MICRO FOCUS

Enterprise Analyzer 3.6
Update 2

Release Notes

Contents

Enterprise Analyzer Release Notes - Version 3.6.2

These release notes contain a summary of the major features of Enterprise Analyzer Version 3.6.2, as well as late-breaking information about the product.

Before using Enterprise Analyzer, please read the *Getting Started* manual in the online help to gain an understanding of the user interface and tool metaphor. For more detail on the behavior, usage and limitations of Enterprise Analyzer, please refer to the online help.

What's New

Enterprise Analyzer Product Enhancements

Enterprise Analyzer product enhancements listed below include many code search usability enhancements and improvements, new workspace build and maintenance features, new reports for migrations and performance optimization, enhanced charts, and a new Getting Started screen to help guide new users.

Getting Started

A Getting Started pane is now shown when opening a workspace. This feature provides information on available features and guides users by opening reports and tools by clicking links in the pane.

Enhanced Charts

A new interactive chart view in addition to the existing charts is now shown when opening a workspace. Click on areas in the charts to drill down further and see a list of objects and run queries on those objects. The new interactive chart view includes 2 charts that show a view of the number of changes of the registered sources and the time since they were last changed.

Code Search Reports

A new feature, Code Search Reports, has been added to enable multiple Code Search queries to run at the same time. Begin by selecting a set of queries to run, save the set as a Code Search Report for future use, and run all queries in the background with one click. The results of the queries can be browsed interactively, saved as an HTML report, or exported to an XML file.

Code Search Reports can be started from the **Interactive Analysis** toolbar or from the **Repository Browser** in the main window. In the **Repository Browser**, select one file, multiple files, or a project and choose **Code Search Reports** from the **Reports** menu, or right-click and select from the context menu. The results are displayed in a tree view below the browser. Results for reports run in **Interactive Analysis** are displayed in the **Code Search** pane with a list for every query.

Simplified Search in Interactive Analysis

The process for running a search in **Interactive Analysis** has been simplified. Enter a string there to search for variables and paragraphs with a name matching the entered string. Results are displayed in the **Code Search** pane as usual.

To the right of the new search field is an Advanced Search link that invokes the familiar **Code Search** dialog box, making it easier to access. Use the **Code Search** dialog box to create new queries, edit queries, or execute single Code Search queries.

The **Find** toolbar icon has been replaced by new options in the **Search In** selection list:
- The current program with include files
- The current program only
- All objects.

A drop-down list for language selection has also been added to the **Code Search** dialog box. This replaces the language selection drop-down previously available from the **Start Search** button in the Code Search pane.

Code Search Query Sharing

In this release, you can now share Code Search queries with other users of a workspace. In the **Code Search** dialog box that is accessed from the **Advanced Search** link on the **Interactive Analysis** toolbar, select any custom query or folder and click the **Share** button in the toolbar at the top of the dialog box. Other users can now see the query or queries in their view. Shared queries are also visible to everyone from the Enterprise Analyzer Web client.

Source Synchronization

A new feature, Source Synchronization, has been added to simplify the process of updating the sources in your workspace. The Source Synchronization feature requires all sources to be loaded into EA to be located in a specific folder in Windows. The synchronization process monitors the sources in the folders and updates the workspace when a change is identified. New sources are added to the workspace, changed sources are updated, and deleted sources are removed.

> ⚠️ **Important:** For the Source Synchronization feature to work, the original load folder location must remain the same. This feature replaces BRP and is not compatible with sources loaded with BRP.

You can execute Source Synchronization manually from a new toolbar icon in the main window, or you can schedule it to run automatically at a specified time or interval. Optionally, you can execute it from a batch file before checking for changed sources. For example, you could use the batch file to download updated sources to the designated load folder, or execute a utility to change sources before registration. Setup options for Source Synchronization execution are available from **Workspace Options > Registration > Source Synchronization**.

Also, when you begin analysis on a program, a check is automatically performed to see if an updated version of that program is available.

Micro Focus COBOL Enhancements

Micro Focus COBOL enhancements include new reports and options that improve the workspace build process.

Performance Optimization Report

A new report, Performance Optimization, has been added to identify COBOL code that could be adjusted to maximize the performance of your programs. To generate an HTML report, you can execute Performance Optimization from the **Reports** menu in the main window or from the **Quality Reports** sub-menu. To view the results in the tool, you can execute the report from the Code Search Reports dialog box.

