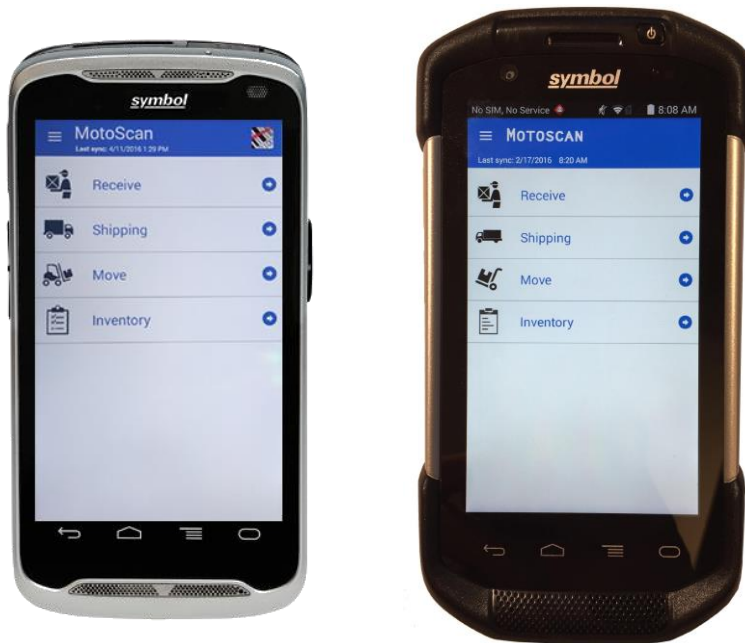


Administrator's Guide



MotoScan Android

for Android mobile devices



This guide will explain how to stage your devices and how to customize your setups.

Please also visit the web site www.moto-scan.com if you have a question, you may find the answer in the FAQ online.



We recommend using Zebra (Symbol) Android devices with built-in barcode scanners. The app will work on many consumer devices with Android OS, such as mobile phones, but using the built-in camera as barcode scanner is not efficient in the same way as professional devices - hand held terminals - that have real built-in barcode scanners.

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Getting the app installed on your Android device

Manual installation using a browser on the device

1. Download the APK file from the MotoScan website using the browser on your device.
2. Accept the download. The notification bar will display the download
3. Accept warnings about installation of unverified installations files (you can change this back later)
4. Run it on the device by selecting it from the notification bar.
5. Press Install, and it will install automatically

Manual installation using an USB connection from a PC

1. Download the APK file and place it in the downloads folder on the device (using the File Explorer)
2. On the device, open the File Manager and double click on the APK file to install
3. Accept warnings about installation of unverified installations files (you can change this back later)
4. Press Install, and it will install automatically

When installed on the device

1. Please pair your device with you profile in this configurator tool
2. In My Account, please create / write down the PIN code
3. On the device, type in your account login (example: your-email@gmail.com) and enter your PIN code
4. The device will now pair with your account.

On the configurator tool

1. Go to My Devices. Here you will see your paired devices
2. Go to Configurations: A default config is already made ready for you, if you are happy with that, you do not need to change anything - or you can: Add new configuration (Android icon), Build up the configuration with your needed functions, Choose the connection type, Build the menus and workflow, Save the configuration
3. Go to My Devices: The device has selected the default configuration. Change it if needed
4. Start using the scanner to capture data

Enterprise Home Screen (App Lock)

For Zebra/Symbol/Motorola devices: If you need to lock the device and prevent the user to exit the app and access the Android operating system, you can install the Zebra Enterprise Home Screen and configure it so only the MotoScan app is available. Please refer to Zebra's installation guide for this.

<https://www.zebra.com/us/en/products/software/mobile-computers/mobile-app-utilities/enterprise-home-screen.html>

Configurator tool - setting up an account

Once the app has been installed on your device, you will need to connect it to an account on the configurator tool. The app will only work in demo-mode (no data transfer) when not connected to an account.

There are 3 modes for the app:

- Demo mode: no connection to the configurator tool - and no connection to any data output destination drive. Only for demonstration purposes on the device.
- Trial mode: Once you have connected your device to your account, and if you have not purchased any licences yet, then your device will enroll as a trial mode device. This has a working period of 60 days, where you can modify and play with a trial-configuration on the configurator tool - you can also synchronize 1 record to your destination folder.
- Licenced mode: Once you have purchased licenses on your account, your devices will be fully licenced and you are able to deploy a full scenario on your devices, and there are no longer any limitations in data records.

Go to the web site: www.moto-scan.com

Log in using your credentials - or create a Trial Account (Try now) or purchase a license (Buy now)

Once you are logged in, you will get an overview of your account and your licenses

My Account

MotoScan - smart app for handheld terminals

Home Product Details System requirements FAQ Downloads Try now Buy now **My Account** Log out

My Account My Devices Configurations Databases

Welcome, jacobnorris08@gmail.com
Get started with MotoScan, Please follow these few steps: [Get Started](#)

Your information

Name: Jacob
Company: Norris Print-Tech
Address : Sofiendalsvej 81
Zip/City : 9200 Aalborg SV
Country : Denmark

Your Status

Win CE/Mobile devices: 4
Android devices: 0
License pool: 11

Moto-Scan licenses

4 Used

Get more licenses
To acquire more licenses, please click below or contact your distributor

[Purchase licenses](#)

Change Pincode

Change the pincode, used to log in on your Android devices

Current Pincode: 000000

New Pincode:

Confirm Pincode:

[Change Pincode](#)

Change Password

Change the password for logging in to the website.

Current Password:

New Password:

Confirm New Password:

[Change Password](#)

License history

License date	Amount	Trial
2013-07-11	10	
2016-10-04	1	

1-2 of 2

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MotoScan is a product of Norris Print-Tech A/S | Sofiendalsvej 81 | DK-9200 Aalborg SV | Tel. +45 70 25 17 77 | moto-scan@npt.dk

Your information

You can change your customer information and password for the website. Click on the pen-icon to edit.

