



## **Enterprise Analyzer Release Notes – Version 3.3**

---

## ENTERPRISE ANALYZER RELEASE NOTES – VERSION 3.3

These release notes contain a summary of major features of Enterprise Analyzer Version 3.3.00, as well as late-breaking information about the product. Before using Enterprise Analyzer, please read the *Getting Started* manual that is installed with the product, to gain an understanding of the user interface and tool metaphor.

For more detail on the behaviour, usage and limitations of Enterprise Analyzer, please refer to the online help and additional user manuals that are installed with the product.

### WHAT'S NEW

#### New Branding

The Micro Focus Enterprise product suite provides the enterprise development community with a complete lifecycle solution along the themes of knowledge, development, quality and deployment. Micro Focus Enterprise Analyzer is the product brand delivering the knowledge phase of the lifecycle.

Enterprise Analyzer replaces the i.Sight brand. Individual products are:

- > **Enterprise Analyzer Server** (Developer and Standard editions) – *replaces Modernization Workbench*
- > **Enterprise Analyzer Client** (Developer and Standard editions)- *replaces Application Analyzer*
- > **Enterprise View** – no change
- > **Business Rule Manager** – no change

Application Architect, formerly offered as a separate module, is no longer sold. The dead code elimination feature of Application Architect is now included in Enterprise Analyzer Developer Edition.

#### Standard and Developer Editions

Enterprise Analyzer is now offered in two editions – Standard and Developer. Both editions are based upon the same core product.

**Enterprise Analyzer Standard Edition** provides insight into the technical reality of complex application portfolios, including:

- > Tools for application and program level understanding utilizing extensive metrics , reports, diagrammatic views and querying tools to support a myriad of business initiatives
- > Portability Assessment to help assess portfolio inventory, key metrics and risk areas for migration projects
- > Quality Assessment with standard code quality queries to serve as guidance to a code quality practice in both development and maintenance phases.

**Enterprise Analyzer Developer Edition** adds developer in-depth analysis tools to promote efficiency in the performance of daily tasks such as field changes, understanding of data propagation through a program and dead code removal.

- > Upgrading from Standard Edition to Developer Edition involves a licensing step but not re-installation or re-verification of source code.
- > Existing Modernization Workbench customers are automatically upgraded to Developer Edition.

For further details of the functionality included in each edition, see [Appendix II - Enterprise Analyzer Features per Edition](#).

## **Enterprise Analyzer Product Enhancements**

Enterprise Analyzer product enhancements are organized by themes below, including better time to value from installation to productive use, portability assessment for application migrations, ease of extending language support, and even better support for ongoing development and maintenance tasks.

### ***Time to Value – Setup and Initial Display***

#### **SQL Server Express Included**

SQL Server Express is now installed by default in the Enterprise Analyzer setup package. This enables a first time user to get started quickly and benefit from the product without complex database installation and setup. A SQL Server Express workspace is limited to 10 GB of storage, roughly equivalent to 3 million lines of COBOL code or 14,000 application objects.

#### **Configuration Manager**

Configuration Manager now displays information on the right pane depending on what item is clicked on in the left. If a user clicks on the Standard or Developer product or license, the details of what is included will be shown.

#### **Faster Verification of Sources**

The registration and verification of sources (similar to compilation) is a resource intensive task which can take hours for large applications. In our benchmark, an improvement of 15% - 40% in the speed of verification for a medium-large workspace has been measured.

#### **In-place Registration (to be released after GA)**

It is now possible to register sources by pointing to them at their current location, without having to create a copy. This both saves storage costs as well as removing the need to re-copy sources when they are changed.

#### **Enterprise Analyzer Entry Display**

The Enterprise Analyzer display upon startup now includes a quick Chart at right showing inventory statistics and essential complexity metrics. This helps provide a quick view of the application fundamentals. Flash Player (ActiveX) is required to view the charts.

#### **Search Assistant**

In Search Assistant, context-sensitive Diagrammer scopes are available for a selected object. When a scope is chosen, Diagrammer opens and an entity-based diagram is drawn for the selected object using that scope.


#### **HyperView database reduction**

There is now an option to reduce the size of the database created for HyperView – detailed application analysis (technically named HCOBJECT). This option is found in Workspace Options – Verification – Settings – PA Filtered Verification. In situations where only a Portability Assessment is required without other, in-depth program analysis features, selecting this option is expected to yield better performance in Clipper query generation.

#### **Upgrading Workspaces**

A new workspace upgrade window is now shown when upgrading a workspace. The upgrade can be paused and resumed from this window. The upgrade DDL script can be exported to see the changes being made to the database.

### **Portability Assessment**

Portability Assessment was first introduced in Modernization Workbench as a set of reports aimed at supporting migration assessments conducted by Micro Focus consultants and partners. It has now been developed into a product feature which appears in the Enterprise Analyzer 'Prepare' menu as well as its own toolbar icon .

Portability Assessment has been developed to support the L1Q and Assessment portions of a migration assessment engagement, under the guidance of Micro Focus' technical services consultants.

A user invoking the Portability Assessment feature, may choose from the list of L1Q and Assessment deliverables to run. When complete, the reports are available for browser viewing.

Portability Assessment uses Clipper and RXP queries behind the scenes to produce its outputs. The Clipper queries are also available for viewing and replication within the Clipper tool, and the RXP queries are available to run individually where applicable by right-clicking an object that appears in the Repository Browser.

