

# WebFOCUS

Release 8207.10  
About This Release

May 27, 2020

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## 8207.10 Release Notes

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The following topic provides all the information that you need to know about this release of WebFOCUS.

**In this chapter:**

- [Release and Gen Information](#)
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### Release and Gen Information

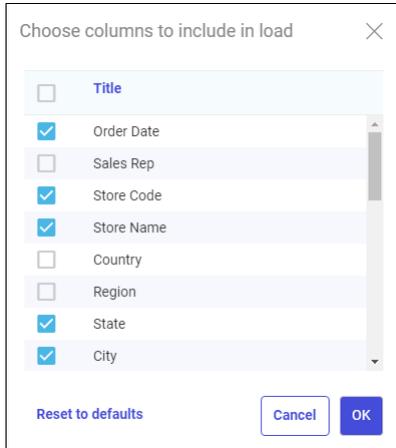
Release Date	Gen Information	Reporting Server
Friday, May 22, 2020	wf052120a Gen 9 wi052120a as052120a	8207.10 Gen 1915

### New Features

#### Choosing Columns to Load When Uploading Files

When using Get Data to upload a file, you can choose which columns will be loaded to the target database or data store, so you only load the columns you need.

From the file upload Preview page, click the *Choose Columns* icon . The Choose Columns dialog box displays, as shown in the following image.



All columns are selected by default. You can clear the check boxes for the columns you do not want to be loaded.

## Change Data Capture (CDC) on a Data Flow

In the Web Console, when a table is log-enabled, you can use the load option *Change Data Capture* along with the log file to update only the rows that have changed since the last load.

### **Procedure:** How to Use CDC on a Data Flow

In order to use CDC on a Data Flow, you need a synonym for the log file, a synonym for the existing target table, a Data Flow, and, optionally, a synonym for the source table (which is not used in this type of load). When changes are made to the source table, the log file is updated. If you submit a flow that has Change Data Capture as its load option, the target table will be updated using the information in the log.

1. Create a synonym for the log table.
  - a. Right-click the connection for the adapter with the log-enabled tables, and select *Show DBMS Objects*.

The Create Synonym page opens.

- b. Select *Table Log Records* from the Object Type drop-down list, as shown in the following image.

Create Synonym for MS SQL Server ODBC/AzureDB (DMTFS02)

Object Type? **Table Log Records** Database? **Default Database** Owner/Schema?  Object Name?

Customize data **Tables**

Create?  Tables, Views and Other Objects

Application?  External SQL Scripts  Prefix?  Suffix?

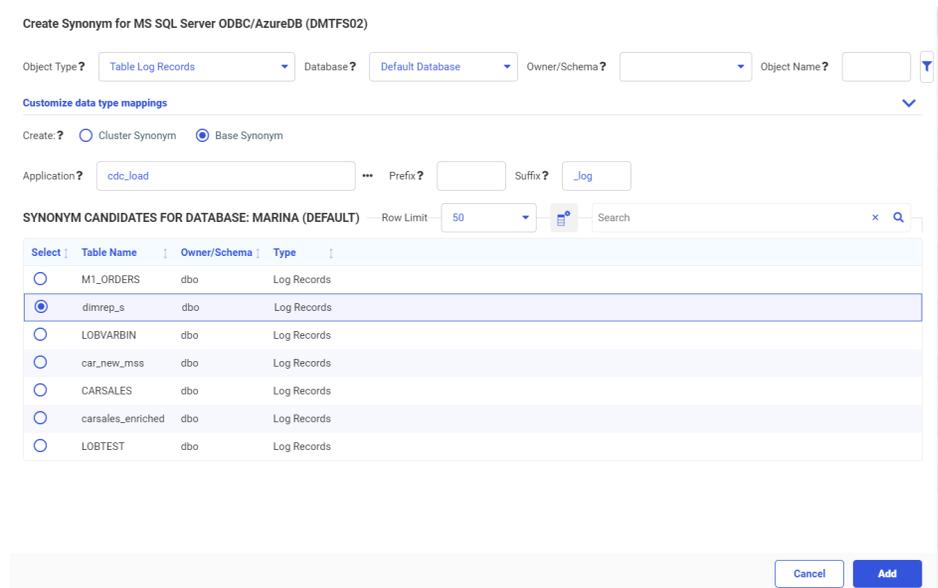
SYNONYM CA **Table Log Records** (DEFAULT) Row Limit **50** Search