On the graph you can see how many licenses you have in your pool and how many of these has been assigned. In the licenses history pane, you can see your purchase history.

Pincode for pairing with devices can be set and changed in here. Default PIN code is 000000.

Remember, when you change your PIN code, all devices already connected to your account will be disconnected. The PIN code is a challenge code that needs to be entered on the Android device together with your email-address (login name). In this way we pair your devices with your account without compromising your password to the website configuration tool.

My Devices

This menu displays all you registered devices.
It is divided into Windows and Android devices.

Win CE/Mobile overview is displayed as default.
Click on the Android TAB to change the view to Android Devices.

The screenshot shows the 'My Devices' menu with tabs for 'My Account', 'My Devices' (selected), 'Configurations', and 'Databases'. Below the tabs, there are two sub-tabs: 'Win CE/Mobile Devices' and 'Android Devices' (selected). A message states: 'Your MotoScan Android devices - Values with the symbol can be edited by clicking the field and enter/select the new value'. Below this, a link 'To add a device follow this guide: [Get Started](#)

Your Android devices Apply configurations

Device info				Activity info		Configuration info
Device name	Model	OS	Ver.	Enrolled	Last sync	Name
New device 12	TCL 5080X	6.0	5.0.2	2016-10-05 11:27	2016-10-05 12:32	Demo Configuration

Go to page: Show rows: 1-1 of 1

A list of all your enrolled devices are shown here.

You can change the device name to something that makes sense to you by clicking the PEN icon in the corner of the field. The model name is the information that the device tells the system. The operating system version is also shown here. The next field shows the MotoScan version number on this particular device, and you can see when it was enrolled. You can also see the time stamp of the last time the device had contact with the system.

The configuration field shows the current active configuration for each device. You can change the configuration by choosing another: Click the PEN icon and choose from the dropdown list. When you are ready, press the APPLY button to finally deploy the configuration.

Next time the device synchronizes with the system, the new configuration will be deployed on the device(s) with no user interaction required.

Configurations

This menu displays all your configurations. Here you can add a new configuration or change existing configurations. You can also delete



This page contains all your current configurations.

- To assign a configuration to a device, go to [My Devices](#)
- Modify a configuration: : Click the configuration in the list below.

Your configurations							Add new configuration	
Configuration name	Sync type	Devices	Files	Records	Last sync time	Last sync device	Actions	
New configuration 20161005120606	FTP	0	0					
Demo Configuration	FTP	1	0					
Copy of New configuration 20161005120606	FTP	0	0					

Go to page: 1 Show rows: 10 1-3 of 3

In the actions pane, you can delete a configuration (use with caution), you can copy a configuration or you can click the STAR to set a configuration as default for all new devices.

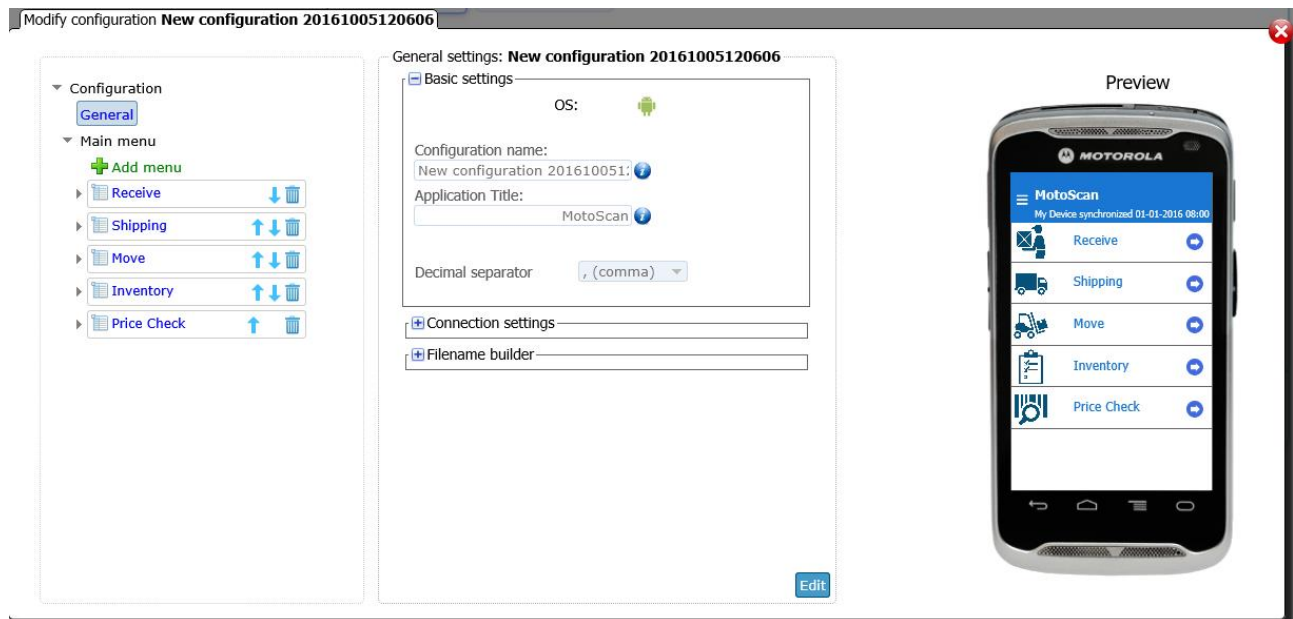


If something needs your attention, this sign is displayed and a mouse-over hint text will explain what you need to do.

New Configuration / change configuration

When you click ADD NEW CONFIGURATION, you will get a new name in the list. Change the name if needed by clicking the PEN icon.

