Micro Focus®
Enterprise View™

Supported Environments Summary

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Introduction

This document describes the languages, databases and environments supported by Micro Focus Enterprise View 5.7. Any significant limitations or important information are also mentioned. Additionally, this document lists the parsing support provided.

Operating Environments

This release of Enterprise View is certified against the following operating environment releases:

- Red Hat Enterprise Linux 3, 4 or 5, CentOS 5 or openSUSE 10.3 with Oracle Client 9i (9.2), 10g or 11g already installed (for more information refer to chapter 8).

Note: Enterprise View is certified against 32-bit versions of all the above listed operating systems. 64-bit Red Hat Enterprise Linux 5 and CentOS 5 are also supported.

- IBM AIX 5.3 (PPC, 64-bit only) running Oracle Client 10g
- Sun Solaris 9 or 10 (SPARC, 64-bit only) with Oracle Client 9i (9.2), 10g or 11g

Access to the Portal is available through any standard Browser interface.

The client modules that are usually installed on the individual users’ Windows-based workstations, can also be accessed through Citrix.

For more information about the requirements and the necessary settings, please refer to the Hardware and Software Requirements document.

Languages, Databases and Environments

Below is the list of supported languages. If you have any specific queries, contact your Micro Focus SupportLine or account representative.

COBOL

1. Versions supported:
   - IBM Enterprise COBOL for z/OS and OS/390 v 3.2.
   - Micro Focus COBOL 3.1 and all later versions
   - ANSI COBOL ‘74
   - ANSI COBOL ‘85

2. Limitations:
   - Fujitsu COBOL that conforms to the ANSI or Micro Focus standards will be supported
   - No support for object oriented COBOL extensions
   - When there is more than one program in the same source, only the first program is recognized
   - No XML extension support
   - COPY REPLACING (for non ANSI cases) not fully supported
   - REPLACE verb not fully supported
   - No support for REPORT WRITER syntax

PL/I

1. Version supported:
   - IBM Visual Age PL/I v 2.2.1

2. Limitations:
• Call to Statement macro with “by name” parameters is not fully supported
• Memory map when the BASED clause is used in a declaration statement is not fully supported
• Memory map and value propagation when DEFINED with subscription clause is used in a declaration statement is not fully supported
• No support for user-defined types
• Multi-dimensional arrays are documented in the same way as multi-level mono-dimensional arrays
• No value propagation when BY NAME clause is used in assignment statements
• No support for PACKAGES
• In the Halstead Metric, use of language keywords as variable or procedure names is always considered as operator
• PL/I pre-processor statements are not supported, except %INCLUDE, %DO-%END group, %DECLARE, %IF, and %SELECT
• No analysis of maps
• No analysis of PCB/PSB/JCL (both PLTDLI/CBLTDLI and EXEC DLI)
• No relationships to specific maps (only a generic relation is produced)
• No support for homonymous segments
• No support for GSAM files
• For CBLTDLI, no support for mixed applications – containing both invocations with initial numeric parameters and invocations without it

IMS Database Manager (IMS DB)
1. Version supported:
   • 6.0 onwards
2. Limitations:
   • Same as IMS Transaction Manager

JCL, Parameter Card, Catalog Procedure
1. Version supported:
   • z/OS V1R2.0 MVS JCL Reference
   • Supported System Utilities and Database Interface Programs:
     » IKJEFT01
     » IKJEFT1A
     » IKJEFT1B
     » DFSRRC00
     » IDCAMS (cmd: REPRO)
     » DSNUPROC (cmd: LOAD, UNLOAD)
     » ICEGENER
     » ICEMAN
     » IEBGENER
     » SORT
     » SYNCSORT
     » DFSORT

CICS Transaction Server
1. Version supported:
   • 3.1.
2. Limitations:
   • No analysis of maps

IMS Transaction Manager (IMS TM/DC)
1. Version supported:
   • 6.0 onwards
2. Limitations:
2. Limitations:
   • In some environments, JCLs make use of environment variables (variables defined in the system - and whose values are assigned in the system - where JCLs are actually run). These variables can be used by the JCL preprocessor to dynamically generate names (e.g. a variable defined per user could be used as the prefix for generating a dataset name). These environment variables are not supported by Enterprise View. This means that their value cannot be specified, and therefore a dynamically generated name could be missing some part (e.g. a dataset name could miss the prefix).
   • No support for job schedulers
   • Management of concatenated DDs is not fully supported
   • Management of DD referring to other DDs is not fully supported
   • The expansion of internal PROCs is not fully supported

DB2
1. Version supported:
   • 7.0

2. Limitations:
   • No support for DDL statements embedded in COBOL or PL/I programs
   • No parsing for SQL statements provided in IKJEFT01 in JCLs
   • New syntax available in versions 8 or 9 is not supported

VSAM, Sequential file, GDG

1. Version supported:
   • z/OS V1R2.0 MVS JCL Reference

2. Limitations:
   • None listed

JAVA
1. Version supported:
   • 1.6

2. Limitations:
   • There is no support for Java “frameworks”

JSP
1. Version supported:
   • JSP 1.2
   • Embedded Java: 1.3

2. Limitations:
   • No dynamicity supported in embedded Javascript
   • Java code fragments interspersion with code in other languages (unfinished Java statements between different JSP tags) is not fully supported

