CitectSCADA 7.0

Release Notes for Service Pack 2

Important	
must	
Incremental Compile	(in Project Editor \rightarrow Tools \rightarrow Options)
Important:	

Important:

Table 1 - French and German Period field changes in Service Pack 2

French	No change.	 Days of the week change from French to English. Month names change from lower-case to title-case. Day of the month format changes from BB BB
German	Day of the month format changes from BB BB	 Days of the week change from German to English. Day of the month format changes from BB BB

Known Issues:

Table 2 - Known Issues

40882	v7 IDC crashes after uninstalling v7 service pack

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Service Pack Installation

Upgrading CitectSCADA 7.0 to So	ervice Pack 2
Existing CitectSCADA version 7.0 patch file "	Users ".
New CitectSCADA 7.0 Users	
Run patch file "	"
Upgrading CitectSCADA 7.0 Web	Server to Service Pack 2
n	patch file "
	emove Programs) by choosing Start→Settings→Control Panel→Add or
•	CitectSCADA_Cab_Install' and click 'Remove'. If this item is not listed %windir%\system32\citect\webclient\700 NB: %windir% ult windows installation directory.)
t.	' Client Control
Upgrading CitectSCADA 7.0 IDC	to Service Pack 2
	patch file "

Microsoft Windows XP SP2 or Microsoft Windows Server 2003

Open ARP (Add or Remove Programs) by choosing Start→Settings→Control Panel→Add or Remove

the 'Show Updates' checkbox is ticked as follows:

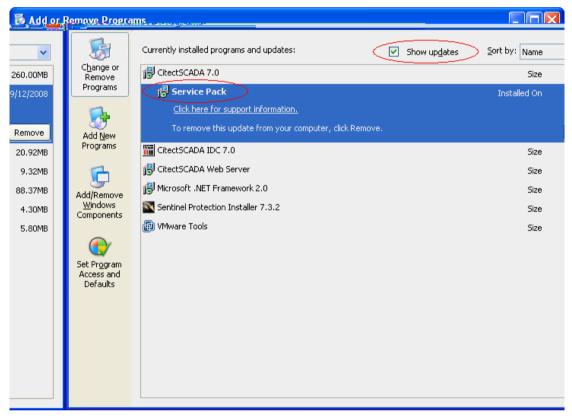


Figure 1: Service Pack visible as an update

item and click 'Remove'.

emoval is complete, highlight the parent product's entry (in this case ' ') and click the underlined link 'Click here for support information'. The following popup will

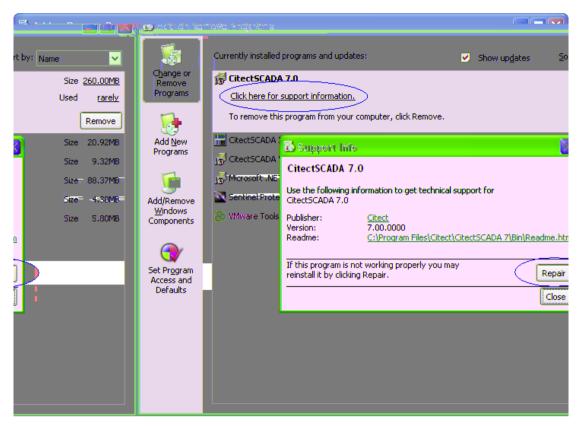


Figure 2: Support Info dialog in Windows XP SP2 and Windows 2003 Click 'Repair'.

Microsoft Windows XP SP1 or earlier or Microsoft Windows 2000

The 'Show Updates' feature of

Start
$$\rightarrow$$
 "cmd" \rightarrow

Table 3 - Service Pack 2 manual uninstall commands

Product	Uninstall Command

Open ARP (Add/Remove Programs) by choosing Start→Settings→Co Panel→Add/Remove Programs (or press F5 to refresh if already open).