If you would like to change the configuration content, click on the configuration name and you will now be able to setup your user scenarios for the app on the device:



The default configuration is presented to you now.

You can delete / move or add menus by using the icons next to the menu names:



A preview of the app on the device is shown on your right hand side. You can't use the screen to navigate, it is only a preview.

General settings

Basic Settings

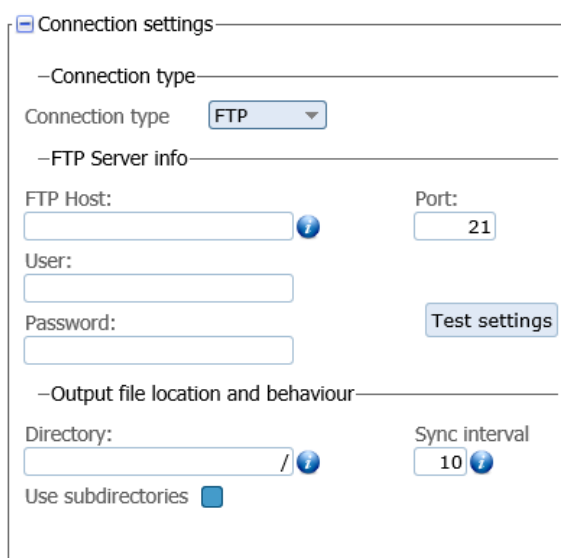
In the middle section you can set the BASIC settings for the app

Before you can change anything, you need to click on the EDIT button in the lower right corner of the box.

- You can change the configuration name (only applies to the name on this website)
- You can change the application title (default is MotoScan) - this will affect the name displayed on the main screen of the app on the devices
- You can set the separator for decimal numbers (choose between period and comma)

Connection Settings

Before you can change anything, you need to click on the EDIT button.




Connection settings

–Connection type–

Connection type

–FTP Server info–


FTP Host: 


Port:

User:

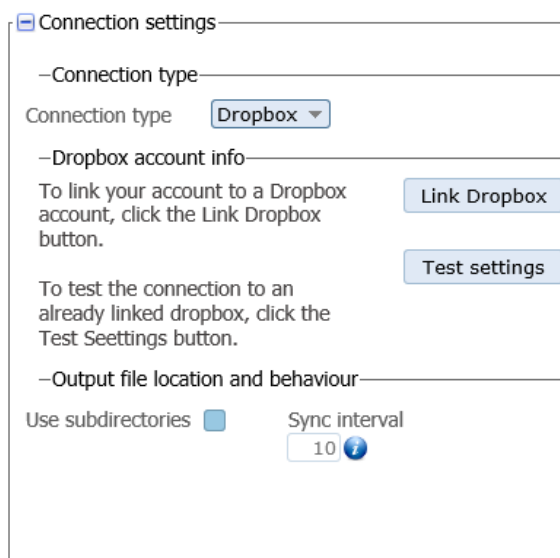
Password:

–Output file location and behaviour–

Directory: 

Sync interval 

Use subdirectories ☐



Connection settings

–Connection type–

Connection type


–Dropbox account info–

To link your account to a Dropbox account, click the Link Dropbox button.

To test the connection to an already linked dropbox, click the Test Settings button.

–Output file location and behaviour–

Use subdirectories ☐

Sync interval 

You can choose between FTP and Dropbox for data output destination.

FTP

Setup the settings with your FTP credentials. If you need to install a FTP server yourself, we recommend using FileZilla FTP server.

You can also define a directory path on the FTP server for receiving the records.

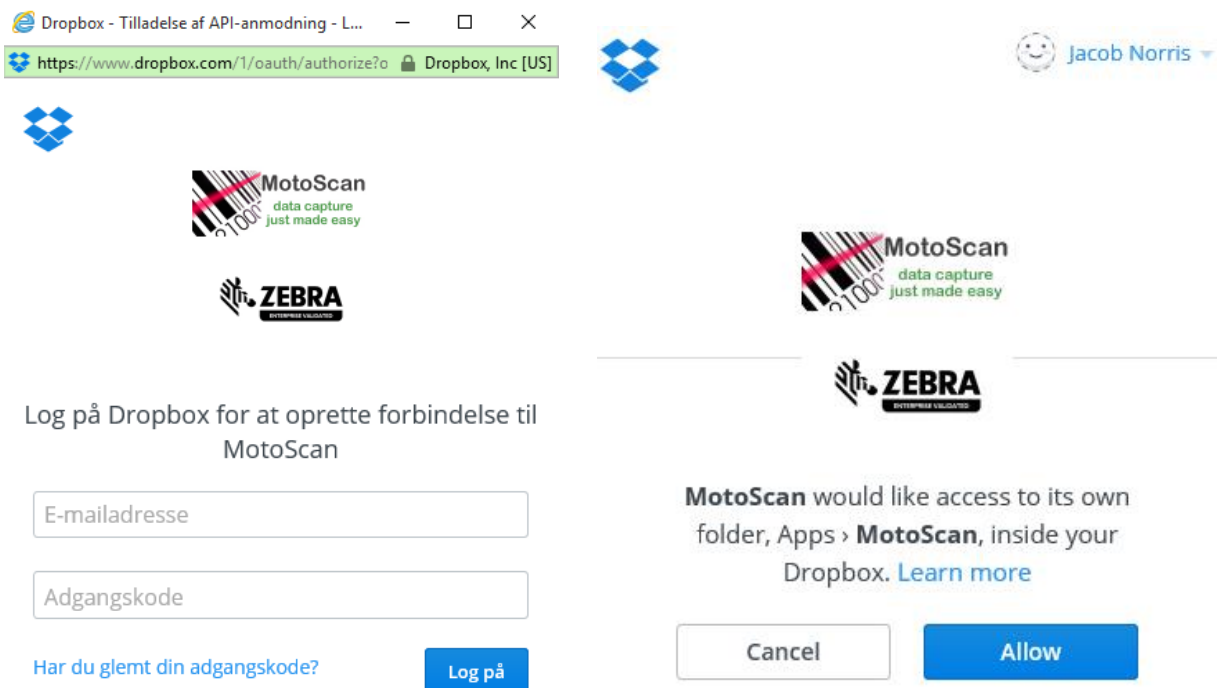
The sync interval between the devices and the FTP server / Dropbox destination folder can be set here. We recommend to keep the interval at 10 minutes or similar. It gives the users on the app the ability to review and delete records that are not synced yet.