Migrate Net Express to Visual COBOL Report

A new report, Migrate Net Express to Visual COBOL, has been added to identify potential migration issues.To generate an HTML report, you can execute Migrate Net Express to Visual COBOL from the **Reports** menu in the main window or from the **Quality Reports** sub-menu. The HTML report contains a summary score at the top that shows the total number of results and the percentage of reports that were clear or that had hits. To view the results in the tool, run the report from the Code Search Reports dialog box.

Compiler Directives on Project Level Option

A new option, **Use project specific compiler directives**, has been added to enable you to specify compiler directives on the project level. This is useful if you have multiple applications in a workspace that require different directives during verification. The option is available from the **Project Options >**

Verification tab with **COBOL File** selected as the **Source Type**. When enabled, the compiler directives specified override the directives set in the **Workspace Options**.

Verification Options for Micro Focus COBOL Dialect

To make the process of verifying Micro Focus COBOL applications more flexible, the following verification options have been added to the Micro Focus COBOL dialect, and are available on the **Workspace Options > Verification > Legacy Dialects** tab with **COBOL File** selected as the **Source Type** and **Micro Focus** selected as the **COBOL Dialect**:

* **Micro Focus compiler compatibility level** – Provides quick access to use the MFLEVEL directive that is needed for your version of Micro Focus COBOL.
* **Environment** – Enables you to enter environment variables if they are required for compiling the COBOL programs.
* **Copybook directories** - Enables you to specify a directory of sources to be registered as copybooks regardless of their extension. This is useful if you have copybooks with a COBOL extension. The file type for each file in the specified directory is switched to the copybook type if it is referenced in another COBOL program as a copybook during verification.

Change COBOL File or Copybook File Types

The Change Type feature has been added to make the process of verifying COBOL applications easier. This is useful to switch the file type of a registered file from COBOL file to copybook or from copybook to COBOL file when either was registered incorrectly because of its file extension. To access the feature, right-click a file or a selection of files in the **Repository Browser** and select **Change Type** from the context menu.

Other Enhancements and Changes

* **Reports menu changes** – In addition to the new **Code Search Reports** menu item, the **Portability Assessment** option has been moved under the new **Migration Reports** menu, and the **Quality Assessment** report is now included under the new **Quality Reports** menu.
* **RM/COBOL dialect option** – A new RM/COBOL dialect has been added to the **COBOL Dialect** list in the **Workspace Options**. This replaces the **RM/COBOL compatibility** option previously available with the ACUCOBOL dialect selected.
* **SQL dialect option changes** – A new SQL Dialect has been added to the workspace options for SQL verification. This dialect replaces the previous DB2 for OS/390 and ANSI SQL-92 dialects.
* **Folder selection dialog** – A new folder selection dialog has been added to make the process of selecting folders for registering sources easier.
* **KornShell** – An extension for KornShell is now included as a configuration option. By default, files with `.ksh` and `.sh` extensions are registered as KornShell. Verify KornShell files to see relationships to jobs that have relationships to data stores and tables.
* Parallel verification is now enabled by default on new workspaces.

Upgrades from Previous Versions

Enterprise Analyzer 3.6.2 supports upgrades of workspaces from Enterprise Analyzer version 3.5.2 GA or 3.5.2 with HotFix 8, version 3.6 GA or 3.6 with HotFix 6, and version 3.6.1 GA or 3.6.1 with HotFix 4.

Note: If upgrading a workspace from a version earlier than 3.5.2 GA, follow the instructions below for your last version:

- For version 3.2, you will need to uninstall the product first, install version 3.4 HotFix 10 and upgrade the workspace, and then install version 3.5.2 GA and upgrade the workspace before upgrading to version 3.6.2.
- For version 3.3, install 3.3 HotFix 13 and upgrade the workspace, and then install version 3.5.2 GA and upgrade the workspace before upgrading to version 3.6.2.
- For version 3.4, install 3.4 HotFix 10 and upgrade the workspace, and then install version 3.5.2 GA and upgrade the workspace before upgrading to version 3.6.2.
- For version 3.5, install 3.5 HotFix 11 and upgrade the workspace, and then install version 3.6.1 GA and upgrade the workspace before upgrading to version 3.6.2.

