

# Release notes **2L**

Inhoudsopgave

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# Release notes **2L Field Developer 6.01.01 to 7.01.31**

## Spreadsheet

- 6.01.03 Order of columns in sheet-designer module = order of columns in spreadsheet-module (the order of columns used to be defined by the order in the dataset !!)
- 6.01.03 Sheet designer module optimized for different screen sizes
- 6.01.03 Cell-values in sheet designer screen will be pre filled from existing dataset (if available) with defaults filled to max. input length (if column not available in dataset)

## Test module

- 6.02.03 Increased compatibility between pda-runtime and Testenvironment
- 6.01.20 Memo-fields now work in the test-environment
- 6.01.12 Improved test-environment for CE-forms
  - pulldown list-icons
  - error messages for obligatory fields, list-only fields and D-fields
  - Checking on input for A/M-field with Numbers-only specification
  - Better checking on SETVAL for N-fields
- 6.10.11 Lists automatically hide, when you press outside the list
- 6.01.10 Startup procedure testform made compatible with CE
- 7.01.18 Length for default extended to 20 (e.g. to facilitate %\_REG\_var% defaults)

## Commands

- 7.01.18 Commands GETSEARCHREC and GETNEXTSEARCHREC can now handle conditions in searchstring (e.g. >12 or <=5 or 12<)
- 7.01.09 Command FILTERLST now works properly in test environment
- 6.11.08 "Empty line" in command filecontaining spaces, now works as a normal empty line
- 6.01.04 New/Extended commands
  - BEEP (n)
  - SORT Collist (Dataset)

## User Interface

- 7.01.18 Startfunction enabled in field editor screen for N-field
- 7.01.18 Integrated function-edition can handle commands with up to 5 parameters
- 6.03.29 Command list editor
  - View commands is enabled:
    - The commandlist will be saved as COMMANDLIST.TXT in the program-folder and will then be called to run (normally as Notepad TXT-file)
  - During programstart the commandlist will be loaded automatically in the command editor.
- 6.01.04 Show 2L Bar added to menu

## Bugs / crashes solved

- 6.05.01 The CW version does not crash if the commandlist.txt file was installed on a ReadOnly folder.
- 6.02.28 Problem with display of Icons and pictures in test environment solved
- 6.02.03 Range-check errors solved
- 6.02.01 Range check error on too long record size

## **New Functionalities**

- 6.11.08 New system and Date/time variables added
- 6.02.01 Paste functionality added to pop-up in designer screen
- 6.01.03 New option autosavedata introduced in settings
  - Default On with new form
  - Default Off with existing old form

## **Other**

- 7.01.09 Form-definition cleaned up on saving form
- 6.06.15/16 Evaluation version completed
- 6.06.14 Better check on info in evaluation and demo versions
- 6.05.31 Introduction of 2L Prof Evaluationversion
- 6.02.01 "Delete selection" will automatically call update screens
- 6.02.01 "Undo delete selection" is implemented

## Release notes **2L Field** 6.01.01 to 7.05.07

### Spreadsheet

- 7.04.04 Read-only specification of input fields in spreadsheet implemented
- 7.03.21 List-only specification of input fields in spreadsheet implemented
- 7.02.13 Better checks on full spreadsheet drawing updates during datacollection. Situations where the spreadsheet is only partially redrawn, while a full redraw should occur, have been eliminated.
- 7.01.23/24 Spreadsheet in 320x240 display mode
  - 2L Keyboard optimized for 320x240 display
  - Keyboard/button switch moved to location bottom-right of spreadsheet-rows
  - Input-window increased to full width of screen

### Swapping

- 7.03.21 Swapping from a form without dataset (X-dataset specified) to another form without dataset improved
- 7.03.16 Integrated swapping between 2L Form and SVG Viewer improved
- 6.03.30 Swapping to another form with a searchstring is enhanced:
  - If a matching record in the new form could be found, this record will become the active record.
  - If no matching record can be found, a new record will automatically be added (if this is allowed for the form) and prefilled for corresponding fields
  - If no matching record could be found, and adding was not allowed, an appropriate error message will be given, and a swap back to the original form will be executed.
- 6.03.07 Timers can now be used with forms/sheets after swapping
- 6.01.16 All default/copy values will be re-initialized after swapping to a new form

