

WebFOCUS

WebFOCUS Business User Edition
Release Guide
Release 8.2 Version 03

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WebFOCUS Business User Edition Key Features

WebFOCUS Business User Edition (BUE) is intended for business users and analysts that want to generate and share reports, charts, documents, and visualizations. It is also intended for those who want to conduct data discovery to explore trends, patterns, and opportunities. It is a WebFOCUS business intelligence (BI) and analytics platform that enables reporting and analytic capabilities, which can be delivered to users inside and outside of your organization.

WebFOCUS Business User Edition is a self-service analytics solution for groups of business users and analysts. It is not only a web-based environment, but also a multi-user, server-based product designed with a user interface that is oriented toward non-technical users.

This topic describes the key features for WebFOCUS BUE Release 8.2 Version 03.

In this chapter:

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WebFOCUS BUE 8.2.03 Key Features Summary

Use the table below for descriptions of the key features for WebFOCUS BUE Release 8.2 Version 03.

Category	Feature
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Category	Feature
Data Management	Manage Your Data Using the Enhanced Wizard Workflows on page 8.
	Simplified Statistical Functions on page 9.
	Data Profiling Enhancement - Forecast and Distribution Charts on page 10.
Geographic Information Systems	Support for International Boundaries on page 10.
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Development

In Release 8.2 Version 03, you can use InfoAssist features for all your web development needs.

Update to Auto Linking Functionality

Auto Linking makes it easy to connect reports and charts in your development environment, expanding the reporting capabilities of your organization. Using Auto Linking, you can dynamically link HTML reports, active reports, and HTML5 charts with a single report or chart of any format, based on their common sort (BY) fields and parameters referenced in any filters.

In Release 8.2 Version 03, Auto Link Target reports that satisfy this requirement and also have optional filter parameters, which are now included in the Auto Link target report evaluation, so that all possible combinations of run-time parameters are evaluated and available as links to you as you run the request. This may produce additional reports or charts in your list of available Auto Link targets, offering you access to an expanded network of related content.

You can auto-link as many reports and charts as you want, and auto-link targets can be enabled to have their own targets. These charts and reports must have simple filters with parameters to match the selected sort field and sort fields preceding it in the Auto Link enabled report. They can also have optional filter parameters, which contribute to the development of a cascading list of reports and sub-reports, all of which can be accessed from one Auto Link enabled report.

Adaptive Dashboard

The Adaptive Dashboard feature provides a mobile view with a fixed layout that will make dashboards easier to use while navigating on mobile devices. These include the dashboard bar at the top of the screen which contains the page layout tabs, circles at the bottom of the screen which indicate the number of report or chart components available on the selected tab, navigation arrows at the bottom of the screen that allow you to move between components with ease, and a hamburger menu which displays available filter controls.

You can enable the Adaptive Dashboard option on new or existing In-Document Analytic documents in InfoAssist by clicking the *Adaptive Dashboard* button on the Layout tab of the ribbon, under the Page Setup group.

Data Management

WebFOCUS BUE allows you to upload excel or CSV files to a target environment using the Upload wizard. You can also configure adapters to various data sources, and create synonyms and cluster synonyms, using the Connect to Data wizard. During the upload and connect processes, you can access options to perform data profiling and statistical analysis, and transform your data beyond the default settings.

