



P069-3_0-RN
TaskCentre V4.5 Service Release 3a
Release Notes
Document Version 3.0

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Revision History

Date	Name	Version	Comments
24/11/09	Paul Garratt	0.1	First draft
20/1/2010	Paul Garratt	0.2	Minor revisions following reviews
18/2/2010	Paul Garratt	0.3	Final additions prior to release
19/2/2010	Paul Garratt	0.4	Minor revisions following reviews
19/2/2010	Paul Garratt	1.0	First Issue release of 4.5 SR3
25/2/2010	Paul Garratt	1.1	Draft including improved upgrade instruction if MS XML 6 is not present. Warning include regarding unmapped parameter variables.
26/2/2010	Paul Garratt	2.0	Second Issue
5/3/2010	Paul Garratt	2.1	Added IIS restart information.
8/3/2010	Paul Garratt	3.0	First Issue release of 4.5 SR3a.

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Introduction

Purpose of the document

To describe the new functionality and issues resolved in TaskCentre 4.5 Service Release 3a.

Build Information

TaskCentre V4.5 Service Release 3 (Build 800) is a full release of TaskCentre. All components will now have the version number 4.5.800.0.

New Features

The following new features have been added in TaskCentre 4.5 Service Release 3.

8972 – Support for Microsoft Windows Server 2008

TaskCentre server, client and all distributed components are now supported on Microsoft Windows Server 2008 platforms. N.B. this does not include the R2 edition which is based on the Windows 7 code stream. Support for this is planned for service release 4.

The supported operating systems for the TaskCentre server, SMTP Agent, myTaskCentre, Workflow Agent and Web Service are:-

	4.5 SR2	4.5 SR2 Hotfix G and higher	4.5 SR3 (this release)	4.5 SR4	Future unnamed
W2000 Server SP4	Y	Y	Y	Y	N
W2000 Pro SP4	N	N	N	N	N
WME	N	N	N	N	N
W XP Pro x32	Y	Y	N	N	N
W XP Pro x64	N	N	N	N	N
W2003 SP1 x32	Y	Y	Y	Y	Y
W2003 x64	N	N	Y	Y	Y
W Vista x32	Y*	Y*	N	N	N
W Vista x64	N	N	N	N	N
W2008 x32	N	Y	Y	Y	Y
W2008 x64	N	N	Y	Y	Y
W7	N	N	N	N	N
W2008 R2	N	N	N	Y	Y

* Not SMTP Agent

The supported operating systems for the TaskCentre Client and Data Modeller are: -

	4.5 SR2	4.5 SR2 Hotfix G and higher	4.5 SR3 (this release)	4.5 SR4	Future unnamed
W2000 Server SP4	Y	Y	Y	Y	N
W2000 Pro SP4	Y	Y	Y	Y	N
WME	N	N	N	N	N
W XP Pro x32	Y	Y	Y	Y	Y
W XP Pro x64	N	N	Y	Y	Y
W2003 SP1 x32	Y	Y	Y	Y	Y
W2003 x64	N	N	Y	Y	Y
W Vista x32	Y	Y	Y	Y	Y
W Vista x64	N	N	Y	Y	Y
W2008 x32	N	Y	Y	Y	Y
W2008 x64	N	N	Y	Y	Y
W7	N	N	N	Y	Y
W2008 R2	N	N	N	Y	Y

The supported operating systems for the Microsoft SQL Server Agent are dependent on the version of SQL Server only.

For a full list of the software dependencies please see the system dependencies in the Orbis Software website partner area.

8587 – Support for Microsoft SQL Server 2008

This release makes Microsoft SQL Server 2008 a supported database, both as a database for the TaskCentre store and for use with the TaskCentre tools.

The editions currently available are as follows and support is included for all except the Compact edition: -

Core Editions

Enterprise

Standard

Specialised Editions

Workgroup

Web

Developer

Free Editions

Express

Three new data types are supported; datetimeoffset, time and xml.

Previous releases of TaskCentre were dependant on DMO which is not included in SQL Server 2008 and is only available as a backward compatibility pack. This dependency has been removed.

The data type UDT (User Defined Data) is excluded from support at this release. This data type is used for storing large objects in the database and is not relevant to TaskCentre.

The databases that can be used for the TaskCentre store are as follows: -

	4.5 SR2	4.5 SR2 Hotfix G and higher	4.5 SR3 (this release)	4.5 SR4	Future unnamed
Internal Store	Y	Y	Y	Y	N
SQL Server 2000	Y	Y	Y	Y	N
SQL Server 2005 x32	Y	Y	Y	Y	Y
SQL Server 2005 x64	N	N	Y	Y	Y
SQL Server 2008 x 32	N	N	Y	Y	Y
SQL Server 2008 x 64	N	N	Y	Y	Y
SQL Server 2008 R2	N	N	N	N	Y

The databases that the SQL trigger agent can be installed on are as follows: -

	4.5 SR2	4.5 SR2 Hotfix G and higher	4.5 SR3 (this release)	4.5 SR4	Future unnamed
MS SQL Server					
2000	Y	Y	Y	Y	Y
2005 x32	Y	Y	Y	Y	Y
2005 x64	Y	Y	Y	Y	Y
2008 x 32	N	N	Y	Y	Y
2008 x 64	N	N	Y	Y	Y
2008 R2	N	N	N	N	Y

8828 – 64 Bit Compatibility

TaskCentre server, client and all distributed components are now supported on 64 bit platforms. Primarily the areas that have been changed for this support are: -

SMTP Event Agent

Call COM Object Execute Tool

Workflow Job Agent

TaskCentre API

This has resulted in a single new 64 bit compatible TaskCentre server product (not separate 64 bit and 32 bit versions) which will run using 32 bit emulation (WOW64). When

installed the 64 bit compatible TaskCentre server will be able to communicate with both 64 bit and 32 bit external systems through agents installed in these environments.

8937 – SQL Trigger Agent Queue

The SQL Trigger Agent component now has the ability to queue trigger events on the machine where the agent is installed. This means that if the TaskCentre server is not available at the time of the event then the event will queue until it is able to communicate. This change will also improve the responsiveness of the database with which the agent is working. This change brings this agent in line architecturally with all other TaskCentre agents.

8859 – Installer / Configurator

This release includes the introduction of a new installer program. The previous installer was becoming difficult to upgrade when new features were added to TaskCentre. The new version has a cut down installer program which installs the selected components and then launches the new Configurator application. This application guides the user through the configuration of the installed components highlighting and assisting in the configuration of supporting technologies. It has been architected to be readily extensible for new functionality in the future.

7794 – Support for Microsoft Internet Explorer 8

The myTaskCentre web client is now supported on Microsoft Internet Explorer 8. No functional changes have been made.

8974 – Support for .Net Versions 3.0 and 3.5

One of the following versions of the .Net framework is required for the TaskCentre Server, Client and Data Modeller: -

.Net Version	4.5 SR2	4.5 SR2 Hotfix G and higher	4.5 SR3 (this release)	4.5 SR4	Future unnamed
2.0	N	N	N	N	N
2.0 SP1	N	N	Y	Y	Y
3.0	N	N	Y	Y	Y
3.5	N	N	Y	Y	Y
4.0	N	N	N	N	Y

One of the following versions of the .Net framework are required for myTaskCentre, the Workflow Agent and Web Service: -

.Net Version	4.5 SR2	4.5 SR2 Hotfix G and higher	4.5 SR3 (this release)	4.5 SR4	Future unnamed
2.0	N	N	N	N	N
2.0 SP1	Y	Y	Y	Y	Y

3.0	N	N	Y	Y	Y
3.5	N	N	Y	Y	Y
4.0	N	N	N	N	Y

9277 – XML Conversion Toolpack Integration

The XML Conversion Tool pack was released as an add on pack of tools for TaskCentre 4.5 SR2. The tools included in this toolpack were:-

- Recordset to XML – this tool consumes one or more recordsets produced by other TaskCentre tools and converts them into an XML document. The XML document can have a hierarchical structure of parents and children. It can be consumed by connector tools communicating with other systems, the XML to recordset tool below, or saved to disk by the Save as File tool.
- XML to Recordset – this tool consumes an XML document produced by other TaskCentre tools such as connector tools running queries or producing error XML and converts it into a recordset. The recordset is then available for consumption by the many TaskCentre tools that consume this output.