Highlight the parent product's entry (in ') and click the ed link 'Click here for support information'. The following popup will appear:

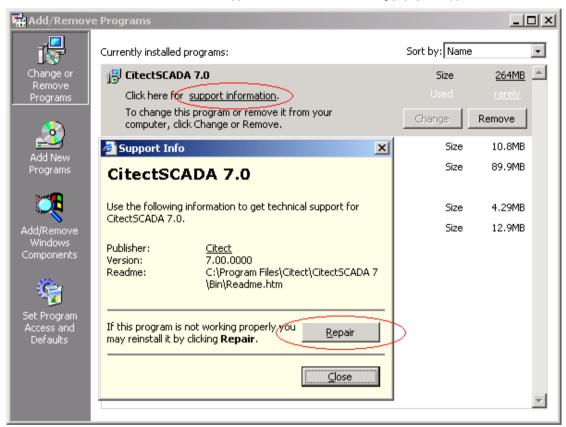


Figure 3: Support Info dialog in Windows XP SP1 and Windows 2000 Click 'Repair'.

Updated Files – CitectSCADA - IDC

CitectSCADA IDC

Install Path and File updated	Notes
CommonFilesFolder\Citect\Ct_ipc.dll	
CommonFilesFolder\Citect\CtApi.dll	
CommonFilesFolder\Citect\CtEng32.dll	
CommonFilesFolder\Citect\CtUtil32.dll	
ProgramFilesFolder\Citect\CitectSCADA IDC 7.0\Bin\Citect32.exe	
ProgramFilesFolder\Citect\CitectSCADA IDC 7.0\Bin\Client.dll	
ProgramFilesFolder\Citect\CitectSCADA IDC 7.0\Bin\CSAPSI.dll	
ProgramFilesFolder\Citect\CitectSCADA IDC 7.0\Bin\Ct_ipc.dll	
ProgramFilesFolder\Citect\CitectSCADA IDC 7.0\Bin\CtApi.dll	
ProgramFilesFolder\Citect\CitectSCADA IDC 7.0\Bin\Ctcomdlg.dll	
ProgramFilesFolder\Citect\CitectSCADA IDC 7.0\Bin\CtEng32.dll	
ProgramFilesFolder\Citect\CitectSCADA IDC 7.0\Bin\Ctg32.dll	
ProgramFilesFolder\Citect\CitectSCADA IDC 7.0\Bin\CtKC.dll	
ProgramFilesFolder\Citect\CitectSCADA IDC 7.0\Bin\CtRender.dll	
ProgramFilesFolder\Citect\CitectSCADA IDC 7.0\Bin\CtUtil32.dll	
ProgramFilesFolder\Citect\CitectSCADA IDC 7.0\Bin\CtVersion.dll	
ProgramFilesFolder\Citect\CitectSCADA IDC 7.0\Bin\CtVersion.xml	
ProgramFilesFolder\Citect\CitectSCADA IDC 7.0\Bin\Dlg32.dll	
ProgramFilesFolder\Citect\CitectSCADA IDC 7.0\Bin\Rscite32.exe	
ProgramFilesFolder\Citect\CitectSCADA IDC 7.0\Bin\RuntimeConfiguration.dll	
ProgramFilesFolder\Citect\CitectSCADA IDC 7.0\Bin\Techdo32.dll	
Citect.Platform.DatasourceDevelopmentKit.BaseDatasource.dll	
Citect.Platform.Logging.TraceListeners.dll	
Citect.Platform.PSI.Interfaces.dll	
Citect.Platform.PSI.PSIClient.dll	
Citect.Platform.Net.Session.Tcpip.dll	
Citect.Platform.Net.SessionManager.dll	
CommonFilesFolder\Citect\Ctres32.dll	German install only
ProgramFilesFolder\Citect\CitectSCADA IDC 7.0\Bin\Ctres32.dll	German install only
CommonFilesFolder\Citect\Ctres32.dll	French install only
ProgramFilesFolder\Citect\CitectSCADA IDC 7.0\Bin\Ctres32.dll	French install only
CommonFilesFolder\Citect\CtRes32.DLL	English install only
ProgramFilesFolder\Citect\CitectSCADA IDC 7.0\Bin\CtRes32.DLL	English install only

