



Enterprise Analyzer 3.5

A decorative graphic consisting of several overlapping, wavy blue lines that create a sense of motion and depth, positioned in the lower half of the page.

Release Notes

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Enterprise Analyzer Release Notes - Version 3.5

These release notes contain a summary of the major features of Enterprise Analyzer Version 3.5.00, as well as late-breaking information about the product.

Before using Enterprise Analyzer, please read the *Getting Started* manual located in the online help, or the Documentation subfolder under the product installation folder, 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 and additional user manuals.

What's New

Enterprise Analyzer Product Enhancements

Enterprise Analyzer product enhancements listed below include the host environment source compatibility mode (folder/homonym support), Web browser access to the repository, Eclipse integration with plugins for creating developer tasks from advanced search results and search assistant with repository queries, faster access to the workspace after verification, and simplification for building Java workspaces.

Host Environment Source Compatibility Mode

Background

Before version 3.5, Enterprise Analyzer organized the source files loaded into the workspace by type.

As a result, when a Mainframe shop downloaded the different legacy sources and loaded them into EA, there was no traceability back to the original PDS that was used on the Mainframe to hold those source members. This also meant that there was no way to load two members with the same name into EA even though two PDSs (or folders in a non-Mainframe environment) can have members with identical names in them.

Version 3.5 aims to address this by allowing the user to preserve the same organization of sources as they had on the host environment.

Approach

To achieve compatibility with the host environment, EA 3.5 allows the user to create a folder structure that would match the organization of sources on the host environment. Creating a compatible folder structure makes it simpler for developers to find the sources in the same locations that they are familiar with on the host, as well as allowing EA to create the correct relationships when connecting programs with their copybooks, and JCLs with the correct version of the PROCs or control cards that are used. Run-time connections are also established based on this structure. Note this structure will also allow for "duplicate" names also known as Homonym support.

For more information on how the references to include files and called programs are resolved, please see the *Host Environment Source Compatibility* chapter under *Registering Source Files* in the Enterprise Analyzer online help.

Upgrades

The host environment source compatibility mode is only available in new workspaces created with EA version 3.5. Workspaces upgraded from earlier versions will continue to use the old style registration by types.

BRP Setup

Organize your sources in folders in a structure that reflects your enterprise organization and place those folders under the prepared sources folder (...\`Workspaces\BRP_ws\PreparedSources`). The BRP process will not remove the folders after registering the files, allowing you to keep adding or changing files in the structure.

Online Registration

To register sources through the Enterprise Analyzer main window, make sure the sources are organized in the most compatible folder structure (the same as the BRP structure). Register them by selecting the root folder(s) in Windows Explorer and then copying and pasting with **Ctrl+C** then **Ctrl+V** (or dragging and dropping if UAC is disabled) into the Repository Browser with a project selected.

When updating or adding new sources through the EA main window, the files or folders being registered will be included into the selected folder in the Folders view. Registration into the Types view will copy the selected files and folders directly to the root Sources folder, i.e. they will not be copied into any other existing folders.



Note: Some tools in EA will show duplicate names in lists if there are homonyms in the project. In some tools, the tool-tip shown when hovering over these object names will show the folder context for the object.

Folder Browser with Integrated Search

Folders and Types Views

The Repository Browser now has two views for the objects in the workspace. The traditional view of objects by types can be seen in the Types tab. The Folders tab shows the view of the folders and files registered into the workspace.

When there are homonyms in the project, the Types view will show a grouping node with the duplicate named objects that can be expanded to show each object with a prefix in the name showing the folder location.

A new right-click menu item in the browser called **Show in Folders/Types view** will switch to the currently inactive view with the same object selected. This is useful when viewing a file in the Types view and you want to see where it is included in the folder structure in the Folders view. A similar method called **Show in Repository Browser** is available from the Query Repository results tables and the Activity Log.

Search Assistant

The **Search** tab for Search Assistant has been removed and is now integrated into the **Folders** and **Types** browser tabs. Search results are organized by folders in the Folders view and by types in the Types view. Options to adjust the types returned by the search are available in the **User Preferences > Search Assistant** tab.

Web Browser Access to EA Data

A new Web application allows users to search the repository without needing to install Enterprise Analyzer on the client machine.

The first version of this new feature lets you search the repository and run queries on the results, find data access information and draw diagrams for objects.

A new Windows service called Enterprise Analyzer Web Service is installed on the EA server. A new menu item in Enterprise Analyzer Administration called **Configure Web Service** is available to configure this service to work for a selected workspace.

For installation instructions for the server, see the `Install and Deploy EAWeb.txt` file in the Enterprise Analyzer Documentation folder available from **Start > Micro Focus > Enterprise Analyzer**. Enter the URL [http://\[server-name\]:8080/EAWeb](http://[server-name]:8080/EAWeb) in your Web browser after the Web application has been deployed.

Eclipse Integration

Two plugins for Eclipse are included in Enterprise Analyzer 3.5. For installation instructions, see *Installing EA Plugins for Eclipse.pdf* in the Enterprise Analyzer Documentation folder available from **Start > Micro Focus > Enterprise Analyzer**.

Clipper View

The Clipper View plugin imports a list exported from the Clipper pane in EA Interactive Analysis. From this result set you can:

- Create a "local" Eclipse task list
- Tag each line in the source code with a "marker"
- Create/Update a shared task list, managed through Mylyn plugin connector to a back-end task repository (this will need to be configured).

