

FlashCONNECT 3.7 and mvDesigner 3.0

Release Notes



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FlashCONNECT Version:	3.7
mvDesigner Version:	3.0
Database Version:	See Installation Guide
Document Version:	June 2006

Introduction

A complete copy of the FlashCONNECT and mvDesigner Release Notes is available on the product CD-ROM and the Raining Data Web site. For the latest information, visit the Raining Data Web site at:

<http://www.rainingdata.com/support/documentation/index.html>

Raining Data recommends that you review the Release Notes before installing FlashCONNECT and mvDesigner:

- [FlashCONNECT Features](#)
- [mvDesigner Features](#)
- [Differences](#)

FlashCONNECT Features

Multiplatform Support

This product runs on D3 NT, D3 Linux, D3 AIX, and mvBase. See the FlashCONNECT and mvDesigner Installation Guide for system requirements.

SOAP Interface

This interface provides SOAP-enabled applications the ability to execute FlashCONNECT business rules. The SOAP call executes and returns the output from persistent or non-persistent FlashCONNECT business rules.

Java API

A Java API provides access to FlashCONNECT business rules from Java.

Error Redirection

A FlashCONNECT application can now specify the Web page to display or the program to run in the event of an error, such as no available FC ports, server not responding, and so on. Information pertaining to the error is also available, including the request submitted, server pool, error text, error number, and so on.

Upgrade

Upgrading from previous versions of FlashCONNECT is now automated.

Auto Start

Optionally allows FlashCONNECT database servers to be started automatically when the database is booted.

D3 Maintenance

Automatically deletes 'jobs' items created for D3 phantom processes.

User Interface: Minor changes were made to the user interface to enhance installation and maintenance.

mvDesigner Features

mvDesigner Client

The mvDesigner 3.0 Client is based on Omnis Studio 4.0.

Multiplatform Support

This product runs on D3 NT, D3 Linux, D3 AIX, and mvBase. See the FlashCONNECT and mvDesigner Installation Guide for system requirements.

Generating Reports Video Tutorial

A video is available to shorten the learning curve in generating reports, which is located on the CD at:

`\Documentation\mvDesigner\Videos\GeneratingReports`

Start the video by opening default.htm or index.htm. After clicking on any of the *Watch the Video* links, click the play button to start the video.

Enterprise Browser

The Enterprise browser has these features:

- Ability to change the superclass name of an mvDesigner library.
- Library Fixer option to update the superclass and design_task properties when a library is renamed or copied.
- Multidata files display.
- Subroutines can be cataloged from the subroutine node.

BASIC Editor

- Comment or uncomment a block of code using the Context menu.
- Right-click context menu to Copy, Cut, Paste, and Undo text.
- Edit programs with the same name from different servers.
- Retain the font and color setup of each instance of the BASIC Editor.
- Display a list of BASIC labels, then jump to the label definition in the BASIC code.

New Documentation

FlashCONNECT Compatibility

FlashCONNECT 3.7 is compatible with FlashCONNECT versions 3.3 and later provided that all Web Server components are the same version.

D3 Database Support

Effective with FlashCONNECT 3.5, the following database support is available:

- D3 NT
 - Version 7.4 (requires Service Pack 3 or later)
- D3 UNIX
 - Version 7.3 (requires ABS Patch 7.3.A106 or later)
 - Version 7.4 (requires ABS Patch 7.4.A129 or later)

Using mvDesigner

A section on mvDesigner and database licensing issues has been added to the *Using mvDesigner* guide.

A section on Deploying Applications has also been added.

mvDesigner Editor

The mvDesigner editor's non-printable character escape sequence has been changed from "^nnn" to "~&nnn&~". For example, a value mark is now represented by "~&253&~" (previously, it was represented by "^253").

The change was made because the up-arrow format clashed with "print 1.05^100" or 'select customers = "1^^^124"'.

mvDesigner Programmer's Guide

Procedures to generate mvDesigner reports can be followed while viewing the video tutorial or read separately.

FlashCONNECT Documentation

The FlashCONNECT and mvDesigner document set, which includes the Installation Guide, Programmer's Guide, Administrator's Guide, Programmer's Online Reference, Release Notes, and ReadMe.txt , have been updated for this release.

Differences

mvDesigner IDE Help

The IDE help examples have been updated.