CitectSCADA SCADA

Install Path and File updated	Notes
CommonAppDataFolder\Citect\CitectSCADA\Data\CSV_Example.ctz	
CommonAppDataFolder \Citect\CitectSCADA\Data\CSV InstantTrend.ctz	
CommonAppDataFolder_\Citect\CitectSCADA\User\CSV_Include\!CSV_AlarmConfig.ctF	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\!CSV_AlarmConfig.ctg	
CommonAppDataFolder \Citect\CitectSCADA\User\CSV Include\!CSV AlarmFilterAdv.ctF	
CommonAppDataFolder_\Citect\CitectSCADA\User\CSV_Include\!CSV_AlarmFilterAdv.ctg	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\!CSV_AlarmInfo.ctF	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\!CSV_AlarmInfo.ctg	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\!CSV_MenuConfig.ctF	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\!CSV_MenuConfig.ctg	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\!CSV_MenuEdit.ctF	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\!CSV_MenuEdit.ctg	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\!CSV_RefreshingDataMessage.ctF	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\!CSV_RefreshingDataMessage.ctg	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\!CSV_Splash.ctF	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\!CSV_Splash.ctg	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\!CSV_TrendConfig.ctF	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\!CSV_TrendConfig.ctg	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\!CSV_TrendPopup.ctF	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\!CSV_TrendPopup.ctg	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\activex.DBF	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\activex.NDX	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\changes.DBF	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\CSV_AdminTools.ctF	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\CSV_AdminTools.ctg	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\CSV_Alarm.ctF	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\CSV_Alarm.ctg	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\CSV_Alarms.ci	
$_Common App Data Folder _\ Citect \ Can A \ User \ CSV_Include \ CSV_Alarm Disabled.ctF$	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\CSV_AlarmDisabled.ctg	
$_Common App Data Folder _\ Citect \ Can A \ User \ CSV_Include \ CSV_Alarm Hardware.ct Full Folder \ Alarm Hardware \ CSV_Include \ CSV_Alarm Hardware \ C$	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\CSV_AlarmHardware.ctg	
$_Common App DataFolder_\Citect \Citect SCADA \User \CSV_Include \CSV_Alarm Summary.ct F$	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\CSV_AlarmSummary.ctg	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\CSV_Analyst.ctF	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\CSV_Analyst.ctg	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\CSV_File.ctF	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\CSV_File.ctg	
$_Common App Data Folder _\ Citect \ Can A \ User \ CSV_Include \ CSV_MultiMonitors. ci$	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\CSV_Start.ctF	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\CSV_Start.ctg	

CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\CSV_Trend.ctF	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\CSV_Trend.ctg	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\CSV_TrendDouble.ctF	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\CSV_TrendDouble.ctg	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\pages.DBF	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\pgbutton.DBF	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\pgkey.DBF	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\PGLANG.NDX	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\pgtouch.DBF	
CommonAppDataFolder\Citect\CitectSCADA\User\CSV_Include\xp_style.ctt	
CommonAppDataFolder\Citect\CitectSCADA\User\Include\citect.ci	
CommonAppDataFolder\Citect\CitectSCADA\User\Include\zoom.ci	
CommonAppDataFolder\Citect\CitectSCADA\User\System\HARDALM.DBF	
CommonAppDataFolder\Citect\CitectSCADA\User\System\HARDALM.txt	
CommonFilesFolder\Citect\CiMitsubishiTagBrowse.dll	
CommonFilesFolder\Citect\CiOPCDrv.dll	
CommonFilesFolder\Citect\CiTrendArchiveFileOffset.dll	
CommonFilesFolder\Citect\CiTrendArchiveFileOffset8Byte.dll	
CommonFilesFolder\Citect\CiTrendArchiveInterpolator.dll	
CommonFilesFolder\Citect\CiTrendManager.dll	
CommonFilesFolder\Citect\Ct_ipc.dll	
CommonFilesFolder\Citect\CtApi.dll	
CommonFilesFolder\Citect\CtEng32.dll	
CommonFilesFolder\Citect\CTODBC32.dll	
CommonFilesFolder\Citect\CtRes32.DLL	
CommonFilesFolder\Citect\CtUtil32.dll	
CommonFilesFolder\Citect\DatabaseExchange.ocx	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\AlarmServer.dll	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\Citect32.exe	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\Citect32.exe.config	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\Client.dll	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\CSAPSI.dll	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\Ct_ipc.dll	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\CtApi.dll	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\CtBack32.exe	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\CtCicode.exe	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\CtCmp32.exe	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\Ctcomdlg.dll	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\CtDraw32.exe	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\CtEdit32.exe	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\CtEng32.dll	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\CtExplor.exe	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\Ctg32.dll	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\CtIndex.dll	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\CtKC.dll	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\CtMenu32.dll	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\CtProj.dll	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\CtRender.dll	
Cita of CCADA varian 7.0 Coming Dock 2	

