COBOL Analyzer 8.0

Release Notes

2022-06-29

Contents

COBOL Analyzer Release Notes - Version 8.0

These release notes contain a summary of the major features of COBOL Analyzer Version 8.0, 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.

What's New

COBOL Analyzer Product Enhancements

Workspace Migration assistance – Export Import Workspace Content

Often there is a need to duplicate some or all of the content of a Workspace to another Workspace on the same version or a newer version. For example, when upgrading CA to a new version, this new feature allows you to keep the Workspace created on the older version as a backup rather than upgrading it, and you can create a copy of that Workspace with the new version with all the content users have created on the original Workspace.

The feature enables the user to export content from one workspace and import it into another workspace. It is available from a new **Export / Import from workspace** menu item in the Administration tool. The content that can currently be transferred includes projects with source assignments, workspace and project options, Code Search queries and reports, tags with references and object assignments, glossary, Diagrammer scopes, and the BRP configuration. Exporting the content from a workspace will generate an XML file with the content. The XML file can then be imported into another workspace. Supported versions for this feature are workspaces from versions 8.0, 7.0 HF4, 6.0 HF6, and 5.0 HF7. If source assignments are exported, both workspaces will point to the same source locations. Note that the sources will have to be verified in the new/target Workspace. There is no need to keep using the same Database when migrating so you could move from SQL Server Express to PostgreSQL in your new/target Workspace.

When upgrading to 8.0, we recommend that you consider using this feature to get the information you have in the workspace in the older version into a new workspace instead of upgrading.

Additional Information for Table Analysis

Additional information from DDL files is now available in the repository. Indexes defined in a DDL file will be shown in the repository. A new relationship when a table is an alias for a table will be shown, as well as a new relationship for a table that is a synonym for a table. There is also a new attribute for table objects that identifies its Primary Index.

Usability

Quick Workspace Creation for PostgreSQL

A new option for creating a PostgreSQL workspace has been added to the create new workspace dialog. The "PostgreSQL simple" option will create a workspace automatically without needing to enter connection parameters. The following configuration is required for this feature:

- A PostgreSQL database is local to the machine.
- There is an ODBC Data Source named "PostgreSQL30" (using the Unicode driver) set up for the machine.
- The default "postgres" database will be used, but it does not need to be specified in the DSN.
- The default "postgres" user's password should be "postgres", but the username and password do not need to be specified in the DSN.
- Given the above, a schema with the name of the workspace will be created for the "postgres" database.

Code Search Report Menu Simplification

The menu items for running migration and quality reports have changed. All reports are now run from the Reports > Code Search Reports dialog now.

Other Enhancements and Changes

- The REST API is now executed under a new service named **Micro Focus COBOL Analyzer Web API**. The Miro Focus COBOL Analyzer Web Service is no longer required to be running to access the REST API. The **Configure Web Service** feature from COBOL Analyzer Administration is still used to make workspaces accessible in the REST API.
- The Micro Focus compiler compatibility level option for the Micro Focus COBOL dialect now has an option for MFLEVEL"22" for Visual COBOL and Enterprise Developer 8.0 or later.
- The capturing of complexity metrics values for purposes of showing the metrics changes over time has been disabled by default. To re-enable the metrics history open the Administration tool and choose Tools > Metrics History > Attributes. In the dialog, check the boxes next to the Selected Attributes that you want captured for the metrics history. The metrics history will start to be recorded from the next verification.
- BRP option Obsolete Processing has been removed as it is not relevant with Source Synchronization.

Non-Functional Changes

- Windows 11 is now supported.
- Windows Server 2022 is now supported.
- Windows Server 2012 is no longer supported.

Upgrades from Previous Versions

Important: All workspaces must be upgraded after installing CA 8.0. Before upgrading, we recommend you contact SupportLine for the latest COBOL Analyzer updates and best practices for workspace upgrades.

Before performing the upgrade on important workspaces, be sure to backup the database and the workspace folder along with the `.rwp` file. If you experience any issues or errors with the workspace upgrade process, please contact SupportLine with a description of the problem and include the contents of the `Upgrade` folder from the workspace as an attachment.

COBOL Analyzer 8.0 supports upgrades of workspaces directly from these versions:

- 7.0 GA and any HotFix
- 6.0 GA and any HotFix
- 5.0 GA with HotFix 7

Important: Apache Tomcat needs to be upgraded to version to 9.0.33 due to the Tomcat Ghostcat vulnerability found in earlier versions. If you have an earlier version from a previous COBOL Analyzer install you should uninstall the old Apache Tomcat version and install the 9.0.33 version found with the CA installer files in the Packages\ApacheTomcat folder. The Apache Tomcat version will not be upgraded automatically by the CA installer.

Note: Upgraded SQL Server workspaces may have a backup RWP file with a name like *.rwp.bak after the upgrade. This is due to the need to update the connection properties for opening the workspace. This update is done automatically with no input needed from the user. The .rwp.bak file will have the old connection properties for reference, and it can safely be deleted.