Dropbox

If you are setting up a Dropbox for data transfer, link the Dropbox to your account using the button. This window will appear:



Click on the Authorize button, and this dialog with Dropbox appears:

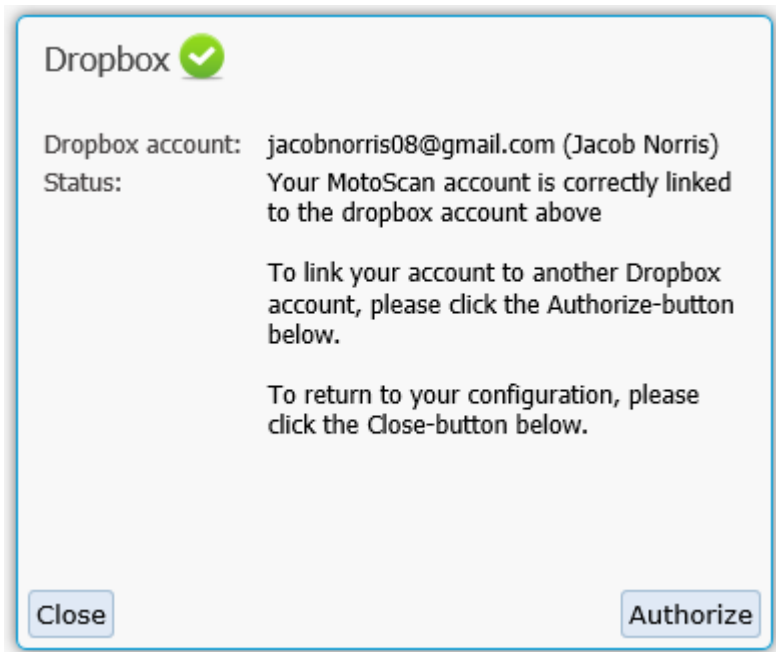


Type in your Dropbox credentials, and click on the LOG ON button

You need to confirm the link between MotoScan and you Dropbox account - press ALLOW

You get a confirmation box for the setup of the link.

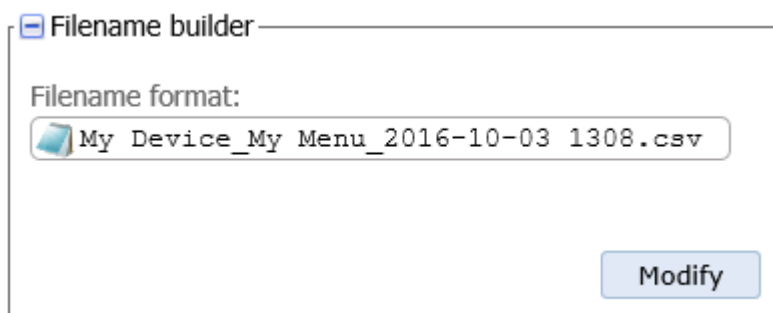
Press CLOSE to return to the configurator tool.



File Name Builder

The last section in General Settings is the file name builder. A default filename is generated for you.

If you would like to change the file name, click on the MODIFY button:



The File Name Builder appears:

On the left pane, you have the AVAILABLE fields - the fields you can choose from.

On the right pane, you are building the actual file name

At the top right corner, you can choose the file name extension. Default is “.CSV”

You can drag-and-drop fields from the left pane into the right pane to choose them.

In the right pane, you can move the fields up or down also by drag-and-drop. This defines the order the fields appear in the file name.

Some of the fields has a PEN symbol on them, and others does not:

The PEN symbol means that you can modify this further, for example the timestamp definition:

Specify the order you need the time stamp to be displayed - and if needed you can choose UTF time formatting by ticking the box at the lower right corner.

If you click on the Trash symbol, the field will return to the left pane and does not take part in your file name build. An example of the filename is shown at the top of the window under “Filename format”.

When done, press the OK button at the bottom right corner. If you press Cancel, nothing is saved.

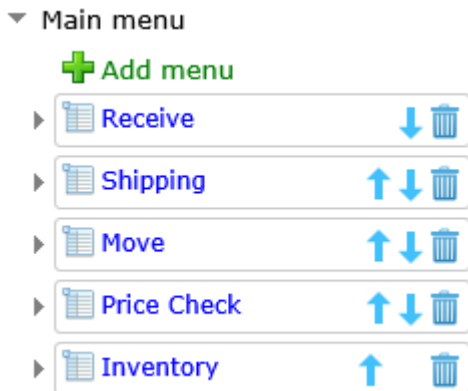
Menu

The menus are set up in the tree structure. You get 5 menus presented as default, you can use them as they are or modify/delete/change them as needed.

You can sort the order that they appear in by clicking the arrows.

Delete a menu by clicking on the trash-bin symbol.

