



WHAT'S NEW IN OPUS 4.0

HIGHLIGHTS

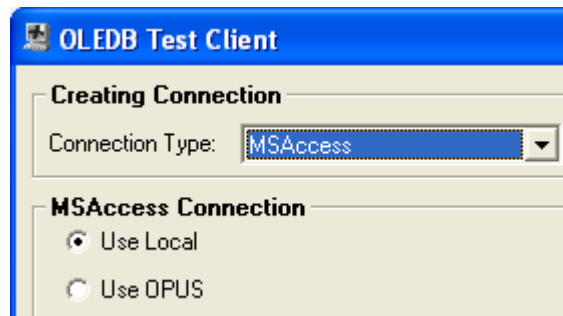
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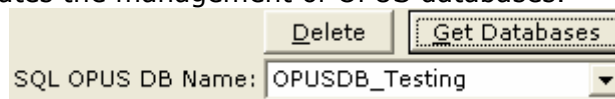
1. OleDB Test Client

A new option has been added in the OleDB Test Client application to allow users to test connections to Microsoft Access database files. This application is available under the OPUS Start menu.



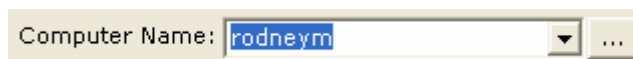
2. Delete OPUS databases

A *Delete* button has been included in the *Change the OPUS Database* section in OPUS Setup to delete existing OPUS databases that have been created but are now no longer in use. This simply facilitates the management of OPUS databases.



3. SQL Server browsing

In OPUS Setup, the *Computer Name* option under *Change the OPUS Database* has been changed to a drop down list in order to display running SQL Servers on the network for ease of use when browsing SQL Servers for selection. The users however still has the option to type in the SQL Server name he wishes to connect to if the name is not listed.



4. Default OleDB Connection name

When creating new OleDB datasources in the OPUS Configurator, the user is prompted for a connection name at the end of the wizard. The default connection name of the new datasource is the name of the database selected for the same connection. If the default name is not sufficient for the new datasource connection then simply enter a suitable name and *click Finish*.

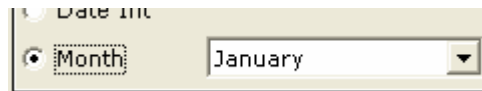




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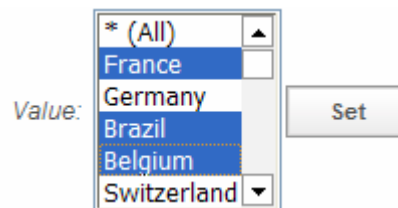
5. Month Range Parameter option

The *DateTime* and *Date* parameter types have a new option to select a month range which returns the first and last day of the selected month. The *Scheduler* client and *TriggerTask* application has also been modified to accommodate the new parameter options for *DateTime* and *Date* parameters.



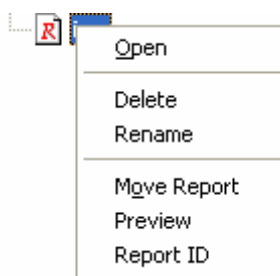
6. Multi Select List Parameter

The *Datasource* and *List* parameter types now have an added option to select multiple values from the list of values returned on the parameters page when generating a report. This option is useful when it is required to constrain data with more than one value. The '* (All)' option is now also inserted by default into the list of values returned for the above mentioned parameter types.



7. Report ID for Custom Application

The *Report ID* menu item has been added into the reports view of the *OPUS Configurator* for easy access. The *Report ID* is used when creating a custom application that generates an OPUS report. To generate a report from a custom application, the report URL is used which contains this unique ID.



8. Verifying the Network share username and password

When the *OPUS Server* is restarted, a check is now done to verify the *Network Share Username and Password* details configured in *OPUS Setup* are valid. This was implemented because of the enhanced Windows security on a company network that requires users to constantly change their passwords. If the verification fails, the user will be notified in the *OPUS Service Manager*.

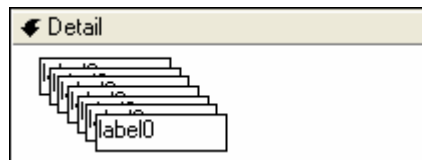




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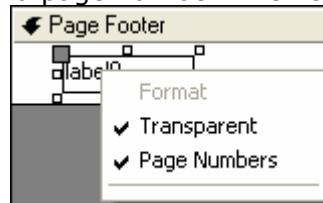
9. Copy and Paste in Data Grouping

When performing a copy and paste procedure in the *Layout Configuration* window of the *Data Grouping* report layout page, the controls are offset slightly from previously pasted controls to indicate that the action has successfully completed.



