

# Operating instructions

**GB**

## **FunkiNet Pocket Online**

Copyright © by ACO Funki  
Version 1 - 2006.09.21  
Printed at ACO Funki

# FunkiNet Online PDA



# Contents

<b>CONTENTS</b> .....	<b>2</b>
<b>INTRODUCTION</b> .....	<b>4</b>
SYSTEM REQUIREMENTS .....	4
WIRELESS SOLUTION .....	4
DOCKING STATION SOLUTION .....	4
REQUIREMENTS DURING OPERATION .....	4
USER DATA .....	5
PEN DATA .....	5
MIDNIGHT CALCULATION .....	5
<b>LOG IN</b> .....	<b>6</b>
LOG IN .....	6
LOG OUT .....	6
SETTINGS.....	6
<b>FUNCTIONS</b> .....	<b>6</b>
LOG OUT .....	7
PROCESS CONTROL STATUS .....	7
<i>General information</i> .....	7
<i>Current status</i> .....	7
PEN DATA .....	7
<i>Pen data</i> .....	7
<i>Pen filter</i> .....	7
<i>Dead pigs</i> .....	7
<i>Move pigs</i> .....	8
SOW DATA .....	8
<i>Sow data</i> .....	8
<i>Create sow</i> .....	8
<i>Move sow</i> .....	8
<i>Delete sow</i> .....	8
UNSYNCHRONISED DATA .....	8
MANUAL OPERATION .....	9
<b>APPENDIX</b> .....	<b>10</b>
CREATING A PARTNERSHIP BETWEEN PC AND PDA .....	10
SOFTWARE INSTALLATION .....	13
SOFTWARE SETUP .....	13
PDA NETWORK SETTINGS .....	13
FIGURE 1 – LOG IN .....	14
FIGURE 2 – SETTINGS .....	14
FIGURE 3 – GENERAL INFORMATION .....	14
FIGURE 4 – CURRENT STATUS .....	14
FIGURE 5 – PEN DATA, HORIZONTAL .....	15
FIGURE 6 – PEN FILTER .....	15
FIGURE 7 – DEAD PIGS .....	15
FIGURE 8 – MOVE PIGS .....	15
FIGURE 9 – SOW DATA .....	16
FIGURE 10 – CREATE SOW .....	16
FIGURE 11 – MOVE SOW .....	16
FIGURE 12 – DELETE SOW .....	16
FIGURE 13 – UNSYNCHRONISED RECORDS.....	17

FIGURE 14 – MANUAL OPERATION .....17

## **Introduction**

With the exception of this general introduction, this manual is divided into sections describing the individual displays in FunkiNet Online PDA and their function.

An appendix at the back of the manual describes how to create a partnership between a PC and a PDA using Microsoft ActiveSync. It also includes installation instructions. In addition, the appendix contains illustrations of all FunkiNet Online PDA displays.

## **System requirements**

For optimum performance of the FunkiNet Online PDA program, the system used must meet the following requirements:

PDA:

- as a minimum, specifications corresponding to Dell Axim X51v as the program has been developed for optimum performance on this PDA. The PDA must in other words have a VGA display, 64 MB RAM, 600 MHz processor and wireless network card.
- .NET Compact Framework version 2
- FunkiNet Online PDA

PC with docking station:

- ActiveSync version 4.1
- .NET framework version 2
- Network connection to process control

Process control:

- ImportExport server
- FunkiNet Webservice

## **Wireless solution**

To use a wireless network to establish a connection between the PDA and the process control, there must be radio contact between the PDA and an AccessPoint. In other words, there must be an AccessPoint in the vicinity of where contact between the PDA and the process control is required. The PDA must also have a wireless network card and must be switched on. All AccessPoints must be on the same network as the process controls.

## **Docking station solution**

If a PC connected to a PDA docking station is used, a network connection can be established by placing the PDA in the docking station.

