



# Newsletter Kernel

Microsoft Dynamics C5 2012  
Service Pack 2

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## Introduction

The Microsoft Dynamics C5 2012 SP2 kernel C5 4.4.2.415 contains fixes for a number of bugs that have been reported since release of the Microsoft Dynamics C5 2012 SP1 HF3 kernel C5 4.4.1.371, and a number of minor improvements.

## Reports

### Use arrow up and down + mouse wheel to browse page up and down when printing to screen in GUI

Arrow up and down + mouse wheel can now browse beyond page boundaries when printing to screen in GUI.

### Report tags on free text fields

Report tags are now available on free text fields.

Auto tags are not available.

### Support for Copy (SHIFT + F5), Move (CTRL + F5) and Delete field (ALT + F9 and DEL) on free text fields in report editor.

Free text fields can now be copied, moved and deleted like other report fields.

Free text label fields starting with "@" will auto-mark like other report fields, and can only be edited using F6.

Other free text fields will auto-mark on commands Copy (SHIFT + F5), Move (CTRL + F5) and Delete field (ALT + F9)

### Support for <output>, <dataset> and <RecID> on line type 3 and <RecID> on linetype 2 in print intermediate file format

The layout of the intermediate file format now looks like this:

0: <userid>,<type>,<desc>,<date>

1: <pageno>,<numlines>

2: <linetype>,<dataset>,<level>,[<level1 fieldHdl>,<level2 fieldHdl>,....],RecID

3: <startpos>,<fieldType>,<length>,<fieldHdl>,<flags>,<value>,<report field type>,<report field type subtype>,<autotag>,<specified tag>,<output>,<dataset>,<RecID>

4: <codeType>,<codeName>

5: <codeType>,<codeName>,<position>

Report field type // 0=No-field, 8=Expression, 9=Free-text, 10=Pagebreak

Report field type subtype // If fieldtype==8, then subtype=0 is XAL, subtype=1 is DBTXT

### Label language in reports

Bug: Labels specified as/in field expressions do not follow the report language

Example #ReportDatePage does not follow report language.

This has been fixed.

Bug: Languages set by the system function SetLanguageExt cannot be used with report process calls

The language for a report can be set in 2 different ways:

1) By using a CONTROL command directly in the report e.g.

CONTROL 'LANGUAGE Standard'

2) By specifying language when calling a report using process call e.g.

PROCESS 15 'Report=ReportName LANGUAGE=Standard'

Both ways now works as intended.

Report label language and report name added to parameters passed to SysEReport.FNC

Report label language in clear text e.g. (Tysk) will be passed as parameter 8.

Report name will be passed as parameter 9.

## XAL

### Introduction of global variable &TIMERXAL to indicate timer launched XALs.

&TIMERXAL works like &BATCHID and can e.g. be used to suppress modal dialogs in timer executed XALs.

### Old Bugs

2 very old bugs have recently been discovered and fixed

MODE=RUNSYS does not work for UXL

When you export a DBD where you have a post-script on the field the script is not included in the export file.

### PRD element is not imported correctly in the VAR- layer if element already exist in USR-layer.

This has been fixed.

Caution: Do not use XXX-layer edit codes as run-time codes.

All user adjustments will end up in that XXX-layer.

### GUI default XAL PRINT window size increased from 80 X 25 to 120 X 45

WINDOW command not longer limited to max 80 X 25 on GUI.

Max on GUI is WINDOW 250,250.

No change to console.

### ALT+H and ALT+S in XAL editor (code) now works in DOS OEM codepage - ALT+H and ALT+S in Notes editor now works in ANSI codepage

When saving marked text in Notes editor to file or text is inserted from file in Notes editor ANSI codepage is used/expected.

When saving marked text in XAL editor to file or text is inserted from file in XAL editor DOS OEM codepage is used/expected.

\*.\* file filter in both operations.

### Directory command called in a Save mode (64+) does not recognize file types

File filter now works as intended.

Non C5 file format descriptions fetched from OS.

