DB2 Web Query New Features

Version 2.1.1

Active Technologies, EDA, EDA/SQL, FIDEL, FOCUS, Information Builders, the Information Builders logo, iWay, iWay Software, Parlay, PC/FOCUS, RStat, Table Talk, Web390, WebFOCUS, WebFOCUS Active Technologies, and WebFOCUS Magnify are registered trademarks, and DataMigrator and Hyperstage are trademarks of Information Builders, Inc.

Adobe, the Adobe logo, Acrobat, Adobe Reader, Flash, Adobe Flash Builder, Flex, and PostScript are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.

Due to the nature of this material, this document refers to numerous hardware and software products by their trademarks. In most, if not all cases, these designations are claimed as trademarks or registered trademarks by their respective companies. It is not this publisher's intent to use any of these names generically. The reader is therefore cautioned to investigate all claimed trademark rights before using any of these names other than to refer to the product described.

Copyright © 2017, by Information Builders, Inc. and iWay Software. All rights reserved. Patent Pending. This manual, or parts thereof, may not be reproduced in any form without the written permission of Information Builders, Inc.

Contents

1. January 2017 - Hotfix 5 7

National Language Support 7

Known Issues 7

REST-Based Application Extension (WQRAX) 7

Business Intelligence Portal 8

InfoAssist 9

Developer Workbench 9

JD Edwards Adapters 10

Report Broker 10

Spreadsheet Client 11

National Language Support 11

DataMigrator/Data Management Console 12

Metadata 12

Reporting Language 13

Documentation 13

Web Browser Support 16

Mobile Browser Support 20

2. September 2016 - Hotfix 4 23

Known Issues 23

Reporting Language 23

REST-Based Application Extension (WQRAX) 24

Business Intelligence Portal 25

InfoAssist 25

JD Edwards Adapters 26

Report Broker 26

Spreadsheet Client 27

National Language Support 27

Data Management Console 28

Metadata 28

Documentation 29

Web Browser Support 31

Mobile Browser Support 35

3. March 2016 - Hotfix 3 39
InfoAssist Support for XLSX Input Type 39
REST-Based Application Extension (WQRAX) 39
Run Web Query Fex (RUNWQFEX) Command 40
Security Bulletin: Web Query is affected by the Apache Commons vulnerability 40
Known Issues 40
Business Intelligence Portal. 40
InfoAssist. 41
JD Edwards Adapters. 41
Report Broker. 42
Spreadsheet Client. 42
National Language Support. 43
Data Management Console. 44
Metadata. 44
Documentation 45
Web Browser Support 47
Mobile Browser Support 51
4. November 2015 - Hotfix 2 55
Report Broker Formats for Scheduled Output 55
ALPHA. 55
COM. 55
COMMA. 56
COMT. 57
DFIX. 57
EXL07. 58
EXL2K PIVOT. 58
PPTX. 59
TAB and TABT. 59
XML. 59
Inserting an SQL Expression Into a Request 59
Syntax: How to Insert an SQL Expression Into a Request With DB_EXPR. 60
Reference: Usage Notes for the DB_EXPR Function. 60
Known Issues 61
Business Intelligence Portal. 61

InfoAssist. 61
JD Edwards Adapters. 62
Report Broker. 62
Spreadsheet Client. 63
National Language Support. 63
Documentation 64
Metadata. 66
Web Browser Support 67
Mobile Browser Support 71

5. July 2015 - Hotfix 1 75

New Developer Workbench File Naming Convention 75
InfoAssist Lightweight Mapping Customizations 76
Migrate Web Query (MIGWEBQRY) Command 76
SQL Optimization Report 76
Procedure: How to Display the SQL Optimization Report. 76
Report Broker Dynamic Distribution List 77
Web Query Procedures 78
Express Analytics Statistics Report 82
Statistics Report Columns. 82
REST-Based Application Extension (WQRAX) 83
Known Issues 83
Business Intelligence Portal. 83
InfoAssist. 84
JD Edwards Adapters. 84
Report Broker. 85
Spreadsheet Client. 85
National Language Support. 86
Documentation 86
Metadata. 89
Web Browser Support 90
Mobile Browser Support 94

Chapter 1

January 2017 - Hotfix 5

This documentation describes new features, known issues, web browser support, and mobile support for the January 2017 - Hotfix 5 release.

This document is intended for all levels of users, including application developers, administrators, and end users. It is also intended to serve as a quick reference for users upgrading from a prior version.

In this chapter:

- National Language Support
- Known Issues
- Web Browser Support
- Mobile Browser Support

National Language Support

NLS characters can be used when specifying a file name for the InfoAssist File Format option.

Known Issues

The following are known issues and will be addressed in a future version of DB2 Web Query.

REST-Based Application Extension (WQRAX)

You must edit HTML Composer dashboards that were created prior to Web Query 2.1.0 group PTF level 13 or 2.1.1 group PTF level 2 for compatibility with current fix levels. Otherwise, they will not run in WQRAX after applying this Hotfix.

Workaround: Edit the HTML dashboard using Web Query using the following steps:

1. Sign in to Web Query using a Web Query Administrator user ID.
2. On the BI Portal resource tree, right-click the HTML dashboard file and select *Edit*.

   Note: if you do not see an Edit option, then the dashboard is already at a current version and these steps do not apply.

3. In the text editor, click *Search* and then *Find*.

4. Type */webquery/ibi_html* in the Find What: box.
5. Type *./ibi_html* in the Replace With: box.
6. Click the *Replace All* button.
7. Click the *Save* button on the toolbar.
8. Click *File* and then *Exit*.

Business Intelligence Portal

This section addresses the known issues for BI Portal.

Upload Data and Upload Wizard

- NLS characters are not supported in the following places when using the Upload Data and Upload Wizard:
  - Excel Worksheet name.
  - Folder name from where the Upload Wizard is being launched.

  Workaround: Use invariant (A-Z and 0-9) characters. Support for NLS characters will be added in a future Hotfix.

- The Upload Wizard fails to upload data. This happens when DB2 Web Query DataMigrator is installed and the user running the Upload Wizard is not licensed to use DataMigrator, that is, a user who is not a member of the DevWorkBench group. This requirement will be removed in a future Hotfix.

  Workaround: If a license is available, add the user to the DevWorkBench group using the Security Center. Otherwise, launch the Upload Wizard from a user who is licensed to use DataMigrator, that is, a user who is a member of the DevWorkBench group.

- Run-Time Enablement (RTE) may cause the Upload Wizard to fail. This will happen if the user's current library (CURLIB) is not defined in the user's active RTE environment. The Upload Wizard writes out a temporary file during the upload process.

  Workaround: It is recommended to add both QGPL and the user's CURLIB (if different from the default, QGPL) to the user's active RTE environment using the WRKWQRTE command.

Metadata Wizard

- The Adapters for Query/400, DB Heritage, and JD Edwards should not be used during the Import Metadata step as these are multi-step Create Synonym processes, which are not yet supported by the Metadata Wizard.

  Workaround: Use the Metadata New option to create synonyms for these Adapter types.

InfoAssist

This section addresses the known issues for InfoAssist.

- The Cut, Copy, and Paste options are unavailable (grayed out) for an InfoAssist Dashboard text box and keyboard shortcuts.

Developer Workbench

This section addresses the known issues for Developer Workbench.

- Creating a new procedure in InfoAssist will result in a procedure tab name starting with Procedure10.
- The Upload Data option is not available through the Developer Workbench product.

  Workaround: Access the Upload Data option using the Business Intelligence Portal.
- Developer Workbench online help is hosted on a remote server and requires access to the Internet.

  Workaround: A PDF version of the help will be available on the DB2 Web Query Wiki.

JD Edwards Adapters

This section addresses the known issues for the JD Edwards Adapters.

To use the Alternate Language option in the Adapter for JD Edwards EnterpriseOne and the Adapter for JD Edwards World:

1. Configure the adapter with *UDC Direct File Access* unchecked.
2. Run the *Refresh Metadata* with *Alternate Language File* unchecked.

   This step will create the udcdicdb table.
3. Run the *Refresh Metadata* with *Alternate Language File* checked and enter the default language code.

   This step will create the altdicdb table.
4. Create all the synonyms needed.

Note: Steps 2 and 3 need to be run, as needed, whenever UDC descriptions are updated.

Report Broker

This section addresses the known issues for Report Broker.

- The Run Broker Schedule (RUNBRSCHED) command will not run a Report Broker schedule that uses a distribution list for report distribution.

  Workaround: Run the schedule from the DB2 Web Query browser interface.

- Migration of Public Distribution Lists will generate the following error:

```
ERROR IBFSService                        - setShares -
opShareBasic/opShareAdvanced to this resource denied - user:qwqadmin
res:/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr
[2014-03-11 00:00:00,605] ERROR IBFSAddrBookConverter          - Failed
 to share
'/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr'
with IBFS:/SSYS/GROUPS/EVERYONE
```

  The distribution list will be migrated as a private object. To make this published:

  1. Move the distribution list to a published folder, right-click the distribution list, and select the *Publish* option.

- Schedules may not run when using custom date intervals.

  Workaround: Use a different recurring interval, such as monthly or weekly. This will be fixed in a future Hotfix.

Spreadsheet Client

This section addresses the known issues for Spreadsheet Client.

- Populating a spreadsheet using a large Excel Add-in request (25 columns, 200K rows) does not return output.
- DB2 Web Query InfoAssist, when opened from Spreadsheet Client, does not support:
  - Excel Pivot output type
  - Table of Contents format option

  Both of these options will be disabled from Spreadsheet Client InfoAssist in a future release of DB2 Web Query.

National Language Support

This section addresses the known issues for National Language Support (NLS). This section only applies to Turkish and can be ignored otherwise.

In Turkish, running an active Flash or active PDF report in InfoAssist or from BI Portal generates a FOC3357 error.

Workaround: Edit the /QIBM/UserData/qwebqry/base80/client/wfc/etc/nlscfg.err file and add the following line to the end of the file:

```
ENCODING = Cp1026
```

Also, edit the /QIBM/UserData/qwebqry/ibi/srv77/wfs/etc/odin.cfg file by modifying the JSCOM3 Listener block to include an additional argument on the JVM_OPTIONS parameter, as follows:

```
;JSCOM3 Listener
NODE = JSS
BEGIN
  PROTOCOL = TCP
  CLASS = JAVASERVER
  PORT = 12335
  AWT_HEADLESS = Y
  JVM_OPTIONS = -Djava.version=1.6|-Duser.language=en
  JVM_MAX_HEAP = 512
  IBI_CLASSPATH = /home/sqljdbc40/sqljdbc.jar:/home/sqljdbc20/sqljdbc.jar
END
```

DataMigrator/Data Management Console

Important: The renaming of Application Directories in the Data Management Console is not recommended as it may result in execution failures with the contents of the Application Directory.

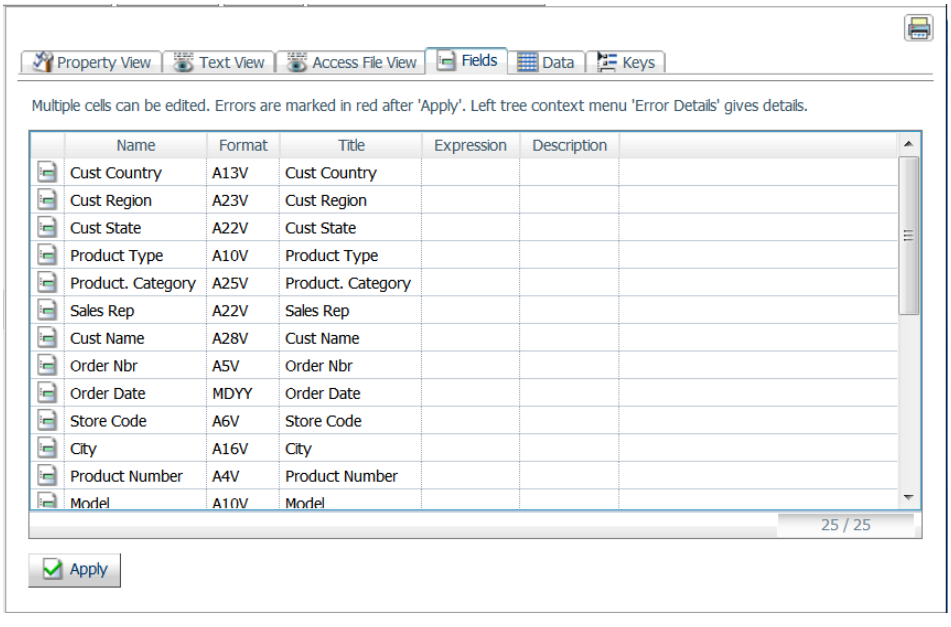
Metadata

This section addresses the known issues for metadata.

- Creating a synonym for a Query/400 file from the right-click folder Metadata Edit option does not generate the associated Web Query procedure in the repository.

  Workaround: Right-click a folder and select the *Metadata New* option to create synonyms for Query/400.

- Editing a synonym using the Fields tab of the Synonym Editor generates a "Failed to load, server may be down, status =404" error upon applying edits. The Synonym Editor tabs are shown in the following image.



  Workaround: Click the *Property View* tab to make any edits to the synonym.

Reporting Language

This section addresses the known issues for the reporting language.

Alert! XLS Files Not Opening After Applying Microsoft Security Patch MS16-088

In July 2016, Microsoft® issued a security patch (MS16-088) that prevents Excel® 2007, 2010, 2013, and 2016 from opening XLS files generated by the Web Query EXL2K and EXL2K FORMULA formats. See *Microsoft Security Bulletin MS16-088 - Critical* for details pertaining to each Office release. As described in *Microsoft Fixes or workarounds for recent issues in Excel for Windows* dated July 2016, when you previously tried to open an HTML file with an .XLS file extension from an untrusted location, Excel would warn about the mismatch between the file extension and content, but would still open the workbook without Protected View security. After the security updates, Excel no longer opens the workbook because these files are not compatible with Protected View, and there is no warning or other indication it was not opened. Excel shows a blank screen instead of a more helpful error message with information about what to do next.

On August 9, 2016, Microsoft issued updates for Microsoft Office to correct the change in behavior introduced by Microsoft July 2016 security updates (MS16-088) for certain file types to increase security. See *Microsoft Excel workbooks may not open after MS16-088 is installed* for additional information, including how to obtain the patch for your Microsoft Office version. As per Microsoft, these updates will also be published to Windows Update and the Windows Server Update Service (WSUS). These services provide files that are updated automatically, based on the Windows Update settings for the computer.

Web Query has been successfully tested with the Microsoft Office update for Excel® 2007, 2010, 2013, and 2016 to confirm XLS files generated by the Web Query EXL2K and EXL2K FORMULA formats open in protected view.

For more information, see *Microsoft Update to Resolve WebFOCUS EXL2K and EXL2K FORMULA (HTML-based) XLS Files Not Opening After Applying Microsoft Security Patch MS16-088*.

