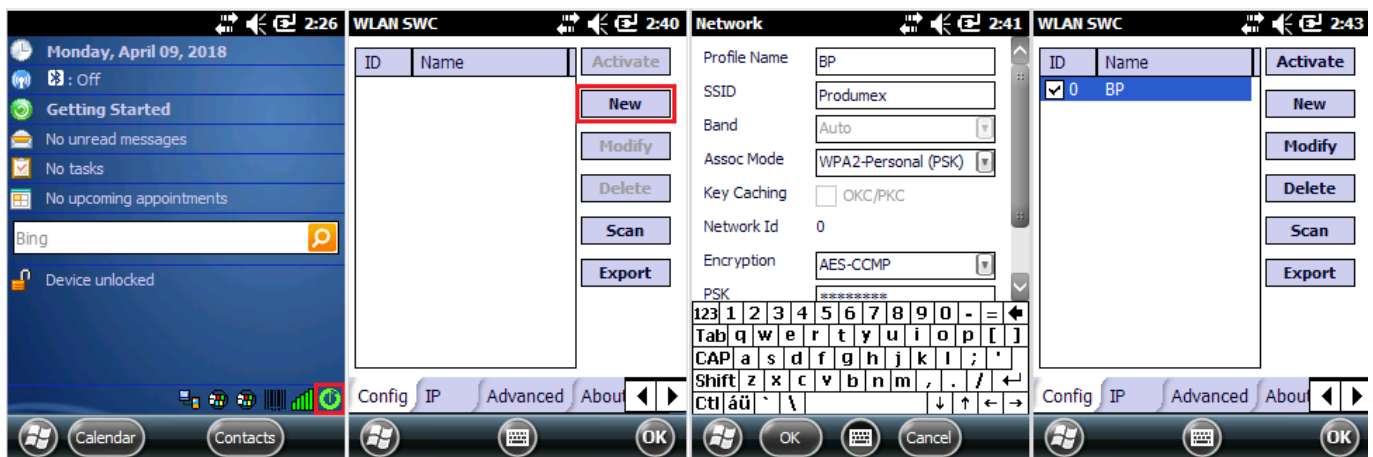
To save the profile to the fixed menu of the device, press Manage Profiles on the Fusion Launcher screen. Tap on the profile and select the 'Export' option. Select the destination folder and press Save.



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

The following scanning configurations are necessary in order to use Produmex Scan properly:

- Configure to send TAB after each scanning.
- Set the used barcode prefix and suffix on the device and in Produmex Scan Scanning tab of Produmex Scan Settings in SAP Business One. In the example we set '(' as the prefix and ')' as the suffix.
- If you are using GS1-128 barcodes, define further scanning configurations on Produmex Scan Settings in SAP Business One. On the Produmex Scan Scanning tab set the following:
- Add the group separator character for GS1-128 type barcodes as the 'GS1-128 barcode group separator'. In the example we set '\$' as the group separator. Please note: Hidden characters are not supported.
- Define the 'CodeID' type. Please note: Currently only 'Symbol' is supported.

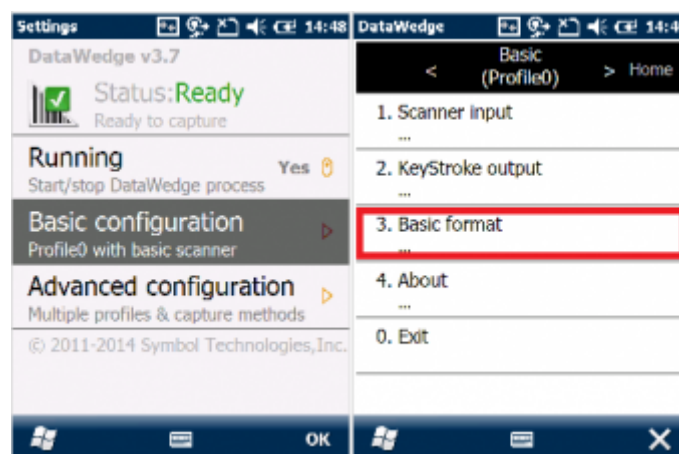
General	SQL	Logs	Reports	Produmex Scan General	Produmex Scan Scanning	Produmex Scan Picking	Produmex Scan Strategies
Item code or item barcode must be scanned for Sales Order ☐ Item code or item barcode must be scanned during Picking ☐ Prefill quantities for Goods Receipt PO: None Prefill quantities 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: ☐ Barcode scanner prefix: (Barcode scanner suffix:) GS1-128 barcode group separator: \$ Code ID type: None Allow selecting batches from Find Stocks screen (outgoing processes): ☒ Optimized mixed serial/bin handling (Goods Receipt PO, Stock Transfer Request): ☐							