These tools are now part of the standard TaskCentre product (subject to appropriate tool licensing).

7941 – Crystal Reports 2008 Toolpack Integration

The Crystal Reports 2008 Tool pack was released as an add on pack of tools for TaskCentre 4.5 SR2. This tool pack made the existing Run Crystal Report tool compatible with Crystal Reports 12 (2008), so reports developed with this version can now be run by TaskCentre.

It is no longer necessary to have a copy of Crystal Reports installed on the TaskCentre server if the reports have been developed in Crystal Reports 12(2008). A runtime version of Crystal Reports is supplied.

This tool compatibility is now part of the standard TaskCentre product (subject to appropriate tool licensing).

Server Performance Improvements

A series of optimisations have been made to the TaskCentre Server in order to increase the throughput achievable. The details of these changes are included in the issues resolved chapter.

6517 - Security Control for Memory Providers

Separate security control is now available for memory providers. Memory providers write into databases so need greater access than that given to query tools. Connections for this purpose are configured under the System/Tools/Memory Providers node. A new tab has been added to the user maintenance in TaskCentre, 'Memory Access'. For OLEDB Memory, Call Stored Procedure Memory and ODBC Memory the 'Advanced' button now allows specific access to be granted to specific connections for specific users.

Issues Resolved

4.5 Service Release 3a

The following issues have been resolved in this release: -

Issue Number	36316
Title	Imported E-mail Addresses incorrect
Description	Where tasks had been imported to a server with a different address book this could have resulted in the e-mails sent having the wrong addressees.

Issue Number	36321
Title	Server Upgrade Error
Description	During the upgrade server would not start if the store contained tasks not modified since TaskCentre version 3.

4.5 Service Release 3

The following issues have been resolved in this release: -

Server

Issue Number	9398
Title	CPU Usage
Description	The CPU usage has been reduced on the TaskCentre server when communicating with agents.

Issue Number	9601
Title	Task run initialisation can occasionally fail on busy systems.
Description	On particularly heavily loaded systems with high levels of network bandwidth use, tasks could fail to initialise due to communications problems with the TaskCentre server.

Issue Number	9602
Title	Failure mode logging improvements
Description	During the investigation of issue 9607, a number of fault logging improvements were made to the TaskCentre server.

Issue Number	9618
Title	Failed to access Task Runner for Task
Description	When running under very heavy load conditions the above warning could be generated in the TaskCentre event log due to an underlying operating system failure. This has been made less likely to occur.

Issue Number	9620
Title	Task was terminated or has unexpectedly aborted
Description	When running under very heavy load tasks could fail with error code 0x800706be.

Issue Number	9630
Title	Tasks locking up when XML tools are initialising.
Description	From time to time tasks were freezing during initialisation of the XML to Recordset tool. The task runner was making some unnecessary calls to the tool which added overhead and potentially could cause lock-ups.

Issue Number	9482
Title	Thread blocking
Description	Changes have been made to remove potential thread blocking scenarios.

Issue Number	9689
Title	Server crash at 0x0004162a
Description	This potential server crash has been eliminated.

Issue Number	9567
Title	Licence checking can disproportionately load system processor usage.
Description	This is an optimisation to reduce the amount of processing consumed by the licence checking process. On heavily loaded systems, this will free up more processor power for running tasks.

Issue Number	9703
Title	Unhandled exception at 0x00447337
Description	This unhandled exception in the TaskCentre server has been eliminated.

Issue Number	9869
Title	Reduced CPU usage
Description	The CPU usage of the server process has been reduced by reducing the notifications to TaskCentre clients.

Issue Number	9898
Title	Improved efficiency of user authentication
Description	The efficiency of user authentication against the store (TaskCentre client or workflow users) has been improved.

Issue Number	9929
Title	Server hangs during maintenance
Description	When running maintenance with a SQL Agent present it was possible that TaskCentre could hang. The condition that could occur under has been prevented.

Issue Number	9961
Title	iwtskrun.exe hung
Description	When the message "Queue task could not be executed (0x80041270)" is displayed clicking OK no longer causes the iwtskrun.exe process to hang.

Issue Number	9969
Title	Performance optimisation
Description	The efficiency of server processing task/action notifications has been improved.

Issue Number	9970
Title	Performance optimisation
Description	The default notifications to logged in API sessions have been reduced.

Issue Number	10093
Title	Message box causes task run to hang
Description	An error condition in a task run was occasionally causing the task to hang because it was trying to open a message box. This has been changed to write to the event log instead.

Issue Number	10035
Title	Server crash at 0x004b643d
Description	This potential server crash has been removed.

Issue Number	10046
Title	Server memory increase when client modal dialog open
Description	The server was using large amounts of memory when a client had a modal dialog open so was unable to receive notifications.

Issue Number	10051
Title	Warnings during maintenance
Description	Warning dialogs are no longer periodically displayed during maintenance when the user has taken no action.

Issue Number	10063
Title	Performance optimisation
Description	If the client to server link fails for any reason then the performance no longer degrades when the link is re-established due to the high number of notifications queued.

Issue Number	9950
Title	Server can crash when running under load with frequent maintenance
Description	When running under extremely high load with frequent maintenance, the server can occasionally terminate after a number of hours continuous running.

Issue Number	10001
Title	Server crash
Description	The unhandled exception at 0x00404111 has been removed.

Issue Number	10002
Title	Server Crash 0x0002cb15
Description	This server crash has been eliminated.

Issue Number	8558
Title	Server memory leak
Description	If the TaskCentre Client was opened, and navigated to Manage->Options and press OK button. Each time the Server was leaking about 50-150 kb of memory.

Issue Number	7742
Title	Continuously scheduled tasks stopping maintenance
Description	Continuously scheduled tasks with Call Stored Procedure steps were causing maintenance to not complete.

Issue Number	8979
Title	Store packing during maintenance
Description	When running on an internal store the store was not being packed sufficiently causing growth in the store.

Issue Number	9287
Title	Server crash during maintenance
Description	When running Send Message (SMTP) occasionally server crashes were being generated.

Issue Number	9130
Title	The TaskCentre Server continues to try to notify status events once connection is lost
Description	Related to 9564, in the event of a connection loss, the server was continuing to try to notify the lost client or agent of status changes. This was leading to large numbers of errors being logged.

Issue Number	8551
Title	Maintenance not completing with large TC event log
Description	The event log truncation has been improved allowing maintenance to complete.

Issue Number	9748
Title	Maintenance – Unexpected error during integrity checking
Description	Database Integrity Checker – Unexpected error during integrity checking (0x80040205)' no longer occurs.

SQL Server Store

Issue Number	7749
Title	Misleading error messages with TaskCentre SQL store
Description	The error message "Error while evaluating expression : The TaskAPI is not licensed on this server" has been changed to "Unable to schedule Task <Task Name> now. Server is in Maintenance Mode."

Issue Number	8527
Title	Client hung
Description	If TaskCentre is unable to establish a connection to SQL Server then the error message "Unable to establish a connection to the Server. Please check the connection details and Server availability" is now displayed.

Issue Number	9151
Title	Log purging on SQL Server
Description	TaskCentre Logs are now correctly purged when older than the number of days defined.

Issue Number	9024
Title	Additional internal store folder
Description	When running TaskCentre on a MS SQL Server store the first time that maintenance was run an superfluous folder "C:\iwdb" was being created. This is no longer created.

Issue Number	9996
Title	Memory leak
Description	The memory leak when running on a SQL Server store introduced in build 667 has been corrected.

Issue Number	9753
Title	Server stops processing
Description	Busy systems with large numbers of concurrent task runners operating in parallel using the SQL based store may encounter a deadlock scenario in SQL server which prevents tasks from completing.