For more information on using this plugin, see *Eclipse_Plugins_Readme.txt* in the Enterprise Analyzer Documentation folder available from **Start > Micro Focus > Enterprise Analyzer**.

Search Assistant

The Search Assistant lets the user search a remote EA workspace and run queries on the returned objects. The returned object references can be used to add source files to the local Eclipse project.

Faster Access to the Repository during the Build Process

When registering and verifying sources with the EA online tool, you can begin using EA as soon as verification is finished. Loading of the hypercode information into the database will continue in the background. Some reports that do not require the hypercode information can be opened without any issues. Other tools that require hypercode information will display a warning and prompt the user to load the information for selected objects on-demand.

 **Note:** The parse status icon in the Repository Browser will show a "chipped" (a circle with a quadrant missing) icon when the database information for these objects has not yet been loaded into the database. When the database information is loaded, the parse status icon will update to the full circle icon.

Java Parsing Enhancements

The Java parser now processes Java files individually. Relaxed parsing verification will be performed to show as many relationships as possible when there are unresolved references and missing `.jars`.

Only new workspaces created with EA version 3.5 will use this new method for parsing Java. Workspaces upgraded from previous versions of EA will continue to use the Java add-on. The Java add-on is no longer required for Java parsing in new workspaces created with version 3.5 and is therefore not included with the Enterprise Analyzer 3.5 installation. Please contact Micro Focus SupportLine if you need access to the old Java add-on.

JRE 7 or higher is now required for Java parsing in workspaces created with EA 3.5.

 **Note:** When using the Java add-on parser with upgraded workspaces, the verification status icon will always show the partial load icon. This can safely be ignored.

Long Running Reports in Background

You can now choose to run the following reports in the background while continuing to use the tool:

- Portability Assessment
- Quality Assessment
- Executive Report
- CRUD Report.

The reports will be run with a Queue Processor, and the Activity Log will be updated with a record when the report is ready.

IMS Analysis Management Tool

A new tool provides a graphical user interface for management of the IMS Analysis process. Launch the tool from Enterprise Analyzer Administration by choosing **Tools > Launch IMS Administrator**.

With the IMS Administrator, you can check the status of what has not been analyzed, run IMS Analysis for specific root programs, or run the full IMS Analysis and see the progress.

HyperCode Enhancements

Configuration Section

The COBOL configuration section has been added to the HyperCode in Interactive Analysis and can be searched in Clipper. Reverification of the COBOL files is required to see this in upgraded workspaces.

Comments

Comments are now included in HyperCode for COBOL and can be searched in Clipper. Reverification of the COBOL files is required to see this in upgraded workspaces.

Change Analyzer

Change Analyzer now starts with three default lists: **Working**, **Affected**, and **Complete**. The menu items have been reorganized to focus on lists and synonyms. The **Populate List** item from the **Lists** menu has replaced the **Apply Filter** menu item. In the **Synonyms** menu, the **Find Synonyms** function is now simplified to sub menus for finding synonyms for **This Term Only**, **This Program Only, all terms** and **All Programs, all terms**.

Complexity Metrics Report Simplification

The Complexity report now opens with the **Program** entity type selected if there are programs in the project. And the Entity Type selection list now only includes types that are included in the current project.

Diagrammer - Icons in Diagram Boxes

Diagrams can now show the object type icons in the boxes. This feature is enabled by a new option that is disabled by default: **User Preferences > Diagrams > Show Entity Icons**.



Note: When this option is enabled, the nodes on the diagram will be sharp cornered boxes and the shape of the boxes cannot be changed.

Other Enhancements and Changes

- The Standard and Developer product configurations have been removed. Now there is just one Analyst configuration that includes all tools. Business Rule Manager is still licensed and configured separately.
- The HyperView window has been renamed to Interactive Analysis.
- Query Repository results have a new right-click menu item to open Interactive Analysis for a selected object.

- Interactive Analysis can be opened for a file that includes a selected HyperCode object in the browser search results.
- Logic Analyzer now includes all the componentization methods, not just Dead Code Elimination.
- Boundary Decisions can now be created in batch using the `BoundaryDecisions.bj` file.
- Users that did not install EA can now access SQL Server Express workspaces created by other users.
- The Activity Log now shows a plus icon to the left of a record when it can be expanded to show further messages. Previously the record would appear bold if it could be expanded. Note that these records still need to be double-clicked to be expanded.
- Diagrammer - the selected row in the Relationships pane will now stay visible when sorting columns in the pane.
- Batch Application Viewer - when using the Analyze functionality on a Data Set item from the Data Set Flow pane, the analysis is performed for that item and the same item is being searched for, and then selected in the (leftmost) Data Set pane. In addition, double-clicking on a Data Set item from the Data Set Flow pane selects it in the Data Set pane.
- Quick Inventory path settings in the Project Options can now be re-ordered to prioritize the search paths. Right-click a path to move it up or down in the list.
- The Hyper Code Info attribute has been removed from `Device Description` files.
- The **Enable extended ASCII for SQL identifiers** embedded SQL workspace verification option for COBOL and PL/I has been removed as it is now the default behavior.
- The **Register sources inplace** workspace registration option has been removed. Workspaces upgraded from EA 3.4 will continue to use the in-place registration if it was enabled before the upgrade.
- The Oracle client installer has been removed from the EA installer files. Please contact Micro Focus SupportLine for more information. The documentation will be updated with instructions to note this change to the EA installation steps in an upcoming HotFix.