2.1. Example: Zebra MC67NA

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



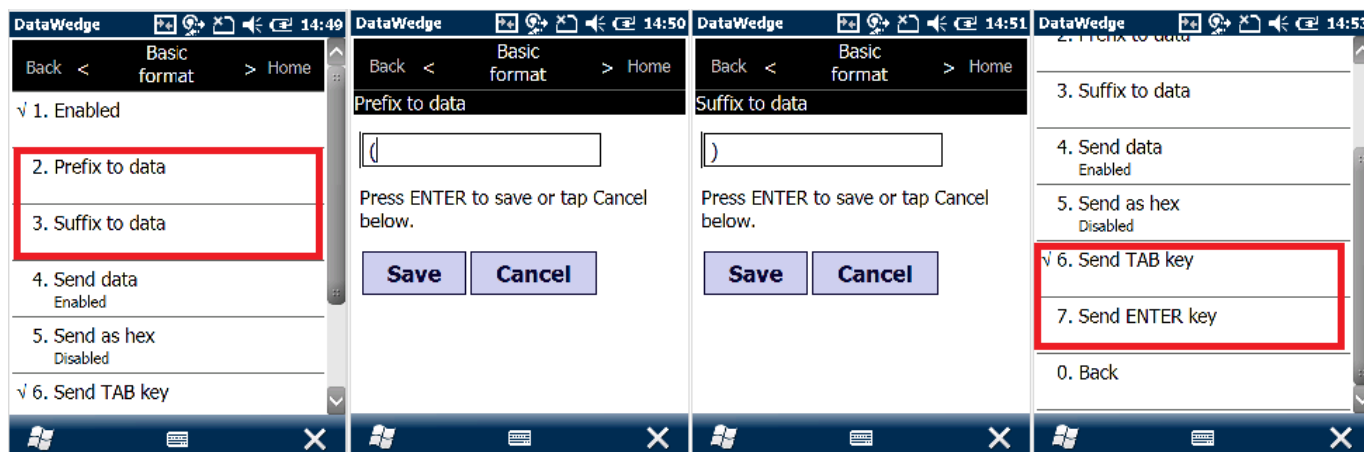
Tap Basic configuration then press Basic Format.



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.

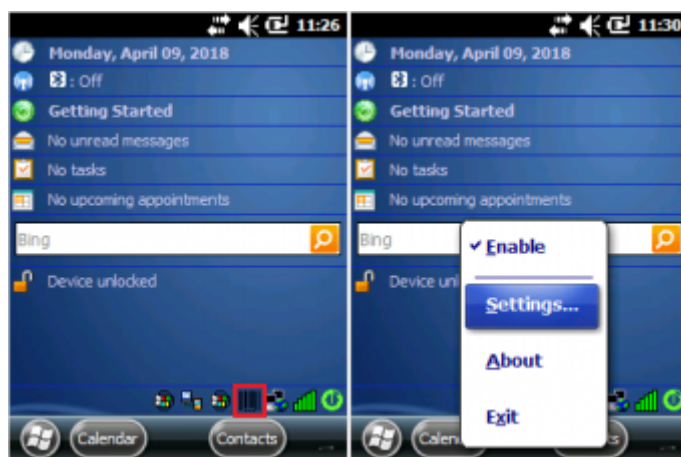
To set the barcode suffix, press 'Suffix to data'. Add the suffix character on the next screen. In the example we set the ')' character as the suffix.