## **Requirements during operation**

The following conditions must be met before the PDA can exchange data with the FunkiNet Servers:

- The PDA must be connected to the farm network, either via wireless connection to an AccessPoint or via a docking station and ActiveSync.
- ImportExport Server must be operating on a PC connected to the network.
- Webservice must be operating on a PC connected to the network (via Microsoft InternetInformationServer).
- FunkiNet Online PDA must be set up for communication with the Webservice address.

## **User data**

After successfully logging into the PDA for the first time, it is possible to log in again while there is no contact between the PDA and the network as user data are stored in the PDA.

If, however, user data are altered on the FunkiNet Server, it will no longer be possible to log into the PDA using the old user data if the PDA is in contact with the network.

## **Pen data**

When a user logs in while the PDA is in contact with the network, data for all active pens will be sent to the PDA from the specified FunkiNet Server and stored on the PDA.

When a user logs in while the PDA has no contact to the network, the PDA will use the pen data that it received the last time a user logged in while the PDA was in contact with the network.

If a user changes data for one or more pens on the PDA, such pens will be marked by a grey background. When the PDA again makes contact with the network, all changes will be immediately transferred to the FunkiNet Server. This ensures that data are not lost if the program is shut down or a new user logs in.

## **Midnight calculation**

Pen data are updated during midnight calculations on a FunkiNet Server. This means that pen data may be incorrect if altered pen data are not sent from the PDA to the FunkiNet Servers before midnight calculations are performed.

It is therefore advisable to retrieve pen data in the morning (by logging in while the PDA is in contact with the network), make changes during the day, and then log into the specific FunkiNet Server again **before** midnight (i.e. before midnight calculations are made).

In situations where pen data are not transferred from the PDA before midnight calculations are performed, pen data should be carefully checked after transfer has been accomplished. If necessary, one of the following two options can be used:

1. Delete all changes in PDA data: 'Functions → Unsynchronised data'. Select all data in turn and delete by pressing 'Delete data'. *Recommended*. This procedure ensures the deletion of all sow and pig data (move pigs, dead pigs, create sow, move sow, delete sow).
2. Transfer all changes from the PDA and then change any incorrect data using FunkiNet UserInterface. *Not recommended*.

Any changes in pen data will, however, always be transferred whenever network contact is re-established, but this will only affect the fields which have been changed for the pen.

## Log in

(See Appendix, figure 1)

The "Log in" display is the first to be shown when the program is started.

The ID of the process control on the specified farm to be viewed/controlled can be selected here.

Note the symbol in the bottom right-hand corner of the display. It shows the status of the network connection. The symbol shown in figure 1 illustrates that the network is disconnected ('Settings → Disconnected from network'). Alternatively, the symbol can illustrate that the network is connected ('Settings → Connected to network') (see figure 4) or that there is no contact to the network even though 'Connected to network' has been selected (see figure 3).

## Log in

Once a user has selected a process control ID, entered a username and password, and pressed the "Log in" button, user data are retrieved from the ImportExport Server. The username and password are checked and, if accepted, all pen data for the specified process control is retrieved from the ImportExport Server.

After successfully logging in, the "General information" display appears. This provides access to all menus and menu options.

## Log out

When not logged in, users have access to all options on the Settings and Close menus and to 'Functions → Log in'.

## Settings

The "Settings" menu contains the options 'Connected to network' and 'Disconnected from network'. It is also possible to select 'Settings', which opens the Settings display (figure 2).

**Farm ID:** Indicates the number of the farm from which process controls are to be selected (in the "Log in" display).

**FunkiNet WebService IP address:** The IP number and exact path to FunkiNet WebService (as specified during FunkiNet WebService installation) should be specified here.

**Updating interval (in milliseconds):** Specifies the required interval between updates from the FunkiNet Server. 1000 milliseconds equals 1 second. The lower the value, the more frequent the update. Frequent update may, however, overload the system.

**Language:** Allows any of the installed languages to be selected.

**Font size:** 7, 9 or 11 point script can be selected. Fonts larger than the standard 7 point script reduce overview.

**Automatic log out:** Allows users to be automatically logged out after a few minutes of inactivity.

After entering the correct settings, select 'Functions → Log in' to log in, or select any other required function if already logged in.