No Longer Supported

Restarting Server Pools

Restart Server Pool has been removed from the mvDesigner environment.

mvd Account

The mvd and www accounts have been combined in the WWW account.

www-restart

The `www-restart` command is no longer supported.

FlashCONNECT Enhancements and Resolutions

June 2006

This section provides the list of FlashCONNECT Enhancements and Resolutions.

- [Release 3.7.0](#)
- [Release 3.6.0](#)
- [Release 3.5.1](#)
- [Release 3.5.0](#)

Release 3.7.0

Enhancements

FlashConnect

Action ID	Description
31032	Enhanced www-version to display an appropriate message if FlashCONNECT is not activated but mvDesigner is.
31265	Enhanced FlashCONNECT to install & run on Red Hat Enterprise Server 4 without loading the legacy software development package.
31519	Enhanced updates to the W3LOGS file to include the serverpool name. Added SERVERPOOL and SUPPORTPROCESS items to the dictionary, which accesses the serverpool name and the name of a non-server supporting process that logged the entry, respectively.
31678	Set keepalive option in FCService socket connections for better service reliability.
31719	Enhanced the FCService SearchLimit/SearchDelay algorithm to provide better throughput when there are more clients than servers.

Resolutions

FlashConnect

Action ID	Description
28031	Corrected a problem with www-page that caused w3getval to return multiple values for the same name in reverse order.
29520	Corrected a problem with Windows uninstall that left fcexec.exe, FCServlet.dll, and FCsocketServer.exe in %systemroot%\system32.
30055	Corrected a problem with the FlashCONNECT Admin web page for Application maintenance that prevented maintenance of the mvDesigner Catalog Display option.
30763	Corrected a problem with FCdebug -k<pool> option that caused a "User defined signal 1" error and a permanent "Stopping" state for affected slots in FCService.
31144	Corrected a problem with WWW-PAGE that caused it to corrupt the FlashCONNECT server that executed a FlashCONNECT app that executes WWW-PAGE.
31252	Corrected a problem with Windows web components that caused them to exit if the Windows event log could not be opened.

FlashConnect

Action ID	Description
31672	Corrected a startup race condition that caused fccgi.exe, libFCServlet, and fcisapi.dll to sometimes fail.
31675	Corrected a problem with FCService that could cause a slot to be stuck in "WaitDB" state when a new D3 server happens to connect just as another server is shutting down.
31677	Corrected a problem with the FCService handling of a browser "reload" or "stop" before the completion of the data transfer to the browser. Either of these generates a "broken pipe" signal, which is now logged and the circuits shut down cleanly. The FlashCONNECT server on the database will automatically establish a new connection on the same line when it goes to the input state at the completion of the application, whose output to the browser is lost and any W3INPUT calls return an error.
31718	Corrected a problem with W3MONITOR that caused it to slowly degrade system performance when more than one connection per serverpool is configured.
31733	Corrected a problem with mvBase connections that prevented recovery from a broken connection, for instance, when the browser "stop" or "refresh" button is pressed before a request completes.
31765	Corrected a problem with FCService that caused random disconnections.
31774	Corrected a problem starting multiple FlashCONNECT connections on D3 NT and mvBase that caused some lines to fail.
31777	Corrected a problem with stopping FlashCONNECT on mvBase that caused fcexec instances to delay before dying.
31828	Corrected a problem with WWW-STOP on mvBase that caused fcexec processes to not terminate immediately.
31839	Corrected a problem with WWW-MANAGER STOP that caused the monitor to sometimes restart connections that had just been stopped.
31905	Corrected the sometimes misleading "Starting server pool <poolname>.." message so that, if the server pool is disabled, "Disabled... Not started" will be appended to that display line.

mvDesigner

Action ID	Description
31087	Corrected a problem with w3mvDDoMethod that limited the total length of the method name and parameters to 9999.

mvDesigner

Action ID	Description
31088	Corrected a problem with W3MVDPROPERTYCHANGE that prevented setting the Tab Pane \$tabcaption property for all the tabs at runtime. W3MVDPROPERTYCHANGE will now allow a property to be set multiple times (e.g. \$currenttab and \$tabcaption), rather than overwriting previous settings before they are sent to the client.
31593	Corrected a problem with FlashCONNECT internal subroutines that caused a "[B10] LINE 291 of 'WWW.IRUN2' VARIABLE HAS NOT BEEN ASSIGNED A VALUE; ZERO USED!" error on mvBase when the application subroutine is in an account other than the WWW master account, which should be the usual case.