Fact	Dimension	Default Synonym Name	Table Name	Owner/Schema	Type
<input type="checkbox"/>	<input type="checkbox"/>	m1_orders	M1_ORDERS	dbo	Log Records
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	dimrep_s	dimrep_s	dbo	Log Records
<input type="checkbox"/>	<input type="checkbox"/>	lobvarbin	LOBVARBIN	dbo	Log Records
<input type="checkbox"/>	<input type="checkbox"/>	car_new_mss	car_new_mss	dbo	Log Records
<input type="checkbox"/>	<input type="checkbox"/>	carsales	CARSALES	dbo	Log Records
<input type="checkbox"/>	<input type="checkbox"/>	carsales_enriched	carsales_enriched	dbo	Log Records
<input type="checkbox"/>	<input type="checkbox"/>	lobtest	LOBTEST	dbo	Log Records

- c. Click the *Base Synonym* button.
- d. Either accept the default application in the *Application* text box, enter an application name, or click the ellipsis (...) next to the text box to select the application name.
- e. Select the check boxes for one or more log records.

If you want to distinguish the synonym name for the log record from the synonym name for the base table, you can add a prefix or suffix using the *Prefix* or *Suffix* entry fields, or you can change the synonym name by typing over the default synonym name. (If the *Default Synonym Name* column is not showing, click the *Choose Columns* button and select that column.)

The following image shows one log table record named *dimrep\_s* selected, with the synonym name changed to *dmrep\_s\_log* (the characters *\_log* are entered in the *Suffix* field).



- f. Click *Add*.
2. You should already have a synonym for the existing target table and, optionally, the source table. If you do not have a synonym for the target, create it now.
3. Create a Data Flow using the log file synonym as the source and the existing target as the Target, as shown in the following image.



4. Right-click the target synonym and select *Load Options*.

The Load Options dialog box opens.

5. Select *Change Data Capture* from the Load Option drop-down list, as shown in the following image.

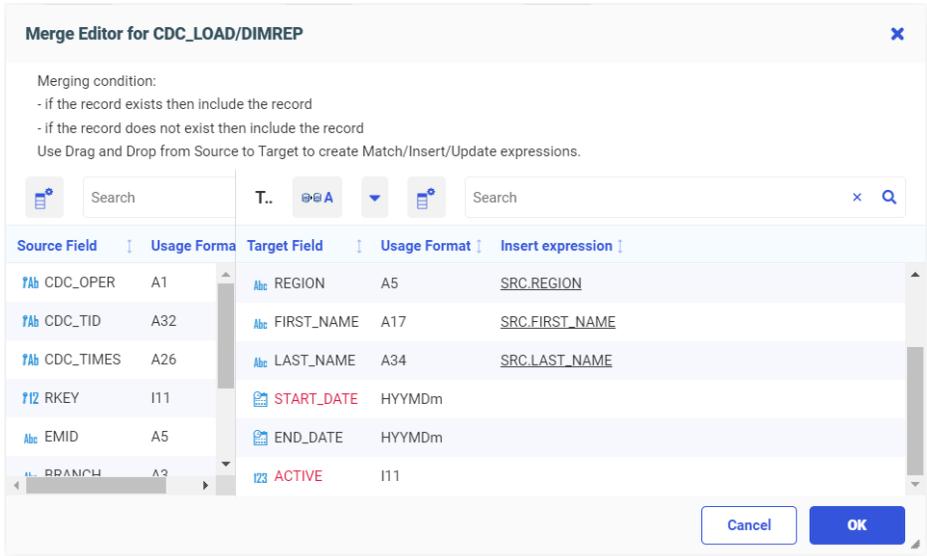
The screenshot shows a dialog box titled "Load Options" with a close button (X) in the top right corner. The dialog contains the following fields:

- Load Option:** A dropdown menu with "Change Data Capture" selected.
- Prior to Load Option:** A dropdown menu with "None" selected.
- Select Target Synonym:** A text input field containing "cdc\_load/dimrep.mas" and a search icon (magnifying glass) on the right.
- Control column:** A dropdown menu with "CDC\_OPER" selected.