## Functions

After logging in, the following options are available on the 'Functions' menu: 'Log out', 'Process control status', 'Pen data', 'Sow data', 'Unsynchronised data' and 'Manual operation'. On selecting any of these menu options a new display appears.

## **Log out**

If 'Log out' is selected, confirmation is requested and the system then returns to the 'Log in' display.

## **Process control status**

Either of two tabs can be selected at the bottom of this display: 'General information' and 'Current status'.

### **General information**

(see figure 3)

General information on the current process control is displayed here.

Operating mode can be selected using the 'Auto', 'Manual' and 'Stop' buttons.

### **Current status**

(see figure 4)

Operating status and alarm status are shown here.

The display also allows the setpoint to be changed and alarms to be reset.

To change the setpoint, enter the required setpoint in the 'New setpoint' field and then press the 'Update setpoint' button.

## **Pen data**

Any one of four tabs can be selected at the bottom of this display: 'Pen data', 'Pen filter', 'Dead pigs' and 'Move pig'.

### **Pen data**

(see figure 5)

The 'Rotate display' button allows the display to be rotated 90° into horizontal position, thus providing a better overview of individual pens. The 'Rotate display' option rotates the operating system display. Any other program selected in the Start menu will therefore also be rotated in the same way as 'Pen data'. If, however, another display in FunkiNet Online PDA is selected, the program ensures that the display is returned to vertical alignment, optimising the way in which data are displayed.

If a pen data field is "right-clicked" (by holding the pen against the screen within the field), a menu appears allowing 'Column setup' to be changed (i.e. which columns are to be displayed) and 'Adjust column width to content' to be selected (i.e. the width of all columns is adjusted to best fit their contents).

### **Pen filter**

(see figure 6)

The pens displayed can be limited here by means of filters. Two filter conditions can be specified and combined as required.

### **Dead pigs**

(see figure 7)

The number of dead pigs and their average weight can be entered in this display, allowing the average weight of the remaining live pigs to be adjusted on the basis of the average weight of the dead pigs.

Such calculations require that the total weight of all pigs in the pen is known.

Records of dead pigs can also be viewed in FunkiNet Controller and FunkiNet Master, allowing differences in the number of dead pigs between pig batches to be monitored.

## **Move pigs**

(see figure 8)

The average weight of any pigs moved from the pen can be entered in this display, allowing the average weight of the remaining pigs to be adjusted (in the same way as for dead pigs). Such calculations require that the total weight of all pigs in the pen is known. Pigs can be moved to another process control, but it is necessary to specify the process control to which the pigs are moved!

## **Sow data**

The bottom of this display contains three tabs: 'Sow data', 'Create sow' and 'Move sow'.

### **Sow data**

(see figure 9)

This display allows the pen number for a specific sow or the IDs of sows in a specific pen to be located. On entering a sow ID and pressing 'Search', the pen in which the sow is housed will be displayed. If the sow in question is found on the current process control, the IDs of all other sows in the pen will also be displayed.

Alternatively, a specific pen number can be selected direct, allowing the IDs of the sows housed in the pen to be listed.

Individual sows can be selected in the 'Sows to pen' field. They can then be moved or deleted using the 'Move sow' and 'Delete sow' buttons respectively.

The pen number selected is used in the 'Create sow' display.

### **Create sow**

(see figure 10)

This display allows new sow IDs to be created, and the pens in which the sows are housed to be specified. The display uses the pen most recently specified. If, however, the display is selected by pressing the 'Create sow' button in the 'Sow data' display, the pen number from that display is used. The sow is created as specified by pressing the 'Create sow' button.

### **Move sow**

(see figure 11)

This display allows a sow to be moved from one pen to another. The display uses the data most recently specified. If, however, the display is selected by pressing the 'Move sow' button in the 'Sow data' display, the sow ID and pen number specified in that display are used.

The sow is moved as specified by pressing the 'Move sow' button.