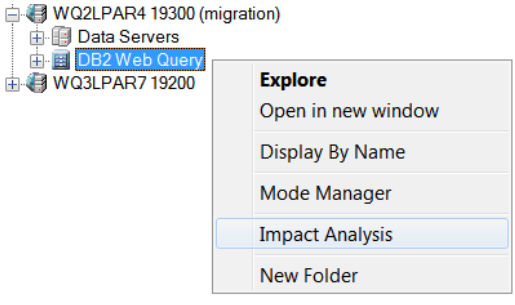
Documentation

This section addresses updates to the documentation.

- In the Developer Workbench documentation, the Report and Define Function Library options are not available from the Repository folder New menu.
- In the Developer Workbench documentation, the Visualization and Schedule options are not available from the subfolder right-click menu.
- In the Report Broker, *Selecting a Report Format* topic, GIF format is not supported for bursting.

- In the Developer Workbench *Analyzing Metadata and Procedures with the Impact Analysis Tool* topic, the documentation indicates that the Impact Analysis tool can be launched from the Synonym Editor or from the user interface. Regarding the latter, launching the Impact Analysis tool from the Data Server node on the Explorer tree will limit the search path to the Reporting Server application directories. The only procedures that can reside in these directories are DataMigrator for i data flows.

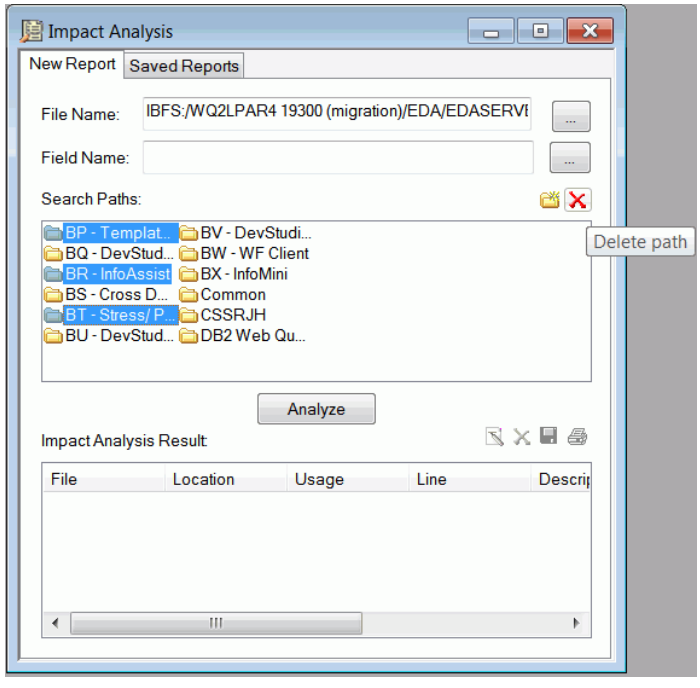
  In order for the Impact Analysis tool to be able to search the DB2 Web Query repository, it is necessary to launch the tool from the DB2 Web Query node, and not the Data Servers node, as shown in the following image.



  The search path is determined by the location where you launch the Impact Analysis tool. Launching the tool from the DB2 Web Query node will search the entire repository for procedures that are impacted. There are two ways to limit the scope of the search:

  1. Launch the Impact Analysis tool from a specific top-level folder in the repository.

2. While in the Impact Analysis tool, use the Search Paths filter to delete any top level folders that are not required, as shown in the following image.



Note: Using the Impact Analysis tool from the DB2 Web Query repository node requires a user ID that belongs to the WebQueryAdministrator group.

Web Browser Support

The following table provides browser support information for Web Query product components for Web Query Version 2.1.1 HF5.

✓ Supported ✓ Supported with minor issues Under evaluation

— Not evaluated ✗ Not supported

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
Reporting						
Active Reports	✓	✓	✓	✓	✓	✓
HTML Composer pages	Standards mode ✓	Standards mode ✓	Standards mode ✓	✓	✓	✓
InfoAssist	✓	✓	✓	✓	✓	✓
HTML Reporting Features						
HTML format *(No JavaScript)*	✓	✓	✓	✓	✓	✓
JavaScript components ❑ Accordion ❑ HFREEZE ❑ On-demand Paging	Standards Mode ✓ Compatibility View ✓	Standards Mode ✓ Compatibility View ✓	✓	✓	✓	✓
❑ Multi-drill	✓	✓	✓	✓	✓	✓

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
❑ Table of Contents (BYTOC)	✓	✓	✓	✓	✓	✓
Graph Requests (See Graph request notes below for additional information)						
Server-generated graphs	✓	✓	✓	✓	✓	✓
Browser-generated (HTML5)	✓	✓	✓	✓	–	✓
Browser-generated (AHTML)	✓	✓	✓	✓	✓	✓
Browser-generated (AFLEX, APDF)	✓	✓	✓	✓	✓	✓
Web Interfaces						
Amper Auto-prompting	✓	✓	✓	✓	✓	✓
BI Portal	✓	✓	✓	✓	✓	✓
OLAP	◐	◐	◐	◐	◐	◐
Report Broker	✓	✓	✓	✓	✓	✓

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
Desktop Tools						
Developer Workbench *(Requires Internet Explorer)*	✓	✓	✓	✗	✗	✗
Administration Tools						
Security Center	✓	✓	✓	✓	✓	✓
Web Query Administration Console	✓	✓	✓	✓	✓	✓

Note:

- By default, the 2.1 HF4 and higher releases of Developer Workbench display output in the Desktop Viewer, and can be configured to use the Output Viewer Options tab from the Developer Workbench Options dialog box. You can run applications in Internet Explorer. When an HTML page is displayed in the Desktop Viewer, the document mode specified within the page source is applied. When a document mode is not specified within the HTML page source, the HTML page is displayed in Internet Explorer 7 Standards mode.
- Release 2.1 HF3 and earlier Developer Workbench requires Microsoft Internet Explorer, and will always use the Internet Explorer browser, even when Internet Explorer is not configured as the default browser.
- Simple HTML Web Query reports can be viewed on any browser.
- Support for presenting images and graphs in HTML, DHTML, and DHTML compound reports is provided using an image embedding facility based on the client browser. Output generated by Internet Explorer browsers or in scenarios where the browser is unknown (such as distributed by Report Broker) supports image inclusion through the creation of a web archive file (.mht). For all other browsers, images are 64-bit encoded within the generated .htm file.
- Graph request notes:
  - Server-generated graphs refer to traditional graph requests that are generated on the Reporting Server, and then embedded as a bitmap or vector image in a document or webpage. This includes the following output formats:
    - Bitmap: PNG, JPG
    - Vector: PDF (but not active PDF), SVG
  - Browser-generated graphs refer to graphs that are rendered inside the browser. This is done using JavaScript in HTML5 compatible browsers and by Flash in older versions of Internet Explorer that are either not HTML5 compatible or are being run in a mode that is not HTML5 compatible. Browser-generated graphs are utilized in both standard HTML5 output (FORMAT JSCHART) and in Active Technologies (FORMAT AHTML and FORMAT AFLEX, APDF).

  Note: Applet-based charts (Java Graph engine running client-side) have been deprecated in Web Query Version 2.1 and are no longer tracked in this matrix.

- Mac Users: Firefox browser is supported on the Macintosh operating system. Firefox browser functionality is consistent with the Safari web browser.
- Adobe Reader support:
  - Adobe XI is certified.
  - Adobe X is certified.
  - Adobe Acrobat Reader Version 9 is supported.
- Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the configuration information for the specific browser on how to change the Application Options settings for the relevant content types so that the browser will automatically use the Adobe Reader.

Mobile Browser Support

Web Query was tested on the following devices:

- iOS 7 tablet
- iOS 8 tablet
- iOS 6 touch and phone
- Android 4.4 tablet and phone

The following table provides mobile browser support information for Web Query product components for Web Query Version 2.1.1 HF5.

Supported Supported with minor issues Under evaluation

 Not evaluated Not supported

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Reporting				
Active Reports				

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
HTML Composer pages	✓	✓	–	–
PDF	✓	–	✗ (Requires third-party apps)	✗
Excel	✓	–	✗ (Requires third-party apps)	✗
HTML Reporting Features				
HTML format *(No JavaScript)*	✓	–	✓	–
JavaScript components ❑ Accordion ❑ HFREEZE ❑ On-demand Paging	✓	–	✓	–
❑ Multi-drill	✓	–	–	–
❑ Table of Contents (BYTOC)	✓	–	–	–
Graph Requests				
Server-generated graphs	✓	✓	✓	✓
Browser-generated (HTML5)	✓	✓	✓	✓
Browser-generated (AHTML)	✓	✓	✓	✓

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Interfaces				
Amper Auto-prompting		–		–

Note:

- Web Query developer tools (InfoAssist) are not supported for mobile.

Chapter 2

September 2016 - Hotfix 4

This documentation describes known issues, web browser support, and mobile support for the September 2016 - Hotfix 4 release.

This document is intended for all levels of users, including application developers, administrators, and end users. It is also intended to serve as a quick reference for users upgrading from a prior version.

In this chapter:

- Known Issues
- Web Browser Support
- Mobile Browser Support

Known Issues

The following are known issues and will be addressed in a future version of DB2 Web Query.

Reporting Language

This section addresses the known issues for the reporting language.

Alert! XLS Files Not Opening After Applying Microsoft Security Patch MS16-088

In July 2016, Microsoft® issued a security patch (MS16-088) that prevents Excel® 2007, 2010, 2013, and 2016 from opening XLS files generated by the Web Query EXL2K and EXL2K FORMULA formats. See *Microsoft Security Bulletin MS16-088* for details pertaining to each Office release. As described in *Microsoft Fixes or workarounds for recent issues in Excel for Windows* dated July 2016, when you previously tried to open an HTML file with an .XLS file extension from an untrusted location, Excel would warn about the mismatch between the file extension and content, but would still open the workbook without Protected View security. After the security updates, Excel no longer opens the workbook because these files are not compatible with Protected View, and there is no warning or other indication it was not opened. Excel shows a blank screen instead of a more helpful error message with information about what to do next.

On August 9, 2016, Microsoft® issued updates for Microsoft Office to correct the change in behavior introduced by Microsoft July 2016 security updates (MS16-088) for certain file types to increase security. See the *Microsoft Excel workbooks may not open after MS16-088 is installed - Microsoft* page for additional information, including how to obtain the patch for your Microsoft Office version. As per Microsoft, these updates will also be published to Windows Update and the Windows Server Update Service (WSUS). These services provide files that are updated automatically, based on the Windows Update settings for the computer.

Web Query has been successfully tested with the Microsoft Office update for Excel® 2007, 2010, 2013, and 2016 to confirm XLS files generated by the Web Query EXL2K and EXL2K FORMULA formats open in protected view.

For more information, see *Microsoft Update to Resolve WebFOCUS EXL2K and EXL2K FORMULA (HTML-based) XLS Files Not Opening After Applying Microsoft Security Patch MS16-088*.

REST-Based Application Extension (WQRAX)

You must edit HTML Composer dashboards that were created prior to Web Query 2.1.0 group PTF level 13 or 2.1.1 group PTF level 2 for compatibility with current fix levels. Otherwise, they will not run in WQRAX after applying this Hotfix.

Workaround: Edit the HTML dashboard using Web Query using the following steps:

1. Sign in to Web Query using a Web Query Administrator user ID.
2. On the BI Portal resource tree, right-click the HTML dashboard file and select *Edit*.

   Note: if you do not see an Edit option, then the dashboard is already at a current version and these steps do not apply.

3. In the text editor, click *Find/Replace*.
4. Type */webquery/ibi_html* in the Find What: box.
5. Type *./ibi_html* in the Replace With: box.
6. Click the *Replace All* button.
7. Click the *Save* button.
8. Click the *Close* button.

Business Intelligence Portal

This section addresses the known issues for BI Portal.

Upload Data and Upload Wizard

- NLS characters are not supported in the following places when using the Upload Data and Upload Wizard:
  - Excel Worksheet name.
  - Folder name from where the Upload Wizard is being launched.

  Workaround: Use invariant (A-Z and 0-9) characters. Support for NLS characters will be added in a future Hotfix.

- The Upload Wizard fails to upload data. This happens when DB2 Web Query DataMigrator is installed and the user running the Upload Wizard is not licensed to use DataMigrator, that is, a user who is not a member of the DevWorkBench group. This requirement will be removed in a future Hotfix.

  Workaround: If a license is available, add the user to the DevWorkBench group using the Secuity Center. Otherwise, launch the Upload Wizard from a user who is licensed to use DataMigrator, that is, a user who is a member of the DevWorkBench group.

- Run-Time Enablement (RTE) may cause the Upload Wizard to fail. This will happen if the user's current library (CURLIB) is not defined in the user's active RTE environment. The Upload Wizard writes out a temporary file during the upload process.

  Workaround: It is recommended to add both QGPL and the user's CURLIB (if different from the default, QGPL) to the user's active RTE environment using the WRKWQRTE command.

Metadata Wizard

- The Adapters for Query/400, DB Heritage, and JD Edwards should not be used during the Import Metadata step as these are multi-step Create Synonym processes, which are not yet supported by the Metadata Wizard.

  Workaround: Use the Metadata New option to create synonyms for these Adapter types.

InfoAssist

This section addresses the known issues for InfoAssist.

- Some navigation and arrow keys (for example, Delete, Home, and End) do not work in the following areas of the application:
  - Text input box for Prompts (Delete key).

- Join Description of the Edit Join dialog box (arrow keys).

Workaround: Use the mouse and Backspace key.

Note: This applies to Firefox versions 27.0.01 and higher.

JD Edwards Adapters

This section addresses the known issues for the JD Edwards Adapters.

To use the Alternate Language option in the Adapter for JD Edwards EnterpriseOne and the Adapter for JD Edwards World:

1. Configure the adapter with *UDC Direct File Access* unchecked.
2. Run the *Refresh Metadata* with *Alternate Language File* unchecked.

   This step will create the udcdicdb table.
3. Run the *Refresh Metadata* with *Alternate Language File* checked and enter the default language code.

   This step will create the altdicdb table.
4. Create all the synonyms needed.

Note: Steps 2 and 3 need to be run, as needed, whenever UDC descriptions are updated.

Report Broker

This section addresses the known issues for Report Broker.

- Migration of Public Distribution Lists will generate the following error:

```
ERROR IBFSService                        - setShares -
opShareBasic/opShareAdvanced to this resource denied - user:qwqadmin
res:/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr
[2014-03-11 00:00:00,605] ERROR IBFSAddrBookConverter          - Failed
 to share
'/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr'
with IBFS:/SSYS/GROUPS/EVERYONE
```

  The distribution list will be migrated as a private object. To make this published:

  1. Move the distribution list to a published folder.
  2. Right-click on the distribution list and select the *Publish* option.

- Schedules may not run when using custom date intervals.

Workaround: Use a different recurring interval, such as monthly or weekly. This will be fixed in a future Hotfix.

Spreadsheet Client

This section addresses the known issues for Spreadsheet Client.