At the bottom right of the dialog, there are two buttons: "Cancel" and "OK".

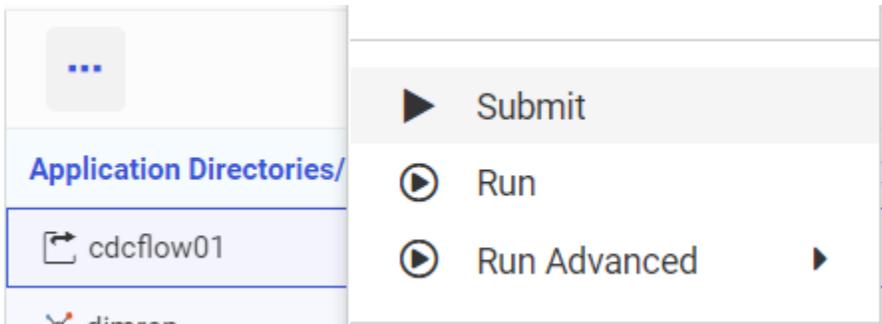
6. Click *OK*.

The Merge Editor opens, as shown in the following image.



Missing matches display in red.

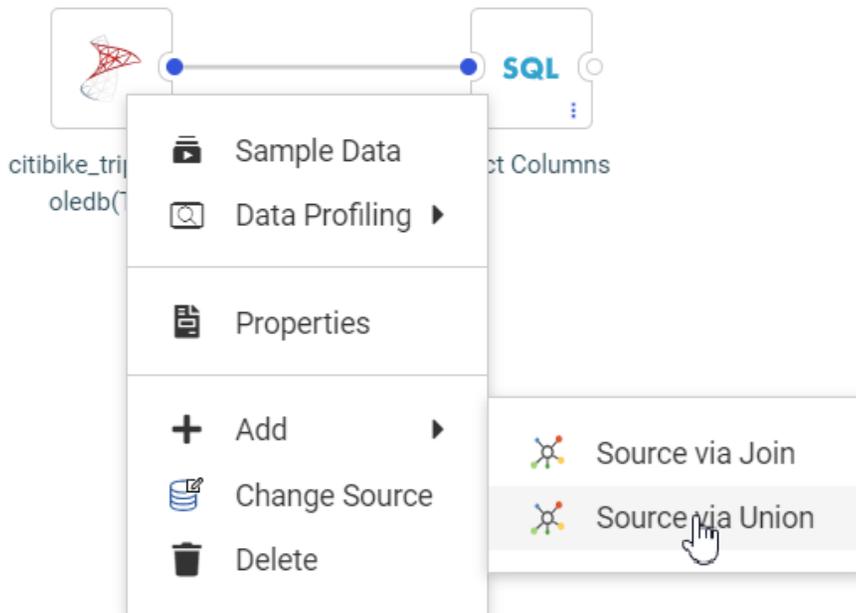
7. Drag source columns to the Insert Expression field for the target where needed to eliminate missing matches, and click **OK**.
8. Save the flow.
9. If the flow is scheduled to run at set intervals, once the source table and log have been updated, the target will be updated the next time the flow runs. You can also right-click the flow and select *Submit*, as shown in the following image.