### **Quality Assessment**

Quality Assessment (planned for release after GA) includes a standard set of over 150 queries for the discovery of application patterns that may require further attention. For COBOL, these include code quality categories like:

- File definition and handling
- DB2 Table operations
- Variable definitions and internal tables
- Language conventions
- Error handling
- Operations and access routines

Quality queries for CONTROLM JCL and Java are also planned to be added to this feature.

### **Extensibility**

#### **Architecture Modeler Enhancements**

Architecture Modeler is the GUI tool available for extending the reach of Enterprise Analyzer to new languages and for adding relationships to existing ones. Enhancements included in this release are:

- Ability to sort columns in entity and relationship pane
- Ability to create new types from templates using existing entity types as examples
  - Validation with proper visual notifications to the user is added for the following entity/relationship cases:
    - Entity has no KEY attribute defined
    - Left or right entity for a relationship is missing
    - Entities with the same description exist
    - Left end description of a relationships is not unique
    - Relationships used in mapping do not exist in the model.

## **Developer Support**

### **Change Analyzer**

Change Analyzer cleanup and refactoring has been done, including:

- Ability to adjust Impact options directly from Change Analyzer
- Change analyzer now uses both forward and backward impact while searching for synonyms.

### **Dead Code Elimination**

Dead Code Elimination is now included as a standard feature in Developer Edition; Application Architect is no longer available.

### **Object location within HyperView**

Within HyperView, a revamped Objects pane with 'quick search' for objects is now available, instead of displaying all objects in a project. This improves performance in large workspaces.

### **Clipper querying tool enhancements**

- Count of children of an object – useful for quality oriented queries investigated the number of parameters in a COBOL call or Java Method.
- The ability to compare between two attributes in a query has been added.
- Java Clipper Query content

### **Impact Analysis**

Data Impact through DB2 Tables, following a field from an insert to a select from the same table, is now available.

### **IMS Analysis Hypercode Improvements**

- IMS Analysis now works without CTB files being present on the disk.
- IMS Analysis generates only change command for Hypercode information

### **Enterprise View Product Enhancements**

Enterprise View has been enhanced to improve support of customer surveys and application metrics visualization. In particular:

- A new "Application Data View" has been added to Surveys->Application Data View. In it, a user can view the current tag metric values, and is able to select which tag and which metrics to show. Clicking on the "Apply" button shows a grid containing as columns all metrics and as rows all tags for which data has been retrieved. The cells are populated with the text values of the metric. If those don't exist – they will show the metric's numeric value.
- Survey Handling – a user can respond to a survey using the previous answers to refresh the data in the database with a new time stamped answer for trending purposes.
- Added 'duplicate selected' functionality to different kinds of EV objects e.g. charts, dashboards, questionnaires, questions, surveys.

- Text responses to surveys can now be displayed in charts.
- Ability to filter a chart not just by a tag, but by the values of attributes. For example, if the application tags have an external metric of Owner with values like Bill Smith and Mary Brown, you can now display all applications for Mary Brown without needing to have a tag for Mary Brown and references from it to the applications.
- Ability to have a user-entered description/help for a dashboard or chart.
- Ability to display question comments entered on survey responses
- Allow multiple text answers to be stored for a question.

## BUG FIXES

Enterprise Analyzer V3.3 includes 319 customer related bug fixes. See [Appendix I – Bug Fixes](#) for the full list.

## SUPPORT INFORMATION

The following languages are not supported in Enterprise Analyzer:

- Micro Focus APS
- PowerBuilder
- Delphi

If you are an existing customer using these languages in Modernization Workbench, contact support before updating to Enterprise Analyzer.

## INSTALLATION NOTES

### Product Location

If you are updating from Modernization Workbench 3.2, Enterprise Analyzer will be installed into the existing ...\\Modernization Workbench directory.

However, if you first uninstall Modernization Workbench from the Control Panel, then Enterprise Analyzer will be placed in a new ...\\Enterprise Analyzer directory.

If you had previously installed Enterprise Analyzer over Modernization Workbench, then uninstalled it, a subsequent new installation will also be placed in a new ...\\Enterprise Analyzer directory.

Whenever a new ...\\Enterprise Analyzer directory is created, the following actions will be required:

- Move any Architecture Modeler plugins to the Enterprise Analyzer\\Plugins folder and run ReScan.exe from the Bin directory after the installation.
- If Enterprise Analyzer was originally placed in the Modernization Workbench directory, then uninstalled and reinstalled, you will need to also uninstall and reinstall the Java add-on.

### Workspace upgrade instructions

Upgrading a workspace from Modernization Workbench is only supported from Version 3.2, HotFix 11 and above.

## **License Note – Updating Customers**

If you are updating from Modernization Workbench, your existing license will apply to Enterprise Analyzer.

In Configuration Manager, check the 'Developer' option to have access to the full feature set of the product.

### **About Micro Focus**

Micro Focus, a member of the FTSE 250, provides innovative software that allows companies to dramatically improve the business value of their enterprise applications. Micro Focus Enterprise Application Modernization and Management software enables customers' business applications to respond rapidly to market changes and embrace modern architectures with reduced cost and risk.