ProgramFilesFolder\Citect\CitectSCADA 7\Bin\CtSetup.exe	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\CtUtil32.dll	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\CtVersion.dll	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\CtVersion.xml	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\Diskdrv.dll	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\Dlg32.dll	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\ERRSTR.DBF	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\ERRSTR.NDX	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\ExprWiz.exe	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\FtpSvr.exe	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\FUNC0.DBF	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\IOConnectors.dll	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\loServer.dll	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\ReIndex.exe	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\ReportServer.dll	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\Rscite32.exe	
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\RuntimeConfiguration.dll	

Added Files - CitectSCADA - SCADA

CitectSCADA SCADA

Install Path and File added	Notes
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\HELP.DBF	German install only
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\HELP.NDX	German install only
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\STREND.DBF	German install only
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\HELP.DBF	French install only
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\HELP.NDX	French install only
ProgramFilesFolder\Citect\CitectSCADA 7\Bin\STREND.DBF	French install only

Added Files - CitectSCADA - Web Server

CitectSCADA WebServer

Install Path and File added

Issues Resolved in this Service Pack

before

30175	"Wrong Type For Text Display" Hardware Alarms When Calling CSV_Alarms_PopupMenu
	A user triggers a popup via right clicking on one of the alarms from the section displaying the last 3 alarms on a CSV page and selecting the tag name. The popup opens correctly but displays the hardware alarm "Wrong Type For Text Display". This has now been resolved.
32388	The project editor find and replace feature closes graphics pages unexpectedly
	When the project editor find and replace feature is used, any open graphic pages are closed even when nothing was replaced on the page. This issue has been resolved.
35410	Page Properties Dialogs have incorrect information on the Event Tab
	When there are multiple page properties dialogs open, the information on the Event tab shows the settings from the most recently opened dialog on all dialogs.
36328	Page Titles containing special characters are not displayed correctly in the toolbar Page-Back/ Forward drop-down menus.

37867 Trend file creation is slow At startup the trend server was throttling the rate at which trend files are created according to [Trend]BytesWrittenBeforeSleep (intended to be a runtime only throttle), and this value was being capped at 32768 bytes. This has been fixed by introducing a new parameter [Trend]FileCreationWriteSize to control the rate at which trend files are initialised (whether created at startup or runtime). Its default value is 16384 bytes, with valid values being in the range 1 to 2147483647. Internal testing has shown optimal performance with values of 327680 bytes or lower. File writes larger than this appear to be batched in chunks of 65536 bytes, reducing the performance benefit. Environmental factors may alter this threshold. 37874 Ocode function StrToLines() with maxchars "1" does not return anything StrToLines("AA BB CC",1,nLines) would return no lines when it should return six lines 38020 New modes in WinNewAt() and INI parameters for scrollbar removal To provide support for scrollbar removal and to disable scrolling, new modes are available in WinNewAt(). Global settings can be applied through citect.ini parameters. New WinNewAt() Modes (argument 3): 16384 - Hide the horizontal scroll bar. 32768 - Hide the vertical scroll bar. 65536 - Disable horizontal scrolling. 131072 - Disable vertical scrolling.