Manage Your Data Using the Enhanced Wizard Workflows

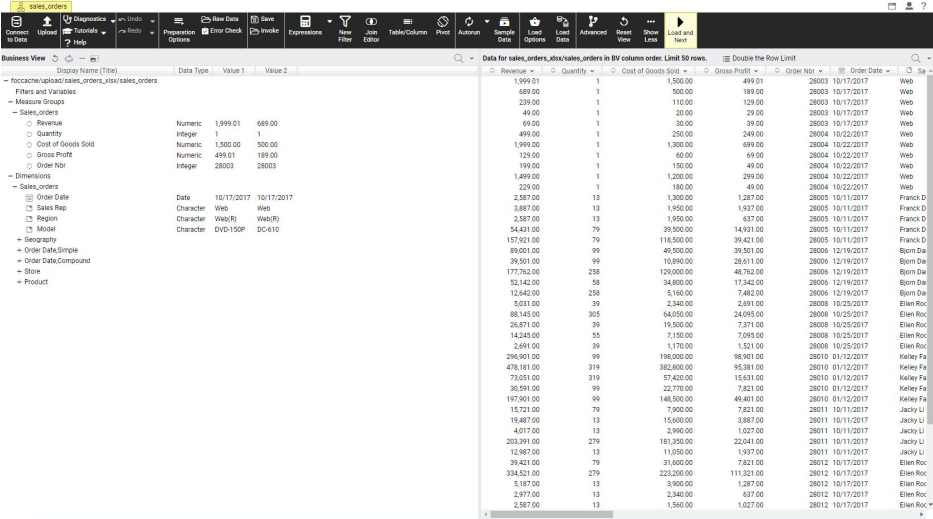
Upload and connect to your data using the enhanced user interface and workflows of the Upload and Connect to Data wizards. The updated ribbon-based interface allows you to modify the structure of your selected data, and implement numerous data preparation techniques, prior to uploading your file or saving your synonym.

Enhanced Upload Wizard

With the Upload wizard you can preview data and make any required changes to spreadsheets or delimited data files before you upload them into a target data Source.

After you upload a new file, you can append it by adding new data to an existing synonym, without changing the structure. This option is useful when you are working with a complex or heavily edited synonym, by allowing you to retain all previous edits and data transformations. You can also merge a file with your data and enhance the existing structure.

The following image shows an example of the enhanced Upload Wizard user interface.

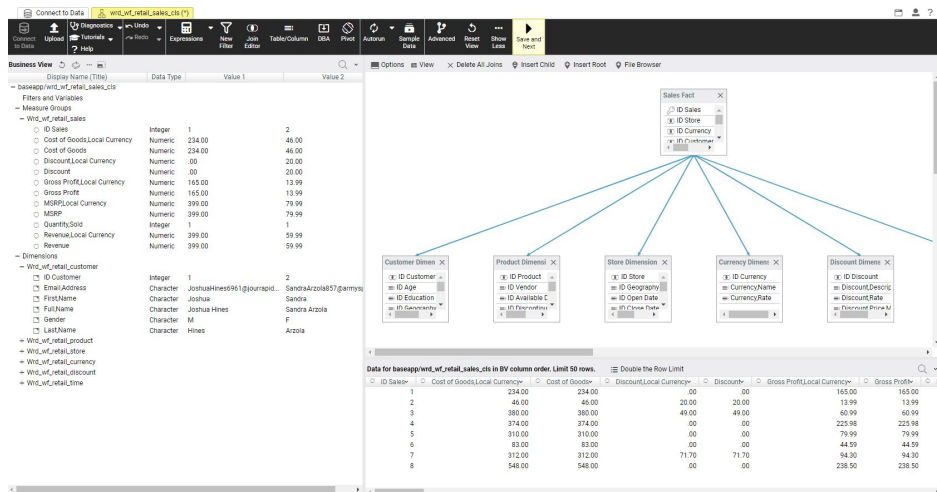


Redesigned Connect to Data Wizard

The Connect to Data wizard connects to your choice of data sources that you can use to build reports, charts, and visualizations. Use the Redesigned Connect to Data wizard to configure adapters and create synonyms.

You can now choose to create Base synonyms or Cluster Synonyms from a single environment, by selecting the appropriate drop-down option. Create a base synonym for one or more data objects. Create a cluster synonym for select objects assigned as facts or dimensions.

The following image shows an example of a Cluster Synonym with a Business View (BV), in the Connect to Data wizard.



Simplified Statistical Functions

The following simplified statistical functions have been added.

- ☐ **CORRELATION**, which returns the degree of correlation between two independent sets of data.
- ☐ **KMEANS_CLUSTER**, which partitions n observations into k clusters in which each observation belongs to the cluster with the nearest mean.
- ☐ **STDDEV**, which quantifies the amount of variation or dispersion of a set of data values.