10. Page numbers in Data Grouping

A label control inserted into the Page Header/Footer of the *Data Grouping* report layout page can be configured to display a page number when the report is generated.



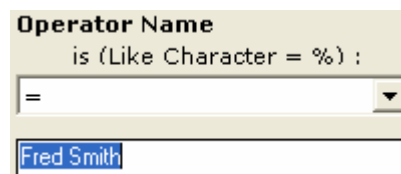
11. PictureBox control in Data Grouping

A *PictureBox* control that can be configured to display an image has been added to the toolbox of the *Data Grouping Layout Configuration* section.



12. Constraint in OleDb client

When opening an existing constraint in the OleDb client control in the *OPUS Configurator*, the constraint value is automatically selected to allow for quick editing of the existing value.

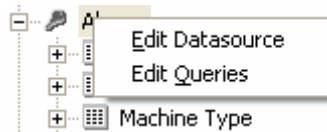




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13. Quick access to OPUS Queries

In the *Report View* windowpane of the *OPUS Configurator*, the menu item *Edit Queries* is now available for OleDb datasource types for quick and easy access to the configured Queries for that datasource connection. Right-click on an OleDb datasource connection name in the *Report View* windowpane and select *Edit Queries* to go straight to the Edit Queries dialog of that datasource and edit the necessary queries.

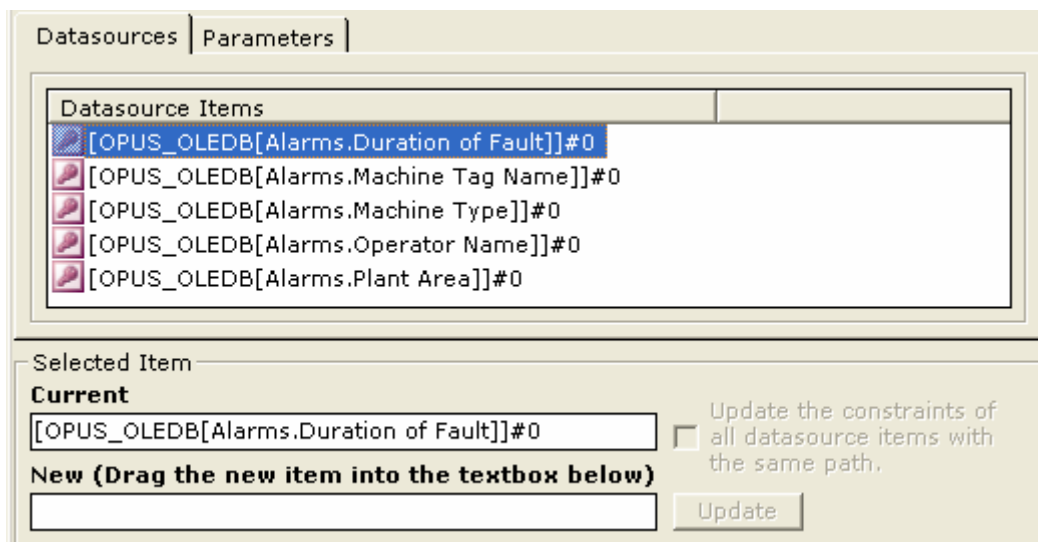


14. Delete Parameters

After deleting a parameter from the *Parameters* list in the *OPUS Configurator*, the next available parameter is automatically selected for editing or deleting by pressing *Enter* or *Delete* respectively.

15. Update Multiple Items

For the *Report Layout*, *Functoid Generator* and all report element types in the OPUS Configurator, a new simple feature has been added to speed up the editing of multiple datasource items. The *Update Multiple Items* feature allows the user to select one datasource item with the new constraint changes and then update multiple items that are related by the same datasource path. This is useful when editing a *Report Layout* that has been configured with numerous datasources items that originate from the same source and need to be updated with the same constraint changes.





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16. Configurable Interval Parameter

The *Configurable Interval* parameter type in the *OPUS Configurator* now has the added options to use *Datasource*, *Numeric*, *DateTime* and *Date* parameter types when configuring its values.