Updating the CA Web Client

After installing COBOL Analyzer 8.0, follow these steps to continue using the CA Web client. If COBOL Analyzer was installed with the **Install Web Client** option, steps 1 through 6 below can be skipped.

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

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

Note: When using CA Web in Internet Explorer, disable compatibility mode.

Updating the Eclipse Plugins

Follow these steps after installing CA 8.0 to continue using the Clipper View and Search Assistant plugins in the Eclipse IDE.

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

Silent Install

The following command can be used to perform a silent install of the product. This command will execute the installation to the default location with the default selections of SQL Server Express install enabled and Install Web Client disabled:

```
start COBOLAnalyzer80.exe /s /v"/qn"
```

The following command will install with the default options plus the Install Web Client will be enabled:

```
start COBOLAnalyzer80.exe TomcatCheckbox=1 /s /v"/qn"
```

The parameters to disable the default selection of the SQL Server Express install is SQLExpressCheckbox=0. This is shown in the following command as an example of how to disable these default selections and can be used along with the TomcatCheckbox parameter:

```
start COBOLAnalyzer80.exe SQLExpressCheckbox=0 /s /v"/qn"
```

The install location can be changed with the InstallFolder parameter. The following command shows an example of using the InstallFolder parameter to install to any location:

```
start COBOLAnalyzer80.exe InstallFolder="D:\Install\Micro Focus\COBOL Analyzer" /s /v"/qn"
```

Important Notes

- After installing CA version 8.0 with the **Install Web Client** option selected, if the Apache Tomcat service does not start automatically, it can be started from the Services application. There you can also set the **Startup Type** to `Automatic` if it is set to `Manual`.
- When installing a new version of CA with the **Install Web Client** option checked over a previous version, newer versions of the Adopt OpenJDK JRE may be installed, and older versions will be left untouched by the CA installer. For Apache Tomcat, if an older JRE version is present Tomcat will continue to use the older version of the JRE. Note that the latest version of the JRE will always be used by default for verification of Java files in a workspace.
- When using CA on Windows Server 2019 it may be necessary, depending on the security settings, to do one of the following in order to access a workspace local to that machine:
  - Before creating a workspace share the folder or a parent folder that will contain the `.rwp` file and workspace folder.
  - Before creating a workspace add security permissions for the user account to the folder where the workspace will be created.
  - Add security permissions for the user account to the workspace folder that is on the same level as the `.rwp` file.

Updates and SupportLine

Our website gives up-to-date information of contact numbers and addresses.

Contacting Micro Focus

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Information Needed by Micro Focus SupportLine

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

- The name and version number of all products that you think might be causing an issue.
- Your computer make and model.

- System information such as operating system name and version, processors, and memory details.
- Any detailed description of the issue, including steps to reproduce the issue.
- Exact wording of any error messages involved.
- Your serial number or works order (WO) number.

To find out these numbers, look in the subject line and body of your Electronic Product Delivery Notice email that you received from Micro Focus.

For reporting issues with CA please provide the following information:
- The version and HotFix
- The DB used for the workspace
- Is the DB local or remote?
- Is the workspace folder local or remote?
- Was the workspace upgraded to the currently used version and if so from what base version
- Runtime environment – AWS machine ; Windows 10 ; etc.

- Inventory report for the Workspace
- User type – Master / non master
- Configuration screenshot
- Plug-in Information
- The .rwp file of the workspace
- PrereqCheckerApp.exe reports/logs
- Zip file of the workspace Options folder
- Legacy.xml from the install folder and from the workspace if there is one.

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Appendix I: COBOL Analyzer Features per Client

The web client provides a subset of the features available in the Windows desktop application. The table below shows the features that are available in each client. Note that this is not a full feature list for the desktop application.

Capability	Desktop Application	Web Interface
System Level Objects		
Repository Browser	Yes	Yes
Search Assistant	Yes	Yes
Repository Queries	Yes	Yes
Reference Reports	Yes	No
Diagrammer (project)	Yes	No
Diagrammer (object)	Yes	Yes
CRUD Report (project)	Yes	No
CRUD Report (object based)	Yes	Yes
Complexity Metrics	Yes	Overview charts only
Syntactical Analysis		
Code Search	Yes	Yes, execute only
Source pane with navigation	Yes	Yes
Program Control Flow	Yes	No
Code Search Reports	Yes	Yes, execute only
Migration Reports	Yes	Yes, execute only
Quality Reports	Yes	Yes, execute only
Business Rules	Yes, licensed separately	Yes, view and edit only
Advanced Analysis Options		
Change Analyzer (full)	Yes	No
Change Analyzer (single data item)	Yes	Yes
Impact Analysis	Yes	Yes
Execution Path Analysis	Yes	No