These functions can be called in a COMPUTE command and operate on the internal matrix that is generated during TABLE request processing. The STDDEV and CORRELATION functions can also be called as a verb object in a display command.

Data Profiling Enhancement - Forecast and Distribution Charts

Data Profiling provides data characteristics for the columns in a synonym. This release introduces two new options: Forecast Chart and Distribution Chart.

The Forecast Chart allows data profiling on numeric fields, and displays the values used for both the actual data values and forecast values in a bar chart. For the selected numeric field, you can specify the field to sort by, the number of predictions you wish to see, and the forecast type. The Forecast Chart is available for numeric fields only.

The Distribution Chart feature displays the most frequent values, along with a report that shows the basic data profiling statistics for the field

Geographic Information Systems

WebFOCUS BUE Location Intelligence provides tools that a data analyst or BI Developer can use to create content using InfoAssist.

Support for International Boundaries

In addition to configuring standard Esri map services, the Reporting Server now hosts and configures geographic boundaries for 58 World Administrative regions. You can use these files to generate Esri maps in InfoAssist. To support using these administrative boundaries in maps that can show geographic locations down to the postal code level, the list of geographic roles has been simplified and unified.

The server provides a Geographic Configuration Editor tool for uploading and configuring additional shapefiles and geographic roles, basemaps, and demographic layers.

The list of geographic roles has been simplified and unified by adding hierarchical levels of keys in the server geographic configuration file. Your request that provides the geography dimension must provide the hierarchical keys needed to identify each target geography. For example, if your geographic role is City, you must also provide values for State and Country.

The following is the list of unified geographic roles is available for generating maps:

- ☐ Point of Interest.
- ☐ City.
- ☐ Continent.
- ☐ Country.
- ☐ County.
- ☐ Geometry line.

☐ Postal code.

☐ State.

There is support for the lowest Administrative Level listed for the following countries:

Country	Postal Code (Number of Values)	Administrative Level (Number of Values)
Argentina	5 - digit (1963)	Departamentos (525)
Australia	4 - digit (2652)	Local Government Areas (569)
Belgium	4 - digit (1146)	Arrondissements (43)
Brazil	5 - digit (17892)	Municípios (5565)
Canada	3 - digit (1629)	Census Divisions (293)
Denmark	4 - digit (1078)	Kommuner (99)
Finland	5 - digit (3041)	Seutukunnat (70)
France	5 - digit	Cantons (1972)
Germany	5 - digit (8201)	Municipalities
Gibraltar	3/4/5 - digit (1)	
Holy See (Vatican City State)	5 - digit (1)	
India	6 - digit (20509)	Districts (640)
Italy	5 - digit (4600)	Provincias (110)
Japan	3 - digit (937)	Prefectures (47)
Netherlands	4 - digit (4044)	COROP Regions (40)
Portugal	4 - digit (507)	Concelhos (308)
Serbia	5 - digit (1)	
Spain	5 - digit (10866)	Provincias (52)

Country	Postal Code (Number of Values)	Administrative Level (Number of Values)
Sweden	5 - digit (9876)	Kommuner (290)
Switzerland	4 - digit (4078)	Bezirke (148)
Taiwan	3 - digit (365)	Township Districts (368)
United Kingdom	2 - digit	Districts (391)
Albania	2 - digit (33)	Qarke (12)
Andorra	5 - digit (7)	Parroquies (7)
Austria	4 - digit (2216)	Politische Bezirke (117)
Belarus	6 - digit (3417)	Woblaszi (7)
Bosnia and Herzegovina	5 - digit (558)	Kantone (18)
Chile	2 - digit (78)	Provincias (54)
China	2 - digit (59)	Counties City Districts (2855)
Costa Rica	2 - digit (13)	Cantones (81)
Croatia	2 - digit (20)	Zupanije (21)
Cyprus	2 - digit (43)	Eparchia (6)
Czech Republic	2 - digit (59)	Orp (206)
Estonia	5 - digit (5318)	Maakonnad (15)
Greece	5 - digit (1046)	Nomoi (75)
Hong Kong	6 - digit (1)	Shih Zizhiqu (18)
Hungary	2 - digit (83)	Kistersegek (175)
Iceland	2 - digit (63)	Landsvaedi (8)
Kenya	1 - digit (10)	Wilaya (47)