## GUI

### Matrix menu

Previously menu bitmaps m\_XXX.bmp, menu cursor bitmaps mb\_XXX.bmp and #Frm\_ShowBitmap loaded bitmaps were scaled with destructive stretch, resulting in poor image quality.

These bitmaps are now stretched with HALFTONE.

Bitmaps are searched in all -d start up parameter locations.

Variable font size in GUI matrix menu

Column- and row header fonts now switches between Windows Menu Font (Smaller) and Windows Caption Font (Larger) based on available space in each column- and row header cell.

### Brush up on bitmap buttons.

Bitmap button will now be created even when no bmp file is specified or specified bmp file cannot be found.

Bitmaps are searched in all -d start up parameter locations.

The following CONTROL commands only applies to bitmap buttons.

Support for setting font color and background color to attribute based colors via CONTROL command

```
//Use property from attribute system
```

```
#LOCALMACRO.Frm_FONTCOLORV      #Frm_BlkVarCmd('FONTCOL',%1,%2)+' '+Int2Str(%3) #ENDMACRO
#LOCALMACRO.Frm_FONTV            #Frm_BlkVarCmd('FONT',%1,%2)+' '+Int2Str(%3) #ENDMACRO
```

Support for setting font color and background color to RGB based colors via CONTROL command.

```
//Set colors with RGB
#LOCALMACRO.Frm_COLORRGBV      #Frm_BlkVarCmd('COLOR',%1,%2)+' '+Int2Str(%3)+' '+Int2Str(%4)+' '+Int2Str(%5)
#ENDMACRO
#LOCALMACRO.Frm_FONTCOLORRGBV #Frm_BlkVarCmd('FONTCOL',%1,%2)+' '+Int2Str(%3)+' '+Int2Str(%4)+'
'+Int2Str(%5) #ENDMACRO
```

Support for setting font specification via CONTROL command.

```
//Set fonts with font specification
//Weight
#LOCALMACRO.FW_DONTCARE      0          #ENDMACRO
#LOCALMACRO.FW_THIN         100         #ENDMACRO
#LOCALMACRO.FW_EXTRALIGHT   200         #ENDMACRO
#LOCALMACRO.FW_LIGHT        300         #ENDMACRO
#LOCALMACRO.FW_NORMAL       400         #ENDMACRO
#LOCALMACRO.FW_MEDIUM       500         #ENDMACRO
#LOCALMACRO.FW_SEMIBOLD     600         #ENDMACRO
#LOCALMACRO.FW_BOLD         700         #ENDMACRO
#LOCALMACRO.FW_EXTRABOLD    800         #ENDMACRO
#LOCALMACRO.FW_HEAVY        900         #ENDMACRO

//Style
#LOCALMACRO.FS_DONTCARE      0x0000      #ENDMACRO
#LOCALMACRO.FS_ITALIC       0x0001      #ENDMACRO
#LOCALMACRO.FS_UNDERLINE    0x0002      #ENDMACRO
#LOCALMACRO.FS_STRIKEOUT    0x0004      #ENDMACRO

//Set fonts with font specification
#LOCALMACRO.Frm_FONTSPECV #Frm_BlkVarCmd('FONT',%1,%2)+' '+%3+' '+Int2Str(%4*10)+' '+Int2Str(%5)+'
'+Int2Str(%6) #ENDMACRO
```