Special instructions for upgrades from 3.5 HotFix 11 or earlier:

If you are upgrading a workspace from EA 3.5 HotFix 11 or earlier, you might receive an "insufficient privileges" message when trying to upgrade the workspace to 3.6.1. In this case, with EA 3.6.1 installed, copy the `Policy.Simple.xml` file from the `EA installation directory\Templates` folder into the workspace folder, replacing the existing file. You can then to perform the workspace upgrade to 3.6.1 and continue with the upgrade to 3.6.2.

Important: All workspaces must be upgraded after installing EA 3.6.2. Before upgrading, we recommend you contact SupportLine for the latest Enterprise Analyzer updates. SupportLine is also available to give guidance on best practices for workspace upgrades. Before performing the upgrade on important workspaces, be sure to back up the database and the workspace folder along with the `.rwp` file. If you experience any issues or errors with the workspace upgrade process, please contact SupportLine with a description of the problem and include the contents of the `Upgrade` folder from the workspace as an attachment.

Updating the EA Web Client

After installing Enterprise Analyzer 3.6.2, the following steps should be performed to continue using the EA Web client.

1. Stop the Apache Tomcat service.
2. Delete `EAWeb.war` and the `EAWeb` folder from `C:\Program Files (x86)\Apache Software Foundation\Tomcat\webapps`.
3. Delete everything in the `...\Tomcat\temp` folder.
4. Delete everything in the `…\Tomcat\work\Catalina\localhost` folder.
5. Copy the `EAWeb.war` file from `EA installed directory\Web Client` into the `…\Tomcat\webapps` folder.
6. Start the Apache Tomcat service.
7. In the properties for the Enterprise Analyzer Web Service, go to the **Log On** tab, choose **This account** and enter the account of a user with access to EA and the workspace.
8. Restart the Enterprise Analyzer Web Service.

   Note: The browser clients might need to hard refresh the EA Web page with **Ctrl+R** to get the latest version.

   Note: Due to an incompatibility between Java 8 and Tomcat 6.0, you might need to uninstall Tomcat 6.0 and install the Apache Tomcat 7.0.62 that is included with the EA 3.6.2 installer.

   Note: When using EA Web in Internet Explorer, compatibility mode should be disabled.

Updating the Eclipse Plugins

The following steps must be completed after installing EA 3.6.2 to continue using the Clipper View and Search Assistant plugins.

1. On the EA server, in the properties for the Enterprise Analyzer Web Service, go to the **Log On** tab, choose **This account** and enter the account of a user with access to EA and the workspace. Restart the Enterprise Analyzer Web Service.
2. Open Eclipse or Enterprise Developer on the client machine.
3. Go to **Help** > **About Eclipse**.
4. Click the **Installation Details** button.
5. Select **Enterprise Analyzer Access** and click **Uninstall**.
6. Click **Finish** and when prompted, restart Eclipse.
7. When Enterprise Developer/Eclipse opens again, click **Help** > **Install New Software**.
8. Click the **Add** button next to the **Work with combo** selection.
9. Click **Archive** and point to the `EAIntegration.repository.zip` file in *EA installed directory*\Bin. Then add a name in the **Name** field and click **OK**.
10. In the Install window, check the box for **Enterprise Analyzer Access**. Click **Next**.
11. Click **Next** again.
12. Accept the license agreement and when prompted, restart Eclipse.

Important Notes

- The Developer Client license allows one user access to the workspace build features of the EA desktop software. The Developer Client users access the workspace repository through the Web UI only and do not install the EA desktop software.
- If installing an Analyst Client license on a machine that already has a Developer Client license, you must remove the Developer Client license to enable the Analyst Client features for the user.
- If you experience an issue with the Micro Focus License Manager not functioning properly after installing version 3.6.2, uninstall License Manager and reinstall it from the Enterprise Analyzer installer `Packages\SentinelRMSLicenseManager` folder.
- When installing Enterprise Analyzer on Windows 8, Windows 10, or Windows Server 2012, you might receive an error that says the .NET Framework 3.5 could not be installed. In this case, you must enable the .NET Framework 3.5 on the operating system. To do this:

  1. Ensure that you have the installation media for your operating system accessible on the machine or on a mounted ISO.
  2. Start a command prompt as an administrator by locating it on the **Start** menu, right-clicking, and selecting **Run as administrator**.
  3. Enter the following command:

     ```
     Dism.exe /online /enable-feature
     /featurename:NetFX3 /source:F:\sources\sxs /LimitAccess
     ```

     where *F*: is your installation media drive.