### Drivers

- 7.01.04 Improved handling on driver exits and form/driver reactivation from task manager
- 6.12.15 Improved handling on driver exits and form/driver reactivation from task manager further improved in 7.01.04
- 6.12.14 Driver-screens that were moved by the user, will not be closed (cancelled) any more
- 6.08.08 Commands DRIVER and RUN improved for WM5.0 (e.g. Archer)

### Input Controls

- 7.02.13 Improved validation with start- and end-functions of input-fields. It is now almost impossible to bypass the validation checks for changed input fields.
- 7.02.13 Incorrect values (like - or 7-3 or 3+8) will not be accepted as proper input values (Error : wrong format).
- 6.12.07/08 # not allowed as input character
- 6.11.07 All pending or new user actions (mouse clicks, keyboard inputs etc.) will be removed from the windows message queue after a swap action, until the new form/sheet is ready to handle new user input  
So a button click in the old form, does not generate an action in the new form.
- 6.11.06 Better/faster handling of keyboard input in L-field
- 6.04.27/28 Form selection with \*dataset does work even if there is no dataset yet
- 6.03.28 You can now use spaces in a formula, e.g. 12 + 7
- 6.03.03 automatic conversion of decimal point ( , naar .) in N-fields !!
- 6.02.28 Calculation of standaard deviation now based on SD for population (conform calculation in 2L Field XP)
- 6.02.28 Saving data of Stack-fields now works fine
- 6.02.28 Better handling on selction of datasets
- 6.02.01/03 improved checking on input (D- and N-fields) via commands
  - SETVAL + D-field (see 6.02.21)
  - automatic formatting for max. number of decimals (N-fields)

- 6.01.03 Doubly defined fields are handled properly now
- 6.01.03 Auto-format for N-field using the specified decimals
- 6.01.03 Automatic refresh of spreadsheet after running a command-file in which field-values have been changed.

### Commands

- 7.02.13 New system variable `_HHID` introduced. This will hold the units unique SerialNumber (or the cards unique manufacturer Id).
- 7.02.02 Bug in system variable `_MONTH` fixed
- 7.01.15/19 `GET(NEXT)SEARCHREC` can now handle conditions like:
  - `>12`
  - `<=55`
  - `26>=`
- 6.12.15 `ADDTOLISTML` improved splitting up of long lines  
Note, the min.length is 4, the max. lengt is 99 characters
- 6.12.07/08 Commands using a space for fieldnames now fail  
(e.g. `SETFOCUS` )
- 6.12.07/08 `NEXTFIELD` when switching to the next screen, will now try to set the input focus on the first input field (A-, N- or M-field)
- 6.12.07/08 Improved handling of `EDITMODE` command  
`T(RUE)` or 1 switches `EDITMODE` on  
`F(ALSE)` or 0 switches `EDITMODE` off  
any other value will result in a FAIL
- 6.04.20 `ADDTOLISTML` improved to handle long memo lines
- 6.02.08/09 Commands `HIDE <field>` and `SHOW <field>` implemented in spreadsheet-mode
- 6.02.08/09 `SETFOCUS` command improved for situations where form-definition and dataset do not match

### User Interface

- 7.02.13 Automatic backup functionality changed.  
Backup-files will now be saved in a folder `Backup\` on the Memory card (CF/SD/Internal) as specified by `2Linit`.  
In the root folder of a normal CF- or SD-card, only about 110 backup-files could be saved, whereas in het backup-folder up to 999 backup-files can be saved. This ensures more then 3 years of backup without user interference (at a rate of 300 working days per year).
- 6.12.14 The keyboard-popup button will now be redisplayed automatically on (re)activation of each 2L-module
- 6.12.07/08 On startup of the form
  - the first real input field on screen 1 (if possible) will be set as input field
  - `SETFOCUS <field>` will automatically change to another screen if necessary
- 6.10.11 2L and 2Linit adapted to full vga ce units (CF08)
- 6.03.28 Buttons with % in their description, will not be displayed automatically in a smaller font
- 6.03.28 Buttons without startfunction (so without any real action) will still be shown in spreadsheet.
- 6.01.30 Project/main menu  
Trying to start a non-existing project or form now shows an appropriate error message.
- 6.01.03 Order of columns in spreadsheet conform the order as specified in the form/sheet definition