	In Citect Explorer, dynamically importing OPC tags from an OPC Server fails. This has now been fixed.
38644	Crash while calling Goode function "WinFree" in background Goode.
	This problem can arise when calling WinFree in background Cicode such as during the page event "while page shown". The issue has been resolved.
38748	Alarm updates not sent to redundant server when [ALARM] SaveStyle=4 set
	The implementation of the v7 UpdateStyle in the RedundantServer did not support alarm updates when SaveStyle=4. Thus the active server was sending updates but the redundant server was silently dropping them. This has now been fixed.
38750	Forced type conversion for super genie parameters when the type is specified
	If a super genie parameter has specific type, a type conversion operation is added by the compiler to the code so that pre v7 projects that have string values associated would work without change. Also the default value would be an empty string, when there is no association.
38792	Display dients crash intermittently when using Colour thresholds in rectangle fill.
	If rectangle fill uses colour thresholds, a user intermittently would experience a crash in the display client. This has been corrected.
38831	Otect crash when displaying a page with a symbol, which library name is longer than 31 characters
	A larger maximum length for library names is permitted
38833	Values are not being updated on Standby Write I/O Device on a single I/O Server.
	Standby Writes on a single I/O Server were being redirected to the currently Active Unit rather than special casing for *local* Standby Writes. This has now been resolved.
38996	Cannot write to some REAL (type) disk PLC tags using MODNET protocol.
	Due to differing IOServer and DISKDRV blocking algorithms, some IOServer calls lead to multiple Disk Command calls. If the address of a REAL tag happens to span two Disk Command blocks, then the REAL tag would fail validations checks. The checks are now performed using the IOServer blocks, instead.
40006	Report server may crash when using a group of devices as an output device
	An unnecessary assumption in the code - that output devices were always single devices - would lead to a crash in the report server when a group was used as an output device.

40385	Shutdown crash when there are pending tag writes.
	In some cases when the system is shut down while there is a pending write or in in rare cases asynchronous reads, then there will be a crash. This has been fixed.
40423	AlarmACK function does not support alarm categories larger than 255
	A logic error was introduced when refactoring the functions that handle alarm messages based on category. This problem has now been resolved.
40585	Multiple tag subscription callbacks result in "Out of Ocode threads" error.
	Each subscription callback event requires a new Cicode thread. Thus if multiple callbacks were triggered simultaneously, this would exhaust the pool of available threads, leading to an "Out of Cicode threads" error.
	This has been fixed by introducing a queueing mechanism to handle subscription callbacks in order to throttle the maximum number of callback threads that will execute simultaneously. This maximum is controllable by a Citect.ini parameter [Code]CallbackThreads with a range of 1 to 512 and a default of 5.
41134	IO Redundancy doesn't fail over until the primary server is completely shutdown
	Some systems will notice an extended delay (often 10 to 15 or more seconds) when switching from an active I/O server to a secondary I/O server when the SCADA system is shutdown cleanly. This was caused by the networking layer not being shutdown at an appropriate point in the shutdown sequence. This issue has now been fixed.
41604	'Startup Page' and 'Project List' dropdown lists in the Computer Setup Wizard are not sorted.
	The CBS_SORT style was added to the 'Startup Page' and 'Project Lists' dropdowns. This enhancement has been made.
42570	Writes for a StandbyWrite IO Device may be sent to the wrong IO Device
	Writes to a tag on a StandbyWrite IO Device may have been issued to the wrong IO Device. The last IO Device entry, for the same channel, in the IODevice form would receive the write request. This issue has now been rectified.
36365	Compile errors are produced with some Period field options in Project Editor forms
	For French and German Citect installations, compile errors are produced when certain Period field options are selected from the drop down list in Project Editor forms. Such forms include Trend Tags and Events.
	This problem has now been resolved.