Issue Number	9574
Title	MS SQL Server base Store performance degradation on busy systems
Description	Systems containing a very high throughput of concurrent task executions could experience performance degradation whilst using the MS SQL Server based store.

Issue Number	9488
Title	Task Execution Hangs
Description	Under certain heavy load conditions when accessing the repository when hosted on a SQL store, a lock scenario could occur which hung the task.

Issue Number	9599
Title	Memory slow with SQL store
Description	Accessing repositories can be significantly slower when using the SQL store as opposed to the internal store.

Issue Number	9978
Title	Performance optimisation
Description	An index hint has been added to a look up in the TaskCentre store to improve performance.

Issue Number	35640
Title	Memory leak running maintenance
Description	A small memory leak that was occurring when maintenance ran is no longer present.

Issue Number	35466
Title	SQL Store login not possible
Description	A transient residual lock could be left on part of the SQL store. This could manifest as an inability to log into TaskCentre using the client.

Task Import / Export

Issue Number	7904
Title	OleDb Connection persistence
Description	Where an OleDb connection existed with the same name as that used in an imported tasks these were not recognised and used during a task import.

Issue Number	8373
Title	Workflow Task - Cannot open task
Description	When importing workflow tasks built in an earlier version of TaskCentre the message "Cannot open task..." was sometimes displayed.

Issue Number	8256
Title	Memory Connections
Description	When importing tasks using memory the memory connections were not recognised even if a connection with the same name previously existed.

Issue Number	8272
Title	Error if importing into an earlier version of TaskCentre
Description	No error message was issued if trying to import a task created in a later version of TaskCentre than the current installation.

Issue Number	8767
Title	DB connections incorrect after import
Description	Where tasks are imported that use database connections, if the connections are not recreated in the same order as the originating TaskCentre then they were not connecting correctly.

TaskCentre API

Issue Number	9375
Title	Unable to use RunSync() when using SQL backend.
Description	Under certain circumstances tasks were freezing whilst performing pre-execution license checking.

Issue Number	10000
Title	Access to API
Description	Non-administrator users can call the TaskCentre API from other applications and not receive the error - permission denied (0x80070005).

Tool Stub

Issue Number	9666
Title	Failcount property
Description	The failcount property is now correctly updated when using tools created with the Tool SDK.

Issue Number	9732
Title	Tool API only allows tools to be mentioned in one category
Description	Allows the programmer to add their custom tool to as many TaskCentre tool categories as they require. This previously was restricted to one category.

Issue Number	9723
Title	.NET Formatters not working properly with Unicode data
Description	Tool API formatter tools which require Unicode to be passed through them may experience some data loss.

Issue Number	9856
Title	Object leak in Tool stub
Description	Tools created with the tool SDK no longer leave task runners running in the Windows task manager.

Issue Number	9481
Title	TIAPI .Net formatters with documents as attachments
Description	The document formatting events may be forwarded incorrectly if attempting to create a tool which accepts and generates a document using the TIAPI.

Issue Number	7507
Title	Task browser updated
Description	Tools created with the Tool SDK now correctly update the task browser when changes are made to the step (without having to save the task).

Issue Number	7461
Title	Mandatory source
Description	Both VB and C# tools created with the tool SDK now require a document source at runtime.

Issue Number	8548
Title	Multiple CLR tools using different versions of a Class Library.
Description	When multiple CLR tools were loaded into TaskCentre and they share a class library there is a problem when the class libraries differ (i.e. there are different versions of the class library for each tool). All tools other than the first tool use the class library instance created by the first tool, potentially causing problems if different versions of the Tool SDK exist.

Client

Issue Number	8016
Title	Client crash
Description	The potential client crash with the following error message "The instruction at 0x46dc629d referenced memory at 0x00000068. This memory could not be read." has been removed.

Issue Number	8074
Title	Clear search in Browser
Description	The clear search button in the task browser reference tab now correctly clears the value previously entered.

Issue Number	7045
Title	Event Log Close shortcut
Description	The shortcut alt+C was not closing the event log dialog.

Issue Number	8719
Title	Event log export to CSV
Description	Errors returned from tools written to the TaskCentre log were causing problems when exported to CSV files because of certain characters used.

Issue Number	8634
Title	Missing event log steps
Description	Where the same tool is used more than once in a task it was possible that only the last step would be reported in the TaskCentre event log. Now all steps are reported.

Issue Number	8623
Title	Client crash from repository search
Description	When adding a new repository with one attribute (without checking "Stored" box), using advanced search on the Data tab creating a rule with an empty first field, ">" for operator and any value for second field caused the client to crash in iwtssvc3.dll.

Issue Number	8550
Title	Task can't be opened (0x80041160)
Description	When a copy is made of a task and the task renamed, then a copy made of the renamed task this no longer results in the task being unable to open.

Issue Number	8547
Title	Expired licence keys
Description	An error message is now displayed if a user enters expired licence keys.

Issue Number	8454
Title	Look for - return key
Description	When text was typed in the look for box and the return key was pressed the search was not performed. Return and tab return now function as expected.

Issue Number	9129
Title	Agent as shortcut error
Description	If an agent is dragged in the client to the shortcut menu and the agent is clicked on there is no longer an error "The item the shortcut points to could not be found" displayed.

Issue Number	9267
Title	Formula description length
Description	In the formula editor if the description is longer the text box then a scroll bar now appears to make it possible to view/edit the description.

Issue Number	9285
Title	Importing tasks in a folder
Description	When importing tasks in a folder the tree now defaults to expanded so that the import options can be seen for the tasks being imported.

Issue Number	9286
Title	Client crash during maintenance
Description	If trying to login to the client while maintenance is running an error message is displayed stating that maintenance is running. If the cancel button was pressed this was causing the TaskCentre client to crash.

Issue Number	9332
Title	Moving multiple tasks warning messages
Description	When moving multiple tasks from one folder to another if the action is cancelled after the first warning message then a message for each task is no longer displayed.

Issue Number	8865
Title	Repository import error
Description	When importing a repository, if the "other" delimiter check box is selected but the delimiter is not specified an error message is now produced.

Issue Number	8943
Title	Performance of access to global address list
Description	The performance of access to a global address list has been improved. This was previously only a problem if the global address list was very large.

Issue Number	9474
Title	Event log export truncated
Description	When exporting an event log only the first 1000 rows were being included.

Issue Number	9555
Title	Client Crash after import
Description	If a task with a stored procedure step was exported and the connection it used deleted then the task re-imported then the client would crash the second time that the step was opened in the client.

Issue Number	9534
Title	Missing filtered events
Description	When applying a filter to the TaskCentre event log the first entry meeting the criteria was being missed from the filtered results.

Issue Number	9733
Title	Improved performance of user updates
Description	Where a large number of users were added to the TaskCentre users list, the time taken to create or update a user has been reduced.

Issue Number	10070
Title	Connection to server has been lost
Description	Where a store contains a large number of tasks in a large number of folders, the error message "connection to server has been lost 0x80072747" was occurring a large number of times when expanding the task folder tree. This no longer occurs.

Issue Number	10085
Title	Bank Holidays for United Kingdom
Description	Separate bank holiday imports are now available for England and Northern Ireland, Scotland and Wales, reflecting the different bank holidays in each of these regions.

Issue Number	10030
Title	Memory leak
Description	A memory leak could be experienced with the client, eventually resulting in a client crash.

Issue Number	9972
Title	Client crash with Call Procedure (OLEDB)
Description	Importing a task with a Call Procedure (OLEDB) step where the connection did not exist was causing the client to crash.

Issue Number	9653
Title	Step name changes
Description	Changing the name of a step in the task browser was not being reflected in the task designer.

Formulas

Issue Number	9306
Title	Formula Description Length
Description	The length of formula descriptions has been limited to 499 characters. An error is displayed if the user attempts to enter more.