Country	Postal Code (Number of Values)	Administrative Level (Number of Values)
Korea, Republic of	3 - digit (244)	Si Gun (230)
Latvia	2 - digit (28)	Rajons (33)
Liechtenstein	4 - digit (13)	Landschaften (2)
Lithuania	2 - digit (93)	Apskritis (10)
Luxembourg	4 - digit (4070)	Cantons (12)
Macedonia, the former Yugoslav Republic of	2 - digit (17)	Statisticki Regioni (8)
Malta	3 - digit (72)	Districts (6)
Mexico	3 - digit (954)	Estados (32)
Monaco	5 - digit (1)	Quartiers (9)
Montenegro	2 - digit (3)	Opština (21)
New Zealand	4 - digit (1064)	Territorial Authorities (68)
Norway	4 - digit (3210)	Økonomisk regioner (89)
Poland	5 - digit (20392)	Gminy (2479)
San Marino	5 - digit (10)	Castelli (9)
Singapore	2 - digit (79)	Regions (5)
Slovakia	2 - digit (24)	Okresy (79)
Slovenia	2 - digit (22)	Statistične Regije (12)
South Africa	Postcodes2 (95)	Municipalities (234)
Turkey	5 - digit (2876)	İller (81)

Visualization and Analytics

WebFOCUS BUE allows all users to easily conduct data preparation, visually analyze complex data sets, and quickly generate compelling data visualizations, dashboards, and reports that can be shared with other users.

Using Insight to Preserve Procedures

Insight is a robust visualization tool that allows for the interactive selection of measures and dimensions, so you can create dynamic charts that refresh as you make changes. Insight is available in HTML5 Chart mode only.

You can now save your Insight charts as you produce them. You can save the same Insight chart multiple times. When you resave a chart, you can use the same title and filename. You will be prompted to overwrite the file each time you save.

Adapters

All adapters can be used for WebFOCUS BUE reporting.

The server supports adapters designed to access a wide variety of data sources. Using the graphical Web Console, you can configure these adapters and create the metadata you need to seamlessly access the corresponding type of data.

Adapter for Apache Spark

The Adapter for Apache Spark is new in this release. It provides access to data using the Spark Thrift Server and JDBC driver. This adapter can be used when:

- ☐ Spark is installed with a Hadoop distribution, such as Hortonworks or MapR, and data is stored in HDFS.
- ☐ Spark is installed independently, without Hadoop, and data is stored in NFS.

Adapter for Microsoft SQL Server Azure Data Warehouse

The Adapter for Microsoft SQL Server Azure Data Warehouse is new in this release. It enables you to access data stored in the Microsoft parallel processing data warehouse architecture.

Adapter for Hyperledger Fabric

The Adapter for Hyperledger Fabric is new in this release. It allows you to seamlessly communicate with IBM Hyperledger Fabric, which provides support for permissioned blockchain applications. Blockchain technology is a distributed record of transactions validated and stored at multiple peer locations in a network. The records stored in the blockchain are immutable, providing an extremely high level of security and integrity.

Adapter for Amazon Athena

The Adapter for Amazon Athena is new in this release. The Amazon Athena query service allows you to access data stored in Amazon Simple Storage Service (Amazon S3) by using standard SQL.

SAP S/4 HANA, the Next Generation of ERP Business Suite From SAP Replaces SAP ECC/ERP

Support for SAP S/4 HANA, the next generation of ERP business suite from SAP replaces SAP ECC/ERP. The Adapter for SAP now supports SAP S/4 HANA. Customers who rely on the current Adapter for SAP can now take advantage of all the benefits of SAP S/4 HANA, while reusing business logic and data in new application initiatives.

Adapter for Oracle: Support for System-Versioned Temporal Tables

Temporal queries against Oracle System-Versioned tables have been implemented by introducing fields with TEMPORAL_PROPERTY SYSTEMTIME. Such a field is added by editing the synonym for the table. For example:

```
DEFINE FIELD1/HYYMDm WITH REALFLD TEMPORAL_PROPERTY SYSTEMTIME = ;$
```

The following are requirements for the field with TEMPORAL_PROPERTY SYSTEMTIME.