Known Issues

Where specified, the numbers that follow some of the issues are the Support Incident numbers followed by the Reported Problem Incident (RPI) number in parentheses.

- The new **Micro Focus compiler compatibility level** option has an issue that causes the selected value to be ignored. To work around this, you need to enter the directive for the desired level in the **Compiler Directives** option - for example: `MFLEVEL(11)`.

Resolved Issues

The numbers that follow each issue are the Support Incident Numbers followed by the Reported Problem Incident (RPI) number (in parentheses).

- *EA - Checker*
- *EA - Administration*
- *EA - Analysis - Hyperview - Clipper*
- *EA - Backend*
- *EA - Backend - Analysis*
- *EA - Backend - Analysis - Cobol*
- *EA - Backend - Analysis - IMSAnalysis*
- *EA - Backend - Analysis - JCL*
- *EA - Backend - Architecture Modeler*
- *EA - Backend - Expand Macros*
- *EA - Backend - Parsing - Cobol*
- *EA - Backend - Parsing - Cobol/Cobol 390*
- *EA - Backend - Parsing - Cobol/Cobol 400*
- *EA - Backend - Parsing - Cobol/MicroFocus*
- *EA - Backend - Parsing - DBD*
- *EA - Backend - Parsing - DDL*
- *EA - Backend - Parsing - EmbeddedSQL*
- *EA - Backend - Parsing - JCL*
- *EA - Backend - Parsing - PL/I*
- *EA - Backend - Verification*
- *EA - Batch Application Viewer*
- *EA - Batch Refresh Process*
- *EA - Business Rules*
- *EA - Change Analyzer*
- *EA - Decision Resolution*
- *EA - Diagrammer*
- *EA - EAWeb*
- *EA - ED/VC Integration*
- *EA - HyperView - Callie*
- *EA - HyperView - Clipper*
- *EA - HyperView - Impact*
- *EA - IDE*
- *EA - Quick Inventory*
- *EA - Reports*
- *EA - Wizard*
- *MTO - CICS ECM/Preprocessor/Translator*

Checker

- An issue with using DECLARATIVES without a USE statement has been fixed.

  2867168(1105446)

EA - Administration

- The Timeout Period description for the Queue Pre-processing option in the BRP configuration now correctly says "in minutes" instead of "in seconds".

  2869613 (1105820)

- The name of the selected workspace is now shown when editing users.

  2872703 (1106323)

EA - Analysis - HyperView - Clipper

- An issue that could prevent the Interactive Analysis window from opening has been fixed.

  2858783 (1104225)

- The operators for attributes with multiple integer values are now handled correctly.

  2869062 (1105834)

EA - Backend

- An issue that caused a license failure after removing some languages from the configuration has been fixed.

  2879809 (1107233)

EA - Backend - Analysis

- The parsing of filenames in Easytrieve JOB and DISPLAY statements has been fixed to correct CRUD Report.

  2855328 (1103761)

- Create, Read, Update and Delete relationships for PL/SQL verification have been added.

  2852829 (1103775)

- Several PL/SQL verification errors have been fixed.

  2866880 (1105404)

EA - Backend - Analysis - Cobol

- A problem that prevented some analysis data on nested SQL queries from being captured has been fixed.

  (622790)

- The behavior of the product when hitting a limitation for execution paths has been improved.

  2852517 (1103497)

- An issue that causes an error during Impact Analysis on some large source files has been fixed.

  2858918 (1104244)

- An issue with resolving program entry points from linkdecks due to the location of the main INCLUDE has been fixed.

  2858761 (1104291)

- An issue when verifying with Generic API enabled has been fixed.

  2858577 (1104396)

- An issue with program entry point resolutions from linkdecks has been fixed.

  2860224 (1104398)

- A problem causing the CRUD information to be incorrectly assigned on the CRUD Report has been fixed.

2861154 (1104838)

- The discovery of main entry when more than one is present has been improved for LinkDeck files.

  2858718 (1105807)

EA - Backend - Analysis - IMSAnalysis

- An issue with IMS Analysis has been fixed.

  2859081 (1104288)

EA - Backend - Analysis - JCL

- A problem with SYSIN control cards returning RWGEN as Unresolved has been fixed by eliminating the creation of the "Uses Control Card File" relationship for DUMMY files.

  2820347 (1099420)
- An issue that resulted in an incorrect DISP value when a JCL overrides a procedure has been fixed.

  2873596 (1106427)
- An issue with the impact trace from a DSN in a JCL to a COBOL program has been fixed.