Issue Number	9272
Title	Editing formulae not possible to drag and drop variable
Description	When editing a formula that has previously been saved it was not possible to drag and drop a variable from the task browser.

Issue Number	8517
Title	Formula length restricted
Description	It is now not possible to enter a formula with a length greater than that which can be saved.

Repositories

Issue Number	35484
Title	Repository corruption
Description	Under certain circumstances data may not be correctly committed to the repository. This could cause problems with task steps containing memory which could result in duplicate events.

Issue Number	9408
Title	Performance of repository reset
Description	The performance of the repository reset option has been optimised.

Issue Number	9235
Title	Repository import rights
Description	Users who do not have System Administrator rights can now import any repositories with the Create New option.

Issue Number	7133
Title	Client Repository Export
Description	When exporting a repository the delimiter is not required (can be empty).

Variables

Issue Number	9283
Title	Current value
Description	When saving values to variables (task or global) the current value can now be copied (using windows copy).

General

Issue Number	8829
Title	TaskCentre services register with incorrect display names
Description	The TaskCentre services can be listed with incorrect display names in the service control manager. This reverts them to the correct naming.

Issue Number	9956
Title	Impersonation browser does not work under Windows Server 2008
Description	Attempting to browse for a task impersonation user if running under Windows 2008 fails to display the default Windows browse dialog.

Issue Number	9726
Title	Store access encryption problems polish windows
Description	Incompatibilities between store encryption and decryption can be experienced on Polish Windows with tasks running under different accounts from the client.

Issue Number	9392
Title	OEM default store name
Description	For OEM versions of TaskCentre the store now defaults correctly for new installs / upgrades.

Issue Number	8469
Title	Templates
Description	Tool SDK templates are no longer installed to the same directory as workflow form templates.

Tool Specific

Call Procedure OLEDB

Issue Number	9383
Title	Oracle and Null values
Description	The error message "Value of parameter is not set up" is no longer returned by stored procedures writing to Oracle databases where parameters are NULL.

Issue Number	9348
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Title	Oracle OLE Stored Procedure fixed parameter length
Description	There was a problem when calling stored procedures with fixed parameter length (0x80040e14).

Issue Number	9276
Title	Oracle OLEDB stored procedures with input parameters
Description	Oracle OLEDB Stored procedures did not make use of input parameters.

Issue Number	9269
Title	Oracle OLEDB stored procedures with Output parameter
Description	Oracle OLEDB stored procedures with output parameters now function correctly.

Issue Number	9070
Title	Command text was not set for the command object
Description	The error "Command text was not set for the command object" is no longer generated by Call Procedure steps.

Issue Number	8099
Title	Output parameters
Description	Output parameters from a stored procedure can now be mapped to variables and used in subsequent steps.

Issue Number	36125
Title	Null value outputs
Description	Null output values from stored procedures no longer causes the error 0x80020009.

Database Query ODBC

Issue Number	8104
Title	Not possible to drag and drop variables into a formula
Description	In the ODBC and OLEDB Query tools it was not possible to drag and drop variables from the browser into the query formula builder.

Issue Number	7064
Title	Tabbing order ODBC Query General Tab
Description	It was not possible to tab into controls on the General tab.

Issue Number	6777
Title	Connection information for bad connection
Description	Where a problem occurs with a data connection (such as password expiry) opening the query step will show with which connection the problem occurs.

Issue Number	8576
Title	Column order when freehand SQL
Description	When the SQL is produced in freehand mode the column order of the recordset now matches the query.

Issue Number	8612
Title	SQL not regenerated when the tasks are imported
Description	When tasks were imported (and the connection is not present) and the tasks are retrieving data from a Foxpro database then the SQL in ODBC queries was not being regenerated when a new connection is selected.

Issue Number	8726
Title	Pass through turned off
Description	When an ODBC connection that has pass through turned off is used in a task step and the task step then edited, the error "the connection to <GUID> failed" was being displayed.

Issue Number	8701
Title	Cancel SQL Server connection dialog
Description	When attempting to create a new SQL server connection, in the SQL Server Login dialog pressing "cancel" caused a new SQL Server Login window to be shown again. This dialog is no longer shown.

Issue Number	8732
Title	ODBC connections with pass through connection string length
Description	Foxpro ODBC connections with pass through turned on have too small a connection string length.

Issue Number	8962
Title	SQL Not Generated Correctly
Description	The OLEDB and ODBC query tools may produce incorrectly formed SQL if the table being referenced contains column names including spaces.

Issue Number	8880
Title	Inverted commas in column names
Description	It is now possible to have column names with inverted commas (") in the name without causing the SQL to fail.

Issue Number	8844
Title	Unfriendly error
Description	The error message "Failed to sample Columns (0x80040D02)" has been replaced with "Microsoft OLE DB Provider for SQL Server - Invalid column name XXX."

Issue Number	8837
Title	Reserved word BREAK
Description	The reserved word "BREAK" can no longer be used as the name of a formula.

Issue Number	8820
Title	Tabbing order
Description	The tabbing order on this tools user interface has been corrected.

Issue Number	8768
Title	Free hand SQL lost
Description	During task configuration free hand SQL is no longer lost when it is saved without having run it.

Issue Number	8766
Title	Corrupted connections in upgrade
Description	It was possible that database connections could become corrupted when upgrading to TaskCentre 4.5 SR2 if there is no DCF file for the driver used.

Issue Number	9369
Title	Deleting connections
Description	It is no longer possible to delete a connection that is in use by an ODBC Query.

Issue Number	9186
Title	Lost SQL after upgrade/import
Description	When upgrading to TaskCentre 4.5 Service Release 2 the SQL in database query (ODBC) steps could be lost if the database connection used in the step was not valid/present. This is no longer the case for this release.

Issue Number	9166
Title	Alias keyword blank
Description	If the "Alias Keyword" value was left blank strange characters were appearing under the SQL tab of ODBC connection when the dialog was saved.

Issue Number	9560
Title	Sage Line 50 driver
Description	The ODBC query tool assigns the wrong literal prefix/suffix to SAGE line 50 driver by default in pass-through mode. This results in broken SQL.

Issue Number	9635
Title	Query failing when smallint field contains minus value
Description	It was not possible to use minus values in a smallint datatype field. When they run this from a DB query step they receive error "numeric value out of range".

Issue Number	9702
Title	Wrong query when dragging from Tables & Joins
Description	Incorrect query syntax was being produced when dragging from Tables and Joins.

Issue Number	9730
Title	Changing connection error.
Description	Changing from one ODBC Connection to another in a step was causing an error.

Issue Number	9840
Title	Sage Line 100 connection syntax errors
Description	When using TC variable in ODBC criteria on a Sage Line 100 connection syntax errors occurred.

Issue Number	9761
Title	Extra characters after unique identifier
Description	The ODBC query tool was producing extra characters which when consumed by the Recordset to XML tool appeared in the output XML after the UID.

Issue Number	9984
Title	ODBC Connection dialog consume 100% CPU
Description	When a SQL Server connection is added and a name entered for it, closing the dialog caused the CPU to go 100% usage.

Issue Number	35695
Title	Client crash on access violation
Description	The client will display "Unable to configure. Driver has failed." error message instead of crashing in the case of an access violation exception from ODBC drivers when calling SQLDriverConnect.

Database Query OLEDB

Issue Number	9990
Title	MySQL Connection
Description	When an OLEDB connection of type "Microsoft OLE DB Provider for ODBC Drivers" was added and an OLEDB query is added using this connection it was failing with Failed to establish connection - 0x80040005.

Issue Number	9550
Title	OLEDB query tool slow to read database table layout
Description	The OLEDB query tool was taking a disproportionately long time to read the list of tables from particularly large databases. This has only been experienced in databases with excess of 1000 tables.

Issue Number	9576
Title	OLEDB query tool memory consumption high for complex databases
Description	Related to 9561, at configuration time, the process of reading a very large number of tables (in excess of 1000), was consuming a disproportionately large quantity of system memory. It should be noted that this was not of an extent to threaten system integrity.