- ☐ The field can have any valid field name.
- ☐ The datatype must be a date-time datatype with sufficient precision.
- ☐ The WITH clause is required and must reference a real table column.

Fields with TEMPORAL_PROPERTY=SYSTEMTIME can only be used in a single WHERE test of one of the following two types.

- ☐ `WHERE field EQ expression`

This type of WHERE test translates to an ORACLE AS OF TIMESTAMP clause.

- ☐ `WHERE field FROM expression1 TO expression2`

This type of WHERE test translates to a VERSIONS BETWEEN TIMESTAMP clause.

where:

expression, expression1, expression2

Must be date-time expressions or constants. When used in a FROM-TO expression, the constants DT('0001-01-01') and DT('9999-12-31') represent the oldest and most recent applicable timestamps. They translate to the ORACLE keywords MINVALUE and MAXVALUE.

Adapter for Salesforce.com

Extended Bulk Load is now available on the adapter for Salesforce.com, making it the very first non-SQL adapter with this capability. The Salesforce.com adapter can be found in the ERP adapter folder list.

Adapter for SQL Server: Azure SQL Database Support

The Adapters for SQL Server (suffixes SQLMSS and MSODBC) now support read/write access to the Azure Database. The MSODBC version of the Adapter is recommended on platforms where the MS ODBC driver is available.

Server

The server provides a wide range of capabilities and tools for adapter configuration, metadata creation, application and path management, security control, communications configuration, and for monitoring, tuning, and troubleshooting server performance. Authorized users can perform most server administration tasks from a graphical Web Console.

The server supports WebFOCUS BUE reporting functions, and analysis and data access control functions.

Modern Design of Server Web Console

The server Web Console has been modernized with the use of Google material design icons and the Awesome font.

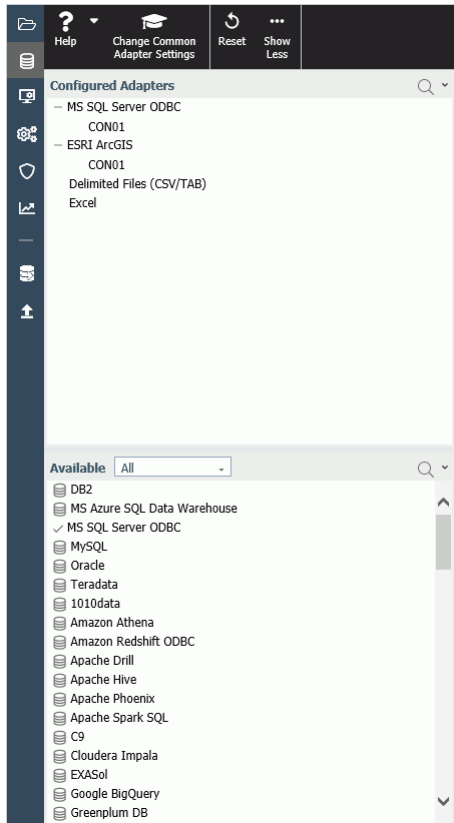
Applications Page Redesign

The Applications page on the Web Console has been redesigned to include:

- ☐ Multi-selection of files and folders for copy, cut, paste, and delete.
- ☐ Column-based filters.
- ☐ An upgraded integrated search.
- ☐ A customized layout with drag and drop of all frames on all Web Console pages and the ability to view items as lists, or tabs.

Redesign of Connect to Data Page

The Connect to Data (Adapters) page has been redesigned to have separate lists for configured adapters and available adapters, as shown in the following image.



The *Configured Adapters* list shows all adapters and connections that have been configured.

The *Available* list shows all available adapters. If a connection has already been configured for an adapter, a check mark is displayed next to the adapter name. A drop-down list enables you to select an adapter category to view on the list.

Many of the options for adapters and connections, such as configuring a new connection or creating a synonym, open in a new streamlined panel on the Connect to Data page.



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