  2874199 (1106532)

EA - Backend - Architecture Modeler

- Architecture Modeler no longer shows double lines for some relations.

  2865727 (1105217)

EA - Backend - Expand Macros

- An issue where Easytrive macro files were not identifying other used macros due to the location of the macro files has been fixed.

  2850573 (1103507)

EA - Backend - Parsing - Cobol

- Errors related to EXEC Oracle statements have been fixed.

  2852858 (1103398)
- A new option, "Use source filename as program ID", has been added in Workspace Options > Verification > Settings > COBOL, which will replace the program ID with the source filename.

  2854190 (1103548)
- Level 66 RENAMES clause no longer produces a verification error.

  2855719 (1103806)
- A memory access violation error when verifying Tandem Screen COBOL files has been fixed.

  2857917 (1104142)
- The ExprType attribute in Interactive Analysis is now populated for arithmetic expressions. The possible values are "+","-","*","/" or "**" depending on the operator.

  2859941 (1104366)
- An issue with parallel verification for COBOL files when directives files are used has been fixed.

  2861015 (1104526)
- There is no longer an error when there is a PICTURE clause on structure level.

  2859861 (1104754)
- An issue where the Currency Sign option from the workspace options was not correctly taken into account during verification has been fixed. If the "CURRENCY SIGN IS" statement is present in the

program code, the currency symbol specified in the statement will override the one specified in the workspace options.

2863492 (1105003)

- The "Use Database Schema" workspace option now supports resolving consecutive usages of the same table/view.

2867638 (1105685)

- The COPYEXT directive can now be used as a project-level compiler directives option to instruct a program to pick up the DCLGEN version of a copybook referenced in an EXEC SQL INCLUDE statement and there is another copybook with the same filename prefix but different filename extension present in the workspace. To specify the COPYEXT directive on the project level, place the DCLGEN-referencing COBOL file and the .dcl file into the same project, and add the COPYEXT directive, specifying the appropriate file extension of your copybook. This forces the EXEC SQL INCLUDE statement to use the copybook file with the non-.dcl extension. For example:

COPYEXT(.dcl,.cpy)

As this option is project-specific, it does not affect other projects.

2869992 (1105908)

- Slash in Tandem Copybook Statement no longer causes problems finding the copybooks.

2871820 (1106166)

- A problem with the navigation of the EVALUATE statement in the Source and Context panes in Interactive Analysis has been fixed.

2877231 (1106908)

EA - Backend - Parsing - Cobol/Cobol 390

- Grammar for IDMS parser has been fixed to distinguish correctly between the ERASE keyword within different statements.

2849890 (1103061)

- The issue with COBOL IDMS MODIFY MAP statement when CURSOR row and column are given as constants has been fixed.

2852437 (1103319)

- A missing period after a schema section no longer causes verification problems.

2852487 (1103338)

- An issue when verifying with Generic API enabled has been fixed.

2858577 (1104221)

- IDMS statements are now handled by the IDMS parser when there are semicolons after END-EXEC.

2866475 (1105380)

- An issue with Hogan activity IDs not getting processed correctly during verification with COMP S9(8) data types has been fixed.

2871451 (1106708)

EA - Backend - Parsing - Cobol/Cobol 400

- A crash when using a LIKE clause with an array has been fixed.

2871413 (1106135)

EA - Backend - Parsing - Cobol/MicroFocus

- An informative verification message is now returned when the unsupported $SET CALLMAP statement is used.

2876185 (1106788)

EA - Backend - Parsing - DBD

• An issue with the COMPRTN attribute of a SEGMENT for DBD file has been fixed.

2873658 (1106711)

EA - Backend - Parsing - DDL

• An issue with column definitions that have function as default value for DB2 SQL dialect has been fixed.

2856505 (1103961)

EA - Backend - Parsing - EmbeddedSQL

• Support for the (+) sign in EXEC SQL statements has been added.

2850797 (1103754)

• The SELECT UNION SQL statement when using brackets is now successfully verified.

2875049 (1106809)

EA - Backend - Parsing - JCL

• A new workspace option called "JCL Variable Definitions" has been added to the Verification > Settings tab for JCL File. This allows a list of variables to be defined (equivalent to the SET command in the JCL program).

2858198 (1104455)

• VSAM is now spelled correctly in the Access Type attribute for Data Store objects.