Add a menu by clicking the “+ Add menu” symbol

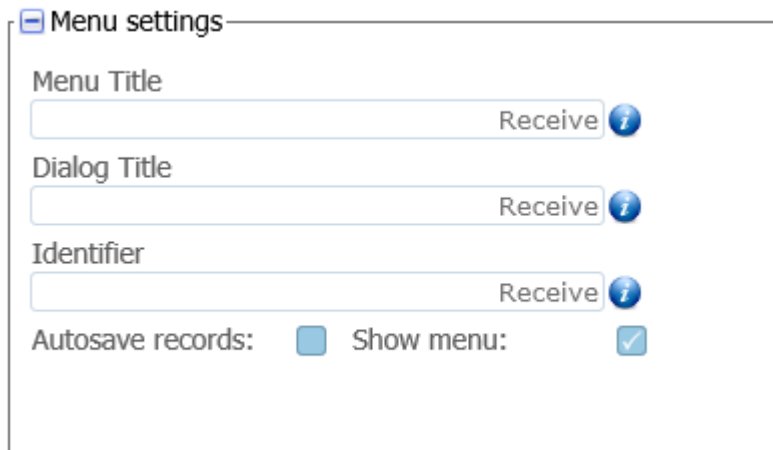


Click on a menu to set up the menu settings and fold out the fields inside the menu:



Menu Settings

Enter the name of the menu, and change or edit the dialog title (displayed when you are within the menu) and set an identifier for determining delivery point or filename for output from this menu.



Menu settings

Menu Title
Receive ⓘ

Dialog Title
Receive ⓘ

Identifier
Receive ⓘ


Autosave records: ☐ Show menu: ☒

Marking the “Autosave records” will ensure that a record is saved as soon as all fields are completed.

The “Show menu” tick box will show or hide the menu from the main menu - meaning you can have a menu readymade, but not show it to the user yet.

Menu Icon

You can change the icon for each menu. Start with clicking the Edit button, and then you will get a range of available icons you can choose from.



Menu icon

Menu Icon.....

Menu Icon Preview: [Icon of a person holding a box]

Available Icons: [Grid icon], [Person with box icon], [Barcode icon], [Truck icon], [Hand holding device icon], [Document with pencil icon]

Choose the icon you prefer and click save.

Record Builder

You can build your record from various options. Click the Edit button first, and then you can click on the Modify button.

Record builder

Record format:

```
My Device;Receive;Static text;2016-10-03 15:57;[Order no.];[Part no.];[Quantity]
```

Modify

In the left pane you have a list of available fields to make the record, and in the right pane you have the fields that you have chose for making the record. Use drag-and-drop to add or remove fields. Click OK when you are done.

Specify the record format for output data files

Record format example with current settings:
My Device;Receive;Static text;2016-10-03 16:04;[Order no.];[Part no.];[Quantity]

Available fields:

- TXT
- Static Text
- Record time stamp
yyyy-MM-dd hh:mm ☐ Use UTF

Record definition:

- Constant field
Devicename
- Constant field
MenuID
- TXT
Static text
- Sync time stamp
yyyy-MM-dd hh:mm ☐ Use UTF
- Menu field
Order no.
- Menu field
Part no.
- Menu field
Quantity

Define the output record format for this menu by arranging the fields below

- Drag fields from available fields to the record definition
- Reorder fields in the record definition
- Remove unwanted fields from the record definition
- Specify format for i.e. Date/Time fields
- Time stamps
 - Record time stamp:
Creation time of the individual record
 - Sync time stamp
The time the record was transferred to FTP/Dropbox

Cancel OK

Fields

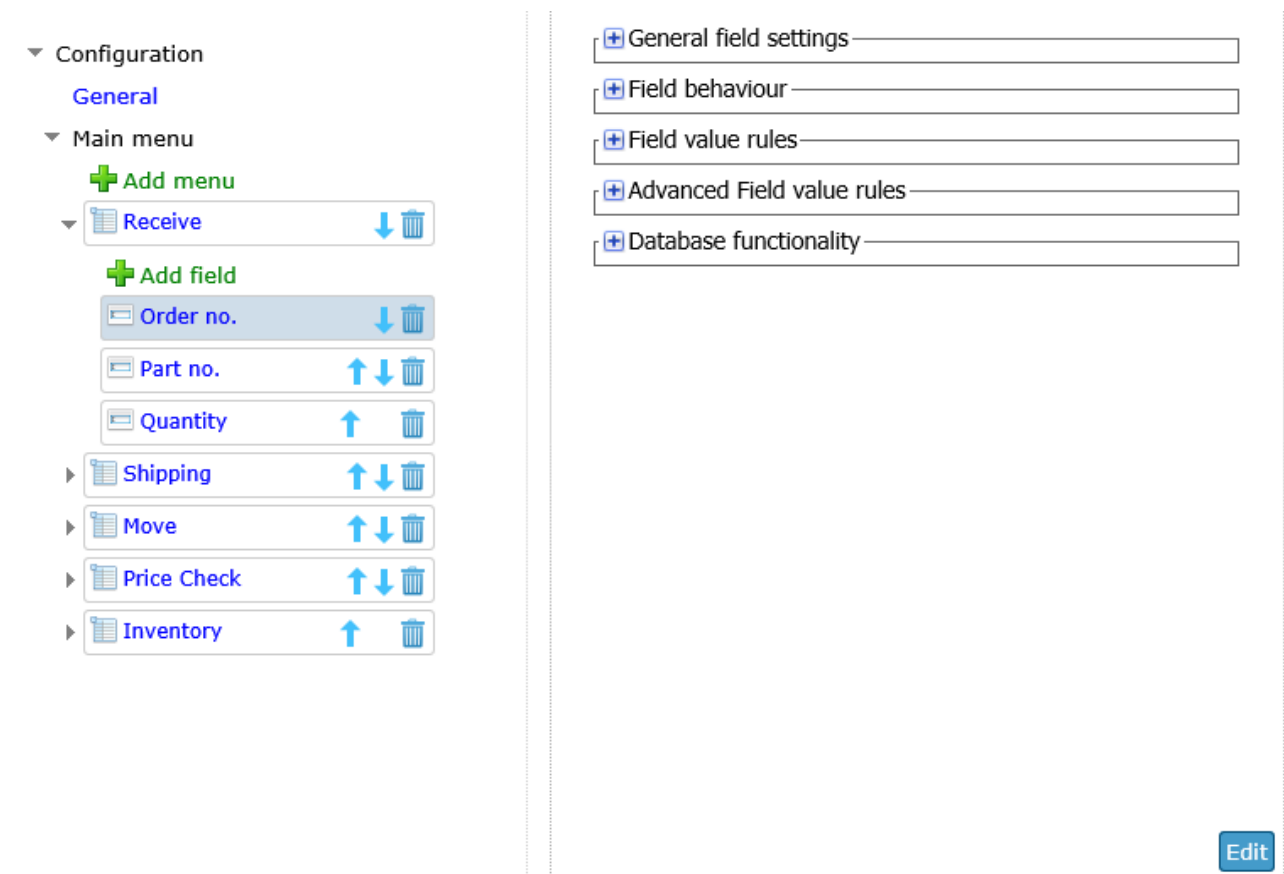
Click on a menu to set up the menu settings and fold out the fields inside the menu:



Default fields are shown. Again you can modify the order or delete them as needed.

Add a new field, delete a fields or click on a field, if you would like to edit it.

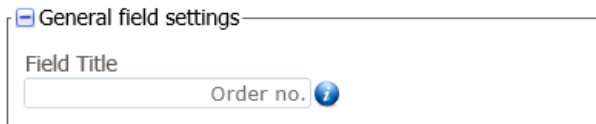
Remember to click on EDIT to change anything, and SAVE when done (lower right corner):



When you click on a field, the right pane will change into field property settings for the selected field.

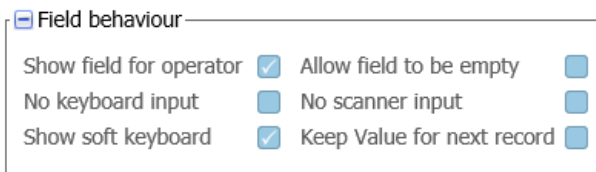
General field settings

Sets the field title/text. You can for example change it into your local language, so the user will see the app on the device in the language that you define here:



Field behaviour

Choose from these options:



You can determine if the user (operator) should see the field in the app or not.

You can disallow the use of the keyboard input for this field.

You can determine if the soft-keyboard should pop up or not.

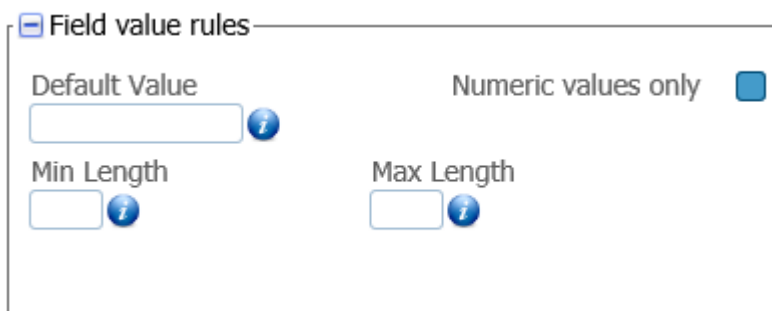
You can allow the field to be empty when finishing the registration.

You can disallow input from the scanner.

You can keep the value in the field after completing a registration, so it is displays as value when the next registration is to be done.

Field value rules

Choose from these options to set up a rule for the field



You can define a field to be pre-filled with a value. Every time a registration is about to be done, this field will have a default value already from the start of the registration.

You can predefine the input range to be numeric values only. Values with other characters than numeric will not be accepted

You can also set a minimum or maximum value for the field input - this means that the input shall fulfill this criteria for it to be valid. Be aware that the user of the app can't see the criteria on the screen, so the attempt to input values outside this range setting will just result in an error on the screen and will not explain the type of error to the user.

Advanced field values

If you would like to set up a specific pattern to be followed to validate an input, type the value here.
For example: If the barcode you need to scan must start with "00", then set the field pattern to "00"


If you tick in the box with INSERT by Field Pattern, the fields on the app screen for this menu will be sorted after the pattern, and not necessarily by the order in which the fields appear on the screen.

Example: you have 2 fields in the menu - field one with article number (GTIN) and field two with SSCC number. If you scan the SSCC number first (starts with 00) the value of the scan will land in the second field and the value with the GTIN (starts with 01) will land in the first field.

You can also choose to only validate the inputs by pattern when scanning, and not when typing values on the keyboard.

☒ Advanced Field value rules

Field Pattern



Insert barcodes by field pattern

☐

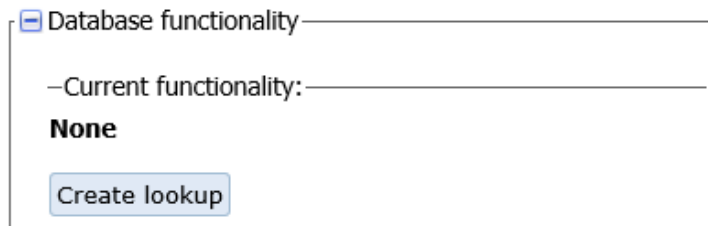
Only validate barcode pattern

☐

Database functionality

Here you can set up a lookup database function. Before you can do this, you must have setup a database source, and created a rule set for this. See next chapter for this.