DB2 Web Query InfoAssist, when opened from Spreadsheet Client, does not support the following:

- Excel Pivot output type
- Table of Contents format option

Both of these options will be disabled from Spreadsheet Client InfoAssist in a future release of DB2 Web Query.

National Language Support

This section addresses the known issues for National Language Support (NLS). This section only applies to Turkish and can be ignored otherwise.

In Turkish, running an active Flash or active PDF report in InfoAssist or from BI Portal generates a FOC3357 error.

Workaround: Edit the /QIBM/UserData/qwebqry/base80/client/wfc/etc/nlscfg.err file and add the following line to the end of the file:

```
ENCODING = Cp1026
```

Also, edit the /QIBM/UserData/qwebqry/ibi/srv77/wfs/etc/odin.cfg file by modifying the JSCOM3 Listener block to include an additional argument on the JVM_OPTIONS parameter, as follows:

```
;JSCOM3 Listener
NODE = JSS
BEGIN
  PROTOCOL = TCP
  CLASS = JAVASERVER
  PORT = 12335
  AWT_HEADLESS = Y
  JVM_OPTIONS = -Djava.version=1.6|-Duser.language=en
  JVM_MAX_HEAP = 512
  IBI_CLASSPATH = /home/sqljdbc40/sqljdbc.jar:/home/sqljdbc20/sqljdbc.jar
END
```

Data Management Console

Important: The renaming of Application Directories in the Data Management Console is not recommended as it may result in execution failures with the contents of the Application Directory.

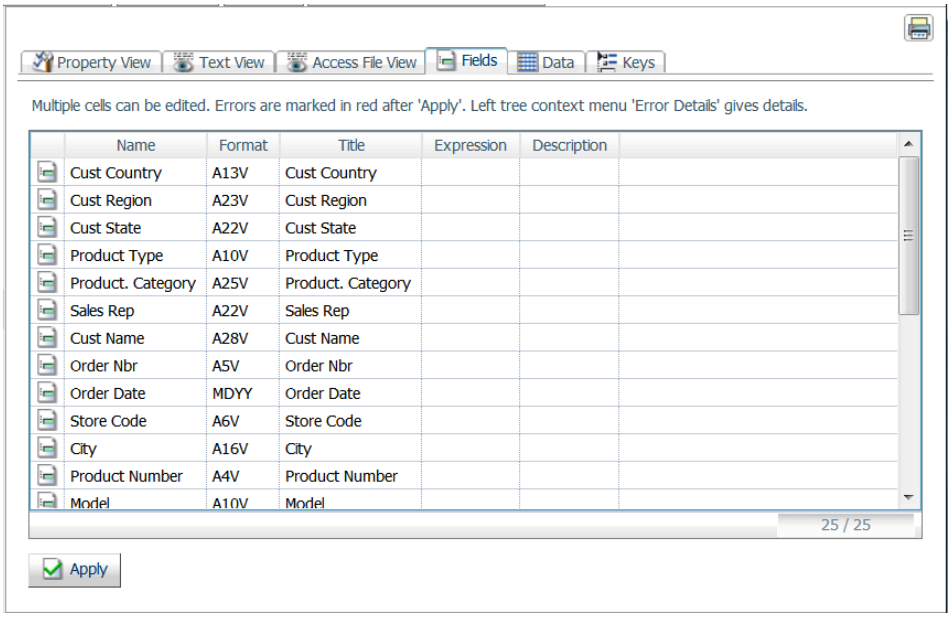
Metadata

This section addresses the known issues for metadata.

- Creating a synonym for a Query/400 file from the right-click folder Metadata Edit option does not generate the associated Web Query procedure in the repository.

  Workaround: Right-click a folder and select the *Metadata New* option to create synonyms for Query/400.

- Editing a synonym using the Fields tab of the Synonym Editor generates a "Failed to load, server may be down, status =404" error upon applying edits. The Synonym Editor tabs are shown in the following image.



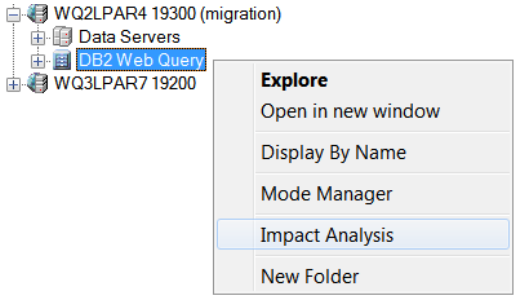
  Workaround: Click the *Property View* tab to make any edits to the synonym.

Documentation

This section addresses updates to the documentation.

- In the Developer Workbench *Analyzing Metadata and Procedures with the Impact Analysis Tool* topic, the documentation indicates that the Impact Analysis tool can be launched from the Synonym Editor or from the user interface. Regarding the latter, launching the Impact Analysis tool from the Data Server node on the Explorer tree will limit the search path to the Reporting Server application directories. The only procedures that can reside in these directories are DataMigrator for i data flows.

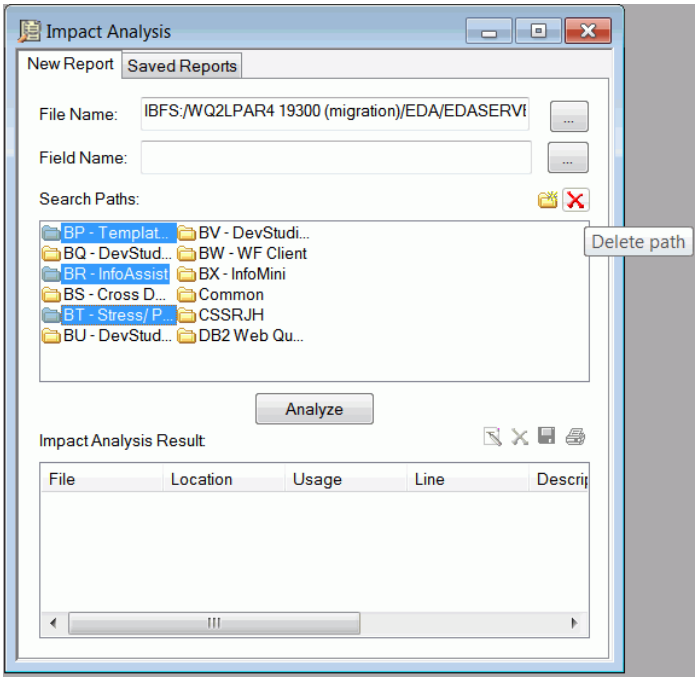
  In order for the Impact Analysis tool to be able to search the DB2 Web Query repository, it is necessary to launch the tool from the DB2 Web Query node, and not the Data Servers node, as shown in the following image.



  The search path is determined by the location where you launch the Impact Analysis tool. Launching the tool from the DB2 Web Query node will search the entire repository for procedures that are impacted. There are two ways to limit the scope of the search:

  1. Launch the Impact Analysis tool from a specific top-level folder in the repository.

2. While in the Impact Analysis tool, use the Search Paths filter to delete any top level folders that are not required, as shown in the following image.



Note: Using the Impact Analysis tool from the DB2 Web Query repository node requires a user ID that belongs to the WebQueryAdministrator group.

Web Browser Support

The following table provides browser support information for Web Query product components for Web Query Version 2.1.1 HF4.

✓ Supported ✓ Supported with minor issues Under evaluation

— Not evaluated ✗ Not supported

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
Reporting						
Active Reports	✓	✓	✓	✓	✓	✓
HTML Composer pages	Standards mode ✓	Standards mode ✓	Standards mode ✓	✓	✓	✓
InfoAssist	✓	✓	✓	✓	✓	✓
HTML Reporting Features						
HTML format *(No JavaScript)*	✓	✓	✓	✓	✓	✓
JavaScript components ❑ Accordion ❑ HFREEZE ❑ On-demand Paging	Standards Mode ✓ Compatibility View ✓	Standards Mode ✓ Compatibility View ✓	✓	✓	✓	✓
❑ Multi-drill	✓	✓	✓	✓	✓	✓

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
❑ Table of Contents (BYTOC)	✓	✓	✓	✓	✓	✓
Graph Requests (See Graph request notes below for additional information)						
Server-generated graphs	✓	✓	✓	✓	✓	✓
Browser-generated (HTML5)	✓	✓	✓	✓	–	✓
Browser-generated (AHTML)	✓	✓	✓	✓	✓	✓
Browser-generated (AFLEX, APDF)	✓	✓	✓	✓	✓	✓
Web Interfaces						
Amper Auto-prompting	✓	✓	✓	✓	✓	✓
BI Portal	✓	✓	✓	✓	✓	✓
OLAP	◐	◐	◐	◐	◐	◐
Report Broker	✓	✓	✓	✓	✓	✓
Desktop Tools						

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
Developer Workbench *(Requires Internet Explorer)*	✓	✓	✓	✗	✗	✗
Administration Tools						
Security Center	✓	✓	✓	✓	✓	✓
Web Query Administration Console	✓	✓	✓	✓	✓	✓

Note:

- By default, the 2.1 HF4 and higher releases of Developer Workbench display output in the Desktop Viewer, and can be configured to use the Output Viewer Options tab from the Developer Workbench Options dialog box. You can run applications in Internet Explorer. When an HTML page is displayed in the Desktop Viewer, the document mode specified within the page source is applied. When a document mode is not specified within the HTML page source, the HTML page is displayed in Internet Explorer 7 Standards mode.
- Release 2.1 HF3 and earlier Developer Workbench requires Microsoft Internet Explorer, and will always use the Internet Explorer browser, even when Internet Explorer is not configured as the default browser.
- Simple HTML Web Query reports can be viewed on any browser.
- Support for presenting images and graphs in HTML, DHTML, and DHTML compound reports is provided using an image embedding facility based on the client browser. Output generated by Internet Explorer browsers or in scenarios where the browser is unknown (such as distributed by Report Broker) supports image inclusion through the creation of a web archive file (.mht). For all other browsers, images are 64-bit encoded within the generated .htm file.
- Graph request notes:
  - Server-generated graphs refer to traditional graph requests that are generated on the Reporting Server, and then embedded as a bitmap or vector image in a document or webpage. This includes the following output formats:
    - Bitmap: PNG, JPG
    - Vector: PDF (but not active PDF), SVG
  - Browser-generated graphs refer to graphs that are rendered inside the browser. This is done using JavaScript in HTML5 compatible browsers and by Flash in older versions of Internet Explorer that are either not HTML5 compatible or are being run in a mode that is not HTML5 compatible. Browser-generated graphs are utilized in both standard HTML5 output (FORMAT JSCHART) and in Active Technologies (FORMAT AHTML and FORMAT AFLEX, APDF).

  Note: Applet-based charts (Java Graph engine running client-side) have been deprecated in Web Query Version 2.1 and are no longer tracked in this matrix.

- Mac Users: Firefox browser is supported on the Macintosh operating system. Firefox browser functionality is consistent with the Safari web browser.
- Adobe Reader support:
  - Adobe XI is certified.
  - Adobe X is certified.
  - Adobe Acrobat Reader Version 9 is supported.
- Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the configuration information for the specific browser on how to change the Application Options settings for the relevant content types so that the browser will automatically use the Adobe Reader.

Mobile Browser Support

Web Query was tested on the following devices:

- iOS 7 tablet
- iOS 8 tablet
- iOS 6 touch and phone
- Android 4.4 tablet and phone

The following table provides mobile browser support information for Web Query product components for Web Query Version 2.1.1 HF4.

Supported Supported with minor issues Under evaluation

 Not evaluated Not supported

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Reporting				
Active Reports				

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
HTML Composer pages	✓	✓	–	–
PDF	✓	–	✗ (Requires third-party apps)	✗
Excel	✓	–	✗ (Requires third-party apps)	✗
HTML Reporting Features				
HTML format *(No JavaScript)*	✓	–	✓	–
JavaScript components ❑ Accordion ❑ HFREEZE ❑ On-demand Paging	✓	–	✓	–
❑ Multi-drill	✓	–	–	–
❑ Table of Contents (BYTOC)	✓	–	–	–
Graph Requests				
Server-generated graphs	✓	✓	✓	✓
Browser-generated (HTML5)	✓	✓	✓	✓
Browser-generated (AHTML)	✓	✓	✓	✓

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Interfaces				
Amper Auto-prompting		–		–

Note:

- Web Query developer tools (InfoAssist) are not supported for mobile.

Chapter 3

March 2016 - Hotfix 3

This documentation describes new features, known issues, web browser support, and mobile support for the March 2016 - Hotfix 3 release.

This document is intended for all levels of users, including application developers, administrators, and end users. It is also intended to serve as a quick reference for users upgrading from a prior version.

In this chapter:

- InfoAssist Support for XLSX Input Type
- REST-Based Application Extension (WQRAX)
- Run Web Query Fex (RUNWQFEX) Command
- Security Bulletin: Web Query is affected by the Apache Commons vulnerability
- Known Issues
- Web Browser Support
- Mobile Browser Support

InfoAssist Support for XLSX Input Type

XLSX is now supported as an input type when creating a filter condition from a file in InfoAssist.

REST-Based Application Extension (WQRAX)

WQRAX invokes Web Query REST web service APIs to run reports. Before running the report, WQRAX has to connect to REST in order to sign on. The connections to REST can time out, according to the session time out configuration of Web Query. Users can now configure a WQRAX timeout redirect URL in wqrax.properties. When the connection to REST times out, WQRAX will redirect the user to the configured URL. For details, see the *Web Query REST-based Application Extension administration guide* at *https://ibm.biz/Bd4xrG*.

HTML Composer dashboards that were created prior to Web Query 2.1.1 group PTF level 2 must be opened and resaved. Otherwise, they will not run in WQRAX after applying this Hotfix. Right-click a dashboard from the Developer Workbench tree, click *Open*, and then click *Save*. You only need to do this once for each dashboard. By opening and resaving the dashboard, a URL internal to the .fex will automatically be updated from '/webquery/ibi_html' to './ibi_html'.

Run Web Query Fex (RUNWQFEX) Command

The RUNWQFEX CL command can now be used to run a Web Query Data Migrator flow. For details, see the *R21x 5250 Reporting Extension usage manual* at *https://ibm.biz/Bd4xr8*.

Security Bulletin: Web Query is affected by the Apache Commons vulnerability

An Apache® Commons™ Collections™ vulnerability for handling Java object deserialization was addressed by IBM® DB2 Web Query for i. Apache is the underlying infrastructure for many Java-based products, including Web Query. While not part of Web Query itself, it was important to include the patch in this Web Query update. For details, see the Security Bulletin at:

http://www.ibm.com/support/docview.wss?uid=nas8N1021201

Known Issues

The following are known issues and will be addressed in a future version of DB2 Web Query.

Business Intelligence Portal

This section addresses the known issues for BI Portal.

Upload Data and Upload Wizard

- NLS characters are not supported in the following places when using the Upload Data and Upload Wizard:
  - Excel Worksheet name.
  - Folder name from where the Upload Wizard is being launched.