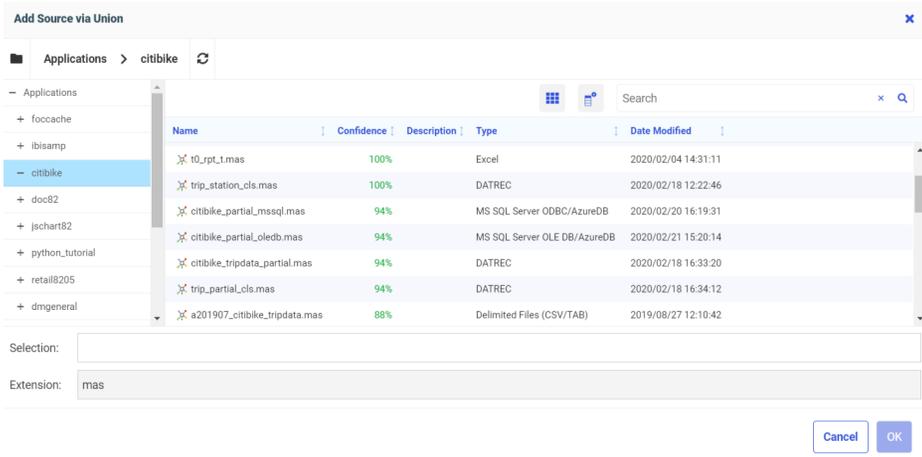
You can see the number of changes that were applied by right-clicking the flow, clicking *Logs*, and selecting *Last Log*.

## Showing the Confidence Level for Adding a Union to a Data Flow

You can right-click a source in a data flow and add a new source as a union, as shown in the following image.



A list of tables displays for choosing the new source to add. This table now includes a confidence level, based on matching column names and data types for each prospective new source, showing how compatible it is with the existing source, as shown in the following image.



## Support for GROUP BY On Column Position or AS Name

In prior releases, a GROUP BY clause in an SQL SELECT statement could only use a column name or expression. Now, the GROUP BY clause can also use the column position (such 1 to indicate the first column) or an AS name from the SELECT list.

This syntax is commonly generated by some third-party tools and can also be used in DataMigrator in a custom SQL flow, or in WebFOCUS in an SQL query.

### *Example:* Using an AS Name in a GROUP BY Clause

The following SQL request uses the AS name CATEGORY in the GROUP BY clause.

```
SQL
SELECT
PRODCAT AS CATEGORY,
COUNT(QTY_IN_STOCK)
FROM
DMINV T1
GROUP BY CATEGORY
;
TABLE
ON TABLE SET PAGE NOLEAD
ON TABLE SET STYLE *
GRID=OFF, $
ENDSTYLE
END
```

The output is shown in the following image.

<u>CATEGORY</u>	<u>Quantity in Stock</u>
Camcorders	6
Cameras	4
CD Players	1
Digital Tape Recorders	1
DVD	2
PDA Devices	2
VCRs	1

**Example:** Using a Column Position in a GROUP BY Clause

The following SQL request uses the column position 1 in the GROUP BY clause.

```
SQL
SELECT
PRODCAT,
COUNT(QTY_IN_STOCK)
GROUP BY 1
FROM
DMINV T1
GROUP BY 1
;
TABLE
ON TABLE SET PAGE NOLEAD
ON TABLE SET STYLE *
GRID=OFF,$
ENDSTYLE
END
```

The output is shown in the following image.

<u>Product Category</u>	<u>Quantity in Stock</u>
Camcorders	6
Cameras	4
CD Players	1
Digital Tape Recorders	1
DVD	2
PDA Devices	2
VCRs	1

### Adapter for REST: Setting a Default Field Length

The Adapter for REST SET FIELDLENGTH command sets a default USAGE and ACTUAL length for alphanumeric fields to be used when creating a synonym.

The syntax is:

```
ENGINE REST SET FIELDLENGTH nnn
```

where:

*nnn*

Is the default length.

For example, the following command sets the default USAGE and ACTUAL lengths for alphanumeric fields to 100.

```
ENGINE REST SET FIELDLENGTH 100
```

### Adapter for REST: Support for Passing Text and Binary in a REST POST Request

The Adapter for REST now can read text and binary data from a file and pass it in the body of a POST request.

The following Access File attribute is used for passing text data to another REST request.

```
HTTPBODY=TEXT
```

The following Access File attribute is used for passing binary data to another REST request.

```
HTTPBODY=BINARY
```

The following Access File attribute is used to define the field used to pass the location of the file to be read for input to the REST call.

```
FIELD=DATAFILE, INPUT=FILENAME
```

Support has also been added for reading the binary response from a REST Web Service request and saving the output to a file. The USAGE and ACTUAL formats for the field containing the Binary output must be defined as STRING.