### **Delete sow**

(see figure 12)

To delete a sow from a pen, press the 'Delete sow' button on the 'Sow data' display. A dialogue box will then appear in which it is necessary to confirm deletion of the specified sow from the specified pen.

## ***Unsynchronised data***

(see figure 13)

Data for each record yet to be synchronised with the process control are shown in a separate line on this display.

The records can be deleted individually by pressing the 'Delete record' button.

## ***Manual operation***

(see figure 14)

As FunkiNet Online PDA is in "direct" contact with the process control, it is possible (and acceptable) to operate the system manually via the PDA.

Note! The network connection from the PDA to the process control must, however, be reliable. If the connection fails, all equipment will stop operating! (For safety reasons!)

Several tabs are available at the bottom of the display, allowing various manual operation sub-groups to be selected. The number of tabs and tab content depend on the type of control! The system naturally continues to operate when a different tab is selected.

## Appendix

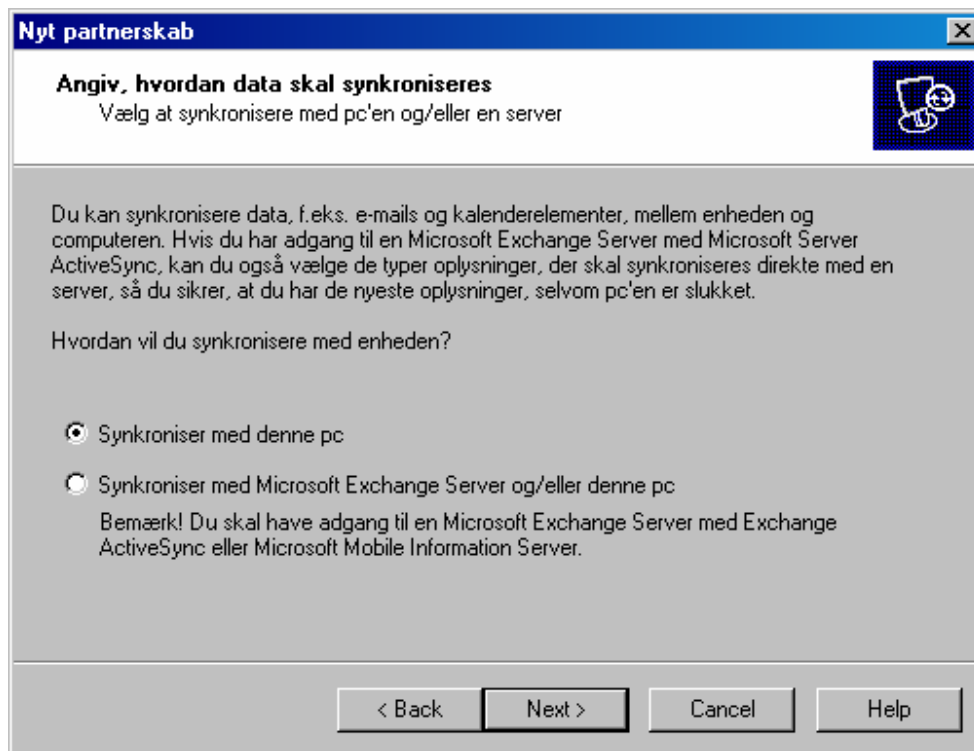
### ***Creating a partnership between PC and PDA***

A partnership must be created to prevent ActiveSync from requesting the creation of a partnership whenever the PDA is placed in the docking station. The procedure for creating a partnership is described in the following.