  Workaround: Use invariant (A-Z and 0-9) characters. Support for NLS characters will be added in a future Hotfix.
- The Upload Wizard fails to upload data. This happens when DB2 Web Query DataMigrator is installed and the user running the Upload Wizard is not licensed to use DataMigrator, that is, a user who is not a member of the DevWorkBench group. This requirement will be removed in a future Hotfix.

Workaround: If a license is available, add the user to the DevWorkBench group using the Secuity Center. Otherwise, launch the Upload Wizard from a user who is licensed to use DataMigrator, that is, a user who is a member of the DevWorkBench group.

- Run-Time Enablement (RTE) may cause the Upload Wizard to fail. This will happen if the user's current library (CURLIB) is not defined in the user's active RTE environment. The Upload Wizard writes out a temporary file during the upload process.

  Workaround: It is recommended to add both QGPL and the user's CURLIB (if different from the default, QGPL) to the user's active RTE environment using the WRKWQRTE command.

Metadata Wizard

- The Adapters for Query/400, DB Heritage, and JD Edwards should not be used during the Import Metadata step as these are multi-step Create Synonym processes, which are not yet supported by the Metadata Wizard.

  Workaround: Use the Metadata New option to create synonyms for these Adapter types.

InfoAssist

This section addresses the known issues for InfoAssist.

- Some navigation and arrow keys (for example, Delete, Home, and End) do not work in the following areas of the application:
  - Text input box for Prompts (Delete key).
  - Join Description of the Edit Join dialog box (arrow keys).

  Workaround: Use the mouse and Backspace key.

  Note: This applies to Firefox versions 27.0.01 and higher.

JD Edwards Adapters

This section addresses the known issues for the JD Edwards Adapters.

To use the Alternate Language option in the Adapter for JD Edwards EnterpriseOne and the Adapter for JD Edwards World:

1. Configure the adapter with *UDC Direct File Access* unchecked.
2. Run the *Refresh Metadata* with *Alternate Language File* unchecked.

   This step will create the udcdicdb table.

3. Run the *Refresh Metadata* with *Alternate Language File* checked and enter the default language code.

   This step will create the altdicdb table.

4. Create all the synonyms needed.

Note: Steps 2 and 3 need to be run, as needed, whenever UDC descriptions are updated.

Report Broker

This section addresses the known issues for Report Broker.

- Migration of Public Distribution Lists will generate the following error:

```
ERROR IBFSService                        - setShares -
opShareBasic/opShareAdvanced to this resource denied - user:qwqadmin
res:/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr
[2014-03-11 00:00:00,605] ERROR IBFSAddrBookConverter          - Failed
 to share
'/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr'
with IBFS:/SSYS/GROUPS/EVERYONE
```

  The distribution list will be migrated as a private object. To make this published:

  1. Move the distribution list to a published folder.
  2. Right-click on the distribution list and select the *Publish* option.

- Schedules may not run when using custom date intervals.

  Workaround: Use a different recurring interval, such as monthly or weekly. This will be fixed in a future Hotfix.

Spreadsheet Client

This section addresses the known issues for Spreadsheet Client.

DB2 Web Query InfoAssist, when opened from Spreadsheet Client, does not support the following:

- Excel Pivot output type
- Table of Contents format option

Both of these options will be disabled from Spreadsheet Client InfoAssist in a future release of DB2 Web Query.

National Language Support

This section addresses the known issues for National Language Support (NLS). This section only applies to Turkish and can be ignored otherwise.

In Turkish, running an active Flash or active PDF report in InfoAssist or from BI Portal generates a FOC3357 error.

Workaround: Edit the /QIBM/UserData/qwebqry/base80/client/wfc/etc/nlscfg.err file and add the following line to the end of the file:

```
ENCODING = Cp1026
```

Also, edit the /QIBM/UserData/qwebqry/ibi/srv77/wfs/etc/odin.cfg file by modifying the JSCOM3 Listener block to include an additional argument on the JVM_OPTIONS parameter, as follows:

```
;JSCOM3 Listener
NODE = JSS
BEGIN
  PROTOCOL = TCP
  CLASS = JAVASERVER
  PORT = 12335
  AWT_HEADLESS = Y
  JVM_OPTIONS = -Djava.version=1.6|-Duser.language=en
  JVM_MAX_HEAP = 512
  IBI_CLASSPATH = /home/sqljdbc40/sqljdbc.jar:/home/sqljdbc20/sqljdbc.jar
END
```

Data Management Console

Important: The renaming of Application Directories in the Data Management Console is not recommended as it may result in execution failures with the contents of the Application Directory.

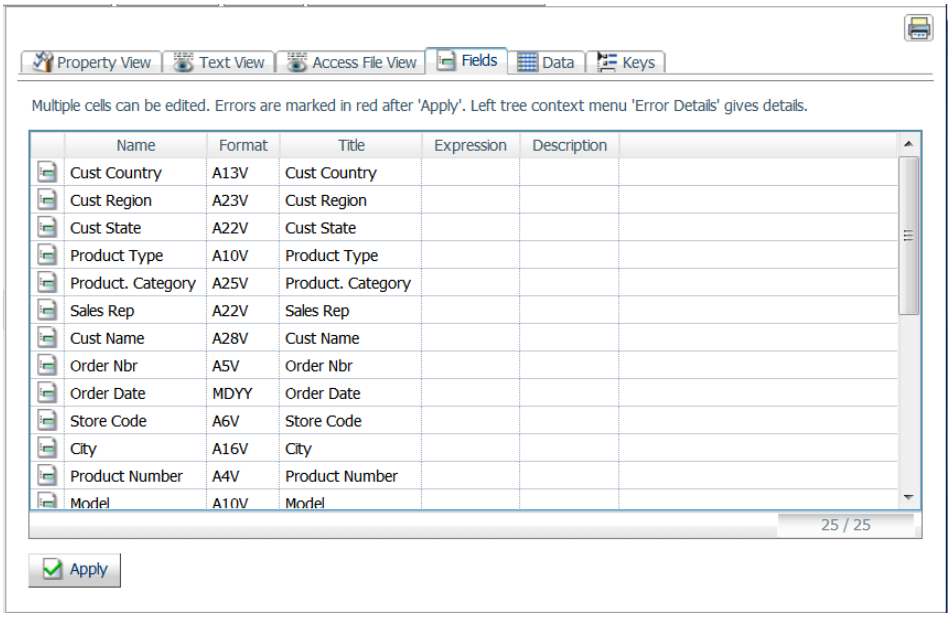
Metadata

This section addresses the known issues for metadata.

- Creating a synonym for a Query/400 file from the right-click folder Metadata Edit option does not generate the associated Web Query procedure in the repository.

  Workaround: Right-click a folder and select the *Metadata New* option to create synonyms for Query/400.

- Editing a synonym using the Fields tab of the Synonym Editor generates a "Failed to load, server may be down, status =404" error upon applying edits. The Synonym Editor tabs are shown in the following image.



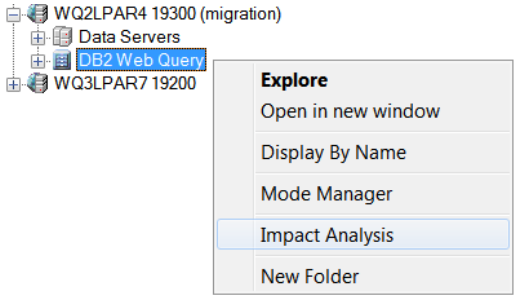
  Workaround: Click the *Property View* tab to make any edits to the synonym.

Documentation

This section addresses updates to the documentation.

- In the Developer Workbench *Analyzing Metadata and Procedures with the Impact Analysis Tool* topic, the documentation indicates that the Impact Analysis tool can be launched from the Synonym Editor or from the user interface. Regarding the latter, launching the Impact Analysis tool from the Data Server node on the Explorer tree will limit the search path to the Reporting Server application directories. The only procedures that can reside in these directories are DataMigrator for i data flows.

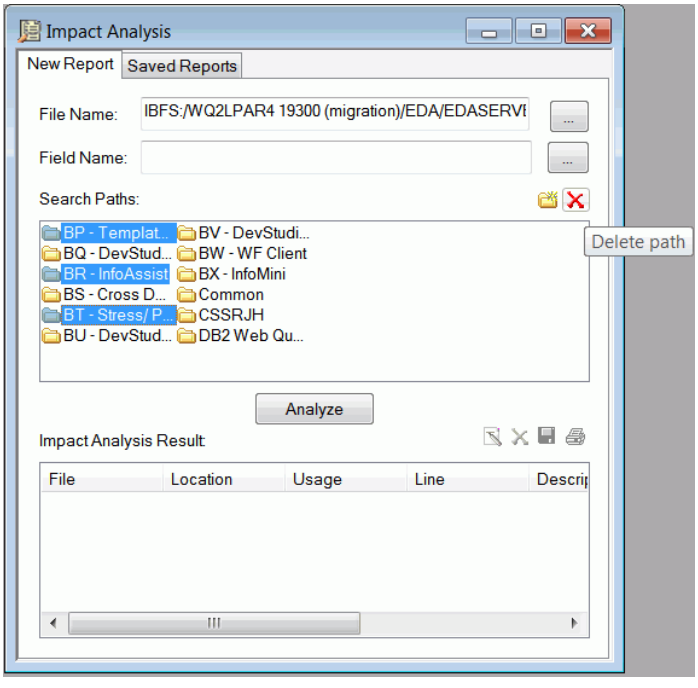
  In order for the Impact Analysis tool to be able to search the DB2 Web Query repository, it is necessary to launch the tool from the DB2 Web Query node, and not the Data Servers node, as shown in the following image.



  The search path is determined by the location where you launch the Impact Analysis tool. Launching the tool from the DB2 Web Query node will search the entire repository for procedures that are impacted. There are two ways to limit the scope of the search:

  1. Launch the Impact Analysis tool from a specific top-level folder in the repository.

2. While in the Impact Analysis tool, use the Search Paths filter to delete any top level folders that are not required, as shown in the following image.



Note: Using the Impact Analysis tool from the DB2 Web Query repository node requires a user ID that belongs to the WebQueryAdministrator group.

Web Browser Support

The following table provides browser support information for Web Query product components for Web Query Version 2.1.1 HF3.

Supported Supported with minor issues Under evaluation

 Not evaluated Not supported

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
Reporting						
Active Reports						
HTML Composer pages	Standards mode	Standards mode	Standards mode			
InfoAssist						
HTML Reporting Features						
HTML format *(No JavaScript)*						
JavaScript components ❑ Accordion ❑ HFREEZE ❑ On-demand Paging	Standards Mode Compatibility View	Standards Mode Compatibility View				
❑ Multi-drill						

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
❑ Table of Contents (BYTOC)	✓	✓	✓	✓	✓	✓
Graph Requests (See Graph request notes below for additional information)						
Server-generated graphs	✓	✓	✓	✓	✓	✓
Browser-generated (HTML5)	✓	✓	✓	✓	–	✓
Browser-generated (AHTML)	✓	✓	✓	✓	✓	✓
Browser-generated (AFLEX, APDF)	✓	✓	✓	✓	✓	✓
Web Interfaces						
Amper Auto-prompting	✓	✓	✓	✓	✓	✓
BI Portal	✓	✓	✓	✓	✓	✓
OLAP	◔	◔	◔	◔	◔	◔
Report Broker	✓	✓	✓	✓	✓	✓
Desktop Tools						

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
Developer Workbench *(Requires Internet Explorer)*	✓	✓	✓	✗	✗	✗
Administration Tools						
Security Center	✓	✓	✓	✓	✓	✓
Web Query Administration Console	✓	✓	✓	✓	✓	✓

Note:

- By default, the 2.1 HF4 and higher releases of Developer Workbench display output in the Desktop Viewer, and can be configured to use the Output Viewer Options tab from the Developer Workbench Options dialog box. You can run applications in Internet Explorer. When an HTML page is displayed in the Desktop Viewer, the document mode specified within the page source is applied. When a document mode is not specified within the HTML page source, the HTML page is displayed in Internet Explorer 7 Standards mode.
- Release 2.1 HF3 and earlier Developer Workbench requires Microsoft Internet Explorer, and will always use the Internet Explorer browser, even when Internet Explorer is not configured as the default browser.
- Simple HTML Web Query reports can be viewed on any browser.
- Support for presenting images and graphs in HTML, DHTML, and DHTML compound reports is provided using an image embedding facility based on the client browser. Output generated by Internet Explorer browsers or in scenarios where the browser is unknown (such as distributed by Report Broker) supports image inclusion through the creation of a web archive file (.mht). For all other browsers, images are 64-bit encoded within the generated .htm file.
- Graph request notes:
  - Server-generated graphs refer to traditional graph requests that are generated on the Reporting Server, and then embedded as a bitmap or vector image in a document or webpage. This includes the following output formats:
    - Bitmap: PNG, JPG
    - Vector: PDF (but not active PDF), SVG
  - Browser-generated graphs refer to graphs that are rendered inside the browser. This is done using JavaScript in HTML5 compatible browsers and by Flash in older versions of Internet Explorer that are either not HTML5 compatible or are being run in a mode that is not HTML5 compatible. Browser-generated graphs are utilized in both standard HTML5 output (FORMAT JSCHART) and in Active Technologies (FORMAT AHTML and FORMAT AFLEX, APDF).

  Note: Applet-based charts (Java Graph engine running client-side) have been deprecated in Web Query Version 2.1 and are no longer tracked in this matrix.

- Mac Users: Firefox browser is supported on the Macintosh operating system. Firefox browser functionality is consistent with the Safari web browser.
- Adobe Reader support:
  - Adobe XI is certified.
  - Adobe X is certified.
  - Adobe Acrobat Reader Version 9 is supported.
- Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the configuration information for the specific browser on how to change the Application Options settings for the relevant content types so that the browser will automatically use the Adobe Reader.

Mobile Browser Support

Web Query was tested on the following devices:

- iOS 7 tablet
- iOS 8 tablet
- iOS 6 touch and phone
- Android 4.4 tablet and phone

The following table provides mobile browser support information for Web Query product components for Web Query Version 2.1.1 HF3.

Supported Supported with minor issues Under evaluation

 Not evaluated Not supported

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Reporting				
Active Reports				

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
HTML Composer pages	✓	✓	–	–
PDF	✓	–	✗ (Requires third-party apps)	✗
Excel	✓	–	✗ (Requires third-party apps)	✗
HTML Reporting Features				
HTML format *(No JavaScript)*	✓	–	✓	–
JavaScript components ❑ Accordion ❑ HFREEZE ❑ On-demand Paging	✓	–	✓	–
❑ Multi-drill	✓	–	–	–
❑ Table of Contents (BYTOC)	✓	–	–	–
Graph Requests				
Server-generated graphs	✓	✓	✓	✓
Browser-generated (HTML5)	✓	✓	✓	✓
Browser-generated (AHTML)	✓	✓	✓	✓

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Interfaces				
Amper Auto-prompting		–		–

Note:

- Web Query developer tools (InfoAssist) are not supported for mobile.

Chapter 4

November 2015 - Hotfix 2

This documentation describes the new features available in the November 2015 - Hotfix 2 release.