Upgrade Procedure

Action ID	Description
31666	Corrected the upgrade program on mvBase to provide better automation of the upgrade process.
31667	Corrected a problem with the UPGRADE program that caused the w3logs file to not be processed correctly.

Release 3.6.0

Enhancements

FlashConnect

Action ID	Description
30906	Enhanced debug trace on Windows to include the thread-id for cases where more than one FlashCONNECT component was being debug-traced simultaneously.
30907	Added the setDebug() method to the FlashCONNECT Java API to enable the same debug trace functionality that is available to FCService and the FCsocketServer.

Resolutions

FlashConnect

Action ID	Description
30472	Corrected a problem with the checkup diagnostic that caused it to state an error that FlashCONNECT was not activated on D3 NT.
30807	Corrected a problem with the "checkup" program that caused it to erroneously report that FlashCONNECT was not activated.
30833	Corrected a problem with the FlashCONNECT monitor on D3 that caused it to sometimes fill the JOBS file with WWW-STOP commands without effectively stopping the targeted idle server.
30850	Corrected a problem with W3INPUT that caused servers on D3 Linux to malfunction when a W3INPUT (with a timeout) times out and is (illegally) followed by another W3INPUT, causing the loss of a license when a server in this state is stopped or logged off.
30866	Corrected a problem with mvDesigner I/O that caused large data transfers to be very slow.
30955	Corrected a problem with FCService that prevented "WWW-STOP <poolname>" from reliably stopping all the servers for that poolname.

Release 3.5.1

Enhancements

FlashConnect

Action ID	Description.
30508	Enhanced WWW-SETUP to call WWW-ACTIVATE if FlashCONNECT is not yet activated.

Resolutions

FlashConnect

Action ID	Description
30291	Corrected a problem with W3ACTION that caused the application SSL flag to be ignored.
30422	Corrected a problem with FlashCONNECT WWW account on mvBase that sometimes caused pages of data to display on the screen.
30649	Corrected a problem with WWW-ACTIVATE that caused activation failures on Windows systems using a language other than English.
30652	Corrected a problem with the fcsocketserver.exe on Windows which caused the FlashCONNECT Socket Server service to stop when the user that started it logs off, if the Java runtime is version 1.3 or greater.

Release 3.5.0

Enhancements

Documentation

Action ID	Description
24571	Added JavaDocs for the FlashCONNECT Java API.
24849	Enhanced the FlashCONNECT Programmer's Guide by adding a note to the beginning of the FlashCONNECT SAMPLE Application and Demonstration Software appendixes that explains users should use the appendixes in conjunction with the FlashCONNECT Programmers Online Reference document, which contains the syntax and parameters for the FlashCONNECT subroutines. A link is provided to that documentation.
24965	Added a new topic, Running FlashCONNECT Ports in the Foreground, to the FlashCONNECT Administrator's Guide.
25338	Enhanced the FlashCONNECT Administrator's Guide by adding these lines to the user coldstart macro: clear-jobs clear-file dm, runtime-errors, clear-file w3lines
25508	Updated the www-continue documentation and added to the Programmer's Online Reference.
26875	Updated the WWW-STATUS command in the Programmer's Online Reference with selection criteria and sort-by options.
26877	Updated the Programmer's Online Reference with screen shots of the WWW-STATUS display changes.
27407	Enhanced the FlashCONNECT Programmer's Guide and Programmer's Online Reference by adding text to the WWW-MONITOR, WWW-MANAGER, WWW-START, and WWW-STOP commands to explain that these commands can only be run from the FlashCONNECT master account.
27768	Enhanced the FlashCONNECT Administrator's Guide by adding a section to the Logging Diagnostic Messages for FCService and FCsocketServer topic that describes the path assignment for FCDEBUG text files.
27785	Added the w3GetVal documentation to the Programmer's Online Reference.
27851	Updated the Installation Guide to indicate that FlashCONNECT installs the Web server components on SunOS machines
27914	Enhanced the UNIX and Windows Troubleshooting sections of the FlashCONNECT Administration Guide by adding notes that recommend using the fccgi.pl utility if the user should experience improper passage of data between fccgi.exe and the Web server.