The following Access File attribute is used for reading binary data from a REST request.

```
RESTRESPONSE=BINARY
```

The following command is used to HOLD the binary output:

```
ON TABLE HOLD FORMAT BINFILE DATASET filename
```

where:

*filename*

Is the name of the file where the output is to be stored.

For example:

```
ON TABLE HOLD FORMAT BINFILE DATASET baseapp/wfretail.xlsx
```

You can also join the binary response from one REST Web Service request to the input of a subsequent REST Web Service request. The fieldname containing the binary response and the fieldname for the binary input both must be defined with USAGE=STRING and ACTUAL=STRING.

### **Example: Reading Binary Data from a REST POST Request and Storing the Output to a File**

The following Master File describes the GET\_LIBRARYVERSION REST call. The \_\_RESPONSE field is described with USAGE and ACTUAL formats STRING:

```
FILENAME=M6ILO, SUFFIX=WFCREST, $
SEGMENT=M6ILO, SEGTYPE=S0, $
  FIELDNAME=IBIRS_ACTION, ALIAS=IBIRS_action, USAGE=A30, ACTUAL=A30,
  ACCESS_PROPERTY=(NEED_VALUE),
  XDEFAULT='run', $
  FIELDNAME=IBIRS_SERVICE, ALIAS=IBIRS_service, USAGE=A30, ACTUAL=A30,
  ACCESS_PROPERTY=(NEED_VALUE),
  XDEFAULT='ibfs', $
  FIELDNAME=IBIRS_PATH, ALIAS=IBIRS_path, USAGE=A100, ACTUAL=A100,
  ACCESS_PROPERTY=(NEED_VALUE), $
  FIELDNAME=__RESPONSE, USAGE=STRING, ACTUAL=STRING,
  ACCESS_PROPERTY=(INTERNAL), $
```

Following is the associated Access File:

```
SEGNAME=M6ILO,  
  CONNECTION=WIN10HYPER1,  
  OBJECT=rs,  
  SERVICETYPE=REST,  
  TIMEOUT=60,  
  HTTPMETHOD=POST,  
  HTTPBODY=ENCODE, $
```

The following request issues the REST call and stores the result in a file named holdversion.xlsx in the baseapp application:

```
SET EQTEST=EXACT  
TABLE FILE GET_LIBRARYVERSION  
PRINT  
  __RESPONSE  
WHERE IBIRS_PATH EQ  
  'IBFS:/WFC/Repository/Binary_Data_TSCQ/Lle7us4uhe01.lib$(1)'  
ON TABLE HOLD FORMAT BINFILE DATASET baseapp/holdversion.xlsx  
END
```

## Adapter for ElasticSearch

The Adapter for ElasticSearch is new in this release and can be found in the Search Engines group folder.

ElasticSearch is a highly-scalable search engine that performs fast searches and analytics against large amounts of data. It centrally stores all types of data, including textual, numerical, geospatial, structured, and unstructured. The Adapter for ElasticSearch is used to send search requests to the ElasticSearch engine and report against the information returned.

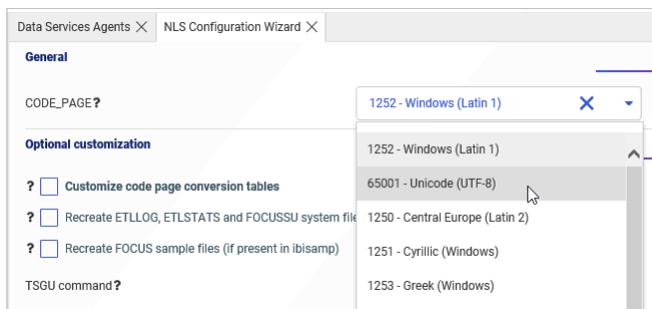
## Fixes

- Multiple portals are not loading when invoked at the same time from the same portal. (200203134)
- Using the bulk load process to load Hyperstage data that contains missing or null values results in an error: FOC1426 DATA ELEMENT VALUE TOO BIG (200311100)
- Links to the log for failed flows are not displayed in red in Statistics reports In the Data Management Console. (200408156)
- When editing a synonym, adding a new DEFINE and deleting it, results in a TCP/HTTP listener crash when attempting to add another DEFINE. (200505013)