This document is intended for all levels of users, including application developers, administrators, and end users. It is also intended to serve as a quick reference for users upgrading from a prior version.

In this chapter:

- Report Broker Formats for Scheduled Output
- Inserting an SQL Expression Into a Request
- Known Issues
- Web Browser Support
- Mobile Browser Support

Report Broker Formats for Scheduled Output

When you create a schedule, you specify the format for the scheduled output.

ALPHA

Format: ALPHA (.ftm, .txt)

Description: Saves scheduled output as fixed-format character data.

Suggested Uses: For display in a text document, for further reporting in Web Query, and as a transaction file for modifying a data source.

Considerations:

- When created as a HOLD file, a corresponding Master File is created.
- Bursting is supported.

COM

Format: Com (.cvs)

Description: Saves scheduled output as a variable-length text file in comma-delimited format with character values enclosed in double quotation marks (" "). Blanks within fields are not retained.

This format is required by certain software packages, such as Microsoft Access.

Suggested Uses: For further processing in a database application. This format type can be imported into applications, such as Excel or Lotus.

Considerations:

- This format type does not create a Master File.
- Bursting is supported.
- Smart date fields and dates formatted as I or P fields with date format options are treated as numeric and are not enclosed in double quotation marks (" ") in the output file. Dates formatted as alphanumeric fields with date format options are treated as alphanumeric and enclosed in double quotation marks (" ").
- Continental decimal notation (CDN=ON|SPACE|QUOTE) is not supported. A comma within a number is interpreted as two separate columns by a destination application, such as Microsoft Access.

COMMA

Format: COMMA (.csv)

Description: Saves scheduled output as a variable-length text file in comma-delimited format with character values enclosed in double quotation marks (" "). All blanks within fields are retained.

This format is required by certain software packages, such as Microsoft Access.

Suggested Uses: For further processing in a database application. This format type can be imported into applications, such as Excel or Lotus.

Considerations:

- This format type does not create a Master File.
- Bursting is supported.
- You can open COMMA reports in Lotus 1-2-3 by right-clicking the report and saving it as a COMMA file.

- Smart date fields and dates formatted as I or P fields with date format options are treated as numeric and are not enclosed in double quotation marks (" ") in the output file. Dates formatted as alphanumeric fields with date format options are treated as alphanumeric and enclosed in double quotation marks (" ").
- Continental decimal notation (CDN=ON|SPACE|QUOTE) is not supported. A comma within a number is interpreted as two separate columns by a destination application, such as Microsoft Access.

COMT

Format: COMT (.csv)

Description: Adds titles to a COMMA file. Saves scheduled output as a variable-length text file in comma-delimited format with character values enclosed in double quotation marks (" "). All blanks within fields are retained.

This format is required by certain software packages, such as Microsoft Access.

Suggested Uses: For further processing in a database application. This format type can be imported into applications, such as Excel or Lotus.

Considerations:

- This format type does not create a Master File.
- Bursting is supported.
- Smart date fields and dates formatted as I or P fields with date format options are treated as numeric and are not enclosed in double quotation marks (" ") in the output file. Dates formatted as alphanumeric fields with date format options are treated as alphanumeric and enclosed in double quotation marks (" ").
- Continental decimal notation (CDN=ON|SPACE|QUOTE) is not supported. A comma within a number is interpreted as two separate columns by a destination application, such as Microsoft Access.

DFIX

Format: DFIX (.ftm, .txt)

Description: Enables you to define any character to act as the delimiter (DELIMITER = your choice of character), include quotation marks around alpha fields (ENCLOSURE = “), and include column titles (HEADER = YES/NO).

The following is an example of a PCHOLD statement that specifies the pipe character (|) as the delimiter, adds quotation marks around alpha fields, and does not include column titles or headings.

```
ON TABLE PCHOLD AS OUT1 FORMAT DFIX DELIMITER | ENCLOSURE " HEADER NO
```

Suggested Uses: Use in files that require custom (non-standard) delimiters.

Considerations:

- Missing data is indicated by showing no data. If you specified an enclosure, then missing alpha fields are indicated by "". Missing numeric fields are indicated by two delimiters.
- Bursting is supported.

EXL07

Format: EXL07 (.xlsx)

Description: Scheduled output opens within Excel 2007 or 2010.

Supports most StyleSheet attributes, allowing for full report formatting.

Suggested Uses: Email

Considerations:

- Bursting is supported, except compound reports.

EXL2K PIVOT

Format: EXL2K PIVOT (.xls)

Description: Scheduled output opens within Excel 2000 or higher.

Used to analyze complex data much like the OLAP tool in Web Query. It enables you to drag data fields within a PivotTable, providing different views of the data, such as sorting across rows or columns.

Suggested Uses: Email

Considerations:

- Microsoft Excel 2000 or higher must be installed.
- The format is ASCII.
- All EXL2K output with an .xht extension is dynamically changed to .xls for email or FTP distribution. You must edit your web server MIME table so that the .xls extension is ASCII application data, instead of binary.

- Cannot be used to schedule a compound report.
- Bursting is not supported.

PPTX

Format: PPTX (.pptx)

Description: Scheduled output opens within Excel 2007 or 2010.

Suggested Uses: Email

Considerations:

- Bursting is not supported.
- PPTX can output as a single report and can also include as many graphs as desired embedded in the style sheet of the report (TABLE). In addition, a single PPT report can be placed inside an existing PPT Template.

TAB and TABT

Format: TAB (.tab, .tsv, .txt)

Description: Scheduled output opens in tab-delimited format. For TABT, the format includes column headings in the first row.

This format is required by certain software packages, such as Microsoft Access.

Suggested Uses: Email

Considerations: Bursting is supported.

XML

Format: XML (.xml)

Description: Scheduled output opens in XML format, a markup language that is derived from the Standard Generalized Markup Language (SGML).

Suggested Uses: Describing and exchanging data for applications on different systems.

Considerations: Bursting is not supported.

Inserting an SQL Expression Into a Request

The DB_EXPR function inserts a native SQL expression exactly as entered into the native SQL generated for a Web Query or SQL language request.

The DB_EXPR function can be used in a DEFINE command, a DEFINE in a Master File, a WHERE clause, a FILTER FILE command, a filter in a Master File, or in an SQL statement. It can be used in a COMPUTE command if the request is an aggregate request (uses the SUM, WRITE, or ADD command) and has a single display command. The expression must return a single value.

Syntax: **How to Insert an SQL Expression Into a Request With DB_EXPR**

DB_EXPR(*native_SQL_expression*)

where:

native_SQL_expression

Is a partial native SQL string that is valid for inserting into the SQL generated by the request. The SQL string must have double quotation marks (") around each field reference, unless the function is used in a DEFINE with a WITH phrase.

Reference: **Usage Notes for the DB_EXPR Function**

- The expression must return a single value.
- Any request that includes one or more DB_EXPR functions must be for a synonym that has a relational SUFFIX.
- Field references in the native SQL expression must be within the current synonym context.
- The native SQL expression must be coded inline. SQL read from a file is not supported.

Example: **Inserting the DB2 BIGINT and CHAR Functions Into a TABLE Request**

DB_EXPR in the following COMPUTE command calls two DB2 functions. It calls the BIGINT function to convert the squared revenue to a BIGINT data type, and then uses the CHAR function to convert that value to alphanumeric.

```
COMPUTE BIGREV/A31 = DB_EXPR(CHAR(BIGINT("REVENUE" * "REVENUE") ) ) ; AS
'Alpha Square Revenue'
```

Known Issues

The following are known issues and will be addressed in a future version of DB2 Web Query.

Business Intelligence Portal

This section addresses the known issues for BI Portal.

Upload Data and Upload Wizard

- NLS characters are not supported in the following places when using the Upload Data and Upload Wizard:
  - Excel Worksheet name.
  - Folder name from where the Upload Wizard is being launched.

  Workaround: Use invariant (A-Z and 0-9) characters. Support for NLS characters will be added in a future Hotfix.
- The Upload Wizard fails to upload data. This happens when DB2 Web Query DataMigrator is installed and the user running the Upload Wizard is not licensed to use DataMigrator, that is, a user who is not a member of the DevWorkBench group. This requirement will be removed in a future Hotfix.

  Workaround: If a license is available, add the user to the DevWorkBench group using the Secuity Center. Otherwise, launch the Upload Wizard from a user who is licensed to use DataMigrator, that is, a user who is a member of the DevWorkBench group.
- Run-Time Enablement (RTE) may cause the Upload Wizard to fail. This will happen if the user's current library (CURLIB) is not defined in the user's active RTE environment. The Upload Wizard writes out a temporary file during the upload process.

  Workaround: It is recommended to add both QGPL and the user's CURLIB (if different from the default, QGPL) to the user's active RTE environment using the WRKWQRTE command.

Metadata Wizard

- The Adapters for Query/400, DB Heritage, and JD Edwards should not be used during the Import Metadata step as these are multi-step Create Synonym processes, which are not yet supported by the Metadata Wizard.

  Workaround: Use the Metadata New option to create synonyms for these Adapter types.

InfoAssist

This section addresses the known issues for InfoAssist.

- Some navigation and arrow keys (for example, Delete, Home, and End) do not work in the following areas of the application:
  - Text input box for Prompts (Delete key).
  - Join Description of the Edit Join dialog box (arrow keys).

  Workaround: Use the mouse and Backspace key.

  Note: This applies to Firefox versions 27.0.01 and higher.

JD Edwards Adapters

This section addresses the known issues for the JD Edwards Adapters.

To use the Alternate Language option in the Adapter for JD Edwards EnterpriseOne and the Adapter for JD Edwards World:

1. Configure the adapter with *UDC Direct File Access* unchecked.
2. Run the *Refresh Metadata* with *Alternate Language File* unchecked.

   This step will create the udcdicdb table.
3. Run the *Refresh Metadata* with *Alternate Language File* checked and enter the default language code.

   This step will create the altdicdb table.
4. Create all the synonyms needed.

Note: Steps 2 and 3 need to be run, as needed, whenever UDC descriptions are updated.

Report Broker

This section addresses the known issues for Report Broker.

- Migration of Public Distribution Lists will generate the following error:

```
ERROR IBFSService                        - setShares -
opShareBasic/opShareAdvanced to this resource denied - user:qwqadmin
res:/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr
[2014-03-11 00:00:00,605] ERROR IBFSAddrBookConverter          - Failed
 to share
'/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr'
with IBFS:/SSYS/GROUPS/EVERYONE
```

The distribution list will be migrated as a private object. To make this published:

1. Move the distribution list to a published folder.
2. Right-click on the distribution list and select the *Publish* option.

- Schedules may not run when using custom date intervals.

  Workaround: Use a different recurring interval, such as monthly or weekly. This will be fixed in a future Hotfix.

Spreadsheet Client

This section addresses the known issues for Spreadsheet Client.

DB2 Web Query InfoAssist, when opened from Spreadsheet Client, does not support the following:

- Excel Pivot output type
- Table of Contents format option

Both of these options will be disabled from Spreadsheet Client InfoAssist in a future release of DB2 Web Query.

National Language Support

This section addresses the known issues for National Language Support (NLS). This section only applies to Turkish and can be ignored otherwise.

In Turkish, running an active Flash or active PDF report in InfoAssist or from BI Portal generates a FOC3357 error.

Workaround: Edit the /QIBM/UserData/qwebqry/base80/client/wfc/etc/nlscfg.err file and add the following line to the end of the file:

```
ENCODING = Cp1026
```

Also, edit the /QIBM/UserData/qwebqry/ibi/srv77/wfs/etc/odin.cfg file by modifying the JSCOM3 Listener block to include an additional argument on the JVM_OPTIONS parameter, as follows:

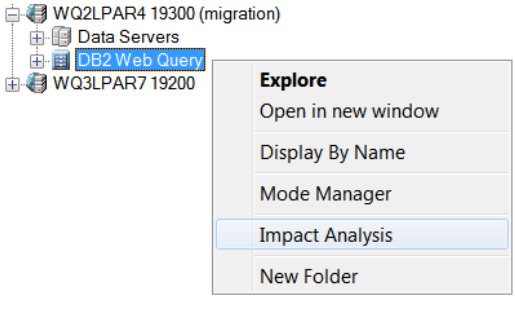
```
;JSCOM3 Listener
NODE = JSS
BEGIN
  PROTOCOL = TCP
  CLASS = JAVASERVER
  PORT = 12335
  AWT_HEADLESS = Y
  JVM_OPTIONS = -Djava.version=1.6|-Duser.language=en
  JVM_MAX_HEAP = 512
  IBI_CLASSPATH = /home/sqljdbc40/sqljdbc.jar:/home/sqljdbc20/sqljdbc.jar
END
```

Documentation

This section addresses updates to the documentation.

- In the Developer Workbench *Analyzing Metadata and Procedures with the Impact Analysis Tool* topic, the documentation indicates that the Impact Analysis tool can be launched from the Synonym Editor or from the user interface. Regarding the latter, launching the Impact Analysis tool from the Data Server node on the Explorer tree will limit the search path to the Reporting Server application directories. The only procedures that can reside in these directories are DataMigrator for i data flows.

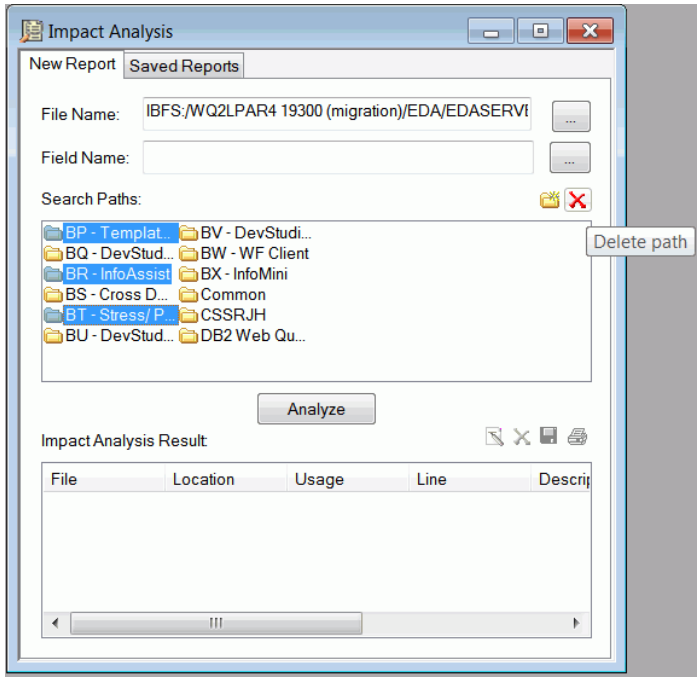
  In order for the Impact Analysis tool to be able to search the DB2 Web Query repository, it is necessary to launch the tool from the DB2 Web Query node, and not the Data Servers node, as shown in the following image.



  The search path is determined by the location where you launch the Impact Analysis tool. Launching the tool from the DB2 Web Query node will search the entire repository for procedures that are impacted. There are two ways to limit the scope of the search:

  1. Launch the Impact Analysis tool from a specific top-level folder in the repository.

2. While in the Impact Analysis tool, use the Search Paths filter to delete any top level folders that are not required, as shown in the following image.