Documentation

Action ID	Description
28547	Updated the WWW-STATUS command documentation in the Programmer's Online Reference.
28647	Enhanced the FlashCONNECT Administrator's Guide by adding a section to the Debugging chapter on Testing FCService on a specified machine and port.
28802	Enhanced the FlashCONNECT Administrator's Guide by adding a section describing the new FlashCONNECT error message redirection feature. Also updated the section on Customizing Internet Information Server (IIS), Netscape and Apache Web Server Error Messages to reflect changes that apply based on the error redirection feature.
28877	Enhanced the Online Diagnostics section of the FlashCONNECT Administrator's Guide by adding a note to the Can FlashCONNECT connect to the configured hosts? section that states "The server pool names are checked for validity." An error message displays the invalid server pool name as well as the rules governing server pool name formats.
28886	Added to the Release Notes and the ReadMe that FlashCONNECT 3.5 is not compatible with previous versions and that interaction with any prior release component causes exceptions.
28971	Enhanced the FlashCONNECT Administrator's Guide by adding text to the sections on the NOSERVERS and SPIN error messages to explain that the messages display the name of server pool to which a connection was made or attempted.
28976	Changed FlashCONNECT_install script defaults for cgi-bin and html directory locations from /home/httpd to /var/www.
28982	Enhanced the FlashCONNECT Administrator's Guide by adding the -s option to the table that lists the available options for the FCDebug utility. Also changed the instructions for stopping the FCService to state that the FCDebug -s command should be used to stop the FCService.
28984	Enhanced the FlashCONNECT Programmer's Guide by changing the name of FCDebug.out to FCDebug.000n.txt. Added cross references to the Administrator's Guide where the format of this file is described. Also, added a procedure for logging diagnostic messages in Windows.
28988	Enhanced the FlashCONNECT Administrator's Guide by adding the uppercase V option to the FCDebug program. Also, updated the Determining Release Levels topic to indicate that the methods are no longer release specific (in other words, you can use the same procedure to determine release levels in both UNIX and Windows implementations).
29008	Enhanced the FlashCONNECT Administrator's Guide by adding a section that explains how to log diagnostic messages for the FCServer and the FCsocketServer utilities.

Documentation

Action ID	Description
29014	Enhanced the FlashCONNECT Administrator's Guide by adding a new topic describing the use of the JOBS file utility. Added notes to sections that describe performing tasks from the File Maintenance Web pages to indicate that the same tasks can be performed from the WWW account.
29349	Enhanced the FlashCONNECT Programmer's Guide by adding documentation for the w3UserTask subroutine.
29362	Updated the installation documentation to indicate support for JRE 1.4.2.
29443	Enhanced the FlashCONNECT Administrator's Guide by adding a note to the section that explains the usage of the FCService -v option that states FCService -v also displays the syntax for the FCService command.
29483	Enhanced the FlashCONNECT/mvDesigner Release Notes by adding a section that explains "A new server licence is available that allows users to run mvDesigner on an unactivated installation of FlashCONNECT. An activation key that enables this functionality is available from Raining Data Customer Support."
29557	Updated the Installation Guide and the System Administration Guide that the USER-COLDSTART and USER-SHUTDOWN macros start and stop FlashCONNECT automatically at boot and shutdown time.
29563	Updated the w3Profile documentation in the Programmer's Guide to note that this file should be maintained to avoid overflow.
29588	Enhanced the FlashCONNECT Programmer's Guide by adding the new L option to the w3Config and w3Apps files. Also added the Enabled Attribute to w3Config.
29606	Updated installation paths to include Raining Data and added that if uninstalling previous versions of FlashCONNECT, to delete the installation directory and registry entries manually.
29617	Updated the Installation Guide to use FCConfig.exe instead of flashconnect.exe and updated the Start menu path.
29663	Updated Minimum Requirements that D3 7.3 is the minimum version supported.
30074	Enhanced the FlashCONNECT Installation Guide by adding a note to the UNIX Webserver installation instructions to state that you must add the line "PassEnv LD_LIBRARY_PATH" to Apache's httpd.conf file to allow the Apache Webserver to execute the FlashCONNECT fccgi.exe program.

FlashCONNECT

Action ID	Description
25606	Enhanced FlashCONNECT install to update the D3 USER-COLDSTART and USER-SHUTDOWN macros to automatically start and stop FlashCONNECT at boot and shutdown time.