	Alarm synchronization between redundant alarm servers was being done in an inefficient manner, leading to high CPU usage when starting a second server. This has now been corrected.
	Difficulties in reproducing this issue have meant internal testing has not been able to verify this fix.
38611	Crash at shutdown when using Ocode page handles
	User cicode functions that use window handles were not correctly handling shutdown situations, resulting in a crash at shutdown. This has now been fixed. Difficulties in reproducing this issue have meant internal testing has not been able to verify this fix.
39763	Active Alarms displaying at random on graphics in place of objects during runtime
39703	Active Alams displaying at fandom on graphics in place of objects during funtime
	When switching between pages that include active alarms, the alarm text can sent to a page that is not the page that requested the alarm text. This results in the text being displayed on other graphical objects. This issue is now resolved.
	Difficulties in reproducing this issue have meant internal testing has not been able to verify this fix.
41708	Standby Alarm Server crash
	A number of crashes have been fixed by correctly handling the communication of state changes to the redundant alarm server
	Difficulties in reproducing this issue have meant internal testing has not been able to verify this fix.

Originally resolved in Service Pack 1

	The CiCode function PageInfo(int) with argument 14 used in the web client can return incorrect values when either of the following two scenarios are satisfied: 1. When launching the web client window and not yet having manually resized it. 2. Manually resizing the base window so that scroll bars appear. This has been resolved.
36415	Alarms server hanging on start-up.
	During start-up of a project with a space in its name, the alarm server stops responding, with the Runtime manager displaying the message "Initializing Alarm System". This has now been fixed.
36446	AlarmComment() function does not work in v7.
	The AlarmComment CiCode function was broken in v7, resulting in comments not being saved. This has now been fixed.
36641	Otect SCADA Display Oient will not run if the path specified in the [Otedit] Copy parameter is unavailable.
	If the [CtEdit]Copy directory or any other needed Copy project directories are not available at start-up CitectSCADA will halt. This problem is now resolved.
36645	Hotkeys such as "Qrl + G" do not operate correctly for German installations
	Hotkeys such as "Ctrl + G" (Goto object in Graphics Builder) do not operate correctly for German installations. This problem has now been resolved.
36647	Heavy network traffic on display dient
	IO devices being offline results in heavy network traffic between display client and IOServer. This issue has now been resolved.
36658	Tracelog.dat may grow as large as 8GB, eventually leading to a crash
	IIIIS CAII DE OVEITIQUEII

	For a German Citect installation, when editing "Favorite Colors" in Graphics Builder, the color picker is missing. This problem has now been resolved.
36802	No protection for invalid arguments to SeepMS() and inaccurate sleep times
	CiCode function SleepMS() provided no protection for invalid, or negative, sleep periods. It was also possible, given precisely the right sleep time relative to the system clock, to cause a finite lock in the internal sleep mechanism. This could result in CiCode threads waking after their intended time. These problems have now been resolved.
36820	ctListRead not working for tag arrays
	The array support for ctListRead tags was accidentally removed in v7 when the interface was rewritten to fit the new IO model. This issue has now been resolved.
36822	Memory leak on #00M of an incorrect tag of a connected and correctly behaving PLC
	When attempting to communicate with a PLC using an incorrectly configured tag a memory leak could result. This issue has been resolved.
36846	SubscriptionGetAttribute always returns engineering values, regardless of ScaleMode set.
	The function SubscriptionGetAttribute with the sAttribute parameter set to "Value" always retrieves the engineering value, regardless of what was specified in the sScaleMode parameter passed to TagSubscribe. This issue has been resolved.
36857	Log message functionality doesn't work properly when used in v7 objects
	CitectSCADA was incorrectly truncating the log message for genies associated with an item in an array tag (e.g. tagA[2]) at the closing ']' character. This issue has been resolved.
36917	Alarm acknowledgements are lost on restart
	Restarting the alarm and IO servers results in analog and advanced alarms being retriggered. This issue has been resolved.
36958	Using the same tag with and without a duster causes incorrect point count
	The same tag defined with and without a cluster name will be counted twice in the point count. Now, when running in a single-cluster system, CitectSCADA ignores the cluster name when resolving tags, so that tags that are resolved with and without the cluster prefix will not be treated as two different tags, and thus will not be point counted twice.
36987	CSV_AlarmSummary Page does not display the full History of Alarms processed.
	When a user views the CSV_AlarmSummary page only a maximum of 17 pages of alarm history is viewable when there should be more. This problem is now resolved.
37134	Hundreds of calls to DspFont() can result in a Ottect crash