SQLJ
1. Version supported:
   • Support depends on the specification provided in Oracle9i SQLJ Developer’s Guide and Reference Release 2 (9.2)
2. Limitations:
   • We do not recognize SQL-generated classes, like Iterators (and therefore do not create Java virtual classes for them)
   • Java expressions inside the SQL string are not fully supported
   • We support DML statements only (there is no support for CALL or DDL statements)

JDBC

1. Version supported:
   • JDBC definitions are based on API 1.4.2.

2. Limitations:
   • Complex Java concatenation expressions are not fully supported, while resolving parameter values
   • We support DML statements only (no support for CALL or DDL statements)

C and C++

1. Versions supported:
   • ANSI C (ISO/IEC 9899:1990)
   • GCC C++ 3.2.2

2. Limitations:
   • Relationships are reported only within sources specified in the same linking step
   • Relationships from C programs to Includes are reported only for the first processed context
   • The resolution of structure attributes between the structure and fields in the case of homonyms is not fully supported
   • Libraries specified at linking time are not analyzed

Makefile

1. Version supported:
   • 3.80

2. Limitations:
   • No support for pre-processors; automake, autoconf
   • We support and interpret only the compile parameters of GCC or compatible compilers

PL/SQL

1. Version supported:
   • 9.2

2. Limitations:
   • No support for:
     » PL/SQL preprocessor
     » schemas
     » dynamicity
     » homonymous objects in different packages
     » synonyms (while resolving relationships)
   • Relationships are not reported between a trigger and objects referred to in the trigger body
**VISUAL BASIC**

1. Version supported:
   - 6.0

**IDMS**

1. Version supported:
   - r16

2. Limitations:
   - CALL “IDMS” statements are not handled
   - [VERSION] clause is ignored during analysis
   - [COPY IDMS] clause is ignored and the copy is not expanded
   - IDMS Logical Record Facility is not supported.
   - IDMS SQL is not supported.
   - IDMS TP Monitor related statements are not supported.
   - Not all IDMS DML statements are supported.
   For a full list of the IDMS DML statements that are not supported, see COBOL Process Guide.

**Information levels**

Micro Focus Enterprise View is specifically designed to support different levels of analysis based on precise needs.

**Business Solutions**

For business-focused activity, including the core Enterprise View product, support is provided for the following macro-level analysis of application systems:

1. Objects Inventory and Cataloging
2. Measures and Metrics
3. Change traffic and Trend Analysis
4. Interface

The schema below is a mapping between the languages supported and the level of analysis achievable at a macro or business level.

<table>
<thead>
<tr>
<th></th>
<th>Inventory</th>
<th>Measure &amp; Metrics</th>
<th>Change Traffic</th>
<th>Interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>COBOL</td>
<td>Y</td>
<td>Sz; Sm</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>PLI</td>
<td>Y</td>
<td>Sz; Sm</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>JCL</td>
<td>Y</td>
<td>Sz</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Java</td>
<td>Y</td>
<td>Sz; Sm; O-O</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Jsp</td>
<td>Y</td>
<td>Sz</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>VB6</td>
<td>Y</td>
<td>Sz; Sm</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>C, C++</td>
<td>Y</td>
<td>Sz; Sm</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Make file</td>
<td>Y</td>
<td>Sz</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>PLSQL</td>
<td>Y</td>
<td>Sz; Sm</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Other</td>
<td>Y</td>
<td>Sz</td>
<td>Y</td>
<td>Y</td>
</tr>
</tbody>
</table>
Legend:

- **Sz** = Size Metrics (SLOC, LOC, CLOC)
- **Sm** = Standard Metrics (McCabe; Extended McCabe; Halstead; MI3/4)
- **O-O** = Object Oriented Metrics (DIT; LCOM*; CBO)

*Note:* Micro Focus reserves the right to change the level of support and coverage provided without notice.

**Technical Solutions**

We can identify the following categories for technical solutions:

1. Attribute inventory
2. Attribute relationships
3. Memory Map analysis
4. Verbs, operand and operator
5. Propagation network

The schema below is a mapping between the languages supported and the level of analysis achievable.

<table>
<thead>
<tr>
<th>Language</th>
<th>Attribute inventory</th>
<th>Attribute relationships</th>
<th>Memory Map</th>
<th>Verbs; Operand &amp; Operator</th>
</tr>
</thead>
<tbody>
<tr>
<td>COBOL</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>PLI</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>n.a</td>
</tr>
<tr>
<td>Java</td>
<td>Y</td>
<td>Y</td>
<td>n.a</td>
<td></td>
</tr>
</tbody>
</table>

*Note:* Micro Focus reserves the right to change the level of support and coverage provided without notice.
About Micro Focus

Micro Focus’ Enterprise View is a comprehensive APM solution offering the capabilities discussed in this paper. It is already deployed and delivering improved governance to a range of enterprise customers.

Please visit www.microfocus.com/Solutions/APM/ for further information on how APM could deliver benefits for your business.

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