FlashCONNECT

Action ID	Description
26278	Enhanced the "FlashCONNECT User Maintenance Menu" utility to hush passwords.
27812	Enhanced the FlashCONNECT File Maintenance Menu to provide for the deletion of JOBS file entries created by FlashCONNECT phantom processes.
27842	Enhanced FCService to respond with "FlashCONNECT <version> invalid message." when it receives an invalid message, enabling a user to telnet to the listener port (1505) and confirm that FCService is running and that the version is correct.
28096	Enhanced the On-Line Diagnostics to detect invalid server pool names; enhanced "Start FlashCONNECT" to log a message in w3logs,flashconnect if it detects an invalid server pool name.
28252	Enhanced FCisapi and fccgi.exe to be able to redirect errors to customer defined web pages based on the category of the error, optionally writing a file containing all the environmental variables into a customer defined directory and passing the randomly generated file name as a parameter of the redirect URL. w3processerror subroutine added to WWW account to allow trapping of no such application, no output, and logto failures on the database server. Unauthorized logon errors are already captured in the w3logonscreen subroutine.
28902	Enhanced FlashCONNECT to include the server pool names in NOSERVERS error and SPIN warning messages.
28907	Updated the FlashCONNECT Windows setup.exe to reference the updated JRE version 1.4.2.
28980	Enhanced fcsocketserver debugging.
29038	Added "L" option to w3apps and new options field of w3config to instruct w3monitor not to log off lines in debugger.
29153	Changed the D3 W3CONFIG file so that only the data section is case sensitive, allowing easier editing of the server pools.
29439	Updated FCService -v to display the current syntax.
29455	Moved FCdebug to the same directory as FCService on UNIX platforms.
29510	Modified the default FlashCONNECT installation paths as follows: <drive>:\Program Files\RainingData\FlashCONNECT Start > Programs > Raining Data > FlashCONNECT > FlashCONNECT
29524	Added an upgrade program so that existing WWW accounts can be upgraded instead of deleted and rebuilt.
29616	Renamed flashconnect.exe to FCConfig.exe Changed Start>...>FlashConnect to Start>...>Configure Re-titled Window to "Configure FlashCONNECT"
29960	Enhanced the setup program to use full pathing (catalog accountname,filename, programname) when cataloging the FlashCONNECT programs in an FSI account.

FlashCONNECT

Action ID	Description
30001	Enhanced the file maintenance program to inform the user to enter "-" to clear a field.
30010	Enhanced the serverpool maintenance program to disallow invalid serverpool names to be entered.
30070	Enhanced the auto start/stop prompt to include the account name during the FlashCONNECT setup.

mvDesigner

Action ID	Description
29684	<p>Changed the mvDesigner editor non-printable character escape sequence from "^nnn" to "~&nnn&~". For example, a value mark is represented by "~&253&~" now instead of "^253".</p> <p>The up-arrow format clashed with "print 1.05^100" or 'select customers = "1^^^124"'. </p>

Resolutions

Data Set

Action ID	Description
29507	Corrected a problem with FCService that caused the database to get variable unassigned runtime errors in W3PRINTSOCKETFINISH.

Documentation

Action ID	Description
27360	Removed the www-restart command documentation from the Programmer's Online Reference and from the Programmer's Guide as it is no longer supported.
27922	Corrected a problem with the FlashCONNECT Administrators Guide by adding documentation to the section on Customizing WWW-IRUN and WWW-CONTINUE that states if these programs are changed, they must be recompiled with the mcompile command.
28062	Corrected a problem with the FlashCONNECT Programmer's Guide in the Hello World Static Web Application section by adding a description for the WebServerHtmlDirectory parameter. The description states that it is the path to the w3library on the Web server, or the path to a local Pick file (if the Web server and the database server are on separate machines).

Documentation

Action ID	Description
28232	Corrected a problem in the FlashCONNECT Administrator's Guide by adding a topic and instructions for starting FlashCONNECT in the foreground (from TCL).
29069	Corrected the FlashCONNECT Administrator's Guide by adding the "Searches before server unavailable status" and "Pause between searches" options to the FlashCONNECT.exe Startup tab documentation.
29414	Corrected a problem with the mvBase Prerequisites topic by adding an AUTO-LOGOFF instruction.
29475	Corrected a problem with the FlashCONNECT Programmer's Guide by adding a Warning to the WWW account topic that states "Do not develop business rules from the WWW account since changes do not take effect until FlashCONNECT is stopped and restarted. Changes to business rules developed from any other account take effect immediately, unless a process is running the business rule. If this is the case, the process continues running the business rule with the version it started with and changes occur when the process terminates."