- ❑ The DECIMAL parameter marker value is formed incorrectly when an ODBC connector is used to read data from an Access database causing it to crash and terminate the connection. (200422045)

## Upgrade Notes

- ❑ When upgrading from release 8206.xx to 8207.xx, the WebFOCUS Integrated Installation does not automatically assign the Unicode UTF-8 (CP65001) code page to the Reporting Server configuration. In order to configure the Reporting Server to use the UTF-8 code page, you can select the entry directly from the CODE\_PAGE? list, as shown in the following image. In the Web Server console, this list appears in the NLS Configuration tab of the Workspace node.



We recommend that you apply this change because, as of release 8207, WebFOCUS Integrated Installations configure all installed components to use the UTF-8 code page. Changing the Reporting Server code page to UTF-8 will ensure that there is no mismatch of code pages between WebFOCUS, Tomcat, and the Reporting Server, which could result in data retrieval issues.

- ❑ In Release 8207, Magnify functionality is not available. To add Magnify functionality to Release 8207 and higher, see the manual steps outlined in this [topic](#).
- ❑ As of Release 8207, in App Studio, the *Domains* node in the Configured Environments tree has been renamed to the Workspaces node.

## Known Issues

- ❑ The WebFOCUS help system does not work when the Application Server is configured with Java Version 11. As a workaround, you can configure your WebFOCUS instance to use help hosted by IBI. This provides an additional benefit, as users will have access to the latest content.

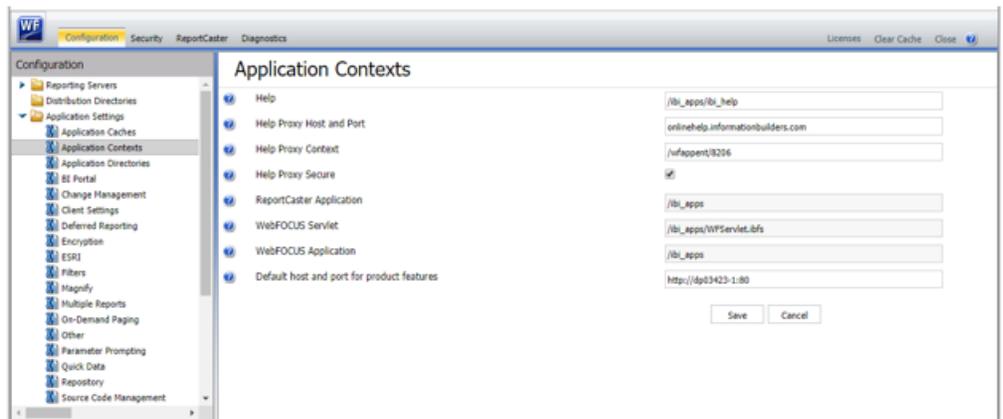
To accomplish this, you need to perform the following configuration using the WebFOCUS Administration Console:

1. Select the *Configuration* tab and navigate to *Application Settings* and then *Application Contexts*.
2. Change the *Help* value to */ibi\_apps/ibi\_help*.

**Note:** The *ibi\_apps* value must be the same as the WebFOCUS web app context created during installation. If you provided an alias, for example, *ibi\_apps8206*, then the value for Help should be entered as */ibi\_apps8206/ibi\_help*.

3. Set the *Help Proxy Host and Port* value to *onlinehelp.informationbuilders.com*.
4. Set the *Help Proxy Context* to */wfappent/8206*. If you are using WebFOCUS Release 8207, set the value to */wfappent/8207*.
5. Select the *Help Proxy Secure* check box.