### Bugs / crashes solved

- 7.04.04 Adding records to a filtered dataset in spreadsheet now works correctly**
- 7.03.15 When a form uses a X as dataset (meaning no real dataset should be used), the dataset will not be saved any more.
- 7.03.15 Cancellation of debugging will now restore the cursor properly
- 7.03.15 The command DISPWIDTH can now handle hidden fields
- 7.03.05 Improved Driver handling.  
When a driver is finished correctly (e.g. Barcode scanner did scan a correct barcode), 2L does not try to restart the same driver again.  
This problem did occur mainly in the spreadsheet module, both could also occur in the form module.
- 7.03.02 Checking in input for N-fields improved.  
N-fields with empty values (by means of SETVAL <field> []) do not generate a "wrong input format" error any more.
- 7.03.01 Crash (stack overflow) solved in Sheet module, the crash occurred during execution of a command file as endfunction of an input field.
- 7.03.01 Command +P improved with forms displaying only buttons.
- 7.03.01 Stack overflow crash in 2LSheet solved
- 6.12.07/08 Error in \_HHMM and \_HHMMSS variables solved
- 6.11.28 Crash on too long memofield (> 200 characters) solved  
Memofield can now contain up to 250 characters
- 6.05.29 Commands SETVAL, SET, SETFIELD en LOAD to a registervariable in combination with a Read-only dataset (Edit-allowed = 0) now function again.  
This was incorrectly disabled in version 6.02.x.
- 6.05.17 Problem solved with saving entry in last input field
- 6.04.27/28 Problem with SETVAL <Nfield> %<Cfield>% with the value of CField < 10 is solved, by first trimming this Value
- 6.04.06 Problem solved for situation where the end-function of an input field and the start function of a Button are the same. When this field has the input focus and you press the button, only the end-function of the input field will be executed.
- 6.03.30 The INCLUDE command now includes the commands into the present command file in correct order.
- 6.03.03 runtime error (stack overflow) on ce.net units solved
- 6.02.21 D-fields can be automatically filled again using commands like :
  - SET, SETVAL, SETFIELD
  - SETMIDSTR, SETSUBSTR, SETSUBVAL
  - GETSREC
This was blocked in 6.02.01

### New Functionalities

- 6.11.08/09 New Date/Time variables introduced
- 6.08.08 New Date/Time variables:  
existing variables : \_DATE \_TIME \_DATETIME \_HHMM and \_HHMMSS%  
new variables :  
\_DAY (day of the month, ranging from 01 to 31)  
\_MONTH (month of the year, ranging from 01 to 12)  
\_YEAR (year, 4 digits)  
\_YYYYMMDD (formatted year month day)  
\_DDMMYYYY% (formatted day month year)  
\_MMDDYYYY% (formatted month day year)
- 6.05.31 Introduction of 2L Field EVALUATION version.  
Restrictions compared to 2L Field
  - no actual data-saving to disk
  - no logging
  - no backup
  - fail on save savelist etc.

- 6.01.20 Implementation of real Memo-fields
- 6.01.03 Autosave (Form settings) implemented.  
With autosave On, any changes in a record will result in a full saving of the dataset when switching to another record

**Other**

- 7.02.13 Better checking on List-only values.
- 7.02.13 Better checking on Numeric input fields.
- 7.02.13 Changing the date- or time format (using SAVETOREG DATEFORMAT <DateFormat> and SAVETOREG TIMEFORMAT <TimeFormat>) now immediately take effect.
- 7.01.03 Improved adaptation of main- and project screens to 320x240 display
- 6.12.15 System-variable `_FORMNAME` (re)implemented (equal to `_FORM`)

## Release notes **2L Field XP 6.01.01 to 7.05.07**

### Spreadsheet

- 7.04.12 Improved handling in spreadsheet module
  - The end-function of an input field will now also be called when you selected to add a new record
  - If the 2nd column of your dataset was specified as hidden, this column will not be used as default return column any more
- 6.03.28 Spreadsheet will instantly be redrawn when using a scrolling or record changing command in a command file (FIRST,NEXT,LAST,PREV, GETINDEX, FINDVALUE etc)
- 6.03.28 The last column in the spreadsheet will also be displayed in the correct with (as defined in the form definition)
- 6.03.28 Each time a (new) spreadsheet is started, the menu will be recreated to contain the menu-functions available for the new spreadsheet.
- 6.03.28 The x-button in the spreadsheet now works.
- 6.02.22 Calculated fields will also be rounded off in spreadsheet mode to the amount of decimals as specified for the field
- 6.02.22 Command END properly implemented in spreadsheet mode