**APPENDIX I – BUG FIXES**

RPI	Support Incident	Component	Title
1079284	2515688	Administration	Invalidate Workspace operation deletes EV tables
1080241	2527352	Administration	"Run time error 457" error after applying HF7 to MW 3.2
1081636	2543696	Administration	Workspace, Configuration and Upgrade issues.
1081654	2541182	Administration	WS invalidation does not delete duplicate records from the HC table
1082281	2550396	Administration	Upgrade Recreates Stored Procedure and Resets Permissions
1083018	2559713	Administration	Invalidate Workspace Does Not Work on DB2 Workspace
1076989	2486711	Analysis	FlowAnalysis.ChainDataFlow crashes on JCL verification- Oracle 1000 limit exceed
1077807	2496574	Analysis	Generic API causes other CALL statements to be ignored
1077810	2487711	Analysis	Generic API Analysis causes failure in HCC (like RPI #1077047)
1078200	2491750	Analysis	CA7 Scheduling import and verify not working as expected.
1082354	2550956	Analysis	AM Import Errors with XML Files
1078565	2492675	Analysis - Diagrammer	Unable to prepare and save Report in Diagrammer
1081102	2537625	Analysis - Diagrammer	Group Diagram of Call Map not completing
1082115	2547080	Analysis - Diagrammer	MF - Performance on Project vs Entity Diagrams
1077717	2495725	Analysis - HyperView - Clipper	Run-time error and Oracle error in Clipper
1080374	2528711	Analysis - HyperView - Clipper	Clipper- 'Regular Expressions' causes run-time error in Workbench
1080391	2528724	Analysis - HyperView - Clipper	Clipper Queries do not recognise instream data
1080395	2528960	Analysis - HyperView - Clipper	Clipper - Run-time error due to excess of 'not like' values
1080413	2526775	Analysis - HyperView - Clipper	Clipper query does not run in MS SQL Server but runs fine in Oracle
585428		Enterprise View	Question answer ordering not preserved on XML import
585429		Enterprise View	Formula still shows in Survey after deleting
585430		Enterprise View	Survey Monitoring does not show the answer text
585431		Enterprise View	Username should not be case sensitive
585432		Enterprise View	Questionnaire answers lost when navigating survey entry
585433		Enterprise View	Improve question answer text input error handling
585434		Enterprise View	Improve question name text input error handling
585435		Enterprise View	Improve XML import validation
585744		Enterprise View	Text answers from surveys to be entered and viewed in charts
585745		Enterprise View	More flexible reporting
586037		Enterprise View	User-entered description\help for a dashboard or chart
586038		Enterprise View	Easier application data view
587467		Enterprise View	Show question comments in Monitoring module



RPI	Support Incident	Component	Title
1076414	2479720	Enterprise View	Metrics missing for multiple tags in tag metric export
1077343	2490879	Enterprise View	EV loses Questions\Answers with & ' or < characters
1077693	2494601	Enterprise View	Enterprise View loses formula on closing a survey delivery
1077970	2498738	Enterprise View	EV 3.2 cannot create or update users
1077971	2498738	Enterprise View	EV 3.2 cannot launch a survey delivery
1078580	2505967	Enterprise View	EV loses decimal values in weights in questionnaires
1078676	2506723	Enterprise View	No negative scales show on charts
1078930	2510759	Enterprise View	EV 3.2 - Issues with ByObjects charts
1078931	2510760	Enterprise View	EV 3.2 - ByObject charts should filter out JCL sort programs
1078934	2510765	Enterprise View	ByRange charts do not allow filtering by tag
1078937	2510763	Enterprise View	EV 3.2 - Trend charts in default dynamic inventory dashboards are not loa
1079096	2513199	Enterprise View	Need to be able to add indicators in charts
1080263	2526679	Enterprise View	Errors when importing data
1080344	2528704	Enterprise View	Formulas not being exported to .xml file
1080347	2528725	Enterprise View	Cannot edit formula
1082790	2556769	Enterprise View	Executive reports do not show in EV
1076029	2474275	Backend	Allow Same Java sources in multiple projects
1076112	2473146	Backend - Analysis	CA7 Job Flow - diagramming
1077039	2473146	Backend - Analysis	CA7 Job Flow Redesign
1077387	2473146	Backend - Analysis	Successor Information not captured for CA7
1077400	2473146	Backend - Analysis	"Requirements" Jobs should be considered predecessors
1077790	2496693	Backend - Analysis	Not all jobs from CA7 are assigned to a path
1079630	2519846	Backend - Analysis	Need AM and Universal Parser to support languages in SOW
1079868	2521477	Backend - Analysis - APS	Expansion of APS macro with line numbers in positions 1-6 produces disordered co
1079948	2521312	Backend - Analysis - APS	Unresolved transaction references in APS screens
1080595	2531269	Backend - Analysis - APS	Error in generation of SQL cursor names '-' replaced with '_'
1076421	2479357	Backend - Analysis - Cobol - Advanced	Generic API - Decision Missing for CASE Statement in XML File
1076535	2479397	Backend - Analysis - Cobol - Advanced	API Analysis help for message queues
1081246	2536521	Backend - Analysis - Cobol - Advanced	EXEC CICS code identified as Dead code!
1081601	2537703	Backend - Analysis - Cobol - Advanced	Dummy Hyper code - ALGOL
1081906	2546639	Backend - Analysis - Cobol - Advanced	DASDL Dataset Synonyms are not being recognized
1082153	2549662	Backend - Analysis - Cobol - Advanced	TABLE Entity with @ Does Not Delete After Invalidation of DDL and C
1078873	2509954	Backend - Analysis - DDL	Enhance DDL parsing
1079979	2524157	Backend - Analysis - DDL	Additional SQL hypercode information ( NOT> and NOT <, instead use: <= an
1079980	2524383	Backend - Analysis - DDL	Additional SQL hypercode information (LIKE, BETWEEN, IN)