FlashCONNECT

Action ID	Description
25459	Corrected a problem with the web interface for server pool maintenance that caused errors to be returned if a numeric value was followed by a space. The space will now be trimmed off before evaluating the data.
27170	Corrected a problem with w3monitor that could cause it to log off non-FlashCONNECT processes.
27807	Corrected a problem with the FlashCONNECT checkup program that caused it to falsely report that FlashCONNECT is not activated on D3 7.4 and 8.0.
28094	Corrected a problem with FlashCONNECT that caused the items containing the status "Product must be activated before it can be used." to be deleted before it could be read.
28200	Corrected a problem with FlashCONNECT installation on Windows XP that caused fccgi.exe to report "w3ErrLog::Open() RegisterEventSource() failed 5" errors.
28266	Corrected a problem with FlashCONNECT_install (UNIX) that caused the install to fail on Red Hat Linux 8.0.
28903	Changed FlashCONNECT_install script defaults for cgi-bin and html directory locations from /home/httpd to /var/www.
28949	Corrected a problem with FCService that caused slots to be left in "WaitDB" state, eventually causing a "no slots" status.
28965	Corrected a problem with error logging that caused garbled text in the error log file on the sun platform.

FlashCONNECT

Action ID	Description
29204	Corrected an installation problem caused by the upper/lower casing of the FlashCONNECT.d3p pseudo floppy name. The file name has been reverted to lowercase.
29350	Corrected a problem with "www-monitor stop" that caused it to stop the wrong w3monitor when multiple www accounts existed.
29420	Corrected a problem with user dialogs referencing "D3" that caused confusion when the database was not "D3".
29430	Corrected a problem with W3MONITOR that caused it to leave an item lock set in W3MONITORLOG file for each disabled server pool defined in W3CONFIG.
29480	Corrected a problem with the FCsocketServer which caused large amounts of CPU to be consumed when starting in the background.
29561	Corrected a problem with the D3 "checkup" program that caused results to scroll off the screen.
29562	Corrected a problem with the D3 loopback diagnostic that caused it to fail with a UNIX Web server.
29568	Corrected a problem with the w3monitor that caused it to attempt to start FlashCONNECT servers when no phantom licenses were available on D3 7.4/8.0.
29575	Corrected a problem with W3CONFIG file maintenance that prevented maxfree being greater than either min or max.
29839	Corrected a problem with WWW-STOP (F that caused it to not logoff FlashCONNECT servers that were in the debugger on the Windows platform.
29849	Corrected a problem with w3monitor that caused it to consume a user license to stop a server, but not return the license.
30020	Corrected a problem with fccgi.exe that caused it to not properly log an unavailable server name and display the name on the returned web page.
30021	Corrected a problem with error handling of an illegal w3exec value that presented a cross-site scripting vulnerability.
30022	Corrected a problem with FlashCONNECT installation on Windows platforms that caused both "Raining Data Corporation" and "RainingData" directories to appear in the registry.
30063	Corrected a problem with the error redirection feature that caused a "persistent timeout" exception to redirect to the "uncategorized exception" url.
30071	Corrected a problem with www-setup that caused it to report that a FlashCONNECT master account was already set up when updating the USER-COLDSTART and USER-SHUTDOWN macros.

Installation

Action ID	Description
27775	Corrected a problem with uninstall that caused it to leave the FCSocketServer installed.
27777	Corrected a problem with uninstall that caused registry entries to remain.

mvDesigner

Action ID	Description
29624	Corrected a problem with SETUP.exe that caused the check marks not to appear next to the mvDesigner selections if they were already installed.

Programs & Utilities

Action ID	Description
29839	Corrected a problem with WWW-STOP (F that caused it to not log off FlashCONNECT servers that were in the debugger on the Windows platform.
29849	Corrected a problem with w3monitor that caused it to consume a user license to stop a server, but not return the license.

mvDesigner Enhancements and Resolutions

All changes for mvDesigner 3.0 were completed under Omnis Studio 4.0. See the link below and click the What's New link for more information:

<http://www.omnis.net/products/studio/more.html>