	A large number of calls to CiCode function DspFont(), typically in the hundreds, can result in a Citect crash. This problem has now been resolved.
37146	MailSend() with attachments failing
	Using MailSend() with attachments in v7 generates an MAPI error 12. This issue has been resolved.
37205	Alarm server does not detect duplicate ids or tags in ALMINDEXSAVE DAT
	Alarm index file corruption was not detected at start-up, potentially leading to lost alarm save information. Now, CitectSCADA checks the index file at start-up, and will report the following error message if corruption is detected: "Failed to load the Alarm Save file. The file 'ALMINDEXSAVE.DAT' was corrupt or invalid. Citect could not be started."
37287	Using string tags on pages or in CCode leads to a memory leak
	A change in the way string tags are handled in v7 caused a substantial memory leak when they are used in CiCode expressions (including page display). This issue has now been resolved.
37305	Using the AlarmSetInfo() a Code function to sort two pages of alarms by state then by priority causes incorrect results
	When the user sorts a list of alarms that spans across two pages via the AlarmSetInfo CiCode function, using the sort keys state and priority the sorting of the alarms is incorrect. This problem is now resolved.
37314	The 'Unity Fastlinx User Documentation.pdf' file is not readable
	The 'Unity Fastlinx User Documentation.pdf' file supplied with the product is not readable. This file is located in the product BIN directory. The PDF file has been rebuilt and is now readable.
37391	Tag Subscription initially returns stale cache value with Quality set to Good
	On a Tag Subcribe a new subscription is created with a Tag Value Quality corresponding to the cached value from a previous subscription of the tag. Thus any client is initially given the stale cache value with Quality set to Good. This has now been fixed.
37484	"Cannot write to read only variable" compile error with Bailey driver on v7
	Compiler support for the remapping functionality that the Bailey driver relies on was inadvertently removed from the CitectSCADA compiler. This functionality has now been restored.
37715	Forced type conversion for super genie parameters when the type is specified
	If a super genie parameter has specific type, a type conversion operation is added by the compiler to the code so that pre v7 projects that have string values associated would work without change. Also the default value would be an empty string, when there is no association.

37759	Unreliable or high-latency networks may result in high CPU for Tran.Task.Delay
	Networks where there is high packet-loss or high latency may experience an issue where server processes suffer unusually high CPU in the Tran.Task.Delay task. This is because connection attempts are timing out and not being correctly cleaned up. This issue has now been fixed.
37835	MsgBrdcst() aCode function does not support clustering
	The MsgBrdcst function was not updated to support clustering in v7. This function has now been modified to accept an optional 4th parameter for cluster name. If no cluster is specified, MsgBrdcst will lookup the currently active cluster as per the logic for MsgOpen.
37915	Using the AlarmSetInfo() Clode function alarms by state causes incorrect results
	When the user sorts a list of alarms using the AlarmSetInfo CiCode function, using the sort key state the sorting of the alarms are incorrect. This problem is now resolved.
37953	Using the AlarmSetInfo aCode function to filter by Category does not filter correctly
	When the user configures the AlarmSetInfo CiCode function to filter by category the incorrect alarms are displayed. This problem is now resolved.
37968	Write to an array tag that is failed by a driver displays the wrong value on the page
	If you attempt to write a value to an array tag that is failed by a driver, the value you attempted to write is display as the tag value on the page until you navigate off and back to that page. The expected behaviour is that the value on the page should revert to the correct value after the I/O server is notified of that the write failed. This issue has been resolved.
37969	AlarmSumDelete GCode does not delete an alarm from summary page as expected.
	When the user invokes the AlarmSumDelete CiCode function to delete an alarm from an alarm summary page it is not removed as expected. This problem is now resolved.
38041	TimeToStr(,3) returns the date in English instead of German
	Using TimeToStr() to retrieve the date returned incorrect English values due to missing localisation elements for German locale. This issue has been resolved.
38060	Calling WinNewAt() with no cluster specified results in incorrect behaviour with mode 128
Also resolves 37875	Calling CiCode function WinNewAt() with no cluster specified and mode 128 "Open a unique further windows of that type to be opened.
38169	This problem has now been resolved. Local variable Tag Quality is never set to Good
30109	Lucai variable Tay Quality is nevel set to Guou