From (yyyy/MM/dd HH:mm:ss)

[[Dat	8	16	12	56	49
-------	---	----	----	----	----

[[Date]]

17. Formatting label controls containing parameters

It is now possible to format label type controls in the *Data Grouping Layout Configuration* section that contain parameters.

18. Column resizing in Expressions table

The columns of the *Expressions* table in the *Data Configuration* section of *Data Grouping* in the *Report Layout* are resizable to allow for better viewing of configured Expressions.

19. Seconds field in Configurable Interval parameter

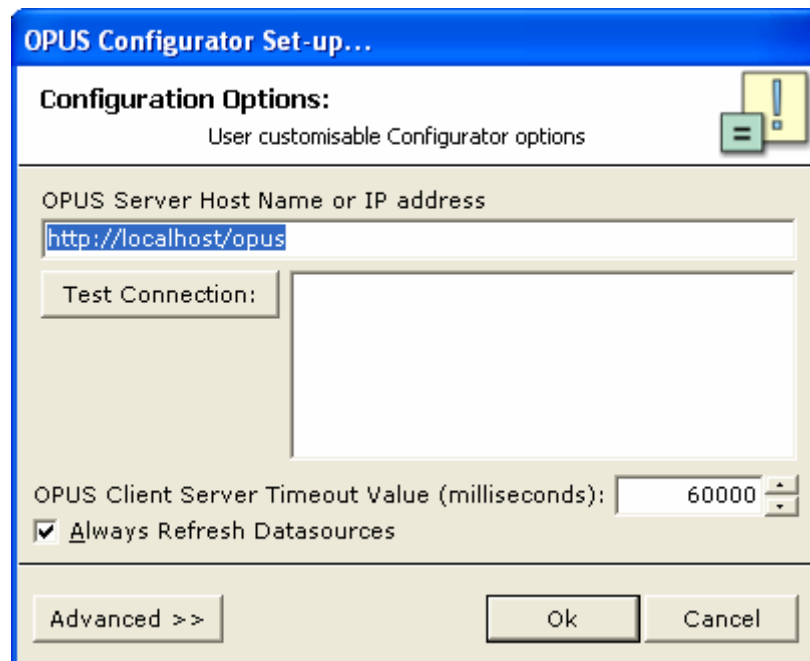
A *Seconds* field has been added to the *Configurable Interval* parameter which can accept *Datasource*, *Numeric* and *Current Param* parameter types.



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20. Refreshing Datasources in OPUS Configurator

Previously in the *OPUS Configurator*, datasource connections would always reconnect to their sources after using a datasource wizard or clicking the *Show Datasource Item* menu button in report elements or opening a new report. The problem we found with this was that customers with very large databases having thousands of tables and Stored Procedures had to wait long periods of time to view this level of data every time the above mentioned actions were taken. So to minimize this time delay while performing these actions on large databases, we've have included an option in *Preferences* under the *Administration* menu item called *Always Refresh Datasources* which stops the refreshing of datasources when this option is deselected. So by default, when the *Always Refresh Datasources* option is selected, datasources will always be refreshed when performing these actions.



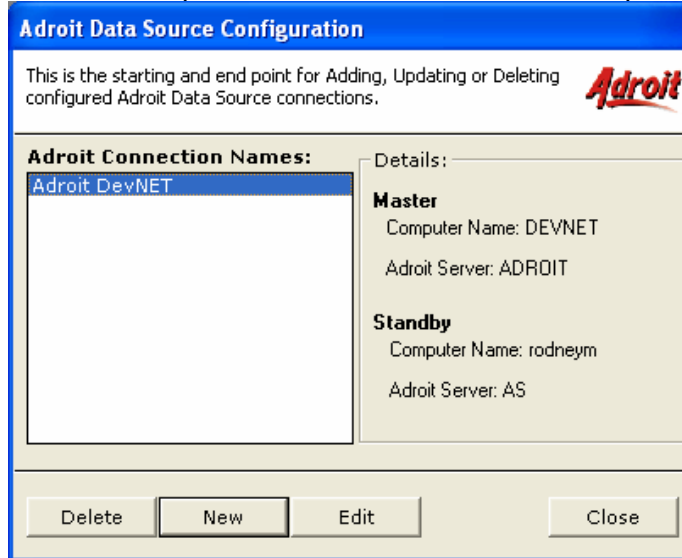
The screenshot shows the 'OPUS Configurator Set-up...' dialog box. It has a blue title bar and a white background. The main area is titled 'Configuration Options:' and contains the text 'User customisable Configurator options'. Below this, there is a text field for 'OPUS Server Host Name or IP address' containing 'http://localhost/opus'. To the right of this field is a 'Test Connection:' button. Below the text field is a spin box for 'OPUS Client Server Timeout Value (milliseconds)' set to '60000'. At the bottom, there is a checked checkbox for 'Always Refresh Datasources'. The dialog box has 'Advanced >>', 'Ok', and 'Cancel' buttons at the bottom.