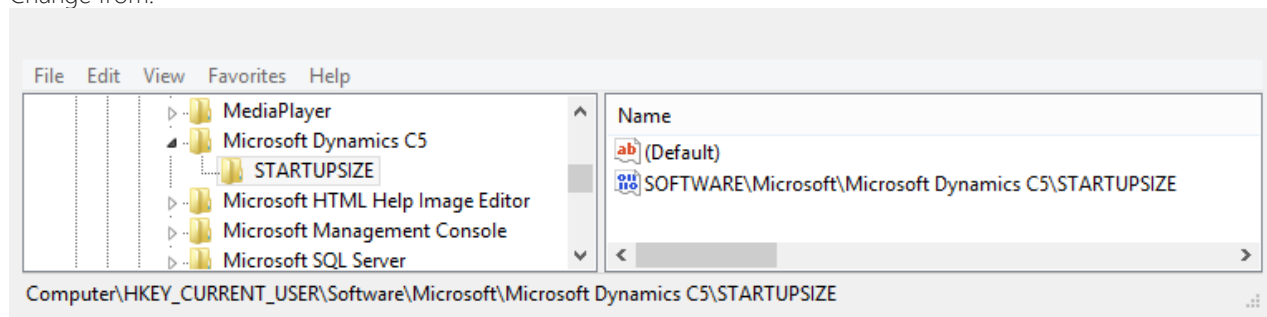
Alignment of fields

Adjustments have been made to all field types, so layout made in console form editor matches better with form rendering in GUI kernel.

## OS related

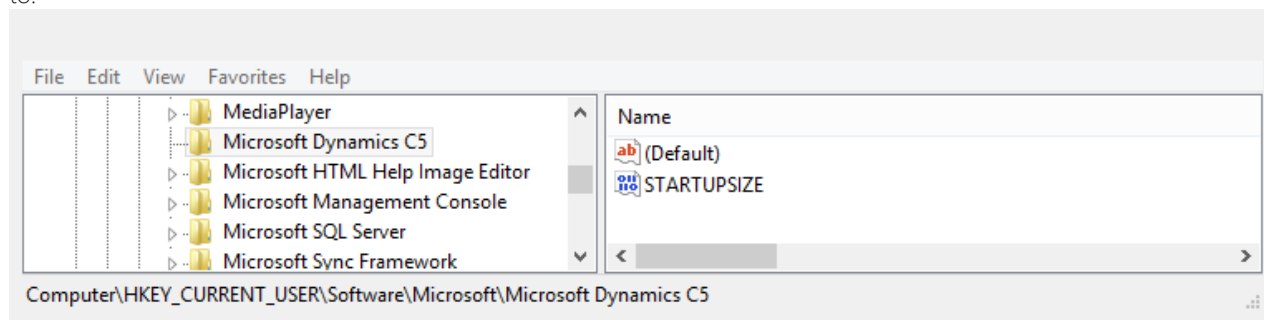
### Clean up of STARTUPSIZE registry key

Change from:



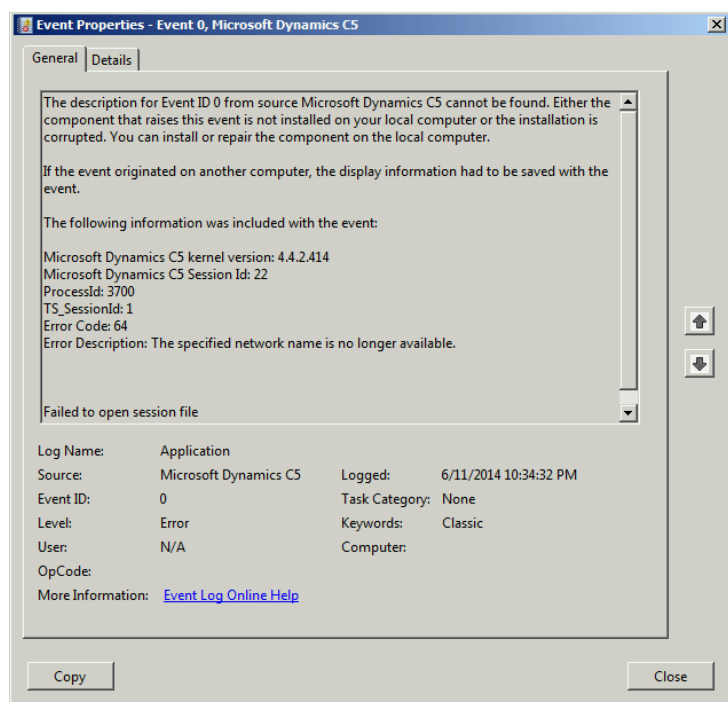


to:



## Output error description in EventLog entries

Error description has now been added to EvenLog entries for easy identification of problem cause



## Change to SysInfo 1110 to enable count of C5 user-printers excluding STANDARD-WINDOWS (GUI) or Standard (Console)

Exposed in the C5 application in SYSTEM\_INFORMATION.MAC:

```
//Returns number of C5 user-printers excluding STANDARD-WINDOWS (GUI) or Standard (Console)
```

```
#LOCALMACRO.GetUsrPrinterCnt Str2Int(SysInfo(1110, '-1')) #ENDMACRO
```

## Login with.(dot) and user printer = loop by new grp.

Windows domain names and corresponding C5 user names containing . (dot) causes loop when adding new C5 user group. This has been fixed.

## SMB issues – changes to HeartBeat functionality

### What is the HeartBeat functionality (introduced in C5 2012 SP1)?

The kernels write a heartbeat every 2 minutes to the C5 session file (c5user.c5s).

This helps keeping the network connection between client computer and file server alive.

This has solved issues in many cases with random disconnects.

The default interval is 2 minutes (120s) but can be overridden with a –HB startup parameter (e.g. –HB60).

Valid values are from 0 to 30\*60 (30 minutes).

Setting the value to 0 disables the heartbeat.

There is a minimum heartbeat interval of 30 seconds.

### Changes to HeartBeat functionality (introduced in C5 2012 SP2)

Since release of Windows 8/ Windows Server 2012 we have received sporadic reports of disconnect problems typically related to introduction of Windows 8 client computers.

Remember to observe that client operating systems have a default autodisconnect setting of 10 min. and server operating systems have a default autodisconnect setting of 15 min.

Autodisconnect on server operating systems can be switched off by setting autodisconnect to -1.

On client operating systems autodisconnect cannot be switched off, but can be set to a very high number.

Please refer to knowledge base article kb297684 for further information:

<http://support.microsoft.com/kb/297684>

Observed problems are (currently) believed to be related to the fact that 5 revisions of the SMB protocol are now in circulation.

Platform	SMB version
Windows XP/ Windows Server 2003	SMB 1.0
Windows Vista/ Windows Server 2008	SMB 2.0
Windows 7/ Windows Server 2008 R2	SMB 2.1
Windows 8/ Windows Server 2012	SMB 3.0
Windows 8.1/ Windows Server 2012 R2	SMB 3.02

The Microsoft Dynamics C5 2012 SP2 kernel now allows a disconnected C5 kernel to make 1 attempt to reconnect to the C5 session file c5user.c5s.

Long duration test with C5 installation residing on server network share and clients computers starting C5 using UNC path to server share from all above mentioned operating systems, have (so far) shown:

Platform	Prone to disconnects	Ability to reconnect
Windows XP/ Windows Server 2003	Not observed	Not observed
Windows Vista/ Windows Server 2008	Very probable	Not probable
Windows 7/ Windows Server 2008 R2	Probable	Very probable
Windows 8/ Windows Server 2012	Not observed	Not observed
Windows 8.1/ Windows Server 2012 R2	Not observed	Not observed

Recommendation from above is:

Platform	Recommendation	Comment
Windows XP/ Windows Server 2003	Not Recommended	Not supported on C5 2012
Windows Vista/ Windows Server 2008	Not Recommended	
Windows 7/ Windows Server 2008 R2	Recommended	
Windows 8/ Windows Server 2012	Recommended	
Windows 8.1/ Windows Server 2012 R2	Recommended	

**Remember that KillTest is now implemented in the kernel (introduced in C5 2012 SP1).**

The functionality of the script KillTest.XAL was implemented in the kernel in C5 2012 SP1.

The default interval is 2 minutes (120s) but can be overridden with a -KT startup parameter (e.g. -KT60). Valid values are from 0 to 30\*60 (30 minutes).

Setting the value to 0 disables kernel implemented KillTest.

There is a minimum KillTest interval of 30 seconds.