Nonfunctional Changes

Windows 8 and Windows Server 2012 Support

Windows 8, 32-bit and 64-bit, and Windows Server 2012 64-bit are now supported.

SQL Server Express 2012

SQL Server Express 2012 is now installed automatically on platforms that support it. SQL Server Express 2008 will still be installed on Windows XP machines.

Performance Optimization Guidelines

A new section in the documentation has been added to the Installation Guide, called *EA Performance Optimization Guidelines*. This section recommends hardware configurations for optimal performance during the repository build phase and describes the best use of verification options and Queue Processors for performance.

Updates from Previous Version

Enterprise Analyzer 3.5 supports upgrades of workspaces from Enterprise Analyzer version 3.2 with HF 11, 15, or 16, version 3.3 GA or HF 4, 10, or 11, version 3.4 GA or HF 4, 5, or 6.



Note: Upgrades from SQL Server workspaces on version 3.2 HF 11, HF 15, or HF 16 will need to upgrade to version 3.4 GA before upgrading to 3.5.

Known Issues

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

- VB 6 parsing does not work with homonyms. This issue will be addressed in an upcoming HotFix.
- C/C++ parsing does not work with homonyms. This issue will be addressed in an upcoming HotFix.
- Quick Inventory does not work with parallel verification. This issue will be addressed in an upcoming HotFix. (593910)
- Protected projects can be deleted. This issue will be addressed in an upcoming HotFix. (599394)
- Metrics History attribute selection changes made from Enterprise Analyzer Administration are reset for a workspace when it is upgraded. Please re-apply your changes before verifying files in upgraded workspaces. This issue will be addressed in an upcoming HotFix. 2666829 (1091242)
- Some Java Package metrics are not currently being calculated: Abstractness, Afferent Coupling, Efferent Coupling, Instability, Normalized Distance. (599468)
- Auto-Resolve decisions from the Prepare menu does not work. This does not affect the automatic resolution of decisions during verification. This issue will be addressed in an upcoming HotFix. (596732)
- The Enterprise Analyzer Web Service occasionally stops. The Recovery settings for the service are set to restart after failures. This issue will be addressed in an upcoming HotFix. (599417)
- Enterprise View: Metrics for homonyms (objects with the same name) are not reported correctly in EV charts. This will be addressed in an upcoming HotFix.
- The EA File Server has been removed from the installer. Contact Micro Focus SupportLine for more information.
- Some new features or product changes may not be reflected in the documentation. The documentation will be updated in upcoming product updates.

Resolved Issues

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

- *EA - Administration*
- *EA - Analysis*
- *EA - Analysis - Diagrammer*
- *EA - Analysis - HyperView - Clipper*
- *EA - APM*
- *EA - Backend*
- *EA - Backend - Analysis*
- *EA - Backend - Analysis - Cobol*
- *EA - Backend - Analysis - Cobol - Advanced*
- *EA - Backend - Analysis - DDL*
- *EA - Backend - Analysis - EmbeddedCICS*
- *EA - Backend - Analysis - IMSAnalysis*
- *EA - Backend - Analysis - Java*
- *EA - Backend - Analysis - JCL*
- *EA - Backend - Analysis - Natural*
- *EA - Backend - Analysis - PL1*
- *EA - Backend - Parsing - Cobol*
- *EA - Backend - Parsing - Cobol/ACU*
- *EA - Backend - Parsing - Cobol/Cobol 390*
- *EA - Backend - Parsing - Cobol/MicroFocus*
- *EA - Backend - Parsing - CSD*
- *EA - Backend - Parsing - DDL*
- *EA - Backend - Parsing - DMS DDL*
- *EA - Backend - Parsing - EmbeddedCICS*
- *EA - Backend - Parsing - EmbeddedSQL*
- *EA - Backend - Parsing - Java*
- *EA - Backend - Parsing - JCL*
- *EA - Backend - Parsing - Natural*
- *EA - Backend - Parsing - PL1*
- *EA - Backend - Verification*
- *EA - Batch Application Viewer*
- *EA - Batch Duplicate Finder*
- *EA - Batch Refresh Process*
- *EA - Business Rules*
- *EA - Change Analyzer*
- *EA - Common*
- *EA - Complexity Metrics*
- *EA - Decision Resolution*
- *EA - Diagrammer*
- *EA - Documentation*
- *EA - HyperView*
- *EA - HyperView - Callie*

- [EA - HyperView - Clipper](#)
- [EA - HyperView - Global Data Flow](#)
- [EA - HyperView - Impact](#)
- [EA - IDE](#)
- [EA - IDE - Options](#)
- [EA - IDE - Repository Browser](#)
- [EA - IDE - Workspace Operations](#)
- [EA - Installation](#)
- [EA - Reports](#)
- [EA - Reports - CRUD Report](#)
- [EA - Reports - Reference](#)
- [EA - Tag Manager](#)
- [EA - Upgrade](#)
- [EA - User Interface](#)
- [Quick Inventory](#)

EA - Administration

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- A problem with incorrect handling of unselected options in the EA Configurator has been fixed.
2646977 (1089352)
- The index order of the HCExternalRelationships table has been changed from (VarHCID,Program) to (Program,VarHCID).
2643246 (1088984)
- Enterprise Analyzer verification no longer causes program failure.
2600512 (1086833)

EA - Analysis

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- Invalidate Workspace will clean up the remaining decisions entries.
2601569 (1086700)

EA - Analysis - Diagrammer

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- The selection in the Relations list is visible while sorting the list.
2652167 (1089928)
- The run-time error that occurred while using DiagramProject.bj has been fixed.
2612999 (1087864)
- Diagrams that show only entities can now display entity type icons by selecting the "Show Entity Icons" option from the "Diagrams" section of the user preferences. When saving as .TSV or .TSVZ, entity icons are embedded in the file and are displayed, even if the diagram is opened after disabling the user option. Saving in .VSD and .VDX will not export the icons.
2610008 (1087618)

EA - Analysis - HyperView - Clipper

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- Hypercode view of the source file now displays the text without truncation when working in a Chinese environment.