Issue Number	9517
Title	Empty recordsets failure
Description	When an empty recordset is produced (because there is no data to return) then the error "Failed to execute sql(ox80040d13)" was being produced.

Issue Number	9407
Title	Dragging tables into free type SQL
Description	When in the SQL Free Type Mode with Open Table / Object selected it was not possible to drag and drop a table from the tree into the SQL edit box.

Issue Number	9370
Title	Reduced memory usage
Description	The memory required for OLEDB queries with parameters has been reduced.

Issue Number	9270
Title	Context change of formula
Description	Changing the context of a formula no longer causes the SQL execution to fail with "Failed to generate SQL(0X8004053b)".

Issue Number	8759
Title	Superfluous warning in free hand mode
Description	The warning "Tables are not linked - would you like to save anyway" is no longer displayed when editing the SQL free hand.

Issue Number	8818
Title	Tabbing order
Description	The tabbing order on the query tab has been corrected.

Issue Number	8827
Title	Operation failed
Description	If a query is added with no columns the message "You must select at least one Column" appears. The message "The operation failed" no longer appears if OK is pressed.

Issue Number	8838
Title	OLEDB Drivers for ODBC
Description	For stores that were upgraded from 4.5 Service Release 1 (build 466) the error "0x800ffff catastrophic error" could occur when using the Microsoft OLEDB Drivers for ODBC due to a corrupt 466 store. Code has been added to correct the corruption.

Issue Number	8840
Title	Superfluous message
Description	The additional message "Failed to Execute SQL (0x80040531)" is no longer displayed when the message "Cannot sample columns because the formula has no tables associated with it." is displayed.

Issue Number	8843
Title	Superfluous message
Description	The additional message "Failed to sample Column values (0x80040e14)" is no longer produced when the message "Microsoft OLE DB Provider for SQL Server - Invalid column name XXX." is displayed.

Issue Number	8833
Title	Columns pane greyed out
Description	The columns pane of the design sub tab no longer becomes greyed out when the test query button is pressed.

Issue Number	8831
Title	Faulty combos
Description	On the connections/properties/options tab the Combo box behaviour has been corrected, improving usability.

Issue Number	9052
Title	Event log identification of multiple queries in a task
Description	Tasks with multiple database queries were being reported incorrectly in the TaskCentre event log (all against the same query step name).

Issue Number	8927
Title	Imported tasks missing connection warning
Description	If a task is imported and the data source does not exist opening the database query step now causes a message to be displayed warning that the connection does not exist.

Issue Number	8430
Title	Formula changes
Description	Changing a formula in the task browser will update the query to which it relates.

Issue Number	8463
Title	Variable comparison in select
Description	It is now possible to include variables in the select statement that are used for comparison in the where statement.

Issue Number	8574
Title	SalesLogix 7.0 Sub select doesn't work in a formula
Description	When using the SalesLogix 7.0 driver formulas that contain a sub-select are now processed correctly.

Issue Number	7573
Title	Tooltip on aliased table column
Description	The tooltip was displaying the original table name rather than the aliased table name.

Issue Number	8336
Title	Not responding
Description	It was possible to get a not responding message from the Database Query (OLEDB) tool by clicking in the SQL query edit area then clicking on the browser header.

Issue Number	8166
Title	Date/Time field not compared correctly
Description	When a date/time field was dragged from Tables & Joins to Criteria, it was treating the field as text for the actual comparison operation. If dragged from the DB Schema, it comes over correctly as a date/time field.

Issue Number	8117
Title	Database Query (OLEDB) column sampler always uses value from 'column1'
Description	When using the SalesLogix OLEDB driver in a database query, an additional column called 'column1' gets returned in the recordset which contains incrementing numbers for each row of the recordset. The column sampler in the query criteria was always using values from 'column1' irrespective of what field was chosen.

Issue Number	8013
Title	Microsoft OLE DB provider for ODBC drivers
Description	Making use of this driver no longer fails with: "Operation failed (0x80040205) An unexpected exception was raised".

Data Filter

Issue Number	9457
Title	Purge rows no longer present
Description	The purge rows no longer present option now behaves as documented.

Issue Number	9455
Title	Process Rows no longer present
Description	The error "Failed to MoveFirst on RecordSource", Error Code: 0x80040212 is no longer generated when the process rows no longer present option is selected.

Issue Number	8966
Title	Failed to MoveFirst on RecordSource
Description	After upgrade to 4.5 some repositories had problems reporting the error "Failed to MoveFirst on RecordSource". This error no longer occurs.

Issue Number	8157
Title	Process rows last processed more than rule
Description	Process rows last processed more than rule was failing to age rows when the run frequency is greater than the more than period.

File Transfer (FTP)

Issue Number	7231
Title	Greyed out scope
Description	If the file item edit dialog is open then task browser environment tab scope items were greyed out.

Format as HTML

Issue Number	8535
Title	File could not be attached to HTML
Description	The intermittent error "<File> could not be attached to HTML" is no longer generated.

Issue Number	8664
Title	Drag and drop objects to formatting section
Description	It is now possible to drag & drop objects into the formatting sections of the HTML tool.

Issue Number	8689
Title	Close button visibility
Description	The close button no longer disappears if you expand the preview window.

Issue Number	9326
Title	Row Height when cells empty
Description	When formatting as tables if a row contained a blank cell then the row height for that cell was larger than the other rows.

Issue Number	9206
Title	Dynamic Column Header display preceding row
Description	Dynamic column headers were displaying the preceding row when document generation option was; 'New document when column changes'.

Issue Number	9426
Title	& not displayed correctly
Description	The ampersand character now displays correctly when in data included in an html output.

Issue Number	10036
Title	Space in field name causing blank html
Description	A space in field names was causing the html generated to be blank.

Internal Memory

Issue Number	8523
Title	No e-mail address
Description	SMTP Message steps that fail due to no e-mail address are now not seen as successful.

Issue Number	9346
Title	Tasks hanging
Description	Occasionally tasks were hanging that used internal memory. This condition no longer occurs.

Issue Number	9220
Title	Scroll bar for greater than 6 items to memorise
Description	A scroll bar has been added to the internal memory dialog to allow more than 6 items to be memorised.

ODBC Memory

Issue Number	9252
Title	Connection failed
Description	The "connection failed" error message no longer appears when a task runs an ODBC query followed by a an output step with ODBC memory.

Issue Number	9051
Title	Large number of objects
Description	Browsing for tables where very large numbers of tables exist in the database no longer causes the TaskCentre client to crash.

Issue Number	8123
Title	Task Impersonation failure
Description	Tasks were failing to initialise with failure (0x80040d02) when the following conditions are true; ODBC Memory Provider, the Connection is non local, Trusted connection and Task impersonation.

Issue Number	9580
Title	ODBC memory with MySQL ODBC 5.1. driver fails
Description	When clicking OK to save the memory definition it was failing with error message: "Cannot Save Memory Definition data" .

Issue Number	9424
Title	ODBC Oracle write-back ignoring key fields
Description	When write-back to an Oracle database was used the key field was being ignored i.e. it always did an insert even if the key was there.

Issue Number	9411
Title	Data containing forward and back slash characters
Description	The following error was being generated when data contained "/" and "\" characters; [SQLState : 37000] [ODBC Error] [Microsoft][ODBC SQL Server Driver]Syntax error or access violation [SQLState : S1002] [ODBC Error].

Issue Number	9669
Title	Task Initialisation Failure
Description	If an ODBC memory definition was created with free typed SQL this could cause the task initialisation to fail at run time.

Issue Number	35560
Title	SQL Server 2000 Access Error
Description	The error message "you do not have the required permissions to use this connection" is no longer generated when using ODBC Memory on SQL Server 2000.

OLEDB Memory

Issue Number	9415
Title	RPC_E_SERVERFAULT
Description	The server crash RPC_E_SERVERFAULT is no longer generated by a call stored procedure step with OLEDB Memory.