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

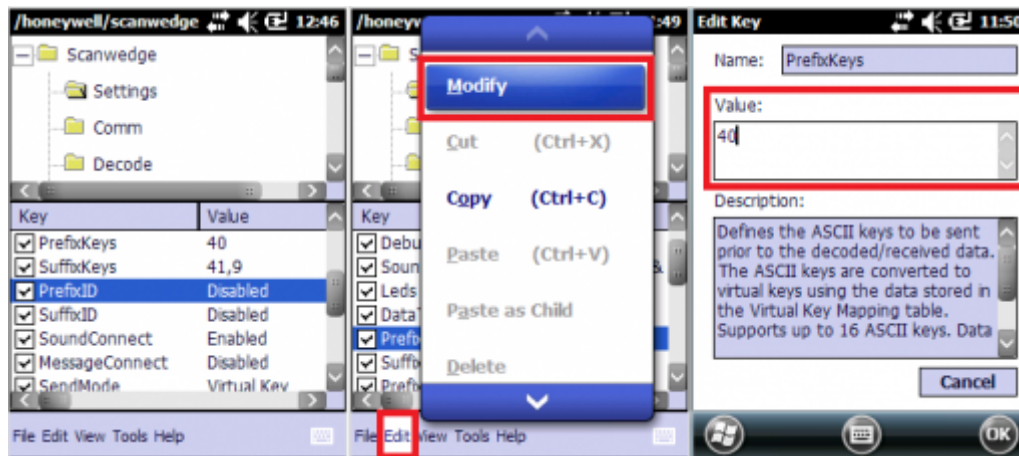


2.2. Example: Honeywell Dolphin 60

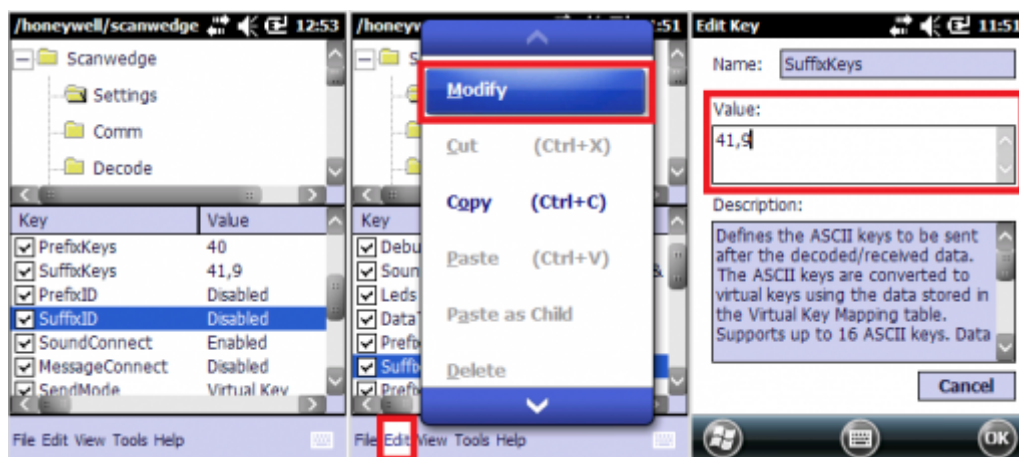
On the main menu screen press the Scanwedge icon  and select 'Settings...'. Go to the Settings folder under Scanwedge.



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 Produmex Scan Settings. In the example we set the ')' character as the suffix.