Click on Create Lookup



Database functionality

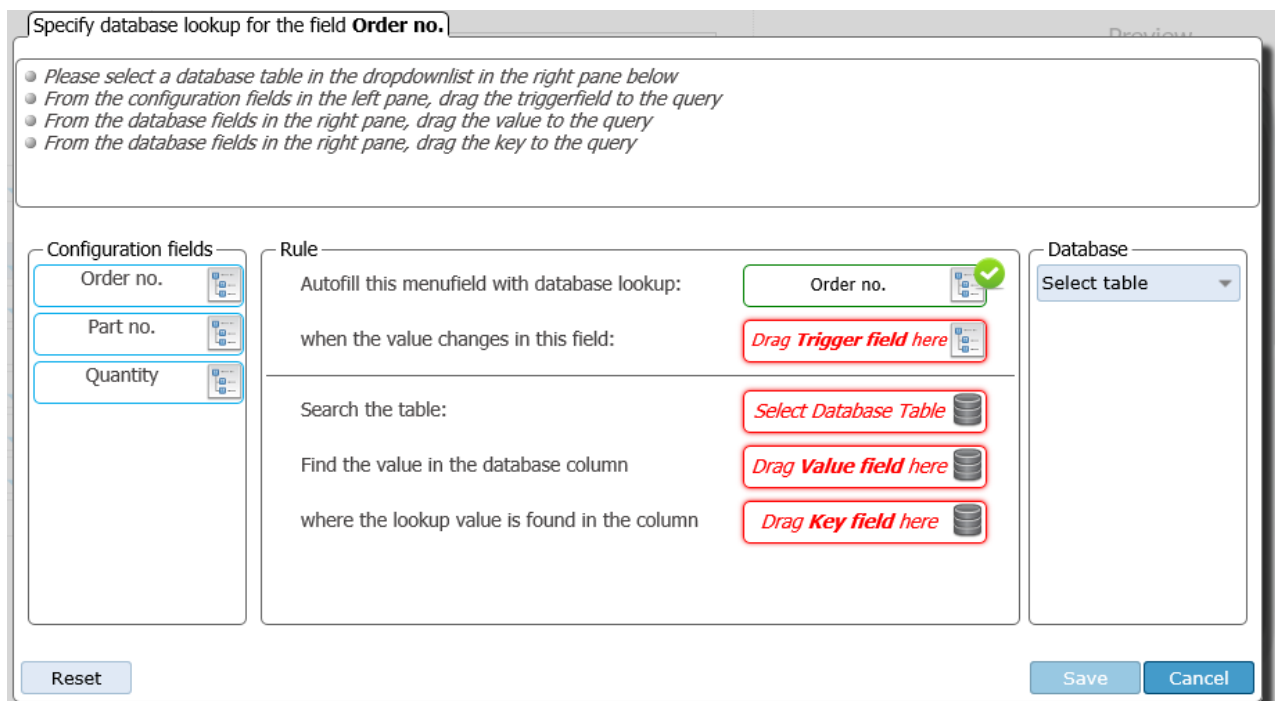
—Current functionality:—

None

Create lookup

Select a table on the right pane.

Read the hints on the boxes in the middle pane and drag-and-drop fields and table fields in the appropriate fields in the middle pane. This will give you the database lookup configuration and when all fields have a green check-mark, then you are good to go. Press SAVE and the lookup field is setup for this field.



Specify database lookup for the field **Order no.**

Please select a database table in the dropdownlist in the right pane below

From the configuration fields in the left pane, drag the triggerfield to the query

From the database fields in the right pane, drag the value to the query

From the database fields in the right pane, drag the key to the query

Configuration fields	Rule	Database
Order no.	Autofill this menufield with database lookup:	Order no. ✓
Part no.	when the value changes in this field:	Drag Trigger field here
Quantity	Search the table:	Select Database Table
	Find the value in the database column	Drag Value field here
	where the lookup value is found in the column	Drag Key field here

Reset Save Cancel

The default configuration has a built in example of database usage in the menu Price Check. To see the example navigate to Price check → Product name, expand database functionality and click edit and modify lookup. A visualization of the database lookup will be shown:

Configuration fields	Rule	Database
Product no	Autofill this menufield with database lookup:	Products
Product name	when the value changes in this field:	EAN
Price	Search the table:	Location
	Find the value in the database column	ProductName
	where the lookup value is found in the column	Price

Reset Save Cancel

In this example the database will behave as follows: The price field will receive data from the database when the product number field is changed. The program will search the EAN column in the products table and return the value from the Price column. To setup your own database go to a field you want to make a target field that receives data from the database. Click edit and then click create lookup to setup the database.

When you are done setting this up, click SAVE and a summary of the database lookup will appear:

Database functionality

Current functionality:

Target field: This fields value is autoupdated from database, when the field **Part no.** is changed

Remove lookup Modify lookup

Database creation settings

The database option lets you select the database file (CSV files) that you would like to use on the device. It will allow the user to lookup values in a database on the device, useful for price checking, inventory etc. It is possible to import several tables and use in different configurations or menu's.

To use the built-in database function a database file must first be uploaded, the accepted format is CSV. Under My Account on the web-site go to Databases and click Browse to import a database file. Navigate to the database, select it and click open. Confirm that the filename is and click upload all, if correctly done a preview of the database will now be shown below.

Preview of CSV-data		Delimiter: <input checked="" type="radio"/> ; (semicolon) <input type="radio"/> , (comma)		First row contains column headers: <input type="checkbox"/>		Edit column names: <input type="button" value="Edit"/>		<input type="button" value="Import"/>	
<input checked="" type="checkbox"/> Column_0	<input checked="" type="checkbox"/> Column_1	<input checked="" type="checkbox"/> Column_2	<input checked="" type="checkbox"/> Column_3	<input checked="" type="checkbox"/> Column_4	<input checked="" type="checkbox"/> Column_5	<input checked="" type="checkbox"/> Column_6			
1	a	10	100	1000	10000	100000			
2	b	20	200	2000	20000	200000			
3	c	30	300	3000	30000	300000			

It is possible to select delimiter type and if the first row contains headers, select or deselect the columns needed in the database and edit the column names if needed. When the settings are as needed click on Import to import the database to your moto-scan system. If this is a new database table, select New table and name the table, click Start import. When the import is complete the table can be found under Manage data, the import of the database is not complete, select on the left side of the screen on the manage data page if you want to save to dropbox or FTP. The database is now ready for use and can be selected in the configurations menu.