Note: Using the Impact Analysis tool from the DB2 Web Query repository node requires a user ID that belongs to the WebQueryAdministrator group.

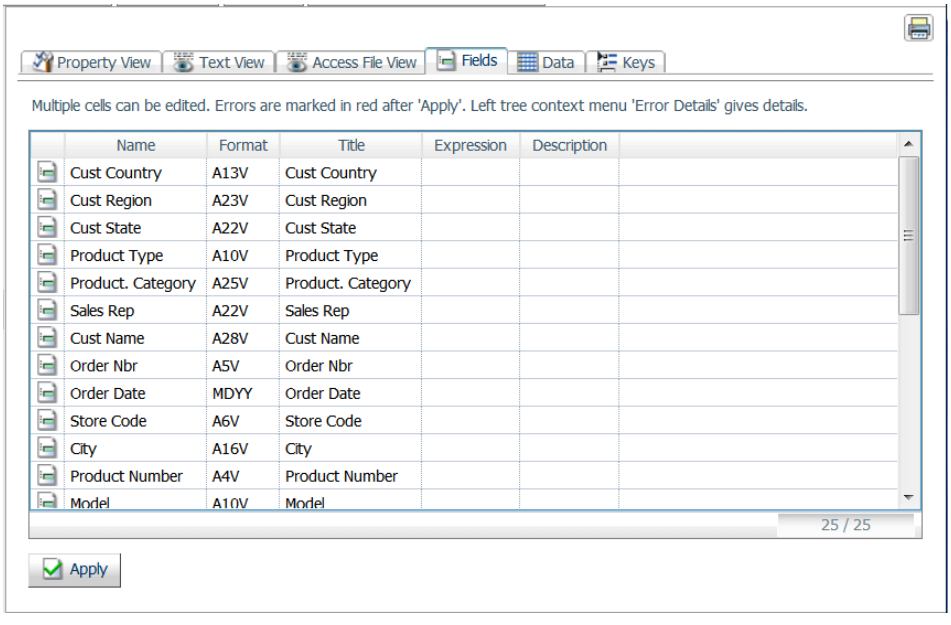
Metadata

This section addresses the known issues for metadata.

- Creating a synonym for a Query/400 file from the right-click folder Metadata Edit option does not generate the associated Web Query procedure in the repository.

  Workaround: Right-click a folder and select the *Metadata New* option to create synonyms for Query/400.

- Editing a synonym using the Fields tab of the Synonym Editor generates a "Failed to load, server may be down, status =404" error upon applying edits. The Synonym Editor tabs are shown in the following image.



  Workaround: Click the *Property View* tab to make any edits to the synonym.

Web Browser Support

The following table provides browser support information for Web Query product components for Web Query Version 2.1.1 HF2.

Supported Supported with minor issues Under evaluation

 Not evaluated Not supported

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
Reporting						
Active Reports						
HTML Composer pages	Standards mode	Standards mode	Standards mode			
InfoAssist						
HTML Reporting Features						
HTML format *(No JavaScript)*						
JavaScript components ❑ Accordion ❑ HFREEZE ❑ On-demand Paging	Standards Mode Compatibility View	Standards Mode Compatibility View				
❑ Multi-drill						

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
❑ Table of Contents (BYTOC)	✓	✓	✓	✓	✓	✓
Graph Requests (See Graph request notes below for additional information)						
Server-generated graphs	✓	✓	✓	✓	✓	✓
Browser-generated (HTML5)	✓	✓	✓	✓	–	✓
Browser-generated (AHTML)	✓	✓	✓	✓	✓	✓
Browser-generated (AFLEX, APDF)	✓	✓	✓	✓	✓	✓
Web Interfaces						
Amper Auto-prompting	✓	✓	✓	✓	✓	✓
BI Portal	✓	✓	✓	✓	✓	✓
OLAP	◔	◔	◔	◔	◔	◔
Report Broker	✓	✓	✓	✓	✓	✓
Desktop Tools						

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
Developer Workbench *(Requires Internet Explorer)*	✓	✓	✓	✗	✗	✗
Administration Tools						
Security Center	✓	✓	✓	✓	✓	✓
Web Query Administration Console	✓	✓	✓	✓	✓	✓

Note:

- By default, the 2.1 HF4 and higher releases of Developer Workbench display output in the Desktop Viewer, and can be configured to use the Output Viewer Options tab from the Developer Workbench Options dialog box. You can run applications in Internet Explorer. When an HTML page is displayed in the Desktop Viewer, the document mode specified within the page source is applied. When a document mode is not specified within the HTML page source, the HTML page is displayed in Internet Explorer 7 Standards mode.
- Release 2.1 HF3 and earlier Developer Workbench requires Microsoft Internet Explorer, and will always use the Internet Explorer browser, even when Internet Explorer is not configured as the default browser.
- Simple HTML Web Query reports can be viewed on any browser.
- Support for presenting images and graphs in HTML, DHTML, and DHTML compound reports is provided using an image embedding facility based on the client browser. Output generated by Internet Explorer browsers or in scenarios where the browser is unknown (such as distributed by Report Broker) supports image inclusion through the creation of a web archive file (.mht). For all other browsers, images are 64-bit encoded within the generated .htm file.
- Graph request notes:
  - Server-generated graphs refer to traditional graph requests that are generated on the Reporting Server, and then embedded as a bitmap or vector image in a document or webpage. This includes the following output formats:
    - Bitmap: PNG, JPG
    - Vector: PDF (but not active PDF), SVG
  - Browser-generated graphs refer to graphs that are rendered inside the browser. This is done using JavaScript in HTML5 compatible browsers and by Flash in older versions of Internet Explorer that are either not HTML5 compatible or are being run in a mode that is not HTML5 compatible. Browser-generated graphs are utilized in both standard HTML5 output (FORMAT JSCHART) and in Active Technologies (FORMAT AHTML and FORMAT AFLEX, APDF).

  Note: Applet-based charts (Java Graph engine running client-side) have been deprecated in Web Query Version 2.1 and are no longer tracked in this matrix.

- Mac Users: Firefox browser is supported on the Macintosh operating system. Firefox browser functionality is consistent with the Safari web browser.
- Adobe Reader support:
  - Adobe XI is certified.
  - Adobe X is certified.
  - Adobe Acrobat Reader Version 9 is supported.
- Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the configuration information for the specific browser on how to change the Application Options settings for the relevant content types so that the browser will automatically use the Adobe Reader.

Mobile Browser Support

Web Query was tested on the following devices:

- iOS 7 tablet
- iOS 8 tablet
- iOS 6 touch and phone
- Android 4.4 tablet and phone

The following table provides mobile browser support information for Web Query product components for Web Query Version 2.1. HF2.

Supported Supported with minor issues Under evaluation

 Not evaluated Not supported

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Reporting				
Active Reports				

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
HTML Composer pages	✓	✓	–	–
PDF	◐	◐	✗ (Requires third-party apps)	✗
Excel	◐	◐	✗ (Requires third-party apps)	✗
HTML Reporting Features				
HTML format *(No JavaScript)*	✓	◐	◐	◐
JavaScript components ❑ Accordion ❑ HFREEZE ❑ On-demand Paging	◐	◐	◐	◐
❑ Multi-drill	✓	◐	◐	◐
❑ Table of Contents (BYTOC)	✓	◐	◐	◐
Graph Requests				
Server-generated graphs	✓	✓	✓	✓
Browser-generated (HTML5)	✓	◐	◐	◐

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Browser-generated (AHTML)				
Interfaces				
Amper Auto-prompting				

Note:

- Web Query developer tools (InfoAssist) are not supported for mobile.

Chapter 5

July 2015 - Hotfix 1

This documentation describes the new features available in the July 2015 - 2.1.1 Hotfix 1 release.

This document is intended for all levels of users, including application developers, administrators, and end users. It is also intended to serve as a quick reference for users upgrading from a prior version.

In this chapter:

- New Developer Workbench File Naming Convention
- InfoAssist Lightweight Mapping Customizations
- Migrate Web Query (MIGWEBQRY) Command
- SQL Optimization Report
- Report Broker Dynamic Distribution List
- Express Analytics Statistics Report
- REST-Based Application Extension (WQRAX)
- Known Issues
- Web Browser Support
- Mobile Browser Support

New Developer Workbench File Naming Convention

The Developer Workbench Package for DB2 Web Query 2.1.1 will have a different naming convention than DB2 Web Query 2.1.0. The archived package files will not have a Hotfix number in the file names, but the resulting extracted executable will have the hotfix number. For example, the archive files in /QIBM/ProdData/QWEBQRY /DeveloperWorkbench will always have a name of WQDevWork211.sfx.part1.exe and WQDevWork211.sfx.part2.rar and the extracted executable will have a name of WQDevWork211_HF01.exe, which in this case corresponds to DB2 Web Query 2.1.1 group PTF level 1. This is to prevent the duplication of Developer Workbench package files on the IBM i.

InfoAssist Lightweight Mapping Customizations

The customization files for the Lightweight Mapping feature, CustomUIMaps.xml and any GeoJSON files, were lost if a new version of DB2 Web Query was applied. This was because the files were previously required to reside in the following directory, which is overlaid for each Hotfix:

```
/QIBM/ProdData/QWEBQRY/base80/config/web_resource/map
```

This will no longer happen, as the following user data directory can now contain the customization files:

```
/QIBM/UserData/qwebqry/base80/config/web_resource/map
```

Copy or create all customization files to this directory to prevent customizations from being lost.

Migrate Web Query (MIGWEBQRY) Command

The MIGWEBQRY CL command can be used to migrate Web Query from 5733-QU2 version 1.1.1 or 1.1.2 to 5733-WQX version 2.1. It can also be used to migrate from one version 2.1 system to another. For example, if you are upgrading to new hardware, setting up a disaster recovery (DR) machine, or updating a production partition from a test partition. The tool will first clear the Web Query repository on the target system, ensuring a fresh start, and then will migrate reports, metadata, distribution lists, schedules, and user licenses. For more information, see the MIGWEBQRY user manual by clicking the *Installation* link at *http://ibm.co/db2wqinstallation*.

SQL Optimization Report

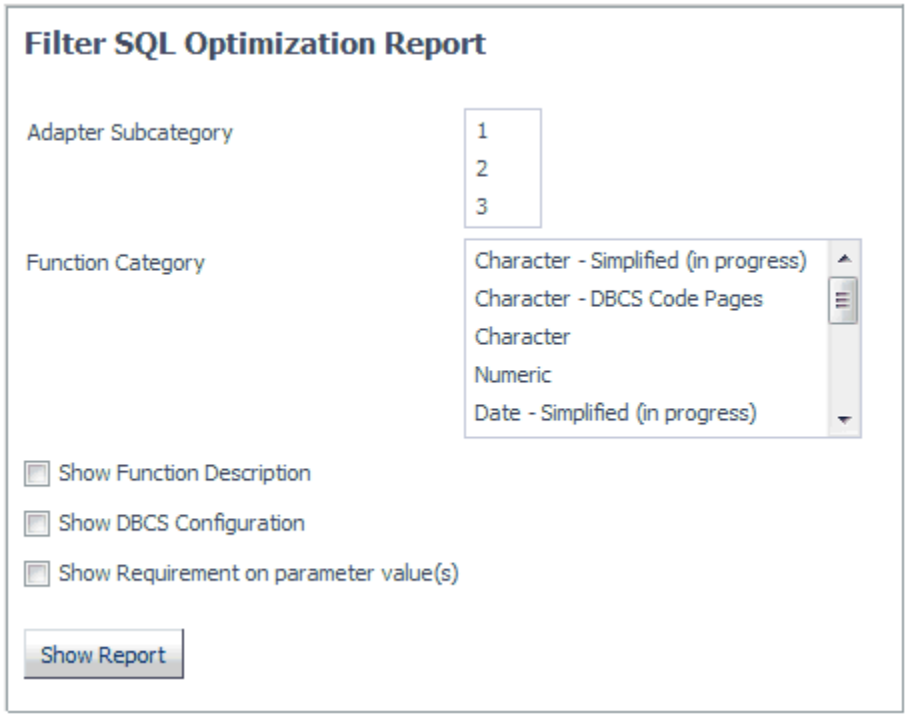
You can determine which functions are optimized to their SQL counterparts by adapter in the SQL Optimization Report available from the Web Console or Data Management Console.

The following procedure describes how to display the SQL Optimization Report.

Procedure: How to Display the SQL Optimization Report

1. From the Web Console or Data Management Console, select *Adapters*.
2. From the Information section of the ribbon, click the *SQL Optimization Report* button.

The Filter SQL Optimization Report page opens, as shown in the following image.



3. Optionally, select an *Adapter Subcategory* from the corresponding list box.
4. Optionally, select a *Function Category* from the corresponding list box.
5. Optionally, select the *Show Function Description*, *Show DBCS Configuration*, or *Show Requirement on parameter value(s)* check boxes.
6. Click *Show Report*.

The SQL Optimization Report shows the available functions for the specific relational database managment systems.

Note: Some relational database systems on the report may not be available on your system.

Report Broker Dynamic Distribution List

A Dynamic Distribution List enables you to return in memory, to Report Broker, either a list of burst values and destinations, or only a list of destinations from a data source (for example, a flat file or SQL database). You must use a DB2 Web Query procedure that resides in an accessible application directory on the Reporting Server to return the list.

Two procedures, dynburst.fex and dynlist.fex, are provided for this purpose in the baseapp application directory. The difference between the procedures is that one procedure supports burst output and the other procedure does not. The procedures are accessible by all users and can be used for any schedule.

When a schedule runs, the dynburst or dynlist procedure invokes an SQL stored procedure (that you specify as an input parameter) to access your distribution data and return the information. The Web Query procedure then passes the information to Report Broker in a layout that it expects. The format and order of the data is important so that Report Broker can identify and process the information returned.

Web Query Procedures

When BURSTING is required, use dynburst.fex, where &SQLPROC is the name of a stored procedure you created to return the correct values.

The column names and the order in which they are returned must be:

- VALUE for burst values. This is a character field with length 30.
- DEST for email addresses. This is a character field with length 50.

dynburst.fex

```
SQL DB2 EX &sqlproc;
TABLE FILE SQLOUT
PRINT VALUE DEST
ON TABLE PCHOLD
END
```

where:

sqlproc

Is the SQL stored procedure retrieving burst values and destination email addresses. This SQL stored procedure must be created in a library that is accessible from DB2 Web Query.

When BURSTING is not required, use dynlist.fex, where &SQLPROC is the name of a stored procedure you created to return the correct destinations.