The kernel implemented KillTest functionality has an improved ability over the classic KillTest.XAL to close blocking application elements that prevents a clean shutdown of the C5 kernel.

**Supported platforms and drivers**

Check the Statement of Database Compatibility for Microsoft Dynamics C5:

<https://mbs.microsoft.com/customersource/Denmark/C5/learning/documentation/system-requirements/StatementofdatabasecompatibilityMicrosoftDynamicsC5>



## Fix List

Bug Id	Title	Comment
61189	Bug: #Frm_RUNMODE('MODAL') does not work correctly.	Fixed
61246	PRD element is not imported correctly in the VAR- layer.	Fixed
61248	Font in note has changed after SP1.	Fixed
61304	Bug: When you export a DBD where you have a post-script on the field the script is not included in the export file.	Fixed
61305	Login with.(dot) and user printer = loop by new grp.	Fixed
2781	Forms look strange in Console after resizing in GUI	Fixed
2810	When minimizing the Sidebar the sidebar is in the upper right corner	Fixed
2969	DW Bucket -879716612: Crash caused by D5W32.EXE!get_dim_of_line in D5W32.EXE	Fixed
3064	The same user printer is duplicated in the printer list for every application layer where it is registered	Fixed
3095	Use arrow up and down + mouse wheel to browse page up and down when printing to screen in GUI	Fixed
3122	Crash in Console editor when typing 1 character at pos 251.	Fixed
3124	Report tags on free text fields	Fixed
3125	Show error when sysalb cannot be renamed to sysald	Fixed
3126	Introduction of global variable &TIMERXAL to indicate timer launched XALs.	Fixed
3127	DW Bucket -332117897: Crash caused by D5W32.EXE!get_dim_of_line in D5W32.EXE	Fixed
3128	Support for Copy (SHIFT + F5), Move (CTRL + F5) and Delete field (ALT + F9 and DEL) on free text fields in report editor	Fixed
3131	Support for >,<output>,<dataset> and <RecID> on line type 3 and <RecID> on linetype 2 in print intermediate file format	Fixed
3133	DW Bucket -305315567: Crash caused by D5W32.EXE!Hash in D5W32.EXE	Fixed
3134	Different behaviour when changing Data set from the Title bar or from General, Setup, Change data set	Fixed
3136	Bug in #CurSessNum (SysInfo 3009)	Fixed
3140	Handling of Touch Mouse in forms	Fixed
3150	Crash in C5W32.exe!formField::VBXFieldInfo() after user adjustment has been introduced in Employee.FRM	Fixed
3151	Reports: Labels specified as/in field expressions do not follow the report language	Fixed
3152	Add report label language and report name to parameters passed to SysEReport.FNC	Fixed
3153	Languages set by the system function SetLanguageExt cannot be used with report process calls	Fixed
3157	MODE=RUNSYS does not work for UXL	Fixed
3160	Improvements to Matrix menu	Fixed
3162	Field tag property is available on form free texts	Fixed
3169	Change to SysInfo 1110 to enable count of C5 user-printers excluding STANDARD-WINDOWS (GUI) or Standard (Console)	Fixed

3170	Change to default xal print window and WINDOW command	Fixed
3180	Directory command called in a Save mode (64+) does not recognize file types	Fixed
3185	Change of Str2Int from being atol based to being _atoi64 based	Fixed
3186	ALT+H and ALT+S in XAL editor (code) should work in DOS OEM codepage - ALT+H and ALT+S in Notes should work in ANSI codepage	Fixed
3188	COMAPI internal stacks changed to handle mapkeys instead of pointers.	Fixed
3189	Brush up on bitmap buttons.	Fixed
3195	When running language UK it is not possible to startup C5 - error message telling Message = 0 in c5txtdat,uk	Fixed
3199	Clean up of STARTUPSIZE registry key	Fixed
3204	Output error description in EventLog writes	Fixed
3210	Allow C5 to reconnect to session file once if network connection temporarily is lost	Fixed

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