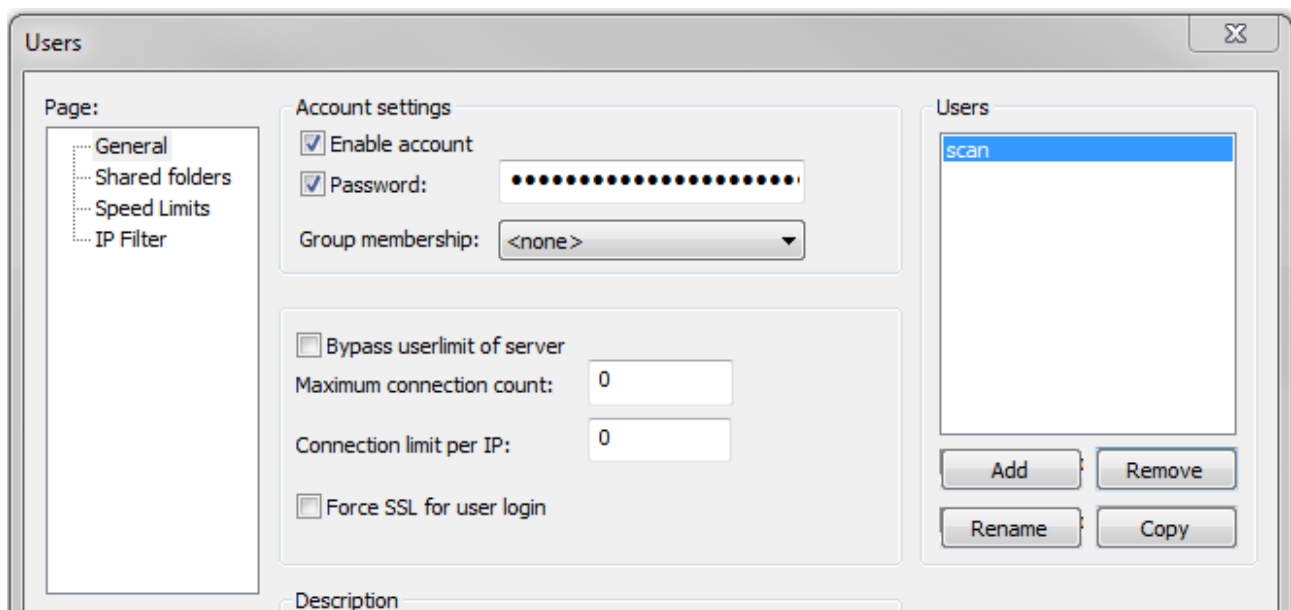
FTP Server Setup

We recommend using Filezilla FTP server with MotoScan for easy setup. Any FTP server can be used but to get the best use of the database functionality over FTP, it must support returning timestamp through FTP (MDTM). If not, the terminal cannot check if the database has been changed and will download it each time the terminal synchronizes to the FTP server.

The FTP user must have access to read/write/delete/append in the FTP folder.

To set up Filezilla FTP server, please download and install Filezilla server from:


<https://filezilla-project.org/index.php>



Please follow the steps below to setup the FTP server to work with MotoScan:

- Install the software, during the installation be aware of how the software is started. Use the recommended options if in doubt. If default options are used, the FTP server will with Windows as a service.
- When the FTP server is installed, launch the program; click “ok” and go to “edit” → “users”, click “Add” on the right side of the screen.
- Create an account that will be used when sending data to the FTP server, note that usernames are case sensitive. Check “Password” and enter a password for the account.
- Now go to the “shared folders sub menu”, click “Add”, navigate to the folder you want to use for FTP server. It is highly recommended to have a dedicated folder for this. Click “Set as home dir” and make sure all boxes under “Files” and “Directories” are checked.
- If you are unable to access the FTP server Windows firewall might be blocking the incoming connections, try to disable the firewall or add an exception if you are experiencing this issue.

Device usage

To access the menu on the device, press the  icon top left. You can also swipe left/right from the left side of the screen to access the device menu.

At the top you see the device name (the name you have chosen in the configurator tool)

You can see what application version you are running, last sync time, and the type of license you have active on the device.

The app menu contains the following options:

Account

Allows the device to log on to the same user account as registered on the web site. This is needed to register the device and send configurations to the device.

If the device is in demo mode, it will not synchronize any data. Please refer to the chapter about possible modes if you are in doubt.

You can change the pin code for communicating with the account in here. Please notice that if you change the pin code to a not valid pin code, the communication with the server is not working.

If your device needs to be replaced, you must un-enroll the device license from the device. If you fail to do this before you may delete the application, you will not get the license back in the license pool. This can't be undone.

Manual Sync

This will force the device to synchronize with the server, the device will show a status of the synchronization. It is also possible to do a manual sync by swiping down on a menu title from the main screen.

Registration list

Will show a list of the data entries on the device.

Registrations in the list that has a blue cloud with a checkmark in it have already been synced with the FTP/Dropbox, and can't be deleted using the device anymore.

If the registration has a blue cloud without a checkmark inside, then the user can still click on the registration and will be asked if he wants to delete the registration.

This can only be done until time of synchronization.

About / Purchase

Shows general information about MotoScan, End User Agreement and licenses.

There is a link directly to the website of MotoScan for more information