Issue Number	9385
Title	Oracle database memory failure
Description	The error "Provider cannot derive parameter information and SetParameterInfo has not been called." was previously generated when using OLEDB memory on an Oracle database.

Issue Number	9582
Title	Failure with MySQL ODBC 5.1 driver
Description	OLEDB Memory provider was producing an error with "catastrophic failure" when the following conditions were true. OLEDB Provider: Microsoft OLEDB provider for ODBC drivers, ODBC Driver: MySQL ODBC 5.1.1 driver. Updating a record (It worked for inserting a record - failed for update.).

Issue Number	9533
Title	Server Crash
Description	Tasks using OLEDB memory could cause the server error 0x80010105.

Issue Number	8100
Title	Memory renaming
Description	With external memory using the OLEDB provider, "OLEDB Memory Provider" can now be renamed with a user defined description, it no longer reverts back to the default after the Table required is selected.

Issue Number	7509
Title	Option defaults
Description	The OLEDB and ODBC memory options have had their defaulting made consistent with the Internal Memory defaults.

Issue Number	8581
Title	Query fails when using SalesLogix OLEDB write back
Description	<p>The error could be created in the following way:</p> <p>Create an OLEDB connection to SalesLogix.</p> <p>Create a task with an OLEDB step.</p> <p>Add some fields into the columns pane including a formula based on a date eg getdate().</p> <p>Add a format as text and save as file step.</p> <p>In the save as file add OLEDB Memory and browse to the same table as the OLEDB query.</p> <p>Map the primary key and map the date formula to a table field Run the task and it fails with error: task failed, code: 0x80010105 in the main event logs. However, the tasks event log contains no errors.</p>

Issue Number	8426
Title	OLEDB Connection import
Description	OLEDB memory connections are now resolved by id during import.

Issue Number	9049
Title	Impersonation not respected
Description	OLEDB memory called from a send message (SMTP) can now be used with an impersonated user respecting the access rights of that user.

Issue Number	9248
Title	Column names with spaces
Description	Column names containing spaces were causing errors in the generated SQL.

Issue Number	9095
Title	OLEDB Memory writeback
Description	Tasks using Saleslogix OLEDB with memory writeback were failing.

Merge MS Word Document

Issue Number	10095
Title	Word stopped if task fails
Description	When a task fails which is processing an MS Word Merge step then Word is no longer left running.

Issue Number	9621
Title	Format lost on page break
Description	When the first line on a document was a word merge field formatting (e.g. fonts) could be lost between pages.

Issue Number	35674
Title	Additional blank page
Description	When the word merge document was a Word 2007 (.docx) format additional blank pages could be produced.

Issue Number	8733
Title	Word left in processing state
Description	When printing an MS Word Merge document the document was printing but Word was being left in a "processing" state.

Issue Number	9280
Title	Embedded images
Description	Embedded images in a word merge document are now correctly displayed in the output. Previously they were missing (red cross).

Issue Number	9246
Title	MS Word merge doesn't Propagate file version
Description	When using word 2007, a Merge document saved as format 1997-2003 (.doc), then tasks with a word merge step were generating a document with .docx format and could not be opened in Word 2003.

Oracle Trigger

Issue Number	9367
Title	Long names in global configuration
Description	The global configuration dialog has been made resizable to allow long names to be viewed.

Issue Number	9355
Title	Changing table
Description	The columns in a trigger are cleared if the table is changed on a trigger.

Issue Number	9358
Title	Filter button disabled
Description	The filter button no longer intermittently becomes incorrectly disabled.

Issue Number	9329
Title	Long machine name
Description	The Oracle Agent can now be installed on machines with a machine name greater than 30 characters long.

Issue Number	9405
Title	NULL fields
Description	A trigger on a field field with a NULL value does not clear a linked task variable.

Recordset to XML

Issue Number	35603
Title	Duplicate name exception when using multiple input recordsets
Description	Auto Generate output XML in the Recordset to XML tool could fail if using two input recordset steps and the first query step was renamed.

Issue Number	9931
Title	Success, Fail and Warning counters
Description	These counters are now updated correctly at runtime of this tool.

Run Crystal Report

Issue Number	8657
Title	Crystal Report Print Output Problem
Description	Print output no longer fails with 'Failed to print document 0x8007007a' error when document source is '. Crystal Report – Print Output' and task impersonation is set.

Issue Number	8728
Title	Currency error
Description	Crystal Reports produces the following error when the document contains a currency field, "Parameter error setting "FieldName", HRESULT: 0x80040e45". This error does not occur when using Crystal 2008 or later.

Issue Number	9292
Title	Duplicate parameters
Description	The message "A value is already assigned to this parameter" is now displayed if the user attempts to map the same parameter twice.

Issue Number	9606
Title	Crystal report generation shows significant memory increase
Description	When running very large numbers of reports within a task excessive memory was being consumed slowing down the task.

Issue Number	9783
Title	Client crash when adding parameters into Report in Run Crystal Report step
Description	The crash, 0x0001bd02, that could occur when adding parameters to a Crystal 12 (2008) report has been removed.

Issue Number	35865
Title	\$ in password
Description	The dollar symbol (\$) can now be used in passwords for connecting to databases where this is supported by the provider.

Run VB Script

Issue Number	9884
Title	ThisStep.Started step property shows wrong timezone
Description	If a variable is populated with the "Started" property of a step then the time was in UTC and not consistent with the local time zone settings.

Schedule

Issue Number	9497
Title	First task run occurs twice
Description	If a schedule event step is defined with a start date/time and a different run date/time then the first day/week/month that the task runs it would run twice. This has been corrected to only run once.

Issue Number	9379
Title	Schedule Agent tries to process disabled Tasks
Description	When a store contained a number of tasks containing schedule steps which are disabled, a higher than expected processor loading on the scheduler agent was experienced.

Issue Number	9381
Title	Schedule Event Agent tries to schedule events that are not on the planner
Description	When a store contained a number of tasks containing schedule steps which are in the browser but not in the planner a higher than expected processor loading on the scheduler agent was experienced. Similar to 9374 but a different aspect of the agent.

Issue Number	9382
Title	Inadequate Trace Information in Event Scheduler
Description	Trace logging has been enhanced to allow for more efficient diagnosis of processor loading.

Issue Number	9460
Title	Schedules running immediately
Description	When a schedule run time was changed to a time before current system time this was causing the task to run when saved. It will now run on the next occurrence of the time.

Issue Number	9175
Title	Licence expiry of scheduler
Description	Tasks using the schedule event tool will no longer run after the licence for this tool has expired.

Issue Number	9178
Title	Variables cleared when job runs on a schedule
Description	Parameter variables of Task scope no longer have their values cleared by a scheduler step.

Issue Number	9028
Title	Variables cleared
Description	When writing variables to the event log with a VB Script step the variable was being cleared when following a schedule step.

Issue Number	8064
Title	Schedule steps not on planner cause high processor loading on server
Description	When a store contained a number of tasks containing schedule steps which were in the browser but not in the planner a higher than expected processor loading on the scheduler agent was experienced.

Send Fax (Tobit)

Issue Number	9196
Title	DVSubmit.exe crash
Description	Sending a fax with a cover page no longer causes DVSubmit.exe to crash during the task execution.

Send Message SMTP

Issue Number	9336
Title	Attachments as variable
Description	Attachments defined in "File from Data" can now be defined as a variable in the "source" field.

Issue Number	9359
Title	Zero length cc recipient causes task to crash
Description	Tasks were failing with a recipient error 5.5.4 invalid address and no email is received to the correct email in the TO: field (this is also the case if you choose to ignore errors) when a blank variable is set up and added to cc the field in the send message SMTP tool.

Issue Number	8928
Title	Attachment name
Description	For an attachment it is no longer possible to enter data in the Name field for the File from Data option if the source is from a variable.

Issue Number	8297
Title	New CC or BCC added to TO
Description	On the main tab if CC or BCC was clicked on and New selected the new address was being added to the TO address.