2863636 (1104892)

EA - Backend - Parsing - PL/I

• An issue with PL/I programs referenced from JCL not being recognized as an IMS starting point has been fixed.

2854244 (1105429)

EA - Backend - Verification

• An XML problem with Netron sources has been fixed, but the source types below need to be registered in specific folders for verification to complete.

Type: Netron Frame
Folder: NetronFrame
Extension: .nfrm

Type: Netron Generated Frame
Folder: NetronGen
Extension: .ngen

Type: Netron COBOL Specification Frame
Folder: NetronSPC
Extension: .nspc

After placing the files in the correct folders, register the folders in workspace.

2865259 (1105193)

- A verification error on 'job' syntax was fixed and no longer appears when verifying PL/SQL files.

  2852829 (1105295)
- An issue with the mv statement in KornShell has been fixed.

  2878758 (1107090)
- An issue with the cp statement in KornShell has been fixed.

  2879130 (1107141)
- A problem that caused EA to fail on unknown constructs in KornShell scripts has been fixed.

  2879167 (1107146)
- An issue with the Job Starts Job relationship for KornShell has been fixed.

  2879168 (1107147)

EA - Batch Application Viewer

- An issue with the step name not displaying correctly in the Data Set View has been fixed.

  2865417 (1105163)
- System datasets are no longer shown in Batch Application Viewer.

  2865394 (1105169)

EA - Batch Refresh Process

- An issue with setting the Revision Number attribute for source files has been fixed.

  2863166 (1104819)
- An issue that caused an error message in the BRP update log has been fixed.

  2865259 (1106308)
- Detailed information for required parameters from RXP queries has been added to the instructions in the TAG.bj file.

  2875095 (1106629)

EA - Business Rules

- Rule deletion process is now faster.

  2871625 (1106324)

EA - Change Analyzer

- The Change Analyzer list context menu now has different actions for single and multiple item selection.

  2867569 (1105521)
- The processing time for finding synonyms in Change Analyzer has been reduced significantly by disabling cross program analysis by default. There is now an option called "Use Cross Program Analysis" in the Change Analyzer project options.

  2850478 (1103458)
- An issue with source highlighting in the Change Analyzer Affected Code Report when file keys are used as starting points has been fixed.

  2850600 (1103801)
- An issue with resizing the Source pane in Change Analyzer has been fixed.

  2852706 (1103990)
- An issue with the depth for the synonyms search has been fixed.

  2858373 (1104270)

- The following changes have been made to improve the performance and usability of Change Analyzer:

  - Improved performance when displaying list results.
  - A warning dialog has been added when cross program analysis is enabled and analysis is run from Change Analyzer. The warning dialog can be disabled from the project options.
  - Running analysis from the repository browser does not perform cross program analysis, regardless of the project options.
  - A maximum number of 20 starting points is allowed for analysis. A warning dialog is displayed if the user attempts to start analysis with a higher number of starting points.

  2860969 (1104552)

EA - Decision Resolution

- The loading time of the Decision Resolution tool has been greatly improved.

  2858603 (1104256)

EA - Diagrammer

- An issue with saving diagrams in Visio format when using European decimal and thousands separator characters has been fixed.

  2859682 (1105002)

EA - EAWeb

- When a query returns no results in EA Web, the user will now receive a message that no results were found and the empty tab is closed.

  2799451 (1096731)
- Shared queries are now visible to EA Web users.

  2856521 (1104141)
- An issue with the Enterprise Analyzer Web Service hanging due to database connection issues has been fixed.

  2854929 (1104354)

EA - ED/VC Integration

- The performance has been improved.

  (618309)
- The criterion for dead statements within a program has been modified to exclude child elements of statements.

  (619537)
- Level 78 constant names used in picture definitions are now replaced with the actual values.

  (619706)
- An issue with de-referencing NULL pointers during program generation has been fixed.

  (621747)
- An issue with de-referencing a NULL pointer has been fixed.

  (621750)

EA - HyperView - Callie

- The Program Control Flow diagram no longer reports relations towards declarative use sections from I/O operations.

2863444 (1104857)

EA - HyperView - Clipper

• The new Code Search query definition will now accept string values with the "Like" operation on attributes of type enum.

2871597 (1106149)

• Code Search queries can now be shared such that all users can both see and run them.

2846262 (1102560)

• An issue where an invalid Code Search query could result in a crash has been fixed.

2863557 (1104877)

• An issue with saving the Code Search detailed report has been fixed.