In this case, the VALUE column should not be provided, since it is not used.

dynburst.fex

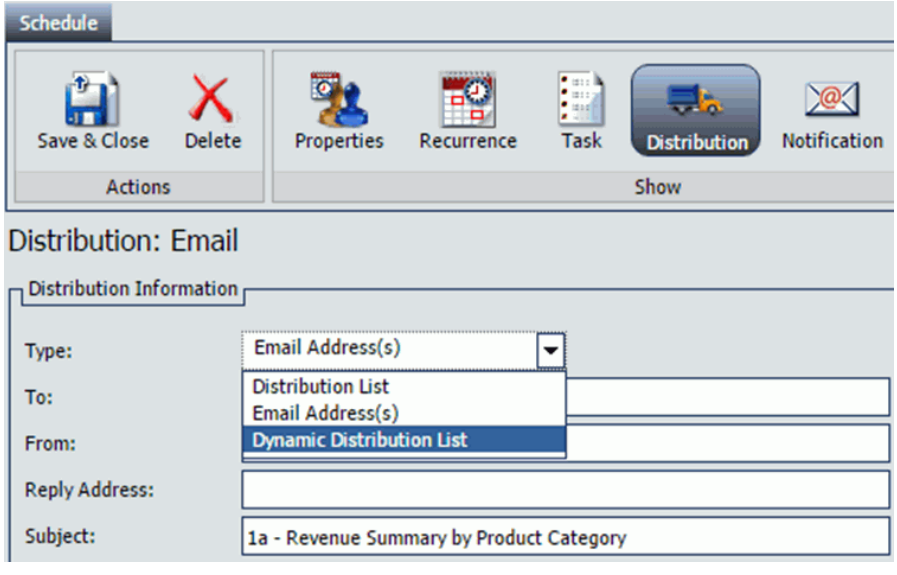
```
SQL DB2 EX &sqlproc;
TABLE FILE SQLOUT
PRINT DEST
ON TABLE PCHOLD
END
```

where:

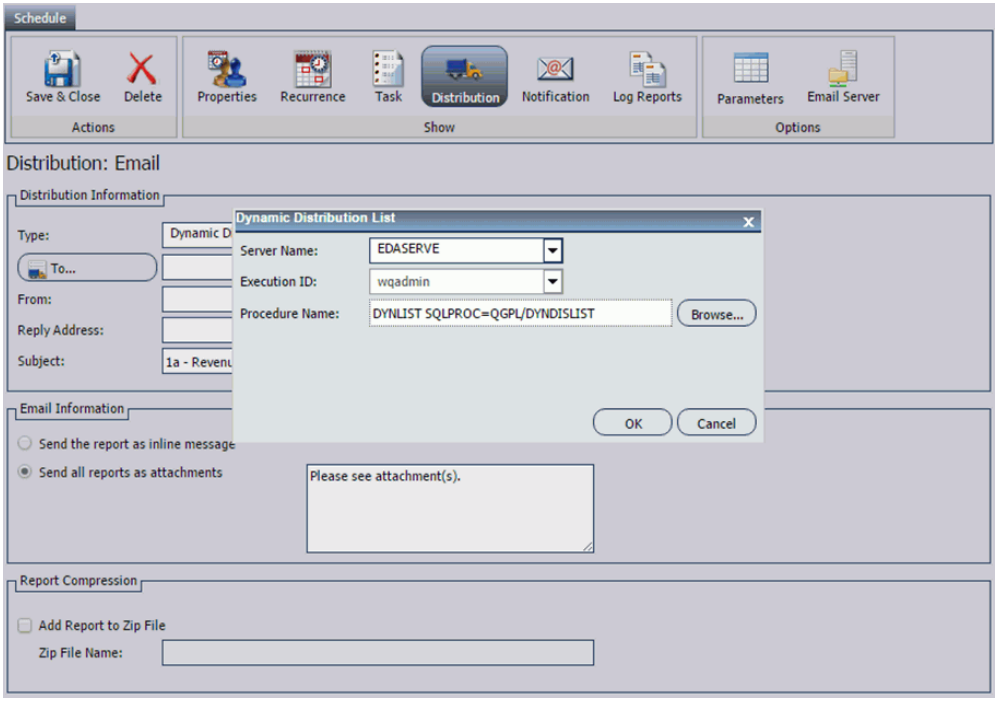
sqlproc

Is the SQL stored procedure retrieving destination email address values. This SQL stored procedure must be created in a library that is accessible from DB2 Web Query.

Once the SQL stored procedure has been created, the Report Broker Scheduling tool is used to specify a Dynamic Distribution List. Click the *Distribution* icon, then select *Dynamic Distribution List* from the Type drop-down list, as shown in the following image.



When Dynamic Distribution List is selected, the To field is enabled to facilitate the selection of the Procedure Name. Once a procedure is selected, you can pass a parameter on the command line of the procedure. In the following image, the dynlist procedure is selected and an example SQL stored procedure named QGPL/DYNDISLIST is passed as an input parameter to the Web Query procedure.



In the Dynamic Distribution List dialog box, there are several fields:

- Server Name is the DB2 Web Query Reporting Server name. This is always EDASERVE.
- Execution ID is the owner of the schedule.
- Procedure name is the DB2 Web Query procedure used to retrieve burst values and destination email address values. There are two sample DB2 Web Query procedures residing in the baseapp application directory: DYNLIST or DYNBURST. Both have been designed to accept a parameter called SQLPROC, which identifies the SQL stored procedure used to retrieve burst values and destination email address values from a DB2 file.

  In this example, SQLPROC=QGPL/DYNDISLIST.

Example: **Data Source for Burst Values and Destinations**

The following is example SQL code to set up a simple DB2 table named QGPL.DYNAMIC_DIST_LIST with burst values and email addresses.

```
SET SCHEMA QGPL;

DROP TABLE QGPL.DYNAMIC_DIST_LIST;

CREATE TABLE QGPL.DYNAMIC_DIST_LIST
  (VALUE CHAR(30) DEFAULT ' ' , DEST CHAR(50) NOT NULL);

INSERT INTO QGPL.DYNAMIC_DIST_LIST
VALUES('burst_value1', 'your_recipient1@emailAddress.com'),
      (' ', 'your_recipient2@emailAddress.com'),
      ('burst_value3', 'your_recipient3@emailAddress.com');

RENAME QGPL.DYNAMIC_DIST_LIST TO SYSTEM NAME DYNDISLIST;

GRANT ALTER , DELETE , INDEX , INSERT , REFERENCES , SELECT ,
  UPDATE ON DYNAMIC_DIST_LIST TO QWQADMIN WITH GRANT OPTION ;
```

Example: **SQL Stored Procedure**

The following is example source to create an SQL stored procedure named QGPL.GET_DIST_LIST that reads burst values and email addresses from a simple DB2 table and passes them in memory to dynburst.fex. A result set with two (2) columns is returned by the stored procedure. One column, VALUE, is for the burst value with character length 30. A blank ('') is for no burst. The second column, DEST, is for the email address with character length 50.

```
DROP PROCEDURE QGPL.GET_DIST_LIST(  );

CREATE PROCEDURE QGPL.GET_DIST_LIST(  )
RESULT SETS 1
LANGUAGE SQL
SPECIFIC GETDISLIST
P1: BEGIN
    DECLARE C1 CURSOR  WITH RETURN FOR
    SELECT VALUE, DEST FROM QGPL.DYNAMIC_DIST_LIST;
    OPEN C1;
END P1
;
```

(RUN CL Commands)

```
CHGOBJOWN OBJ(QGPL/DYNDISLIST) OBJTYPE(*FILE) NEWOWN(QWQADMIN);
CHGOBJOWN OBJ(QGPL/GETDISLIST) OBJTYPE(*PGM) NEWOWN(QWQADMIN);
```

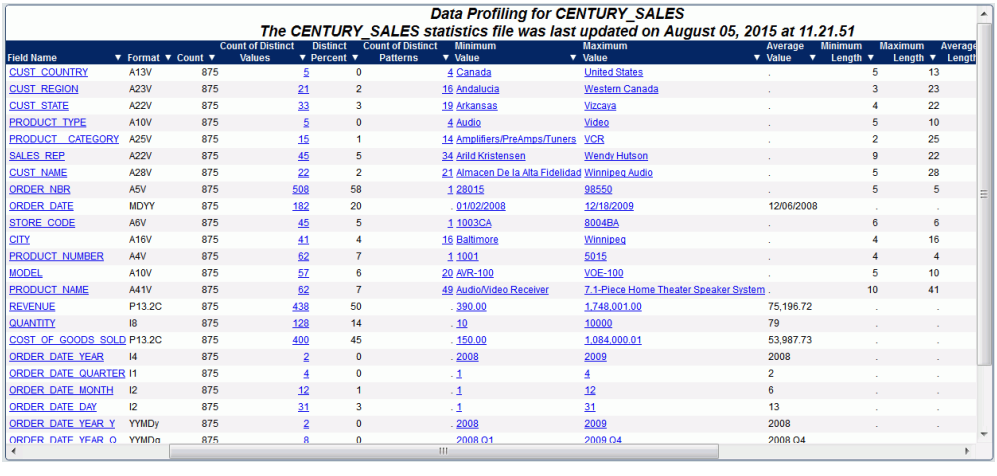
Express Analytics Statistics Report

The Statistics Report is a Data Profiling report that provides data characteristics for the columns in a synonym. The Statistics Report is created by the Upload and Metadata Wizards in a subfolder called Utilities.

Statistics Report Columns

The Statistics report provides the segment, format, count of distinct values, total count, patterns count, average length, and minimum and maximum values for each field in a synonym. In addition, there are drill-down reports that give you further insight into your data. For example, clicking on the *Field Name* column will generate a Distinct Values Report for the respective column.

The following is an example of the Express Analytics Statistics Report generated by the Upload Wizard. The synonym created is CENTURY_SALES and the statistics report is found in a subfolder call Analytics. The Statistics Report is an active report with drill downs and provides insight to the data associated with CENTURY_SALES, as shown in the following image.



Data Profiling for CENTURY_SALES
The CENTURY_SALES statistics file was last updated on August 05, 2015 at 11.21.51

Field Name	Format	Count	Count of Distinct Values	Distinct Percent	Count of Distinct Patterns	Minimum Value	Maximum Value	Average Value	Minimum Length	Maximum Length	Average Length
CUST_COUNTRY	A13V	875	5	0	4	Canada	United States	.	5	13	
CUST_REGION	A23V	875	21	2	16	Andalucia	Western Canada	.	3	23	
CUST_STATE	A22V	875	33	3	19	Arkansas	Vizcaya	.	4	22	
PRODUCT_TYPE	A10V	875	5	0	4	Audio	Video	.	5	10	
PRODUCT_CATEGORY	A25V	875	15	1	14	Amplifiers/PreAmps/Tuners	VCR	.	2	25	
SALES_REP	A22V	875	45	5	34	Arild Kristensen	Wendy Hutson	.	9	22	
CUST_NAME	A28V	875	22	2	21	Almacen De la Alta Fidelidad	Winnipeg Audio	.	5	28	
ORDER_NBR	A5V	875	508	58	1	28015	98550	.	5	5	
ORDER_DATE	MDYY	875	182	20	.	01/02/2008	12/18/2009	12/06/2008	.	.	
STORE_CODE	A6V	875	45	5	1	1003CA	8004BA	.	6	6	
CITY	A16V	875	41	4	16	Baltimore	Winnipeg	.	4	16	
PRODUCT_NUMBER	A4V	875	62	7	1	1001	5015	.	4	4	
MODEL	A10V	875	57	6	20	AVR-100	VOE-100	.	5	10	
PRODUCT_NAME	A41V	875	62	7	49	Audio/Video Receiver	7.1-Piece Home Theater Speaker System	.	10	41	
REVENUE	P13.2C	875	438	50	.	390.00	1,748,001.00	75,196.72	.	.	
QUANTITY	I8	875	128	14	.	10	10000	79	.	.	
COST_OF_GOODS_SOLD	P13.2C	875	400	45	.	150.00	1,084,000.01	53,987.73	.	.	
ORDER_DATE_YEAR	I4	875	2	0	.	2008	2009	2008	.	.	
ORDER_DATE_QUARTER	I1	875	4	0	.	1	4	2	.	.	
ORDER_DATE_MONTH	I2	875	12	1	.	1	12	6	.	.	
ORDER_DATE_DAY	I2	875	31	3	.	1	31	13	.	.	
ORDER_DATE_YEAR_Y	YYMDy	875	2	0	.	2008	2009	2008	.	.	
ORDER_DATE_YEAR_Q	YYMDq	875	8	0	.	2008 Q1	2009 Q4	2008 Q4			

REST-Based Application Extension (WQRAX)

The useSSL parameter in the wqrax.properties of WQRAX is deprecated and ignored. WQRAX is able to determine if SSL is enabled, so the user no longer has to set the value of the useSSL parameter in wqrax.properties.

Another change is in the usage of the WQRAX Short URL. When the user passes the port number to the GENERATEID procedure of the QWEBQRY/QWQGNSHURL service program to generate the short URL, that port number should be 12336, which was 12331. This change is required for any users who implement SSL in their applications, and is optional for other users. If the user enables SSL and does not make this change, the short URL would not be successfully returned.

Refer to the Web Query REST-based Application Extension administration guide for details: *https://www.ibm.com/developerworks/community/wikis/form/anonymous/api/wiki/96f36e44-b59d-40c8-8efb-e3267e86b310/page/8443067b-c120-4f1d-8049-d421b39aac54/attachment/e57ef333-61a2-4a58-9d97-8dd8bdb40d8b/media/Web%20Query%20REST-based%20Application%20Extension%20administration%20guide.pdf*

Known Issues

The following are known issues and will be addressed in a future version of DB2 Web Query.

Business Intelligence Portal

This section addresses the known issues for BI Portal.

Upload Data and Upload Wizard

- NLS characters are not supported in the following places when using the Upload Data and Upload Wizard:
  - Excel Worksheet name.
  - Folder name from where the Upload Wizard is being launched.

  Workaround: Use invariant (A-Z and 0-9) characters. Support for NLS characters will be added in a future Hotfix.
- The Upload Wizard fails to upload data. This happens when DB2 Web Query DataMigrator is installed and the user running the Upload Wizard is not licensed to use DataMigrator, that is, a user who is not a member of the DevWorkBench group. This requirement will be removed in a future Hotfix.

Workaround: If a license is available, add the user to the DevWorkBench group using the Secuity Center. Otherwise, launch the Upload Wizard from a user who is licensed to use DataMigrator, that is, a user who is a member of the DevWorkBench group.

- Run-Time Enablement (RTE) may cause the Upload Wizard to fail. This will happen if the user's current library (CURLIB) is not defined in the user's active RTE environment. The Upload Wizard writes out a temporary file during the upload process.

  Workaround: It is recommended to add both QGPL and the user's CURLIB (if different from the default, QGPL) to the user's active RTE environment using the WRKWQRTE command.

Metadata Wizard

- The Adapters for Query/400, DB Heritage, and JD Edwards should not be used during the Import Metadata step as these are multi-step Create Synonym processes, which are not yet supported by the Metadata Wizard.

  Workaround: Use the Metadata New option to create synonyms for these Adapter types.

InfoAssist

This section addresses the known issues for InfoAssist.