Issue Number	7763
Title	Incorrect e-mail address event message
Description	When a Send Message (SMTP) step contains an incorrect e-mail address the TaskCentre Event log now shows the e-mail address that caused the failure.

Issue Number	8685
Title	Mail blocked by Spam Filter due to date format
Description	The date format in e-mails was causing some spam filters to block the mail.

Issue Number	8326
Title	No attachment icon when generating attachments from "Path to file on Disk"
Description	This was occurring when a dynamic, file from disk attachment had the "once for each row" option selected.

Issue Number	8467
Title	"To" addressee now not mandatory
Description	Task runs no longer fail when SMTP steps do not have a TO address. - Failed with error message 5.3.3 unrecognized command (0x80040d52).

Issue Number	8529
Title	Date format and spam filters
Description	The date format output has been changed to comply with RFC2822 so not potentially be captured by spam filters.

Issue Number	8729
Title	Website on non-standard port
Description	Jobs published to the non-default website on another port were not always accessible from myTaskCentre.

Issue Number	8881
Title	Missing jobs in myTaskCentre
Description	Due to the refresh speed of myTaskCentre jobs were sometimes not appearing when they should.

Issue Number	9511
Title	No attachment icon when generating attachments from 'Path to file on Disk'
Description	This was occurring when a dynamic, file from disk attachment had the "once for each row" option selected.

Issue Number	9393
Title	Recipient length restriction
Description	The length restriction of 10240 bytes on the recipients has been removed.

SMTP Event

Issue Number	7696
Title	System Account Only
Description	Agents can now run under accounts other than system.

SQL Trigger

Issue Number	9546
Title	Spaces in column names
Description	Triggers were not being activated if the column names contained space characters.

Issue Number	9412
Title	Tabbing Order
Description	The trigger tab now has a tabbing order that accesses all fields.

Issue Number	9431
Title	SQL Event Agent can fail to trigger task run
Description	On particularly heavily loaded systems with high levels of database traffic and network bandwidth use, connections were occasionally being lost between the SQL Trigger agent and the TaskCentre server. This had the potential to cause sporadic occasional task run failures.

Issue Number	9443
Title	Queue Task could not be executed
Description	SQL triggered task can no longer fail with "Queue Task could not be executed (0x80040205)".

Issue Number	9661
Title	SQL Event Agent can fail under heavy duration load
Description	Running multiple batches of circa tens of thousands of events could cause occasional service failures.

Issue Number	9774
Title	Stopping SQL Agent Service
Description	It was not possible to stop the SQL Agent service when the SQL Agent was unable to communicate with the TaskCentre server.

Issue Number	9955
Title	SQL trigger not created if brackets in column name
Description	The SQL trigger agent fails to add triggers to a SQL table if the column name contains standard brackets. I.e. '(' or ')'.

Issue Number	9340
Title	Columns containing spaces
Description	Triggers can be created on columns that contain spaces.

Issue Number	9253
Title	SQL trigger stops working after importing tasks with SQL trigger steps
Description	Update was failing in the SQL trigger agent due to newly imported tasks containing SQL trigger steps with insufficient information.

Issue Number	8476
Title	Maintenance
Description	SQL triggers no longer exhibit problems such as locking tables or preventing maintenance running if they fire when maintenance starts.

Issue Number	7678
Title	Small memory leak
Description	A small memory leak on the SQL Agent no longer occurs.

Issue Number	8618
Title	TaskCentre SQL Agent service name
Description	The "TaskCentre SQL Agent" service was incorrectly being labelled as "MS SQL Server Agent".

Issue Number	9531
Title	TaskCentre SQL Agent windows event log format
Description	The format of messages to the windows event log has been corrected.

Issue Number	9591
Title	Remapping variables causing subsequent variables to be incorrectly mapped
Description	Variables created without parameter selected are not available for selection in the trigger creation. Amending to have parameter selected in the variable results in it appearing in the trigger creation window without affecting those variables previously mapped.

Workflow

Issue Number	7506
Title	Saving a workflow job triggers validation
Description	Saving a workflow job can now optionally trigger any validations applied to the form (this previously occurred only on submit).

Issue Number	9189
Title	Workflow form control properties dragged from task browser
Description	Dragging and dropping browser properties into a workflow job form property no longer causes a corruption of the properties window.

Issue Number	9193
Title	Dynamic workflow jobs are not listed in myTaskCentre portal
Description	When workflow jobs are created with dynamic recipients they were not visible to the users in myTaskCentre.

Issue Number	9179
Title	Dynamic workflow permissions not working
Description	When a workflow job is created with dynamic permissions it was possible for a user to follow the url link in an e-mail and then open the job with a user name which does not have permission for the job.

Issue Number	9146
Title	Delete job
Description	A redundant additional call to delete jobs when a user deletes a job in myTaskCentre has been removed.

Issue Number	9128
Title	Illegal characters in name of control
Description	On a workflow form, it is no longer possible to assign dynamic values to control names so potentially introducing illegal characters into the html.

Issue Number	9107
Title	Calculation script language change
Description	For a workflow form, in calculations when changing from JavaScript to VB Script or vice versa the script can now be edited to be compliant appropriately.

Issue Number	9103
Title	"Search In" changes
Description	Changing the "Search In" combo in myTaskCentre will refresh the display when chosen using the new value of the combo.

Issue Number	9085
Title	Client crash on Microsoft Windows 2008
Description	Creating workflow jobs on Microsoft Windows 2008 was causing intermittent client crashes.

Issue Number	9072
Title	Firefox 3 and look for
Description	When running Firefox 3 using myTaskCentre, pressing enter in the "look for " field no longer creates a new workflow job.

Issue Number	9062
Title	Dynamic users and groups
Description	Workflow step users or groups can now be assigned dynamic values without causing the task to crash at runtime.

Issue Number	9065
Title	Search other pages
Description	Searching in myTaskCentre was failing if the searched for item was not within the current page of jobs.

Issue Number	8783
Title	Cancelling invalid changes
Description	When an invalid workflow job form was created cancelling the change and discarding the changes was still resulting in the changes being saved.

Issue Number	8809
Title	JavaScript calculations
Description	JavaScript calculations on workflow pages are now performed correctly when a controls name is empty.

Issue Number	8857
Title	Performance of workflow job
Description	The time taken to open a work flow job has been optimised.

Issue Number	8879
Title	Delete a job more than once
Description	If delete is pressed on a job more than once this no longer creates the exception "An unhandled exception occurred during the execution of the current web request. Please review the stack trace for more information about the error and where it originated in the code.".

Issue Number	8849
Title	Login error
Description	When trying to login to the myTaskCentre portal the error "Server Error in /iwwebptl Application" is no longer occasionally generated.

Issue Number	8855
Title	Performance Optimisation
Description	The performance of the create workflow job step has been improved.

Issue Number	9026
Title	VBScript not supported by browser
Description	If VBScript is not supported by the users browser (e.g. Firefox 3) and a workflow page contains VBScript validation then a warning message is now displayed to the user.

Issue Number	9046
Title	Wrong user shown as owner
Description	When logging into myTaskCentre as Administrator the correct owners of the jobs are now displayed.

Issue Number	9048
Title	Not memorised first job
Description	When a task is configured with a query and a create workflow job step, ODBC and OLEDB memory where not recording the first job in a set of workflow jobs.

Issue Number	9053
Title	Firefox 3 display loop
Description	In myTaskCentre when running Firefox 3 and a user attempts to create a job for which they do not have permission, a loop is no longer created in the display with the same information within the same information.

Issue Number	8992
Title	myTaskCentre Search
Description	When searching across multiple pages of workflow jobs, all jobs matching the criteria from all pages are now returned irrespective of the page that the search is performed from.

Issue Number	8997
Title	Logout not possible with new job
Description	A logout can now be performed when a new workflow job form is displayed in myTaskCentre which does not have a name defined.

Issue Number	9022
Title	Importing templates
Description	It is now possible to import an internal html template after importing an external template.

Issue Number	8999
Title	myTaskCentre sorting
Description	The sort functionality in myTaskCentre now sorts the jobs correctly.