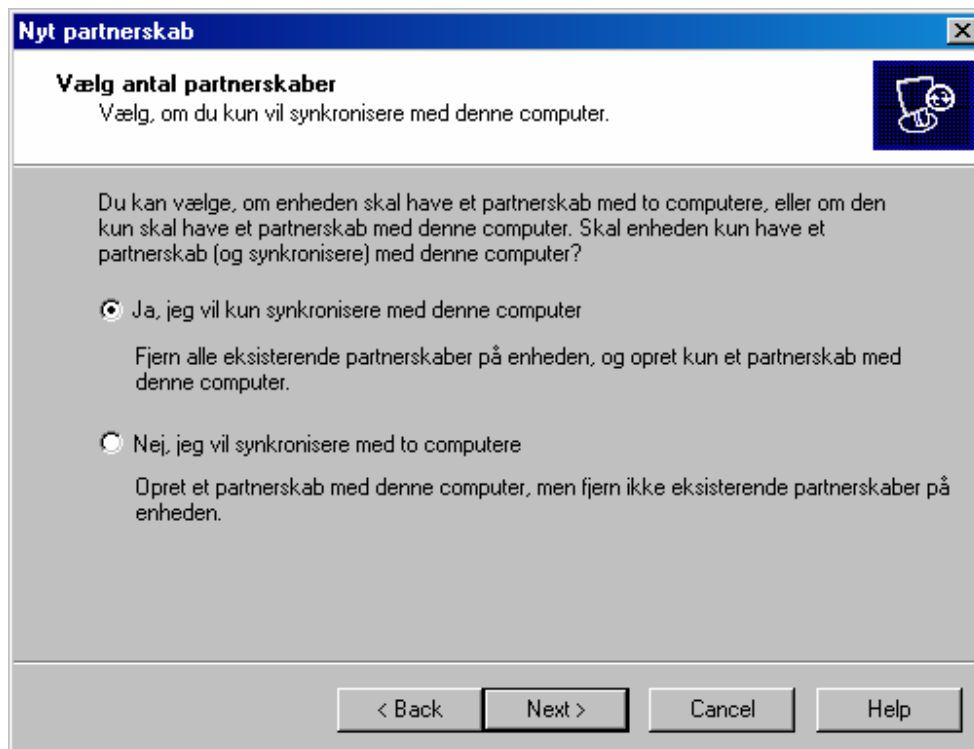
Place the PDA in the docking station and connect the docking station to the PC. ActiveSync will then activate the "Create partnership" display. Select "Standard partnership" and then click "Next".



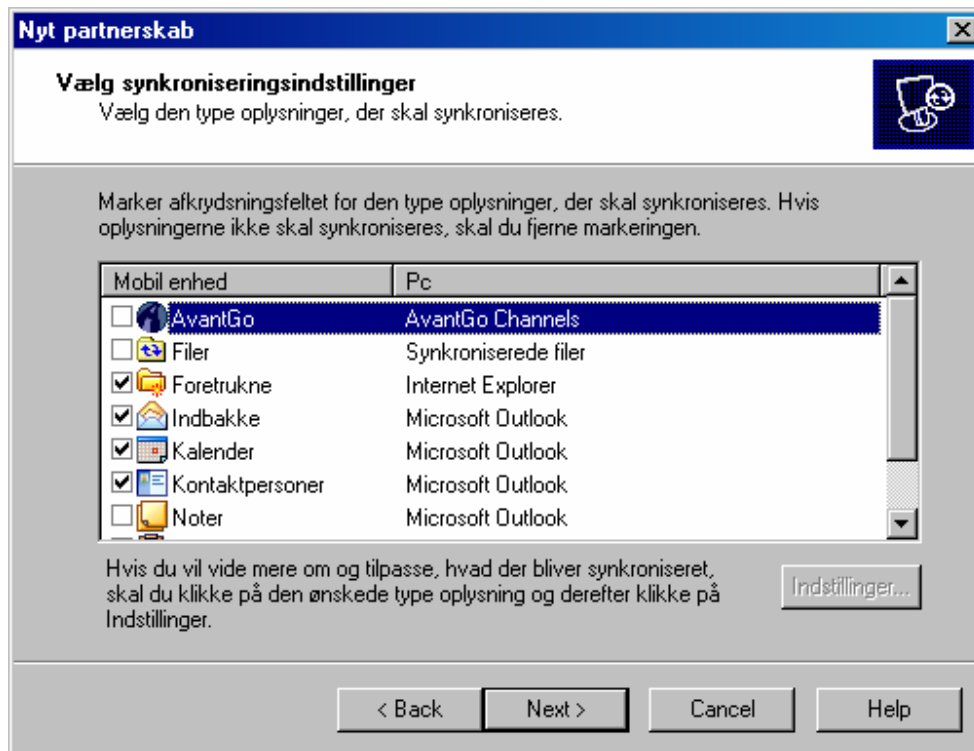
Select "Synchronise with this PC" and then click "Next".