### Form module

- 6.04.04 SETFOCUS use in a start-command file will not be overruled by the automatic focus on the first input field

### Swapping

- 7.01.12 Swapping to other forms now removes all fields, lists and texts from the previous form.
- 6.11.03 On swapping from form to sheet and back to form, the input fields will be emptied before filling from swap-record
- 6.05.29 When a swap command (FORM/SHEET) is executed from a startfunction, end-functions (if present) will NOT be executed any more.
- 6.04.25 On swapping back from sheet, the original form will not retain the dataset that was used with the spreadsheet any more, but will load its original dataset again.
- 6.04.04 On swapping back from a spreadsheet, the form will be opened again with the input set to the first input field
- 6.03.29 Swapping procedure with searchstring now uses swap.dta to be able to add and prefill a new record (as in CE)
- 6.02.24 Swapping from form without filter to sheet with filter and back to form now works ok

### Input Controls

- 7.02.14 Improved validation checks on Numeric input fields : incorrect non-numeric values will not be accepted.
- 7.01.12 Copy/paste (followed by Enter !!) does change the actual value of an individual field.
- 6.11.03 Better handling of saving data combined with start- and end-function of inputfields
- 6.10.11 S-field now works properly with external list
- 6.04.03 Saving of data at closing of the form/sheet compatible with CE version.
- 6.03.30 List-only input with coded lists now work ok
- 6.03.21 Fields with default values will be prefilled with their defaults, even if these fields are not present in the dataset. Field values filled in using a start command file will be retained, the changes recorded and saved.  
This also works in spreadsheet mode.
- 6.03.22 Fields with default values will be prefilled with their defaults, even if these fields are not present in the dataset.
- 6.02.27/28 Stack-field will now save its changes through the ADDTOLIST command

- 6.02.22 Better handling of undefined datafields and form-only input fields.
- 6.02.21 Registry commands now really work with the units registry
- 6.01.20 Memo-fields implemented
- 6.01.11 tm 13 Better field type specific input checking

### Commands

- 7.04.11 Command GETSEARCHREC on the first datacolumn can now handle a searchstring based on more columns  
e.g. GETSEARCHREC 0 MYDATASET.DAT B12#U7
- 7.01.19 GET(NEXT)SEARCHREC command extended to be able to use "reverse condition"  
12<=
- 7.01.16 GET(NEXT)SEARCHREC command extended with conditional search  
>12  
>=88 etc.
- 6.11.08 Empty lines (with spaces!!) in cmd-file now acts like a real empty line
- 6.11.03 GETINDEX now works, even when the first datacolumn is different from the first inputfield
- 6.09.26 FINDVALUE and GETSEARCHREC can now be used with [] to search for empty fields
- 6.09.26 EMPTY(FIELD) does NOT considers the value '0' as empty any more
- 6.04.21 SORT command on external dataset now works ok  
Dataset-handling will be done now, using the full path name of the datafile.
- 6.04.20 SORT command on internal dataset now works fine
- 6.04.20 ADDTOLISTML command now fully compatible with CE-version
- 6.03.23 SETVAL command now failes (as in CE) when using a non-existing field
- 6.03.22 You can now use date-differences to fill numeric input fields:  
SETVAL NFIELD %DATE1%-%DATE2%
- 6.03.16 FAIL in FORM + SHEET  
The FAIL command does not continue with the next ONFAIL :Label in de CMD-fileany more
- 6.02.23 Check on fail build into endfunctions
- 6.01.16 SETVAL via user command in D-field blocked  
overruled in 6.02.21
- 6.01.16 NEXTFIELD command on last input field does not automatically continues with the next record
- 6.01.16 SETFIELD Index Value implemented
- 6.01.14 BEEP implemented
- 6.01.14 EDIT + EDITMODE improved
- 6.01.14 SETVAL in C/D veld disabled  
overruled in 6.02.21