RPI	Support Incident	Component	Title
1079983	2524379	Backend - Analysis - DDL	Add type to SQL Column declaration
1080080	2524986	Backend - Analysis - DDL	Indicators are not represented in SQL HC tree
1080082	2525127	Backend - Analysis - DDL	Add an attribute to SQLDeclareCursorForSelectStatement
1082493	2553164	Backend - Analysis - Java	Re-run apply boundary decisions does not work correctly
1083184	2561313	Backend - Analysis - Java	Apply boundary decision is not project based and giving error
1074858	2453402	Backend - Analysis - JCL	Build relationship between JCL\PROC and Hogan Program
1077097	2483227	Backend - Analysis - JCL	Norwegian National Characters in JCL
1077370	2453402	Backend - Analysis - JCL	Hogan File Converter needs conversion to 5 Byte Field
1078039	2498852	Backend - Analysis - JCL	Object verification error (99999 - Internal error: JCLNew.dll)
1081467	2541880	Backend - Analysis - JCL	After MW 3.2 HF9 get Verification Error on JCL
1079919	2523322	Backend - Analysis - PL1	PL\I unsupported syntax
1081430	2536756	Backend - Analysis - RPG	Entry points of Cbl progs called by RPG programs are not being resolved
1080655	2531890	Backend - Architecture Modeler	Arch Mod Concat on Regular Expression Parameter
1080756	2533459	Backend - Architecture Modeler	AM using a regular expression with Append and ".".
1081144	2537977	Backend - Architecture Modeler	Incorrect Metrics from AM plugin
1081287	2539548	Backend - Architecture Modeler	Architecture Modeler - 'append' syntax not supported with XML variables
1081798	2545386	Backend - Architecture Modeler	Source Statistics Counts for PERL incorrect (Architecture Modeller)
1081834	2545775	Backend - Architecture Modeler	Plug-In issues (Architecture Modeller)
1081836	2545352	Backend - Architecture Modeler	Unable to concatenate more than 2 values in Architecture Modeller.
1082026	2548247	Backend - Architecture Modeler	Architecture Modeler - Program CALL syntax not resolving correctly.
1082086	2548933	Backend - Architecture Modeler	Crash on XML File When Browsing TABLE Node in Arch Modeler
1080897	2529637	Backend - Parsing - .Net C#\VB	C# - 99999 - Internal error: CSharpModa.dll: CSharpModa(): unrecognized
1081041	2536858	Backend - Parsing - .Net C#\VB	C Sharp failures
1081408	2539975	Backend - Parsing - .Net C#\VB	Files being corrupted on update
1081643	2542766	Backend - Parsing - .Net C#\VB	VB Project verification failures
1081804	2545651	Backend - Parsing - .Net C#\VB	C# INCLUDES question
1076961	2471937	Backend - Parsing - Assembler	Assembler instructions treated as macros
1077027	2486712	Backend - Parsing - Assembler	Problems parsing Assembler with more than 1 Assembler copybook extension defined
1077383	2485661	Backend - Parsing - Assembler	Assembler commands treated as a macro and unresolved
1075101	2461973	Backend - Parsing - BMS	BMS files -Invalid Attribute BLINK
1081854	2546252	Backend - Parsing - BMS	Error Critical 99999 - Internal error: ABMSParser.dll: ABMSParser(): me
1081929	2546683	Backend - Parsing - BMS	BMS verification fails with error 24202 - Invalid attribute value 'ANY'
584699		Backend - Parsing - Cobol	Unable to process null character literal in copybook
1076973	2486668	Backend - Parsing - Cobol	Cobol program parsing hanging
1076974	2485196	Backend - Parsing - Cobol	Currency sign incorrect