2645723 (1089310)

EA - APM

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- The chart description in the Chart Wizard > Preview step has been removed and the size of the chart has been adjusted.

2643663 (1089023)

- The import of values has been fixed and now the Application Data View and the charts show the correct values.

2642949 (1088940)

- The Code Segment in Business Rules has been fixed and the source alignment is now correct.

2641673 (1088830)

- Application Data View has been fixed and shows the correct Tag list.

2641496 (1088807)

- There is no longer a problem loading an XML file generated by Change Traffic Control script.

2616972 (1088271)

- The Effort metric is now available in EV and can be displayed in charts.

2611530 (1087726)

- EV import is now fixed to handle correctly SQL Null error.

2608367 (1087527)

EA - Backend

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- Temporary .ctb files are now being deleted from the workspace folder after processing.

2650965 (1089772)

- A problem with missing Data Store information in CRUD report when manipulating files through resolved decisions has been fixed.

2595376 (1086656)

- The problem with Delete Phantom Ports not working has been resolved and no longer occurs when JCL files are verified.

(597085)

EA - Backend - Analysis

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- The problem with EA showing the program entry as unresolved instead of the main program name has been fixed and no longer occurs when LinkDeck files are verified.

2655779 (1090310)

- Link Deck analysis no longer crashes when there is no main program entry defined in the PLI program.

2644551 (1089519)

- The LINKDECK Processing Order has been changed. If there is an ENTRY statement in an LINKDECK file, and the specified entry is not found in the program marked with *MAIN*, then the first entry from this program is used as main program entry.

2585735 (1086974)

EA - Backend - Analysis - Cobol

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- Trailing characters have been removed from decision name defined using Generic API.
2657095 (1090313)
- Verification no longer fails when huge structures are used as an array access in MOVE statements.
2644209 (1089228)
- COBOL file ports that are inaccessible are no longer created as unresolved.
2618722 (1088480)
- There is no longer a problem expanding ACU COBOL includes when preserve folder structure option is enabled.
2610393 (1087921)
- A workspace option to generate program entry for C main() functions has been added.
2606324 (1087624)
- Copybook to COBOL invalidation has been improved.
2594704 (1086075)
- The problem with errors while verifying COBOL programs, or a BRE memory access violation internal error, has been resolved and no longer occurs when COBOL files are verified.
2587485 (1085581)

EA - Backend - Analysis - Cobol - Advanced

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- The s9(8) picture is now processed without conversion when variable is used in a switch case in legacy.xml
2606273 (1087247)
- The s9(8) picture values are no longer converted internally while processing legacy.xml files.
2606266 (1087244)

EA - Backend - Analysis - DDL

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- There is no longer a problem when parsing data definitions that contain both the CCSID and the FOR ... DATA clauses.
2616807 (1088655)

EA - Backend - Analysis - EmbeddedCICS

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- There is no longer a problem when parsing the CICS statement INQUIRE UOW.
2658302 (1090456)

EA - Backend - Analysis - IMSAnalysis

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- LinkDeck now picks the correct main program entry for PLI, when there is no mark for a main entry.
2641325 (1088850)
- Cycling dependencies during IMS analysis no longer cause Out of Memory Exception.

2638303 (1088849)

- There is no longer a problem identifying the correct parent segment when the child segment does not immediately follow the parent.

2618944 (1088454)

- EXEC DLI now resolves PCB correctly when used through a variable.

2618744 (1088386)

- PL/I IMS analysis no longer crashes when there are no supplied parameters for a called program.

2613451 (1088848)

EA - Backend - Analysis - Java

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- The TLD parser now supports files that contain function definitions. These appear as JSP Function entities in the model.

2602316 (1086765)

EA - Backend - Analysis - JCL

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- Linkdeck files can now define new program entries using NAME and ALIAS statements. If a JCL file is running a program through such entry, and if the linkdeck file is verified, the JCL file will be invalidated. The order during verification is PROGRAM, then LINKDECK, and then JCL as it uses information defined in linkdeck files. When you change a linkdeck file, the JCL files that depend on it must be verified again. JCL files are automatically invalidated, so you can easily locate and verify them.

2611679 (1087695)

EA - Backend - Analysis - Natural

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- There is no longer a problem when parsing Natural files that use Flexible SQL.

2659625 (1090741)

EA - Backend - Analysis - PL1

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- An issue with fetch statement marking variable as written has been fixed.

2657419 (1090475)

- The problem with Entry Point Not Deleted From Versioned Program has been resolved and no longer occurs when LinkDeck files are invalidated.