2873441 (1106399)

• In some cases, giving a code search query the same name as a deleted query was not allowed. This has been fixed.

2877203 (1106905)

• An issue that caused several Quality Assessment queries to fail has been fixed.

2877183 (1106906)

EA - HyperView - Impact

• Impact Analysis node expansion time for very large programs has been reduced.

2852737 (1103383)

EA - IDE

• A problem that occurred when saving or running a Code Search query that caused the selected type of relationship for a Declaration to change has been fixed.

2873255 (1106382)

• An issue with editing a project options file from the options manager has been fixed.

2856175 (1103948)

• An issue where all called programs may not have been shown in the browser for JCL files that called multiple entry points has been fixed.

2862934 (1104774)

• Cancelling verification no longer causes a crash.

2865729 (1105249)

• An issue when generating the Session Report has been fixed.

2858785 (1104266)

EA - Quick Inventory

• Support for Linkdeck files has been added in Quick Inventory.

2855695 (1104010)

EA - Reports

• Saving a report in .txt or .csv format no longer requires Microsoft Excel to be installed on the machine.

2858422 (1104267)

• An issue with some links in the Executive Report not working in newer versions of Apache Tomcat has been fixed.

2853800 (1104031)

- An issue with generating the Inventory Report in CSV format in batch has been fixed.

  2854935 (1103733)

- A problem with the display of the Source Lines column header that occurred on an Inventory Report generated in batch has been fixed.

  2865748 (1105239)

- PA report "Outbound Interface Report" no longer includes temporary, RW-GEN*, DUMMY, NULLFILE files.

  2800216 (1096823)

- The "Fixed length file to be migrated" report now eliminates duplicate names.

  2866614 (1105492)

- An issue with the Direct References (All) Query Repository report has been resolved.

  2865223 (1105157)

EA - Wizard

- The Workspace Build Wizard now works correctly with IMS transactions as starting points.

  2855698 (1104021)

MTO - CICS ECM/Preprocessor/Translator

- Non-unique locations within EXEC CICS statements are now flagged as Not Unique when compiled if they need to be qualified.

  (617639)

Updates and SupportLine

Our Web site gives up-to-date details of contact numbers and addresses.

Contacting Micro Focus

Micro Focus is committed to providing world-class technical support and consulting services. Micro Focus provides worldwide support, delivering timely, reliable service to ensure every customer's business success.

All customers who are under a maintenance and support contract, as well as prospective customers who are evaluating products, are eligible for customer support. Our highly trained staff respond to your requests as quickly and professionally as possible.

Visit *http://supportline.microfocus.com/assistedservices.asp* to communicate directly with Micro Focus SupportLine to resolve your issues, or email supportline@microfocus.com.

Visit Micro Focus SupportLine at *http://supportline.microfocus.com* for up-to-date support news and access to other support information. First time users may be required to register to the site.

Information Needed by Micro Focus SupportLine

When contacting Micro Focus SupportLine, please include the following information if possible. The more information you can give, the better Micro Focus SupportLine can help you.

- The name and version number of all products that you think might be causing an issue.
- Your computer make and model.
- System information such as operating system name and version, processors, and memory details.
- Any detailed description of the issue, including steps to reproduce the issue.
- Exact wording of any error messages involved.
- Your serial number or works order (WO) number.

To find out these numbers, look in the subject line and body of your Electronic Product Delivery Notice email that you received from Micro Focus, or on the box in which the product was supplied, and on the red card supplied in the DVD case .

Appendix I: Enterprise Analyzer Features per Client

Capability	Analyst Client	Developer Client
Intended target audience for each client type	Business Analyst	Developer
Client interface	Windows-based GUI	Web Interface
System Level Objects and Metrics		
Search Assistant	✔	✔
Reference reports	✔	✘
Diagrammer (project)	✔	✘
Diagrammer (object)	✔	✔
CRUD Report (project)	✔	✘
CRUD Report (object based)	✔	✔
Complexity metrics	✔	✘
Syntactical Analysis		
Code Search	✔	✔
Source pane with navigation	✔	✘
Program Control Flow	✔	✘
Portability Assessment reports	✔	✘
Quality Assessment reports	✔	✘
Advanced Analysis Options		
Field level data dependencies	✔	✘
Change Analyzer (full)	✔	✘
Change Analyzer (single data item)	✔	✔
Impact pane	✔	✘
Execution Path Analysis	✔	✘