RPI	Support Incident	Component	Title
1077052	2487763	Backend - Parsing - Cobol	Generic API:CALL ZIADABAS: BRE.dll memory access violation
1078900	2510585	Backend - Parsing - Cobol	Defining type of file - VSAM, QSAM, SORT, etc
1078901	2510583	Backend - Parsing - Cobol	Collect information about FILE
1078902	2510580	Backend - Parsing - Cobol	Order of parameters in Hyper code model
1079199	2514283	Backend - Parsing - Cobol	Enabling the genericAPI cause the CICS relations to disappear after veri
1079575	2516201	Backend - Parsing - Cobol	Copybook of cobol tandem - unable to open the copybook
1080568	2530855	Backend - Parsing - Cobol	Error 13000 Unknown SQL statement or syntax error
1081431	2541139	Backend - Parsing - Cobol	Cannot parse COBOL with mixed forms of copybook in one source
1081996	2547068	Backend - Parsing - Cobol	ImportObject: Illegal relationship DefinesMap
1082024	2546286	Backend - Parsing - Cobol	99999 - Internal error: BRE.dll: BREAnalysis(): memory access violation
1082761	2556894	Backend - Parsing - Cobol	Error on Field Defined in Linkage Section
1081155	2537529	Backend - Parsing - Cobol\ACU	ACU verification failures after Hot Fix 9
1076712	2483240	Backend - Parsing - Cobol\Cobol 390	Valid COBOL IMS statements being rejected by Parser
1076968	2486421	Backend - Parsing - Cobol\Cobol 390	SQL Fetch causes error when cursor name starts with a numeric
1079112	2513016	Backend - Parsing - Cobol\Cobol 390	IDENTIFICATION DIVISION statement in copybook causing error 8084
1079120	2513190	Backend - Parsing - Cobol\Cobol 390	DFHCOMMAREA not the first statement in Linkage section
1079149	2513599	Backend - Parsing - Cobol\Cobol 390	Declaration of not 01 or 77 level after SQL INCLUDE statements
1081971	2546599	Backend - Parsing - Cobol\Cobol 390	Sub Queries (sub selects) not working and not recognized by CRUD
1082014	2547506	Backend - Parsing - Cobol\Cobol 390	Parsing Error on SEGIDERR CICS Construct
1082244	2550398	Backend - Parsing - Cobol\Cobol 390	Critical error while verifying COBOL
1082250	2550395	Backend - Parsing - Cobol\Cobol 390	Tool crash during COBOL verification
1082387	2551909	Backend - Parsing - Cobol\Cobol 390	DFHEIGDI and DFHB0020 are missing from system program copybooks
1082759	2556895	Backend - Parsing - Cobol\Cobol 390	Parser error 8055 - Statement expected on FUNCTION
1081595	2543377	Backend - Parsing - Cobol\HP 3000	Generic API Analysis results in missing File relationships
1081649	2543377	Backend - Parsing - Cobol\HP 3000	Issue With Decision Resolving To Table With Name of Program
1079417	2517161	Backend - Parsing - Cobol\MicroFocus	Dialect "Micro Focus" getting parsing error on AUTHOR
1080201	2517919	Backend - Parsing - Cobol\MicroFocus	Parse error 8060 when line continuation contains a blank line
1075389	2465510	Backend - Parsing - Cobol\Unisys 2200	Report writer programs flag valid statements as errors
1076388	2479754	Backend - Parsing - Cobol\Unisys MCP	Incorrect OPEN statement
1076400	2478188	Backend - Parsing - Cobol\Unisys MCP	8053 when verifying a MCP Cobol 74 file
1080800	2533867	Backend - Parsing - Cobol\Unisys MCP	Runner.EXE and ERD Crash on Unisys MCP Programs
1080921	2535099	Backend - Parsing - Cobol\Unisys MCP	Admin Solution - DMS II DASDL file parser does not recognize data set
1081126	2537871	Backend - Parsing - Cobol\Unisys MCP	MCP Parser does not recognize substring in SORT statement
1081171	2537874	Backend - Parsing - Cobol\Unisys MCP	MCP parser does not recognize synonyms defined in DATASET
1081237	2537872	Backend - Parsing - Cobol\Unisys MCP	Parser does not recognize "pic 99:99" as a numeric format

RPI	Support Incident	Component	Title
1081896	2546112	Backend - Parsing - Cobol\Unisys MCP	Code after CALL Statement Incorrectly Marked as Dead
1078313	2502106	Backend - Parsing - CPP	Verification does not find header files that are loaded
1081143	2536867	Backend - Parsing - CPP	C++ code showing success in Activity, but has failed verification
1076713	2483227	Backend - Parsing - CSD	Norwegian National Characters in CSD File
1076714	2483219	Backend - Parsing - CSD	Duplicate transaction codes in CSD verification flagged in error
1076616	2480887	Backend - Parsing - DBD	System Error Verifying DBD File
1077704	2495180	Backend - Parsing - DDL	DDL verification - View Definitions not supported
1078874	2509891	Backend - Parsing - DDL	There is no connection between DDL and COBOL file even is a table is declared.
1079553	2516443	Backend - Parsing - DDL	Tables not created by DDL
1080001	2524456	Backend - Parsing - DDL	No DATAPORT is generated if a CASE clause was used to define a SQLSelCol
1080403	2529039	Backend - Parsing - DDL	No declaration is generated for a variable in WHERE clause
1080422	2527590	Backend - Parsing - DDL	SQL Stored Procedures support Enhancement Request
1080714	2532602	Backend - Parsing - DDL	DDL Verification Errors
1080922	2535415	Backend - Parsing - DDL	Error Critical 99999 - Internal error: SQLParser.dll: DDLPar
1082690	2555214	Backend - Parsing - EmbeddedCICS	CICS LOAD statement should be treated same as CICS LINK statement
1076375	2479525	Backend - Parsing - EmbeddedSQL	Critical Error on EXEC SQL and Identifier
1078876	2509884	Backend - Parsing - EmbeddedSQL	Cursor Declaration information
1079141	2513595	Backend - Parsing - EmbeddedSQL	Location of Declaration of SQLCA impact the results of verification
1080103	2525853	Backend - Parsing - EmbeddedSQL	No port is generated in SQLUpdate if we use SQL function as a value
1080077	2522920	Backend - Parsing - IMS Definition	System Definition Transactions from non-MPP regions
581679		Backend - Parsing - Java	Java invalidation changes attributes
581680		Backend - Parsing - Java	Java verification failure due to too long method name
581681		Backend - Parsing - Java	Empty Java files report verification failures with PFS
1074958	2460021	Backend - Parsing - Java	Need Help to determine why a Java Class is not found in an import
1076362	2475326	Backend - Parsing - Java	MW 2.1.03.3382 - Error verifying Java with Spanish chars in filename
1078536	2504914	Backend - Parsing - Java	Java Failed to Build Extract Files and Cannot find object METHOD
1078613	2503261	Backend - Parsing - Java	Metrics Calculators Error in JavaSupport.log file
1082405	2552292	Backend - Parsing - Java	Attempting to register multiple copies of Java File with PFS off error
1082905	2558461	Backend - Parsing - Java	Verify Status Not Lost When Re-Registering Java Files
586388		Backend - Parsing - JCL	CTRL-M variables (i.e. '%'-prefixed) are not processed, and result in warning messages.
586389		Backend - Parsing - JCL	Control cards - MW currently only makes available the contents of in-stream data. If Control Card input was also captured, then tests could be applied irrespective of input format.
1078958	2511115	Backend - Parsing - JCL	Control-M Support in MW 3.2
1079947	2523448	Backend - Parsing - JCL	Unresolved reference statement during JCL parsing