- Some navigation and arrow keys (for example, Delete, Home, and End) do not work in the following areas of the application:
  - Text input box for Prompts (Delete key).
  - Join Description of the Edit Join dialog box (arrow keys).

  Workaround: Use the mouse and Backspace key.

  Note: This applies to Firefox versions 27.0.01 and higher.

JD Edwards Adapters

This section addresses the known issues for the JD Edwards Adapters.

To use the Alternate Language option in the Adapter for JD Edwards EnterpriseOne and the Adapter for JD Edwards World:

1. Configure the adapter with *UDC Direct File Access* unchecked.
2. Run the *Refresh Metadata* with *Alternate Language File* unchecked.

   This step will create the udcdicdb table.

3. Run the *Refresh Metadata* with *Alternate Language File* checked and enter the default language code.

   This step will create the altdicdb table.

4. Create all the synonyms needed.

Note: Steps 2 and 3 need to be run, as needed, whenever UDC descriptions are updated.

Report Broker

This section addresses the known issues for Report Broker.

- Migration of Public Distribution Lists will generate the following error:

```
ERROR IBFSService                        - setShares -
opShareBasic/opShareAdvanced to this resource denied - user:qwqadmin
res:/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr
[2014-03-11 00:00:00,605] ERROR IBFSAddrBookConverter          - Failed
 to share
'/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr'
with IBFS:/SSYS/GROUPS/EVERYONE
```

  The distribution list will be migrated as a private object. To make this published:

  1. Move the distribution list to a published folder.
  2. Right-click on the distribution list and select the *Publish* option.

- Schedules may not run when using custom date intervals.

  Workaround: Use a different recurring interval, such as monthly or weekly. This will be fixed in a future Hotfix.

Spreadsheet Client

This section addresses the known issues for Spreadsheet Client.

DB2 Web Query InfoAssist, when opened from Spreadsheet Client, does not support the following:

- Excel Pivot output type
- Table of Contents format option

Both of these options will be disabled from Spreadsheet Client InfoAssist in a future release of DB2 Web Query.

National Language Support

This section addresses the known issues for National Language Support (NLS). This section only applies to Turkish and can be ignored otherwise.

In Turkish, running an active Flash or active PDF report in InfoAssist or from BI Portal generates a FOC3357 error.

Workaround: Edit the /QIBM/UserData/qwebqry/base80/client/wfc/etc/nlscfg.err file and add the following line to the end of the file:

```
ENCODING = Cp1026
```

Also, edit the /QIBM/UserData/qwebqry/ibi/srv77/wfs/etc/odin.cfg file by modifying the JSCOM3 Listener block to include an additional argument on the JVM_OPTIONS parameter, as follows:

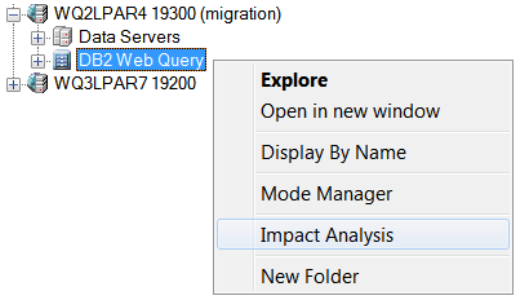
```
;JSCOM3 Listener
NODE = JSS
BEGIN
  PROTOCOL = TCP
  CLASS = JAVASERVER
  PORT = 12335
  AWT_HEADLESS = Y
  JVM_OPTIONS = -Djava.version=1.6|-Duser.language=en
  JVM_MAX_HEAP = 512
  IBI_CLASSPATH = /home/sqljdbc40/sqljdbc.jar:/home/sqljdbc20/sqljdbc.jar
END
```

Documentation

This section addresses updates to the documentation.

- The syntax in the *Creating a Dynamic Distribution List* example in the Report Broker Online Help does not work as shown. Use the updated syntax in the Enhancement section *Report Broker Dynamic Distribution List* on page 77 in this document.
- In the Developer Workbench *Analyzing Metadata and Procedures with the Impact Analysis Tool* topic, the documentation indicates that the Impact Analysis tool can be launched from the Synonym Editor or from the user interface. Regarding the latter, launching the Impact Analysis tool from the Data Server node on the Explorer tree will limit the search path to the Reporting Server application directories. The only procedures that can reside in these directories are DataMigrator for i data flows.

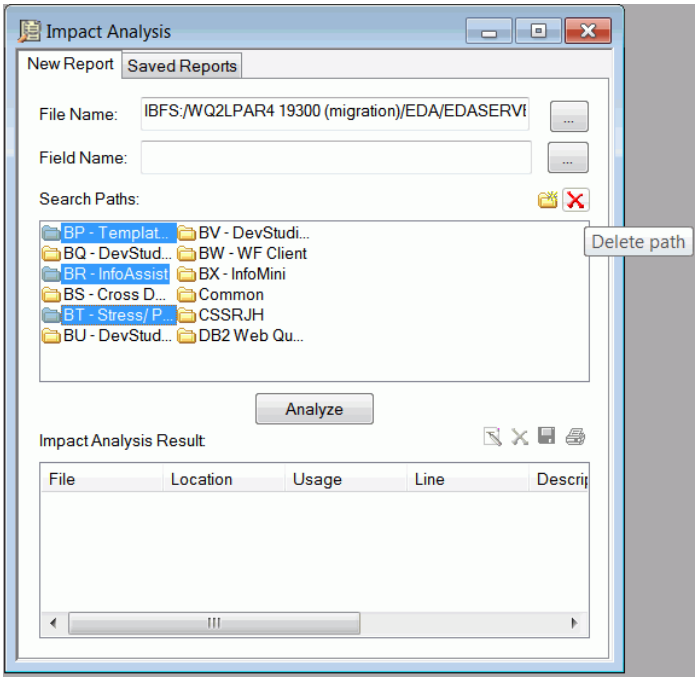
In order for the Impact Analysis tool to be able to search the DB2 Web Query repository, it is necessary to launch the tool from the DB2 Web Query node, and not the Data Servers node, as shown in the following image.



The search path is determined by the location where you launch the Impact Analysis tool. Launching the tool from the DB2 Web Query node will search the entire repository for procedures that are impacted. There are two ways to limit the scope of the search:

1. Launch the Impact Analysis tool from a specific top-level folder in the repository.

2. While in the Impact Analysis tool, use the Search Paths filter to delete any top level folders that are not required, as shown in the following image.



Note: Using the Impact Analysis tool from the DB2 Web Query repository node requires a user ID that belongs to the WebQueryAdministrator group.

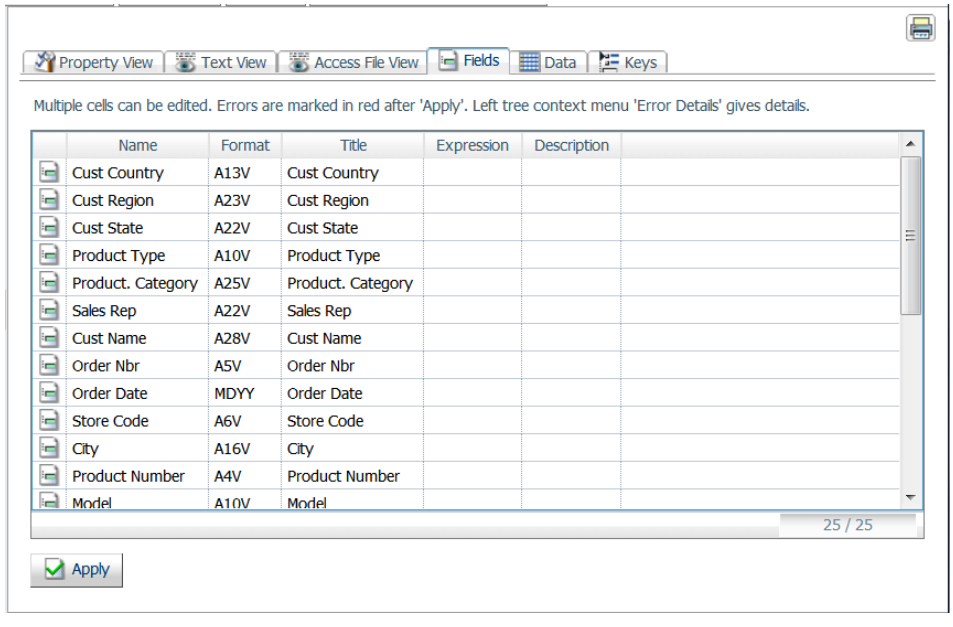
Metadata

This section addresses the known issues for metadata.

- Creating a synonym for a Query/400 file from the right-click folder Metadata Edit option does not generate the associated Web Query procedure in the repository.

  Workaround: Right-click a folder and select the *Metadata New* option to create synonyms for Query/400.

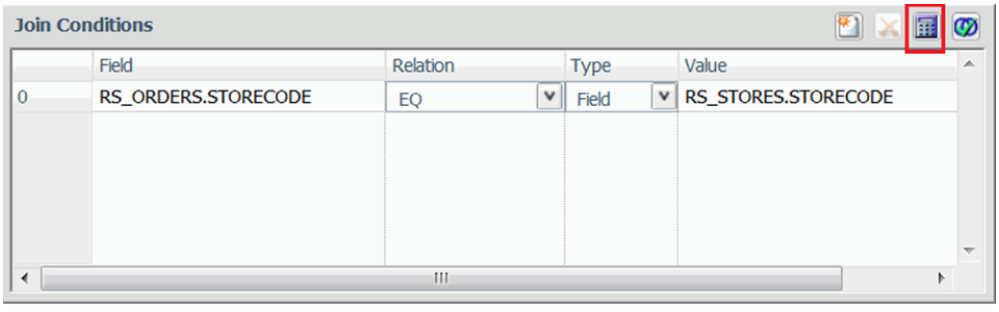
- Editing a synonym using the Fields tab of the Synonym Editor generates a "Failed to load, server may be down, status =404" error upon applying edits. The Synonym Editor tabs are shown in the following image.



  Workaround: Click the *Property View* tab to make any edits to the synonym.

- The web-based Synonym Editor/Join Editor dialog box generates a JavaScript error when creating a new join condition using the GUI.

Workaround: On the Join Conditions panel toolbar shown in the following image, click the *Editor* button and build the join condition using the Expression Builder. This issue will be resolved in a future Hotfix.



Web Browser Support

The following table provides browser support information for Web Query product components for Web Query Version 2.1.1 HF1.

✓ Supported ✓ Supported with minor issues Under evaluation

— Not evaluated ✗ Not supported

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
Reporting						
Active Reports	✓	✓	✓	✓	✓	✓
HTML Composer pages	Standards mode ✓	Standards mode ✓	Standards mode ✓	✓	✓	✓
InfoAssist	✓	✓	✓	✓	✓	✓
HTML Reporting Features						

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
HTML format *(No JavaScript)*	✓	✓	✓	✓	✓	✓
JavaScript components ❑ Accordion ❑ HFREEZE ❑ On-demand Paging	Standards Mode ✓ Compatibility View ✓	Standards Mode ✓ Compatibility View ✓	✓	✓	✓	✓
❑ Multi-drill	✓	✓	✓	✓	✓	✓
❑ Table of Contents (BYTOC)	✓	✓	✓	✓	✓	✓
Graph Requests (See Graph request notes below for additional information)						
Server-generated graphs	✓	✓	✓	✓	✓	✓
Browser-generated (HTML5)	✓	✓	✓	✓	–	✓
Browser-generated (AHTML)	✓	✓	✓	✓	✓	✓
Browser-generated (AFLEX, APDF)	✓	✓	✓	✓	✓	✓

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
Web Interfaces						
Amper Auto-prompting	✓	✓	✓	✓	✓	✓
BI Portal	✓	✓	✓	✓	✓	✓
OLAP	◐	◐	◐	◐	◐	◐
Report Broker	✓	✓	✓	✓	✓	✓
Desktop Tools						
Developer Workbench *(Requires Internet Explorer)*	✓	✓	✓	✗	✗	✗
Administration Tools						
Security Center	✓	✓	✓	✓	✓	✓
Web Query Administration Console	✓	✓	✓	✓	✓	✓

Note:

- By default, 2.1.1 releases of Developer Workbench display output in the Desktop Viewer, and can be configured to use the Output Viewer Options tab from the Developer Workbench Options dialog box. You can run applications in Internet Explorer. When an HTML page is displayed in the Desktop Viewer, the document mode specified within the page source is applied. When a document mode is not specified within the HTML page source, the HTML page is displayed in Internet Explorer 7 Standards mode.
- Simple HTML Web Query reports can be viewed on any browser.
- Support for presenting images and graphs in HTML, DHTML, and DHTML compound reports is provided using an image embedding facility based on the client browser. Output generated by Internet Explorer browsers or in scenarios where the browser is unknown (such as distributed by Report Broker) supports image inclusion through the creation of a web archive file (.mht). For all other browsers, images are 64-bit encoded within the generated .htm file.
- Graph request notes:
  - Server-generated graphs refer to traditional graph requests that are generated on the Reporting Server, and then embedded as a bitmap or vector image in a document or webpage. This includes the following output formats:
    - Bitmap: PNG, JPG
    - Vector: PDF (but not active PDF), SVG
  - Browser-generated graphs refer to graphs that are rendered inside the browser. This is done using JavaScript in HTML5 compatible browsers and by Flash in older versions of Internet Explorer that are either not HTML5 compatible or are being run in a mode that is not HTML5 compatible. Browser-generated graphs are utilized in both standard HTML5 output (FORMAT JSCHART) and in Active Technologies (FORMAT AHTML and FORMAT AFLEX, APDF).

  Note: Applet-based charts (Java Graph engine running client-side) have been deprecated in Web Query Version 2.1 and are no longer tracked in this matrix.
- Mac Users: Firefox browser is supported on the Macintosh operating system. Firefox browser functionality is consistent with the Safari web browser.
- Adobe Reader support:
  - Adobe XI is certified.

- Adobe X is certified.
- Adobe Acrobat Reader Version 9 is supported.

- Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the configuration information for the specific browser on how to change the Application Options settings for the relevant content types so that the browser will automatically use the Adobe Reader.

Mobile Browser Support

Web Query was tested on the following devices:

- iOS 7 tablet
- iOS 8 tablet
- iOS 6 touch and phone
- Android 4.4 tablet and phone

The following table provides mobile browser support information for Web Query product components for Web Query Version 2.1.1 HF1.

Supported Supported with minor issues Under evaluation

 Not evaluated Not supported

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Reporting				
Active Reports				
HTML Composer pages				

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
PDF			(Requires third-party apps)	
Excel			(Requires third-party apps)	
HTML Reporting Features				
HTML format *(No JavaScript)*				
JavaScript components ❑ Accordion ❑ HFREEZE ❑ On-demand Paging				
❑ Multi-drill				
❑ Table of Contents (BYTOC)				
Graph Requests				
Server-generated graphs				
Browser-generated (HTML5)				
Browser-generated (AHTML)				

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Interfaces				
Amper Auto-prompting		–		–

Note:

- Web Query developer tools (InfoAssist) are not supported for mobile.