2655787 (1090375)

- The problem with PL/I program verification error which was caused by verifying files with mixed formatting has been resolved and no longer occurs when PL/I files are verified.

2650914 (1089860)

- There is no longer a problem resolving program aliases.

2641334 (1088794)

EA - Backend - Parsing - Cobol

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- The problem with Linkdeck Processing choosing a wrong Entry Point from Program has been resolved and no longer occurs when LinkDeck files are verified.
2645092 (1089295)
- A new functionality that lets you define a call as a readonly call (one that will not modify passed variables) has been implemented. This lets you refine your value analysis.
2644909 (1089700)
- The Create Alternative Entry Point option now supports more sophisticated patterns that include conditionals in the form ?Ntrue-expression:false-expression where N is a decimal digit.
2604181 (1086952)
- A problem with the value clause of level 88 declarations has been fixed.
2603832 (1086922)
- A problem with the EVALUATE statement having more than one consequent WHEN clauses with partial expressions has been fixed.
2603016 (1086878)
- A problem with continuation lines in copybooks that crash the Cobol preprocessor has been fixed.
2602250 (1086898)
- There is no longer a problem when using the LENGTH OF function as an argument in a CALL statement when that argument is passed by reference.
2600173 (1086625)
- There is no longer a problem parsing data definitions that contain editing symbols.
2599976 (1086567)
- There is no longer a problem parsing a Cobol file when the environment division is in a copybook.
2597827 (1086524)
- External symbols in Link Deck ALIAS statements are now processed correctly.
2573323 (1084640)

EA - Backend - Parsing - Cobol/ACU

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- A problem parsing data declarations having the OCCURS ... DEPENDING ON clause has been fixed.
2653184 (1089953)
- There is no longer a problem with comments when the indicator area and area A start at the same position in the row.
2651267 (1089865)

EA - Backend - Parsing - Cobol/Cobol 390

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- There is no longer a problem parsing the MILLISECONDS option of the CICS statement FORMATTIME.
2646227 (1089300)
- A problem with arguments to functions when they are of type national has been fixed.
2618567 (1088365)
- A problem with incorrect type check for arithmetic expressions that work on national data type has been fixed.
2618564 (1088361)

- The "EA - 2106 -unmatched argument type in MOVE statement " problem no longer occurs when COBOL files are verified. The problem has been fixed.
2618562 (1088367)
- A problem with unary operator argument which is of type "national" has been fixed.
2618561 (1088368)

EA - Backend - Parsing - Cobol/MicroFocus

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- A problem with partial load of hyper code with MSSQL using Korean collation has been fixed.
2660574 (1090609)
- An issue that caused EA to hang when processing some COBOL files with DBCS characters has been fixed.
2660547 (1090607)
- There is no longer a problem parsing the POSITION clause of the DISPLAY statement.
2656666 (1090299)
- There is no longer a problem declaring a COBOL entry, which has an array as an argument.
2656665 (1090300)
- There is no longer a problem parsing a START statement that contains conditions which use > THAN or < THAN.
2656664 (1090301)

EA - Backend - Parsing - CSD

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- The problem issues with CSD files and duplicate entries has been resolved and no longer occurs when CSD files are verified.
2648630 (1089526)
- The incorrect parse warning for the CSD file attribute "_FILETYPE(ALTINDEX)" has been fixed.
2615831 (1088122)

EA - Backend - Parsing - DDL

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- A problem with the CREATE INDEX statement when the option PRIQTY has a negative value has been fixed.
2648766 (1089509)
- There is no longer a warning message saying the construction was ignored when parsing the CREATE TABLESPACE statement.
2647161 (1089365)
- There is no longer a warning that the statement CREATE TABLESPACE is unsupported.
2647159 (1089364)
- There is no longer a problem parsing names that contain %.
2645600 (1089261)
- The problems with incorrect parsing of CREATE TABLESPACE and CREATE TABLE statements no longer occur.
2642356 (1088876)

EA - Backend - Parsing - DMS DDL

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- A problem with PL/SQL parsing when alias is used for table names have been fixed and a line-by-line hypercode has been added.
2608086 (1087471)

EA - Backend - Parsing - EmbeddedCICS

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- There is no longer a problem parsing the RESIDERR CICS response code.
2615071 (1088233)

EA - Backend - Parsing - EmbeddedSQL

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- Added support for UPDATE/DELETE result sets in queries, and for NEXT/PREVIOUS VALUE on sequences to DB2 parser, in order to correct syntax errors.
2658381 (1090464)
- Support for a locale parameter in SQL UCASE function has been added to correct a syntax error report.
2658381 (1090465)
- There is no longer a problem parsing the FETCH FIRST ROW clause of the SELECT statement.
2658381 (1090463)
- Support for additional SQL*PLUS and PL/SQL statements has been added.
2642717 (1088924)
- There is no longer a problem parsing embedded SQL statements that invoke the TIMESTAMP function.
2618569 (1088369)
- A problem with a DB2 SELECT statement that has an embedded UPDATE statement has been fixed.
2618568 (1088366)
- There is no longer a problem parsing an embedded SQL DECLARE TABLE statement in COBOL, when it is written between data declaration items with levels other than 1.
2614789 (1088110)
- Verification errors no longer occur when PL/SQL files are verified.
2609726 (1087524)
- Files that contain unsupported PL/SQL anonymous blocks are successfully parsed. These blocks are effectively ignored.
2608875 (1087402)
- A problem with host variables, passed as arguments to functions in embedded SQL has been fixed.
2603869 (1086925)
- There is no longer a problem using system or user defined functions in the GROUP BY and ORDER BY clauses of the SELECT statement.
2603859 (1086924)
- A problem with optional FROM in the DELETE statement has been fixed.
2603017 (1086919)
- There is no longer a problem parsing the USE ROLLBACK SEGMENT clause of the SET TRANSACTION statement.
2602917 (1086923)

