



COBOL Analyzer 2.0

Release Notes

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COBOL Analyzer Release Notes - Version 2.0

These release notes contain a summary of the major features of Micro Focus COBOL Analyzer Version 2.0, as well as late-breaking information about the product.

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

Overview

COBOL Analyzer provides a complete array of analysis, intelligence and reporting tools designed for Micro Focus COBOL applications. It enables developers, analysts and executives to achieve a deeper understanding of the application portfolio providing business and technical insight across applications with information stored in a secure, centralized repository.

For ISVs or corporations, COBOL Analyzer enables IT teams to easily identify, prioritize and implement application change activities that align with current business needs.

COBOL Analyzer offers a number of benefits such as:

Accelerate change requests

Designed for complex applications and tailor made for COBOL, this impact analysis tool helps to identify code that might be impacted by the changes across the application and eliminates unexpected work.

Reuse business rules

Application architects can easily isolate business logic into reusable components to support new use cases.

Reinstate subject matter expertise

The available reporting tools deliver instant insight to new joiners and established experts alike, enabling both to identify dead code, visualize call-graphs and dependency diagrams, analyze data flows between programs or create application documentation.

Facilitate knowledge transfer

The available tools accelerate the pace of knowledge transfer while creating new application experts using integrated visualization and code documentation tools.

Enterprise scalability

Designed to meet the needs of even the largest of codebases, COBOL Analyzer supports millions of lines of code using its unique scalable architecture.

Major Features

These are the major features of COBOL Analyzer:

Application insight at the point of change

Developers are able to continuously analyze their code before and after making changes on their local environment and before committing those changes to the source control management stream.

Scalable application repository

COBOL Analyzer is built on an industry-standard, relational database management system (RDBMS) for centralized storage of application information and artifacts.

Application visualization

Intuitive, synchronized and interactive visualizations ensure that developers receive current code change updates on even the most complex applications by visualizing:

- How applications fit into the inventory, their dependencies and relationships
- Program structure with fast navigation to areas of interest
- The impact of application change within programs, data flows and source modules

Fully customizable code search facilities

A prebuilt query library includes a set of common queries to locate points of interest in the application code. These are fully customizable and the results can be shared with application developers to improve visibility to code change. Built-in queries include coding standards, performance optimizations and code migration issue related searches.

In-depth analysis tools

Code analysis tools enable analysis across the application portfolio and within specific areas of interest including:

- Application and program level understanding using extensive metrics, reports, diagrammatic views and querying tools.
- Comprehensive tools to analyze and determine the impact of code change within an application inventory, tracing impacts through code, data, report and application interfaces.
- Portability and migration assessments to help assess portfolio inventory, key metrics and risk areas for application platform rehosting, product upgrade and modernization projects.
- Standard code quality queries serving as guidance to improve code quality practice across development and maintenance phases.

Dead code identification

Find dead statements and paragraphs, unused data items and similar code across the application. Removal and consolidation of these findings can significantly reduce the size of the application source code.

Change Analyzer

This tool provides all the code that is affected by the planned code change event. Users can then easily investigate and take next steps to complete that code change activity.

Other Features

Other features of COBOL Analyzer include:

Getting Started

A **Getting Started** pane is shown when you open a workspace. Use the links in this pane to view information about many of the available features and to open some of the reports and tools.

Interactive charts

An interactive chart view is shown when you open a workspace. Click on areas in the charts to drill further down and see a list of objects and run queries on those objects.

The interactive chart view includes two charts that show a view of the number of changes of the registered sources and the time since they were last changed.

Code search reports

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

You can start the Code Search Reports from the **Interactive Analysis** toolbar or from the **Repository Browser** in the main window as follows:

In the **Repository Browser**, select a single file, a selection of files, or a project and click **Reports > Code Search Reports**. Alternatively, right-click your selection and click **Code Search Reports**. The results are displayed in a tree view below the browser. Results for reports run in **Interactive Analysis** will be displayed in the **Code Search** pane with a list for every query.