RPI	Support Incident	Component	Title
1080067	2525494	Backend - Parsing - JCL	Control M failure (Critical 404) when processing Control M Schedule file
1077098	2487840	Backend - Parsing - JSP	Unable to load xml file for TLDs
1078085	2499079	Backend - Parsing - JSP	JSP files do not validate properly if taglib uri is used with TLD files
1078724	2503262	Backend - Parsing - JSP	Error Verifying JSP Files...
1078797	2508113	Backend - Parsing - JSP	MWB Not able to verify jsp and tld files.
1080225	2503262	Backend - Parsing - JSP	Error Verifying JSP Files - JSP Tag Not Terminated
1082395	2552166	Backend - Parsing - JSP	JSP - Error on HTML Include
1082505	2553652	Backend - Parsing - JSP	JSP Verification Hangs On a Few Files
1082523	2553939	Backend - Parsing - JSP	TLD Verification Error Yet Relationship is Correct
1082586	2554128	Backend - Parsing - JSP	JSP Verification Fails - Unable to Load XML
1077296	2489988	Backend - Parsing - Natural	Using commas in Natural Data Areas
1077843	2492679	Backend - Parsing - Natural	ER- support for REINPUT statement format of Natural ver 4.2 on zOS
1077845	2492724	Backend - Parsing - Natural	ER- support for INPUT statement format of Natural ver 4.2 on zOS
1078396	2503506	Backend - Parsing - Natural	Decimal point as comma causing verification errors when verifying Natural progr
1081466	2540933	Backend - Parsing - Natural	IMI - Natural - Syntax Error causing Verification to fail
1082018	2548255	Backend - Parsing - PL1	Error 5585 - unrecognized construction '\$S' in %PROC statement
1082849	2557781	Backend - Parsing - PL1	PLI Parsing failures
1082061	2548104	Backend - Parsing - PSB	MW incorrectly reports that IMS DBD name is invalid
1077090	2483974	Backend - Parsing - RPG	RPG error 59 internal error
1075851	2463594	Backend - Parsing - VB	Syntax Errors in VBP Files
1082374	2549522	Backend - Parsing - VB	Syntax errors - Missing closing Quote in VB6 or Visual Studio .NET
1081838	2545970	Backend - Parsing - WFL	Keyword "USER" not being recognized in WFL.
1076204	2474885	Backend - Verification	Adding missing Declgen copybooks does not cause invalidation
1077047	2487711	Backend - Verification	Generic API Analysis cause failure in verification\load
1077689	2494920	Backend - Verification	After verification of CA7, MW is unable to load ERD
1077713	2495556	Backend - Verification	EZT wrong CRUD report information
1079969	2523586	Backend - Verification	JCL crashes - Internal error: JCLNew.dll: ERDGeneration(): memory access violation
1080058	2524940	Backend - Verification	APS parser internal error: memory access violation
1080420	2527175	Backend - Verification	TANDEM COBOL PROGRAM Problems
1081253	2527175	Backend - Verification	TANDEM COBOL PROGRAM Problems
1081697	2544312	Backend - Verification	PERL Reverification looks for files in wrong place
1082375	2546590	Backend - Verification	Error Critical 99999 - Internal error: DotNetParsers.dll: ProjectRunPa
1083013	2559595	Backend - Verification	TWS bridge crashes when verifying .adr, with unable to load error message
1078753	2508466	Batch Application Viewer	Batch Application Analyzer Report missing data in Direction column
1077236	2488734	Batch Duplicate Finder	Run-time error 5 in BDF with large number of source files