- The problem with empty “Variable usage” for host variables inside SQL statements has been resolved and no longer occurs when COBOL files are verified.
2601515 (1089014)
- A problem with incorrectly set Usage and Init flags, for the SQL variables, that are part of the INTO clause of a SELECT statement has been fixed. Now they are IN and TRUE respectively.
2601515 (1089452)
- There is no longer a problem parsing the Oracle outer join operator (+).
2600605 (1086630)
- Oracle functions, when used within SQL statements, no longer generate warnings.
2600213 (1086627)
- There is no longer a problem parsing the CONNECT, ALTER SESSION, and COMMIT statements when they contain Oracle specific extensions.
2599772 (1086546)

EA - Backend - Parsing - Java

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- A problem with the verification of Java files that has anonymous internal class, which overrides a method has been fixed.
2651037 (1089752)
- An issue that prevented Java files that do not contain uncommented code from being successfully verified has been fixed.
2651035 (1089747)
- A problem where Java verification fails when processing some anonymous class declarations has been fixed.
2650148 (1089664)
- There is no longer a crash when parsing JSP files, that contain references to tag libraries that doesn't exist.
2648115 (1089665)
- An issue causing an incorrect error message generation when blank characters are present in Java package declarations has been fixed.
2646896 (1089354)
- An issue where a path name containing a quotation mark character causes Java verification failure has been corrected.
2645236 (1089370)
- A problem where source files ending in ".JAVA" were not verified successfully, has been fixed.
2638190 (1088591)

EA - Backend - Parsing - JCL

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- There is no longer a problem parsing JCL files that contain empty instream data.
2655716 (1090186)
- The problem with procedure names showing different verify results for included and executed procedure has been resolved and no longer occurs when JCL files are verified.
2645641 (1089279)
- The problem with CA7 parallel verification has been resolved.

- 2644389 (1089153)
- Duplicate job schedules no longer cause failures while verifying CA7 files.
- 2643437 (1088985)
- The "Unresolved Parameter in include of proc causes JCL parser to crash " problem no longer occurs when JCL files are verified. The problem has been fixed.
- 2618780 (1088380)
- A problem with CRUD report showing incorrect entries when a JCL file executes the SORT program has been fixed.
- 2610834 (1087687)
- A problem with the JCL parser where duplicated DISP parameters and incorrect DSN parameters were causing a crash has been fixed.
- 2609101 (1088203)

EA - Backend - Parsing - Natural

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- The problem with Error Parsing "PROCESS" statement when connecting to offline mid-tier DB has been resolved and no longer occurs when Natural files are verified.
- 2655982 (1090275)
- The problem with Natural Error Parsing (the keyword "INDICATOR") has been resolved and no longer occurs when Natural files are verified.
- 2655981 (1090350)
- The problem with Error Parsing Parenthesis around SQL variables has been resolved and no longer occurs when Natural files are verified.
- 2655980 (1090274)
- TIMESTAMP function support has been added to correct a syntax error report.
- 2655979 (1090273)
- Support for the SUBSTR and SUBSTRING scalar functions has been added to the Natural parser to correct a syntax error.
- 2655978 (1090277)
- The problem with Verification Error on Label statement has been resolved and no longer occurs when Natural files are verified.
- 2655977 (1090276)
- The problem with Error on Fields in FETCH has been resolved and no longer occurs when Natural files are verified.
- 2655975 (1090279)
- Support for EXPAND, REDUCE and RESIZE statements has been added to the Natural parser to correct a crash during verification.
- 2655973 (1090348)
- The problem with "Error 15201 - Undeclared identifier xx." occurring in Input Using Map statements where the Map name has xx.xxxxx format has been resolved and no longer occurs when NATURAL files are verified.
- 2649933 (1089645)
- There is no longer a problem parsing dynamic variable definitions.
- 2640864 (1088747)
- There is no longer a problem parsing X-Arrays in Natural.
- 2640819 (1088750)

- A problem with conditions in the WHERE clause of the SELECT statement where array slices were being processed incorrectly has been fixed.

2609113 (1087551)

- A problem with conditions in the WHERE clause of the SELECT statement where array slices were being processed incorrectly has been fixed.

2609111 (1087549)

EA - Backend - Parsing - PL1

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- A problem with assignments, when the BY NAME clause is used and the relaxed parsing flag is on, has been fixed.

2644909 (1089327)

- A problem with the FETCH statement when the relaxed parsing flag is set to ON has been fixed.

2644909 (1089328)

- There is no longer a problem identifying references to variables, defined in the implicitly included file dfheib.plinc, that contains CICS definitions, when the main procedure doesn't specify the MAIN option.

2640806 (1088730)

- The product no longer crashes when an extra END statement is placed in the middle of the program.

2638303 (1089606)

- The problem with unrecognized PL/I Built In sub procedures and functions has been resolved and no longer occurs when PL/I files are verified.

2638268 (1088589)

- There is no longer a problem when verifying files that have the same name or generate objects with the same name.