2.3. Example: Zebra MC32N0



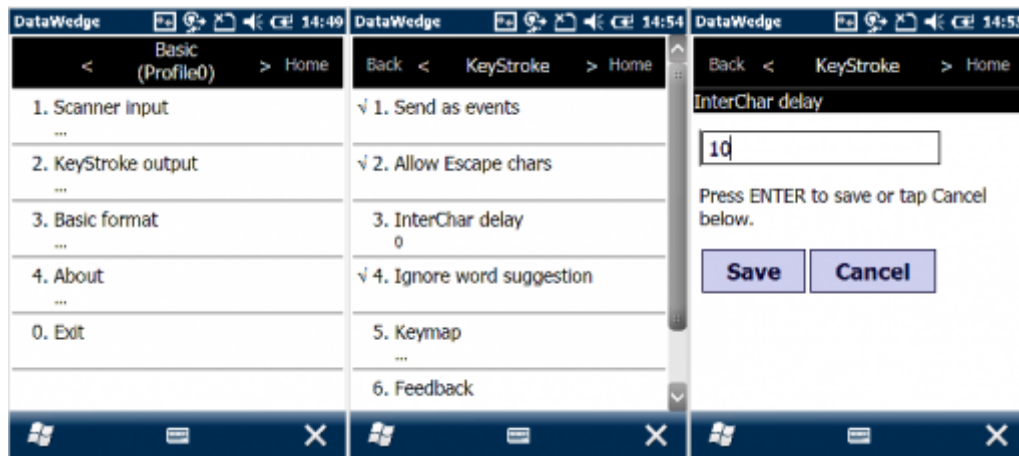
3. Interchar delay

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.

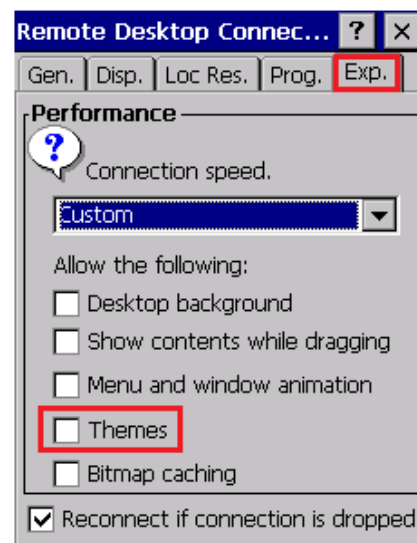
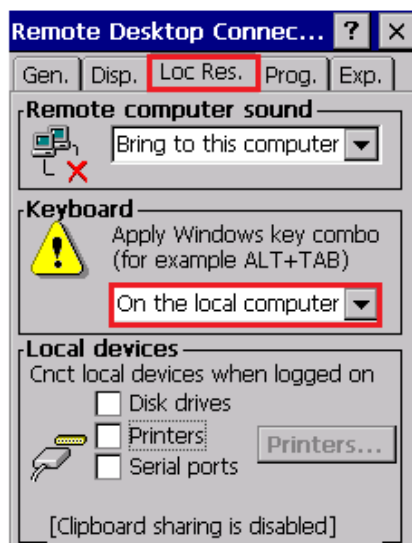
To set an interval, check the 'On Battery power, dim backlight if device is not used for' checkbox and choose an interval from the dropdown list.

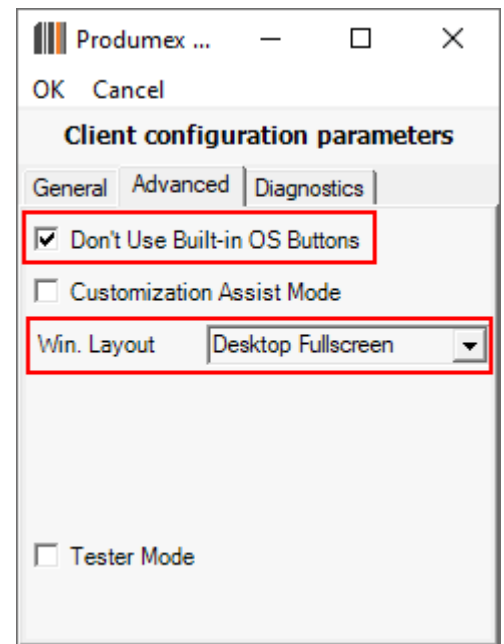


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How to Set Up Remote Desktop Connection for Produmex Scan

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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