### User Interface

- 7.01.15 Open lists will now be closed on any non-list action
- 6.11.08 Added error message on opening wrong forms/datasets
- 6.11.07 Added error messages on opening empty forms/sheets
- 6.11.07 Menu-texts now language independant
- 6.11.07 Shorter file menu (like in CE) if no dataset is being used
- 6.11.07 Record menu hidden when no data-fields are being used
- 6.11.07 Click on List-pulldown now toggles the visibility of the list
- 6.11.07 Click on list-pulldown also sets the list-index
- 6.11.07 Up/down automatically starts scrolling through the items in the list
- 6.11.03 When using a dataset (DAT file) as list, the header will not be shown in the list
- 6.09.26 Check on existence of promptfiles during program-start. The program will give an error message (in English) and stops.
- 6.09.26 Registration-screen now shows proper prompts
- 6.07.04 Version now visible in project screen

- 6.07.04 Commands ERROR, ALERT and CONFIRM now pop-up as an extended Dialog-screen. You cannot use the keyboard (Enter/Esc) any more to continue, but you have to use the mouse (or press the screen).
- 6.06.26 Watermark added to 2L Evaluation version
- 6.03.22 Menu-buttons without description, now show the button-name in the Extra menu
- 6.03.22 When you open an empty dataset (or use a filter which contains 0 records):
  - you can add a new record now.
  - In the form pages the fieldnames are not shown any more
  - In the spreadsheet, input values will not be overwritten with empty values
- 6.03.21 Buttons are now being displayed in their specified font
- 6.03.16 Menu in SHEET
  - The menu in the spreadsheet is not shown any more, if this was disabled in the form/sheet design (as in CE)
- 6.02.22 Centering items now works
- 6.01.31 Error-messages for
  - startup with unknown project/form
  - startup with empty dataset
  - wrong value in C-fields
- 6.01.10 Autoselect 1 form implemented :
- 6.01.10 Remember last form/dataset implemented :

### **Bugs / crashes solved**

- 7.02.14 L-field handling in spreadsheet with non-english language versions corrected
- 7.01.16 Page-submenu error removed
- 6.11.07 Crash in incompatibility between user-button en pulldown icon solved
- 6.04.04 System variable `_FORMNAME` (reference to the name of the active form) now works like `_FORM`
- 6.04.03 Changes in inputfields using the Del-key are now properly registered as changes
- 6.02.27/28 Icon and Picture display, and Icon-click problem from previous version solved
- 6.02.23 Calculations do not use the first datafield any more if a reference value was empty
  - It will now return a 0 in the formula
- 6.02.23 When you enter data in the last visible row (after scrolling) in the spreadsheet, the data will now be saved in the correct row/record
- 6.02.22 Command that create files (COPYFILE, LOG, SAVE, APPEND) no longer create these files in the 2L Projects folder
- 6.02.21 A [sellist] (DOS only) part in a form definition does not add e new screen page in a form any more
- 6.02.21 Commands SET, SETVAL, SETFIELD, SETSUBVAL, SETMIDSTR, SETSUBSTR en GETSREC can now be used again with D-type fields
- 6.02.21 Dataset columns, not defined in the form, do not generate an error (Field <Field> NOT FOUND!!) any more
- 6.02.21 New input in N-fields does not generate incorrect errors any more
- 6.01.19 Read-only dataset (with/without filter) now shows data-values
- 6.01.10 Dataset named in form definition will now be used as dataset

### **New Functionalities**

- 7.02.14 DRIVER command implemented
- 6.11.08 Extension of system variables (mainly date/time)
- 6.08.08 Date variables added : `_DAY` `_MONTH` and `_YEAR`
- 6.08.08 Time variable added : `_HH`
- 6.06.20 Evaluation version of 2L Field XP now available
- 6.05.12/17 2L Field XP language independant. it uses 2 prompt files 2lxp.txt and 2lformxp.txt
- 6.02.27/28 Demo version `_2l_field_demo` available.
- 6.02.22 Autosave function implemented
- 6.01.11 tm 13 Timer functions implemented

- 6.01.11 tm 13 Random function implemented
- 6.01.11 tm 13 Change Field position + show/hide field commands implemented
- 6.01.05 Versioninfo implemented