2619208 (1089870)

- The PL/I analysis no longer crashes when trying to allocate big buffers.

2605524 (1087306)

EA - Backend - Verification

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- TWS parser no longer crashes on files containing Unicode characters.

2652266 (1089862)

- External symbols in LinkDeck ALIAS statements are now processed correctly.

2603091 (1086841)

EA - Batch Application Viewer

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- When using the Analyze functionality on a Data Set item from the Data Set Flow pane, the analysis is performed for that item and the same item is being searched for, and then selected in the (leftmost) Data Set pane. In addition, double-clicking on a Data Set item from the Data Set Flow pane selects it in the Data Set pane.

2648803 (1089602)

- Batch Application Viewer (BAV) now filters the information by project.

2642121 (1089035)

- The problem with overridden DD entries (for which wrong hypercode information was generated) has been fixed.
2618546 (1088370)
- Batch Application Viewer no longer fails with an overflow error for workspaces that contain a very large number of JCLs.
2614755 (1088190)
- An option has been added to extract report of Batch Application Viewer in Batch Mode.
2601595 (1087234)
- Diagram generation is canceled if the entities to be displayed exceed 500. You can override the limit by setting the hidden option BatchApplicatoinAllowLargeDiagrams in the User options to "true".
2600370 (1086870)
- When generating reports for large projects, sometimes the report may not show up in the preview window (due to the IE browser no being able to load the report). However, the user is still able to save the report to a file by clicking the Save button. Saving a report in Excel format is limited to 1048576 rows - a limitation of the Excel file format.
2595985 (1086529)

EA - Batch Duplicate Finder

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- A problem with Batch Duplicate Finder when generating reports has been fixed. The report now ignores potential issues in hyper code.
2651399 (1089801)

EA - Batch Refresh Process

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- Web.xml is now registered when added through batch refresh process.
2650356 (1089677)
- The rxp.bj script no longer crashes when query parameter is omitted.
2650083 (1089653)
- The problem with unregistering has been fixed and an usage example has been added into the script as a comment.
2649675 (1089943)
- A problem with creating projects with empty names when using ApplyPCF.bj has been fixed.
2648439 (1089496)
- BoundaryDecisions.bj which executes Boundary Decisions in batch has been added.
2645554 (1089237)
- BRP Java update no longer fails with duplicated IDs.
2645233 (1089195)
- Invalidate Brave Job (Invalidate.bj) no longer fails with invalid arguments error.
2644309 (1089133)
- There is no longer a difference in the execution times when clipper queries are executed via the online tool and via batch (or as an offline job).
2642441 (1089213)
- Clipper search jobs, submitted via Queue Processor, are now using the proper project options.
2642441 (1088952)

- Default source directory option is now obsolete. This option is now hidden from configuration and is no longer in use.
2618940 (1088477)
- RestoreDecisions.bj no longer fails to create entry points when they do not exist.
2612966 (1087853)
- The error message when a query with no field fetch definitions is executed has been changed from "No fields to fetch found" to the more informative "No fields to fetch found in the query".
2611232 (1087672)
- The problem with tagging the same object twice no longer occurs.
2611232 (1087952)
- The QueueProcessor no longer does incorrect marking of the jobs in the Activity Log.
2606756 (1087245)
- Parallel verification no longer crashes, because of log file locking. Log files are now separate for each running verification process.
2602508 (1086998)
- When Java paths were too long they were not added to the repository with PFS=on. This has been fixed now and the path length limit has been increased to 248 symbols.
2600586 (1086723)
- Additional information for files skipped during the registration has been added.
2598375 (1086869)

EA - Business Rules

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- Ability to detect I/O data elements for selected rules and ability to undo last I/O detection have been implemented.
6964 (1067682)
- The problem with the length of the technical description has been fixed, and now the user can see and change the length of a description field in BRM using a plugin.
2644433 (1089101)
- The discrepancies in Code Coverage Report have been fixed. The Logical Lines column now contains source lines from copybooks that are included in the procedural division.
2642246 (1088991)
- The Coverage report columns have been altered. Now, the report contains the following columns: - Program - Procedural Lines incl. Procedural Copybooks - Lines in BR - Percentage of BR Lines by Procedural Lines
2638821 (1088701)
- A problem with silent rule import failure in case of missing rule attributes has been fixed by producing a message containing the name of the attribute to be added.
2608362 (1087516)

EA - Change Analyzer

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- The Change Analyzer browsing performance has been improved.
2641964 (1088840)
- The problem with Change Analyzer trying to use lists from another category has been fixed.

2641963 (1088921)

- Searching for synonyms with different relation codes will produce correct entries now.

2601231 (1086701)

EA - Common

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- A problem where Java files could not be verified unless COBOL was configured in EA has been corrected.

2641156 (1088812)

EA - Complexity Metrics

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- Classes are now shown in the Complexity report and you can search their legacy source in the whole workspace, and not just in the selected project.

2606201 (1087248)

EA - Decision Resolution

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- Manually resolved file decisions now appear in the CRUD report.

2594700 (1086659)

- The error that was caused by duplicates is now handled, and the duplicates are removed automatically upon saving/opening the Decision Resolution tool.

2586175 (1088254)

EA - Diagrammer

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- Diagrammer now filters the projects list according to the filter in the main EA tool.

2658202 (1090446)

- Color Scheme has been alphabetically sorted in User Preferences for Diagrammer.