Source Synchronization

Source Synchronization makes it easy to keep your sources up-to-date in the workspace.

The Source Synchronization feature requires all sources that are to be loaded into the workspace to be located in a specific folder in Windows. The synchronization process monitors the sources in the folders and updates the workspace when a change is identified. Any new sources are added to the workspace, changed sources are updated, and deleted sources are removed.

 **Important:** For the Source Synchronization feature to work, the original load folder location must remain the same. This feature is not compatible with sources loaded with BRP (the Batch Refresh Process).

You can execute Source Synchronization manually from a toolbar icon in the main window, or schedule it to run automatically at a specified time or interval. Optionally, you can run a batch file prior to checking for changed sources - this could be used to download updated sources to the preserved location or execute a utility to change the sources prior to registering. Find the options for setting up the desired behavior in **Workspace Options > Registration > Source Synchronization**.

When you begin analysis on a program, COBOL Analyzer automatically checks whether an updated version of that program is available.

Flexible repository build

The repository build process is facilitated by a wizard designed to match the developer's environment as close as possible. The wizard enables the user to simply point to the code on their machine, specify the compile options (detailed below), and build the repository.

You can specify the following options:

- Verification options for the Micro Focus COBOL dialect:

The following verification options are available on the **Legacy Dialects** tab in **Workspace Options > Verification** when **COBOL File** is selected as the **Source Type** and **Micro Focus** is selected as the **COBOL Dialect**:

- **Compiler Directives** - specify any directives to be used during compilation to match the way you compile your programs in the IDE.
- **Micro Focus compiler compatibility level** - provides quick access to use the MFLEVEL directive that is required for your version of Micro Focus COBOL.
- **Environment** - enables you to specify environment variables as required for compiling the COBOL programs.
- **Copybook directories** - enables you to specify a directory for the sources to be registered as copybooks regardless of their extension.

This is useful if you have copybooks that have a file extension which is normally associated with COBOL programs. The file type for each file in the specified directory is switched to copybook type if it is referenced in a COBOL program as a copybook during verification.

- **Use project specific compiler directives** - enables you to specify compiler directives at project level.

This is useful if there are multiple applications in a workspace that require different directives during verification. The option is available on the **Project Options > Verification** tab when **COBOL File** is selected as the **Source Type**.

When enabled, the specified compiler directives override the directives set in the **Workspace Options**.

- Switch the COBOL file and copybook file types:

In some environments it is possible that file extensions do not clearly identify the file type. For example, copybooks and COBOL files might be given the same file extension.

The Change Type feature enables you to change the file type association of a registered file from COBOL file to copybook or from a copybook to a COBOL file. This is useful when a file was categorized incorrectly in the workspace because of its file extension.

To access the feature, right-click a file or a selection of files in the **Repository Browser**, and click **Change Type**. It is also possible to change all the files in a given folder by selecting the folder and then clicking **Change Type**.

Important Notes

- If you experience an issue with the Micro Focus License Manager not functioning properly after installing, uninstall License Manager and reinstall it from the COBOL Analyzer installer Packages \SentinelRMSLicenseManager folder.
- When installing COBOL Analyzer on Windows 8, Windows 10, or Windows Server 2012, you might receive an error that says the .NET Framework 3.5 could not be installed. In this case, you must enable the .NET Framework 3.5 on the operating system. To do this:
 1. Ensure that you have the installation media for your operating system accessible on the machine or on a mounted ISO.
 2. Start a command prompt as an administrator by locating it on the **Start** menu, right-clicking, and selecting **Run as administrator**.
 3. Enter the following command:

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

where *F*: is your installation media drive.

Known Issues

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

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

Updates and SupportLine

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

Contacting Micro Focus

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

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

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

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

Information Needed by Micro Focus SupportLine

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

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

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.

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