If the PDA already has a partnership with another PC, a "Select number of partnerships" display appears. Select either "Yes, synchronise with this computer alone" to synchronise the PDA solely with the current PC, or "No, synchronise with two computers" to synchronise the PDA with the current PC while maintaining another partnership. Then click "Next".



Select the types of data to be updated automatically between the PC and the PDA (FunkNet Pocket does not use ActiveSync for synchronisation purposes so in this case it is not necessary to select any types at all). Then click "Next".



Click "Finish" to complete partnership creation.



## **Software installation**

Install ActiveSync version 4.1 on the PC.

Install .NET framework version 2 on the PC.

Place the PDA in the docking station and connect the docking station to the PC.

Install .NET compact framework version 2 on the PDA (when the program is installed on the PC a dialogue box appears on the PDA requesting installation acceptance).

Install FunkiNetOnlinePdaSetup.msi on the PDA (when the program is installed on the PC a dialogue box appears on the PDA requesting location verification and installation acceptance).

## **Software setup**

Set up **ImportExport Server** to point to an operating process control (PDA source) on a specific farm (Farm ID). The required process control is selected from a combobox, which is red if contact is lacking. Install **WebService** on a PC with InternetInformationServer. The program requires no further setup and automatically locates ImportExport Server (via FarmAgent, which must be installed on the same PC as WebService). To check that WebService is functioning correctly and that it has made contact with ImportExport Server, enter the path to WebService in Internet Explorer on the PC on which it is installed. Then click the Test Connection link, enter PC ID and Farm ID, and click 'Invoke'. A new display should appear with the following message: "Succeeded", indicating that contact has been established between WebService and the process control.

**FunkiNet Online PDA settings:** The WebService IP address must point to exactly the same address as that checked in WebService as described above. It is also necessary to select 'Connected to network' in the 'Settings' menu. Check that a "connected" symbol appears in the lower right-hand corner of the 'Log in' display. **Farm ID** must also correspond to the process controls to which contact is required. It is important to set Farm ID correctly!

Note! Only **pens** associated with a section are considered active. Data will therefore only be transferred to the PDA for pens whose section number is greater than zero.

## **PDA network settings**

Select 'Settings' in the PDA start menu. Select the 'Connections' tab and press 'Dell WLAN Utility'. Select WLAN ON by pressing the 'Turn on' button then select 'Setting' so that 'Configure Wireless Networks' appears.

On clicking a network name, various parameters can be set, e.g. 'Network Key' (which must be entered to gain access to a wireless network with limited access). This key must be the same as that entered in AccessPoints.