RPI	Support Incident	Component	Title
575629		Batch Refresh Process	Need a way to tag only new objects in batch
581696		Batch Refresh Process	BRP adds an extra extension to a file with extension while update
1076012	2472836	Batch Refresh Process	BRP log file should have a 24 hour base timestamp
1076157	2476106	Batch Refresh Process	MBU Script Request for Include All Referenced Objects
1076318	2471113	Batch Refresh Process	Obsolete Sources not Added to Obsolete Project
1076413	2479718	Batch Refresh Process	UTS going on since hours...
1077350	2490110	Batch Refresh Process	Apply PCF fails
1078262	2502312	Batch Refresh Process	BRP Update phase - performance issue
1082172	2549127	Batch Refresh Process	BRP: error 52 handling
1082870	2557744	Batch Refresh Process	BRP CreatePCF.bj *FAIL* Could not find stored procedure
1082213	2538415	Business Rules	Problems while saving the Business Rule Report in XLS
1075985	2472978	Change Analyzer	Change Analyzer: Batch Synonym Progress Bar not visible
1076363	2477901	Change Analyzer	Project\Workspace wide Impact Reporting.
1076488	2479469	Change Analyzer	Change Analyzer "Affected Code Report"
1076566	2481321	Change Analyzer	Change Analyzer - Ordering of Programs in Programs List
1078673	2507453	Change Analyzer	MW 3.2 HF3 - Change Analyzer 'Create Project' gives no feedback
1078674	2507454	Change Analyzer	MW 3.2 HF3 - Change Analyzer 'Create Project' gives incomplete results
1078883	2510308	Change Analyzer	Change Analyzer : Batch Find Synonyms hangs
1080488	2529853	Change Analyzer	Change Magnitude pop-up box is not displayed
1081864	2541925	Change Analyzer	SQL error on Change Analyzer
1082868	2557651	Change Analyzer	Change Analyzer - Inclusion of BMS causes 'Affected Code Re
1082869	2557654	Change Analyzer	Change Analyzer - List Refresh sets counts to zero
1082879	2558157	Change Analyzer	Change Analyzer - program pane unsorts
1082880	2558161	Change Analyzer	Change Analyzer - a child of a group item is not a synony
1082888	2558160	Change Analyzer	Change Analyzer - Usability when generating synonyms
1083114	2558721	Change Analyzer	Change Analyzer produces report with empty fields that should be populated
1078438	2497144	Common	Query Repository Crash
1079474	2517649	Common	CreatePCF including erroneous entry for JCLSYSPROC, causing ApplyPCF to fail
1081103	2537764	Common	MW 3.2 Easytrieve Configuration panel wording
1081208	2538855	Common	Export from workspace does not preserve directory structure
1081209	2538898	Common	Batch RXP Execution log file does not show records retrieved
1082009	2547759	Common	Standard RXP Queries do not appear in Repository Query Menu
1082200	2550122	Common	Unable to verify Control-M Schedule - schedule XML file may be too large
1076730	2483419	Database Schema	Rebuild Indexes takes too long
1074120	2447429	Decision Resolution	resolution when program names in an array - ** Showstopper **

RPI	Support Incident	Component	Title
1076579	2481444	Diagrammer	Direct Black Box Connections report distinct by tag
1078857	2503672	Diagrammer	Saving a job flow takes long duration
1076670	2482598	Documentation	Java needs to be included as Optional install in Client installation
1077104	2486990	Documentation	Support notes - PL\SQL support not accurate
1077204	2488734	Documentation	Analyzing Programs doc - BDF should be in Bin, not Data directory
1078077	2498390	HyperCode Convertor	HCC errors verifying Natural programs
1078435	2504080	HyperCode Convertor	HCC leaves garbage in DB if there was an error while processing CTB
1082132	2548924	HyperView - Callie	Saving Callie Diagrams in colour in VDX format
581448		HyperView - Clipper	It is allowed to deleted a predefined clipper search
1076959	2486527	HyperView - Clipper	Runtime error in clipper search when % is used
1077688	2494358	HyperView - Clipper	DELL - HCSearch.xml Crierion Uses "Satement" - Mismatch
1078102	2500206	HyperView - Clipper	Fix description and docs for Clipper query - MOVE with Padding Defect
1078517	2505204	HyperView - Clipper	PA Clipper Query - Pointer arithmetic vars coded incorrectly
1078518	2505212	HyperView - Clipper	PA - Clipper queries - CICS queries too broad
1078624	2491899	HyperView - Clipper	Error running Clipper based Impact Analysis
1078879	2509892	HyperView - Clipper	Provide count of children for a parent in Clipper Query
1078881	2509835	HyperView - Clipper	Cursor Declaration and Fetch mismatch clipper query
1079219	2514551	HyperView - Clipper	Clipper Queries - ELEMENTARY attribute is ignored
1080983	2527584	HyperView - Clipper	Detailed Report Removes Column Numbers for Multi-Line Statements
1083106	2560853	HyperView - Clipper	Clipper Query Value not saving when amended in Editor
1081855	2545946	HyperView - Flowchart	Flow Chart Crashes Due to Flawed Query
1079530	2517657	IDE - Activity Log	Failure when accessing Activity Log History
1076254	2477171	IDE - Project Operations	Include All Referencing Objects must be run several times
1079147	2513681	IDE - Project Operations	Include all referenced does not include objects referenced via decisions
1082207	2549977	IDE - Project Operations	Protected Projects allow source deletion
1076138	2473648	IDE - Repository Browser	Include all referenced objects Performance SQL vs Oracle
1076499	2480553	IDE - Repository Browser	Search Criteria -All Legacy Files search doesn't include Java Files
1083171	2561702	IDE - Repository Browser	Cancelling RXP Query Prevents It From Being Run Again
1083187	2561706	IDE - Repository Browser	Crash When Closing RXP Query Results with Multiple Pages
1081264	2539516	IDE - Source Editor	Sources Not Displaying in Editor for Non-Master User
581482		IDE - Workspace Operations	Insufficient information about the not be able to to conect to rep
585754		IDE - Workspace Operations	EV charts display no data after Invalidate Workspace
1076016	2473252	IDE - Workspace Operations	DB problem while invalidating more than 1000 JCL at a time in fro
1076018	2471422	IDE - Workspace Operations	Repository Query Request - Add Program
1077574	2493001	IDE - Workspace Operations	PA project - include files from workspace level include into a project unresolve