	Local variable Tag Quality is never set to Good. This affects the display of all tag on a page with a local variable Tag. This has now been fixed.
38255	Security vulnerability when on port 20222 (ODBC)
	An intentionally malformed packet can cause a buffer overrun when directed at B
	Users are reminded to run Citect as intended on a secure isolated network.
38274	Start-up errors running the Alarm Server on a remote machine using [QEdit]Copy/Run
	The Alarm Server in the past required access to master.dbf, a file residing only on the compile-time machine and not copied with [CtEdit]Copy/Run. This dependency has now been removed and the problem resolved.
38314	Pop-up page not being recognized as a Child of the Parent Window
	When a pop-up page is opened for the first time, it fails to set whether it should be a Child of the Parent Window or not. For example using either the WinNewAt() or AssWin() CiCode functions with their Mode Parameters set to 1 (Page Child Window), a second call was not closing the first Window. This has now been corrected.
38358	OCode AssChainWin function operates incorrectly after maximum number of windows first reached
	A number of CiCode functions, including AssChainWin(), create and use a pending Genie association with the next Window opened. If the window limit is reached this association is never completed and is erroneously used with the next successful window open. This issue has been resolved.
38361	The Quality of tags on IODevices which are running in Memory mode are never set to Good.
	The Quality of tags on IODevices which are running in Memory mode are never set to Good. This affects the display of all tags on any page with a tag from a memory IODevice. This has now been fixed.
38430	INT variable is evaluated in a OCode expression as having a value of 0 when device is offline
	Variables read by CiCode functions start as zero. Once read they retain the last value. If the IO device goes off line, they see the last value. A change of behaviour introduced in v7 meant that when Tag quality changed from Good to Bad it's value was cleared. This has been corrected to behave as earlier versions do.
38510	IOServer reclaims DOB's that may still be held by drivers, resulting in crash
	Under certain circumstances, usually involving a unit or units being offline, the IOServer reclaims a DCB that is being held by a driver. At some later point in time, the driver goes to process this DCB, which is no longer valid, and results in a crash. This has been fixed.
38559	Start-up error "Cannot locate include project"
	Correctly configured projects, typically employing the Add Project Link feature or [CtEdit]Copy/Run, could receive this error at start-up due to a fault in path reconstruction logic. This problem has now been resolved.

	Tags on IO devices with background polling enabled are not going to #COM on the display clients graphics page when the device is disabled using the IODeviceControl CiCode function. This issue has been resolved
40413	Oftect FTP Server is protected against malicious input and does not show IDC credentials.
	The socket data read from the Citect FTP server is better validated to protect against intentional misuse, such as sending malformed data in format string or buffer overflow attacks. In addition, the credentials used by the IDC are no longer stored in the module or loaded image. The credentials have not changed but are constructed and freed as needed to decrease their visibility.
41154	Default [kernel] Error Buffers value increased from 200 to 1000
	The default value of the [Kernel]ErrorBuffers parameter has been increased from 200 to 1000. Traces are sent to the syslog.dat file by a background task and when the pending messages to print exceed the buffer count, the messages are lost.
41195	ctTagWrite() always returns immediately with a result of TRUE
	ctTagWrite() does not wait for the write to complete but always returns immediately with TRUE. This has now been fixed. Large numbers of consecutive writes will incur a performance degradation. To work-around this, users may use the asynchronous version of this function (ctTagWriteEx with a valid CTOVERLAPPED structure).
41654	Using standby devices results in slow I/O updates
	An error in the initialisation of standby devices at IOServer start-up results in slow page updates when retrieving data from standby devices. This issue has now been fixed.
42098	[Code]WriteLocal=0 does not work for page or user subscriptions
	Subscriptions automatically created for pages, as well as manually created by calling the TagSubscribe cicode function, were not honouring the [Code]WriteLocal parameter. Instead they were being forced to update the local cache on any write.