Issue Number	8973
Title	Blank pages in myTaskCentre
Description	In myTaskCentre users no longer see blank pages of jobs where there are other jobs outstanding for other users.

Issue Number	8977
Title	Session closedown
Description	If a user was logged into myTaskCentre and they closed their session without logging out then the user was being left logged in. Users in this condition will now be automatically logged out after a short period (two minutes) and be able to login again.

Issue Number	8459
Title	Grouping controls
Description	Where multiple controls on a workflow page have the same name such as a group of radio buttons the output from the group is now produced as a single output for the group.

Issue Number	8741
Title	Combo height on windows 2000
Description	In the create workflow job tool the height of combo boxes was incorrect when running on Microsoft Windows 2000.

Issue Number	8745
Title	Multiple validations
Description	When multiple validations are applied to a workflow page they are now all used when the page is submitted.

Issue Number	8746
Title	Duplicate IDs
Description	Duplicate IDs in workflow job forms are no longer allowed. These were causing an error when the workflow job was opened "Parser Error Message: The ID "XX" is already used by another control".

Issue Number	8747
Title	Numbers validated on save
Description	Numbers are now validated when saving a workflow job.

Issue Number	8748
Title	Warning if control does not exist
Description	When opening a calculation or validation an warning message is displayed if the control chosen no longer exists.

Issue Number	7391
Title	Save Button
Description	A messages box appears when the save button on the toolbar is clicked but no message was displayed when the Save button at the bottom of the form was clicked. These have now been made consistent.

Issue Number	7775
Title	Error message on required field
Description	The error message displayed when validation defines a field as required is not entered on a workflow form has been made more friendly.

Issue Number	7611
Title	Sorting in myTaskCentre
Description	MyTaskCentre has an option to sort the data by a column. The sort order now takes account of data type.

Issue Number	8424
Title	Validation order
Description	When multiple validations were applied to workflow pages, if an error was produced from a validation, it was corrected, another field made invalid then the original validation error was being displayed again.

Issue Number	8041
Title	No receiving task
Description	When a submitting a workflow job, if there is no task with an event to receive the submission or if the task has been disabled then an error is now returned to the user and the task not submitted.

Issue Number	8082
Title	Permissions for job not checked
Description	When accessing a workflow job using a URL delivered in an e-mail the permission of the user to access the job was not being checked.

Issue Number	8143
Title	Multiple edits
Description	Multiple edits of a workflow job could result in the job no longer being available (missing default.aspx).

Issue Number	8638
Title	Cannot create or open tasks when using a non-default website
Description	myTaskCentre can now create or open jobs where multiple myTaskCentre websites are used.

Issue Number	8738
Title	Access Violation unhandled exception
Description	When restarting a server the previously working workflow submit could crash when debugging it showing an Access Violation unhandled exception 0xc0000005 access violation at 0x... reading 0x00000000.

Issue Number	9505
Title	Performance optimisation
Description	The performance of simultaneous submission of jobs against the same task has been optimised.

Issue Number	9516
Title	Duplicate job runs
Description	When a job is created from myTaskCentre and then deleted the next time a job is created for the same task ad submitted was causing the job to run twice.

Issue Number	9441
Title	Duplicate publishing directory
Description	A duplicate publishing subdirectory was incorrectly being reported in the event log.

Issue Number	9427
Title	Workflow submissions lost
Description	Occasionally a rare condition was occurring which causes submissions of workflow jobs to be lost.

Issue Number	9428
Title	Workflow Agent submission handling optimisation
Description	This is an optimisation to the workflow agent to allow multiple jobs to be submitted in parallel more efficiently.

Issue Number	9491
Title	Create Workflow Job may cause SQL Store blocks
Description	Rapid workflow page loads and job submissions in parallel were occasionally locking up.

Issue Number	9526
Title	MyTaskCentre Login Hang
Description	Under certain rare circumstances with busy workflow traffic, it was possible for the MyTaskCentre login page to hang if it clashes with another user doing the same thing at the same time.

Issue Number	9604
Title	Workflow Agent can fail to trigger task run
Description	On particularly heavily loaded systems with high levels of network bandwidth use, connections could occasionally be lost between the Workflow Agent and the TaskCentre server. This had the potential to occasionally cause sporadic job submission failures.

Issue Number	9692
Title	myTaskCentre Buttons missing with Vista
Description	The Pin button and the Minimize button are not displayed if "desktop composition" is enabled.

Issue Number	9597
Title	VBScript Validation error
Description	VBScript can now be used to add validation to a workflow job page without causing a TaskCentre crash.

Issue Number	9651
Title	Workflow occasionally incorrectly denies access
Description	In a busy system using workflow, the user can occasionally be incorrectly denied access.

Issue Number	9758
Title	Memory leak
Description	A small memory leak in processing workflow events on the TaskCentre server has been removed.

Issue Number	9786
Title	Workflow Tool creating multiple configuration store entries with the same version
Description	When saving a task without changing the configuration of a workflow step a new entry was created unnecessarily.

Issue Number	9706
Title	Task running efficiency degradation
Description	Systems with very large numbers of workflow users frequently logging in may experience a slowdown in task execution.

Issue Number	9750
Title	Missing default.aspx
Description	The condition where workflow jobs could be created without a default.aspx has been removed.

XML to Recordset

Issue Number	9930
Title	Success, Fail and Warning counters
Description	These counters are now updated correctly at runtime of this tool.

Upgrade Instructions

Prerequisite TaskCentre Versions

This release can be applied to TaskCentre 4.5 (build 443) and higher.

Other Prerequisite Software Versions

Please refer to TaskCentre-System-Dependencies.xls for details of software prerequisites available from the Orbis Software website in the partner area.

The TaskCentre installation requires to be run under a desktop account with administrative privileges. If using an operating system with the Microsoft User Account Control (UAC) it may be necessary to elevate the installer by right clicking on it and selecting 'Run As Administrator'.

Care should also be taken to ensure that Windows machines which are connected to a domain do not have restrictive Group Security Policies in place. Particular attention should be paid to Software Restriction and Application Control Policies.

Likewise if a Local Group Policy is in use, this must not apply restrictions to registry, drive and port access. These can be viewed by selecting 'Local Security Policy' under Control Panel\All Control Panel Items\Administrative Tools.

Windows Firewall should be configured to allow inbound access to the configured client ports if using any external clients or agents. Normally these are 4222 and 4223.

If you are using Windows Server in Terminal Services mode, it will be necessary to change to install mod using CHANGE USER /INSTALL before the TaskCentre installation and back to execute mode using CHANGE USER /EXECUTE afterwards.

Upgrade Steps

The following TaskCentre Components require upgrading with this release: -

Component	Upgrade Required
TaskCentre Server(s)	Yes
TaskCentre Clients	Yes
Data Modeller	Yes
SMTP Agent	Yes
MS SQL Server Trigger Agent	Yes
Oracle Trigger Agent	Yes
Workflow Agent	Yes
myTaskCentre	Yes
Web Service	Yes

Back up your TaskCentre store.

If tools have been developed using the TaskCentre Tool SDK then these should also be backed up prior to the upgrade.

During the upgrade/install if upgrading/installing any of the website components a restart of IIS will occur.

Run the executable and follow the on-screen instructions. If the upgrade requests a reboot this is because the installation process has upgraded a Microsoft component, MS XML 6.0, so will not run the configurator. The TaskCentre configurator can be run from start menu in the TaskCentre program group. This MUST be run to check the configuration of the installed components.

N.B. Validation of variables has been improved in this release. If you have tasks containing parameter variables with task scope and attribute in/out then these must now be mapped. Unmapped variables of this type will be cleared when the task runs. If these are currently being used to hold values permanently or to pass between tasks or task instances then they should be recreated not set to parameter variables.

Reporting Installation Problems

If you have any problems upgrading your current version of TaskCentre please contact Orbis Support.

- Tel: 01202 241115
- Email: support@orbis-software.com