RPI	Support Incident	Component	Title
1079187	2512813	IDE - Workspace Operations	Invalidation taking a long time
1080087	2525125	IDE - Workspace Operations	Unresolved references are not added to open project after HF5
1081282	2538347	IDE - Workspace Operations	RescueNT error while trying to drop indices
1076065	2475146	IMS Analysis	IMS analysis run twice on some programs causing duplicate info
1076066	2475146	IMS Analysis	IMS analysis duplicates information against entire project
1079429	2515565	IMS Analysis	IMS analysis problems using non standard calls to DLI
1082896	2557436	Installation	Oracle installation script amendments for interactive\silent install
1076023	2474249	Modernization Workbench	BRP and Java: Problem assigning objects to Project
1079425	2517363	Plugins	SPRING plug in support
1079473	2518063	Plugins	Clarification of SPRING functionality
1076597	2450754	Reports - CRUD Report	CRUD Report Options Do Not Affect Report
1078044	2497939	Reports - CRUD Report	CRUD report that is build in batch does not have a column "FileName"
1079532	2517684	Reports - CRUD Report	CRUD report in batch mode does not have a column file name
1080960	2535144	Reports - CRUD Report	Unresolved DMSIIDATASET reference Missing From CRUD report
1081792	2545129	Reports - CRUD Report	File CRUD info not collected if generic API selected
1082355	2549423	Reports - CRUD Report	"Could Be" Relationship Needs to Appear on CRUD Report as Table Nam
1076264	2477675	Reports - Executive Report	Can't generate Executive Report in non-English locale
1076832	2484378	Reports - Executive Report	Executive Report - Fails to create Index.htm file
1077295	2489782	Reports - Executive Report	Portability Assessment Not working
1078214	2501101	Reports - Executive Report	Unresolved References incorrect
1079346	2515945	Reports - Executive Report	"Average" Misspelled in Standard Deviation Report in Exec Report
1079348	2515945	Reports - Executive Report	Screen Rendering View Does Not Work in Exec Report
1079363	2515945	Reports - Executive Report	Source Generation Option Missing from HF 5
1079435	2517228	Reports - Executive Report	RPG and CL not reported in Executive Report
1079446	2517782	Reports - Executive Report	Failure HRESULT : 0x800A004c (CTL_E_PATHNOTFOUND)
1079503	2503263	Reports - Executive Report	Exec Report - Metrics are Not Displayed for Java Objects
1079547	2518742	Reports - Executive Report	Portability Assessment removed from Executive Report options dialogue
1080496	2529546	Reports - Executive Report	Executive Report layout changes and link has disappeared.
1081138	2537626	Reports - Executive Report	Executive Report amendments for Distributed languages
1081216	2538660	Reports - Executive Report	Enhancement Requests for Executive Report - Application Name
1081217	2539159	Reports - Executive Report	Enhancement Requests for Executive Report - Metrics help\info
1082516	2553417	Reports - Reference	Key BEAN does not exist - during generation of Cross Reference Report
1076242	2477094	Reports - Verification Report	Problems with Verification Report
1076471	2480770	Tag Manager	Tag manager - need ability to have a negate in a query
1076473	2480771	Tag Manager	Tag manager - Tag and Query panes problem



RPI	Support Incident	Component	Title
1076474	2480720	Tag Manager	Tag Manager Report Issues
1076475	2480768	Tag Manager	Closing windows in tag manager does not cause any windows resizing
1076477	2480767	Tag Manager	Tag Manager Panes Need to Be Persistent and Independent
1076495	2480105	Tag Manager	Tag manager objects report only shows objects in Object List pane
1076459	2479720	Upgrade	HotFix 12 upgrade incorrect for some metrics
1079122	2513390	Upgrade	Repository Upgrade deletes the customized Metrics attributes.
1079763	2517397	Upgrade	Upgrading workspace error on glossFilters
1081261	2537477	Upgrade	Upgrading workspaces in German MS SQL Server Repository
1078875	2509894	Usability	Need to have an ability to work with the results of CQ (lists) through Rnt.api

## APPENDIX II - ENTERPRISE ANALYZER FEATURES PER EDITION

Support level	Key Capability	Features	EA Standard	EA Developer	Business Rule Manager
<b>Basic (level 1)</b>	System level objects, dependencies and metrics	Verification	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
		Verification Report	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
		CRUD Report	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
		Decision Resolution (w/o auto-resolution)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
		Repository Browser	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
		Inventory and Cross Reference Reports	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
		Repository Queries	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
		Complexity	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
		Effort Estimation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
		Diagrammer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
		Portability Assessment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
		Tag Manager	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Business Rule Manager- manually entered rules				<input checked="" type="checkbox"/>
<b>Intermediate (level 2)</b>	AST - syntactical analysis within source objects	Batch Application Viewer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
		Source Pane (with navigation)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
		Context view	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
		Clipper	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
		Advanced Search	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
		Objects Pane	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
		Callie (Paragraph Call Structure)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
		Model Pane	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
		Bird's Eye Pane	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
		Flowchart	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Glossary	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
	Business Rule Manager- query-based rules				<input checked="" type="checkbox"/>
<b>Advanced (level 3)</b>	Field-Level Data Dependencies	Impact Pane		<input checked="" type="checkbox"/>	
		Data Flow pane		<input checked="" type="checkbox"/>	
		Data View		<input checked="" type="checkbox"/>	
		Animator		<input checked="" type="checkbox"/>	
		Execution Path		<input checked="" type="checkbox"/>	
		Change Analyzer		<input checked="" type="checkbox"/>	
		Dead code removal		<input checked="" type="checkbox"/>	
<b>Advanced (level 4)</b>	Constant Propagation	Constant propagation (e.g. used for auto-resolution of dynamic calls)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
		IMS Analysis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	