**Other**

- 7.02.15 Handling registry variables improved:  
User specified Date- and Timeformats now really saved to the registry  
(SAVETOREG DATEFORMAT <DateFormat> and SAVETOREG TIMEFORMAT  
<TimeFormat>)  
Registry handling towards drivers (<Resultfile> and <Inputfield>) implemented
- 7.01.16 Improved Error-messages with lists, filters and decimals
- 6.02.27/28 Better check on creating a new dataset.
- 6.02.01/08 Improved compatibility with CE
  - Missing commands implemented
  - Order of columns in spreadsheet changed to CE
  - Timers implemented
- 6.01.31 Read-only also implemented for L-, S- and M-fields

## Release notes **2L Connect** 6.06.30 to 7.03.30

- 7.03.30 Automatic conversion modules between DAT and CSV updated.  
Using INI files you can specify your own field-separator instead of the default ';'.
- 7.03.28 File transfer indicator positioned at the center of the main monitor
- 7.02.26 Improved handling of command REMOTE PROJECT <anyprojectname>
- 7.02.20 2L Connect will close with an exit code, when started as script  
Exit codes are:  
0 Script was completed without errors  
-1 2L Connect could not connect to HH  
-2 Error in script
- 7.02.20 Command LOADFROMREG does not fail when used with a D-field
- 7.02.16 New command GETHHPROJECTSLIST  
This command creates a file (HHPROJECTS.LST), listing all projects available on the HH
- 7.02.16 New command CLOSE  
This command will automatically close the 2L Connect script, without the user having to press the OK button.  
Command only works in automatic script mode, when the script could be completed without errors.
- 6.06.30 New command RUN <Program> (<Parameter>)  
Start <Program> (with parameters)  
<Program> must be available either in the active directory or in the 2L\_Connect-directory  
The script will wait for the program to finish.  
If the program is cancelled, the script will fail.
- 6.06.30 New command REMOTE PROJECT <Project>  
Select <Project> on the handheld. (In the 2L Projects folder)  
If <Project> does not exist, create this project.

# Release Notes **2L** Drivers 6.05.04 to 7.04.03

## A Barcode drivers

### A1 with bluetooth/serial link

- 6.12.14 2L Forms/sheets calling user-drivers, calling the barcode-driver, do not re-activate the 2L Form on exit, but will try to re-activate the user-driver.  
Driver within driver functionality  
2L Forms/sheets calling the barcode driver, will be reactivated normally on driver-exit.

### A2 Internal/integrated barcode-drivers without keyboard wedge

#### A2.1 Internal Scanner for Q100

- 6.12.11 Driver within driver functionality added

#### A 2.2 Internal Scanner for Q200

- 7.04.03 Faster handling on user break (Cancel button)  
7.03.21 Improved handling on task swapping between other non-2l applications  
6.08.29/30 Build in check on battery-level before scanner is activated.  
Because activation with low battery power can lock up the unit, scanning will only be activated with at least 20% power remaining.  
With less power remaining an error message will be displayed, and scanning is not possible.

### A3 Default barcode driver

- 7.02.14 Internal scanner that have been installed via keyboard input, can now be handled by the BARCODE driver.  
Any keyboard input string will be handled as if scanned.

## B Dynatel driver

- 6.06.12 Added support for bluetooth link

## C GPS driver GPSWPRD

- 7.04.02 Driver will now stop on user break in a 2L Form/ Sheet  
6.05.23 Added support for bluetooth via BSP ports  
6.10.27 New registry variables for GPS-statistics  
GPSX, GPSY for last recorded X and Y positions (in RD)  
GPSZ for last recorded Z-position  
GPSN number of satellites at last measurement  
GPSD dgps type at last measurement  
GPSHDOP hdop value at last measurement  
6.11.01 Faster comms-timer implemented

## D LightningRod driver (bluetooth transponder scanner)

- 6.07.24 Added support for bluetooth via BSP or COM  
6.08.03 Finetuning for Windows Mobile 5.0

## E Mettler driver

- 6.06.29  
New driver introduced METTLER\_C, based on Mettler.  
Driver will not close on exit, but will stay loaded/active during datacollection.

### **F Sartorius weighing scale driver**

- 6.05.04 Negative weights can now be handled
- 6.05.10 Logging (for test) disabled
- 6.06.29 SARTORIUS.INI implemented

### **G COMMS (Default serial comms driver, to be used with 2L Comms Manager)**

- 7.03.08 After a user break (Cancel button) or an error during initialisation, the COMMS driver now