Figure 1 – Log in



Figure 2 – Settings



Figure 3 – General information



Figure 4 – Current status



Figure 5 – Pen data, horizontal



Figure 6 – Pen filter



Figure 7 – Dead pigs

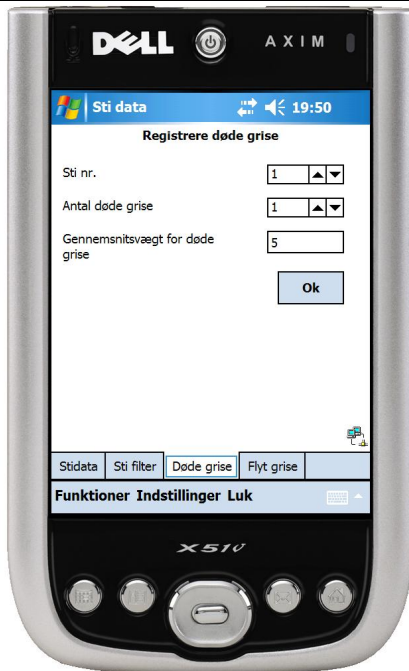


Figure 8 – Move pigs

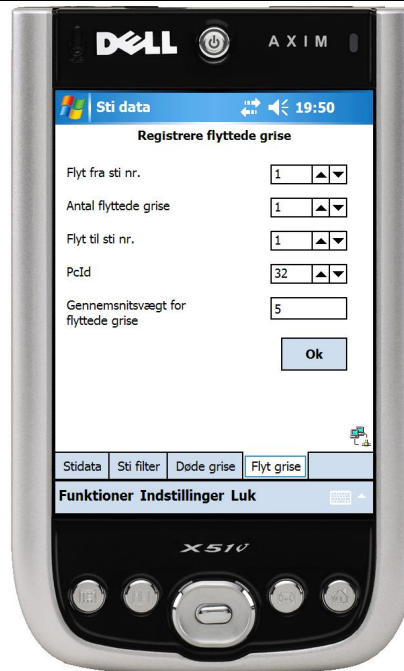


Figure 9 – Sow data

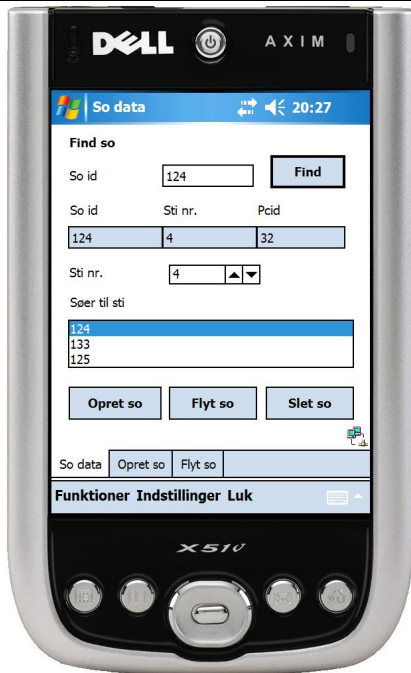


Figure 10 – Create sow



Figure 11 – Move sow

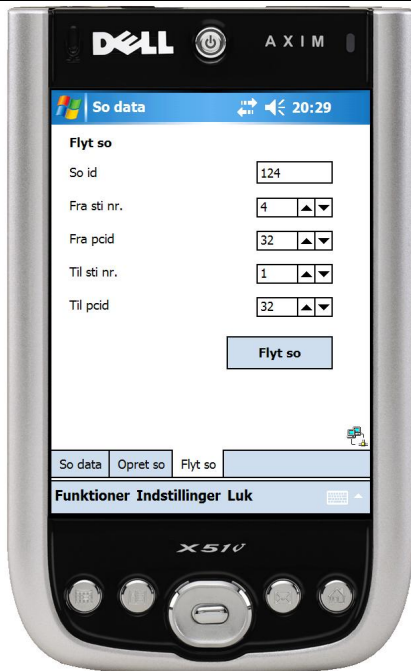


Figure 12 – Delete sow



Figure 13 – Unsynchronised records

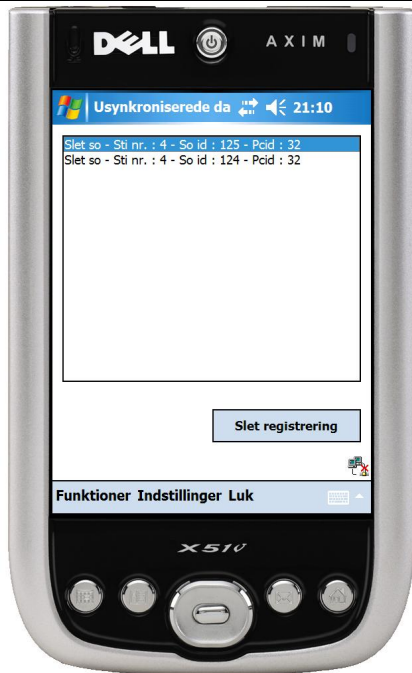


Figure 14 – Manual operation