2656693 (1090278)

- Three-level relationship sorting (one relation end, another relation end and relation caption) has been restored.

2656689 (1090333)

- The issues with unnecessary grey space in several panes and inability to resize controls inside those panes has been fixed. Also, the borders of the right pane sections have been made visible to make separators between those sections more evident in the Rules pane in Interactive Analysis.

2656668 (1090332)

- French values in the RXP queries are now replaced with the correct true/false values.

2619381 (1088742)

- The problem with Diagrammer Response time has been fixed.

2616486 (1088193)

- Scope Editor error while changing focus to different scope has been fixed.

2614176 (1088390)

- Data-binding for the scope editor has been fixed.

2568040 (1087019)

EA - Documentation

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- The documentation has been updated and now contains all metrics from the Complexity report for .NET Objects.

2615281 (1088077)

EA - HyperView

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- Inconsistency with Clipper detailed report showing programs not from the project has been fixed.

2653145 (1090315)

EA - HyperView - Callie

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- The layout will now be performed using a less time-consuming non-orthogonal edge routing on more complex graphs while preserving the same left-to-right hierarchical layout. This has already been done for graphs with more than 200 vertices, and is now extended for graphs with complex structures as well. If the diagram is a tree the latter is ignored.

2610425 (1087843)

EA - HyperView - Clipper

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- After an attempt to cancel a query and delete the queue entry for it, which resulted in an error, Hyperview couldn't be started. This has been fixed now.

2661246 (1090696)

- Nested clipper queries targeting ports created by IMS now work.

2642565 (1089036)

- User selected attributes are now being correctly populated in the detailed clipper report.

2617890 (1088316)

- Clipper Detailed report now works correctly without raising error 53.

2601771 (1086743)

- The original text of the configuration section has been added to the COBOL hypercode, and now it can be searched with Clipper.

2580119 (1084773)

EA - HyperView - Global Data Flow

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- HiSegment entity type has been added.

2641014 (1089335)

EA - HyperView - Impact

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- Saving Impact Report no longer causes a crash.
2607328 (1087331)

EA - IDE

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- The pie chart doesn't count and include missing and unresolved objects now.
2605735 (1087121)
- An unnecessary query that was executed for each project has been removed.
2602949 (1086859)

EA - IDE - Options

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- Exclude from Project menu has been added to Main Menu -> Project.
2658674 (1090554)
- There is no longer a problem when controlling the order of search paths for a given entity type in the Quick Inventory settings.
2652164 (1089839)

EA - IDE - Repository Browser

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- The ability to resize the Browser pane has been restored.
2660764 (1090625)
- Date attributes in the Legacy Search results are now handled correctly.
2657654 (1090388)
- The Find button for the New Search Criteria has been enabled only when at least one of the search options is specified (the box checked and some data selected).
2655780 (1090254)
- A problem with project filtering showing non-shared projects has been fixed.
2647460 (1089406)
- The Find button in the "New Criteria" window is disabled when the search filter is empty.
2641960 (1088878)
- Project filtering can be executed on all machines and no longer requires administrative rights.
2616644 (1088297)
- The problem with project filtering on virtual machines no longer appears.
2614754 (1088191)

EA - IDE - Workspace Operations

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- The VB File & Project File extensions can now be configured through the product options.
2606856 (1087246)

EA - Installation

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- All DLLs are updated properly and contain either the proper product version or no version at all.
2609893 (1087519)

EA - Reports

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- One Clipper query has been changed and errors no longer appear when applying PA queries.
2617959 (1088319)
- Portability Assessment 'Conversion Requirements' is now generated correctly.
2601866 (1086819)

EA - Reports - CRUD Report

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- The overflow error when running CRUD report in batch has been fixed.
2617992 (1088685)

EA - Reports - Reference

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- Ampersands no longer cause an issue when exporting to .csv and .txt formats from certain reports.
2618294 (1088381)
- A problem with filtering by object type has been solved and you can easily reduce the amount of retrieved data by enabling/disabling some object types.
2617994 (1089409)
- JOB entity now included in Reference Report by default.
2602638 (1087054)

EA - Tag Manager

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- The issue with Tag Manager queries when there are spaces in tag names has been fixed.
2661042 (1090656)
- The problem with blank results of Tag Manager queries has been fixed. Filtering by Object Name has also been fixed.
2643201 (1088954)
- When saving images of large tag structures, instead of receiving an "Unhandled exception" error, the dimensions are lowered and a message box appears notifying the user that the image dimensions have exceeded the maximum values in the same manner as the Diagrammer handles large image dimensions.
2609835 (1087652)

EA - Upgrade

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- The Legacy upgrade has been fixed and the exception handling has been improved.
2614231 (1087973)
- The problem with upgrading db2 varchar field to a lower size field no longer appears. This operation is not supported for db2 v8.5 and below.

2612249 (1087824)

- Upgrading MSSQL based workspace with case sensitive transaction configuration option turned on no longer causes a failure.

2608535 (1087545)

EA - User Interface

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- The problem with changing the file types no longer exists as a new file selection dialog is now used.

2585600 (1085275)

Quick Inventory

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- The context menu in the Quick Inventory directory now has "MOVE UP" and "MOVE DOWN" options.

2665458 (1091077)

Updates and SupportLine

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

Contacting Micro Focus

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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 on the box in which the product was supplied, and on the red card supplied in the DVD case .