For example:



6. Click the *Clear Cache* option and continue to sign out and sign in for the settings to take effect.

- ❑ The canvas of WebFOCUS Designer for this release is an interactive canvas based on AHTML. When creating a report, page and row break settings are not supported on this canvas for this release. If you select any other output format, such as HTML, PDF, PPTX, or XLSX, you will see these breaks at runtime. These output format options are available for stand-alone content items only. This will be resolved with the introduction of the non-interactive document canvas in a future release.

- ❑ When an Insight-enabled chart created in the 8207.00 version of WebFOCUS Designer is added to a visualization as external content, the Insight icon does not appear on the chart when the page is run, so Insight features cannot be accessed. Resave the chart in WebFOCUS Designer 8207.01 or later to make Insight available when the chart is added to a visualization.
- ❑ When working with the Cell menu in an interactive report, the filtering functionality does not work as expected.
- ❑ When saving an artifact (from or of and interactive report, chart or dashboard), the output file name is ARsave.html rather than ARhtml.html.
- ❑ If you create a report or chart in ARVERSION=2 (In-Document Analytics) and you set the output format to PDF Analytic Document, an error occurs when you run it. If you change the option in Procedure Settings to Legacy, the report or chart is produced correctly.
- ❑ If you are working with an In-Document Analytics chart in landscape mode on an Android mobile device and you switch to portrait mode, your content displays in fullscreen mode. Your chart displays at the bottom. If you run your content in new window mode, your In-Document Analytics chart does not display in fullscreen mode, displaying the chart on the right.
- ❑ HIDE NULLACRS, which hides across columns that have null or zero values in the entire column, is not supported with interactive content using the new Designer style of In-Document Analytics capabilities.
- ❑ If you add an existing ARVERSION=1 report to an AHTML document set to ARVERSION=2, it fails at run time, displaying JSON text on the screen instead of the expected report output.
- ❑ If you are working with a procedure (.fex) and you change the ARVERSION to ARVERSION=2, global filters do not display when you run the procedure.
- ❑ In a scatter plot chart or bubble chart, multiple measure fields on the horizontal and vertical axes generate separate axes, resulting in a grid of scatter plots for each combination of measure fields. In WebFOCUS Designer, if you create a scatter plot chart or bubble chart with multiple measures in the Vertical or Horizontal buckets, only the axis for the first measure in each bucket displays on the canvas. When you run the chart, all measure fields in the Vertical and Horizontal buckets are shown as separate axes, as intended.
- ❑ The Expression Editor has an area that displays objects that you can add to an expression, which are columns, variables or functions. The selection and display of these was controlled by buttons above the area, but when the size of the area was compressed, some of the buttons were hidden. Now there is a single button with a pull-down menu that allows selecting what objects are displayed.

- ❑ Both the db\_collation.sh file and the db\_collation.bat file generate the "Main WARN Error while converting string [ ] to type," error message in the Command Prompt window at the end of their run. This message has no impact on the functionality of this post-installation utility, and it completes the run successfully.
- ❑ The load\_repos.sh file generates the "WARNING: sun.reflect.Reflection.getCaller Class is not supported. This will impact performance," error message in the Command Prompt window at the end of its run. In addition, the db\_inplace\_update.sh, WFRReposUtilCMDLine.sh, and update\_repos.sh files generate the "Main WARN Error while converting string [ ] to type," error message in the Command Prompt window at the end of their run. These messages have no impact on the functionality of these post installation utilities, and each one completes its run successfully.
- ❑ App Studio upgrades are currently not supported. Messages related to failures that occurred while merging changes in the mime.wfs and languages.xml files display during the upgrade installation process.
- ❑ When using MS SQL Server as the database platform for the WebFOCUS Repository and upgrading from 8105M to 8207.06, only MS SQL Server 2008 and 2012 are supported. MS SQL Server 2014 and later versions are not supported.

## System Requirements

This release is now certified and has been tested with Google Chrome version 81, Firefox version 75, Microsoft Edge Chromium version 81 (WebFOCUS only), Microsoft Edge version 44 (WebFOCUS only), and Internet Explorer version 11. Internet Explorer Compatibility mode is not supported. For additional browser details, see [Browser Information](#).

For more information on supported clients and more, see [Release Information](#).



## Feedback

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DN4501645.0520

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