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21. Adroit Standby Server configuration

Adroit datasources connections now have an option to specify an Adroit Standby Server which is used while generating a report if the configured Adroit Master Server fails. In other words your OPUS report will still generate if the Adroit Master Server fails because OPUS knows it can connect to a Standby Server to retrieve the necessary data.



Adroit Data Source Configuration

This is the starting and end point for Adding, Updating or Deleting configured Adroit Data Source connections.

Adroit Connection Names:

- Adroit DevNET

Details:

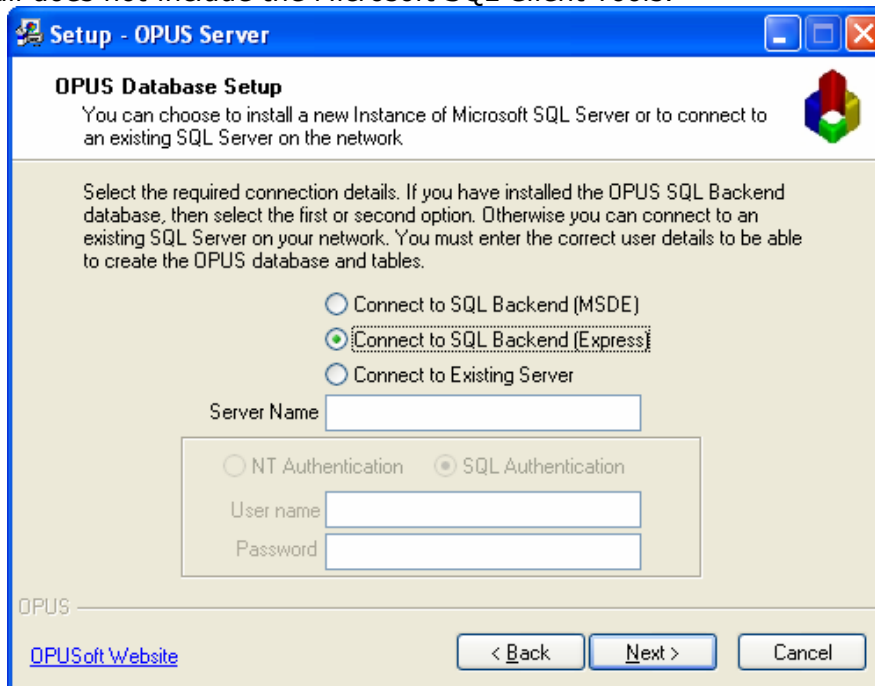
Master
Computer Name: DEVNET
Adroit Server: ADRDIT

Standby
Computer Name: rodneym
Adroit Server: AS

Buttons: Delete, New, Edit, Close

22. OPUS SQL Express Backend

The OPUS Server installation now includes an option to install SQL Express as the OPUS Backend for storing OPUS Databases. As is the case with OPUS SQL MSDE, the OPUS SQL Express install does not include the Microsoft SQL Client Tools.



Setup - OPUS Server

OPUS Database Setup

You can choose to install a new Instance of Microsoft SQL Server or to connect to an existing SQL Server on the network

Select the required connection details. If you have installed the OPUS SQL Backend database, then select the first or second option. Otherwise you can connect to an existing SQL Server on your network. You must enter the correct user details to be able to create the OPUS database and tables.

Connect to SQL Backend (MSDE)
 Connect to SQL Backend (Express)
 Connect to Existing Server

Server Name:

NT Authentication SQL Authentication
 User name:
 Password:

OPUS [OPUSoft Website](#) < Back Next > Cancel



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23. SQL Database Manager

The *SQL Database Manager* utility was developed for managing OPUS databases on an *OPUS Server* computer that doesn't have Microsoft SQL Client Tools installed. The *SQL MSDE* and *SQL Express* installs that are offered with the OPUS Server installation do not have the Microsoft SQL Client Tools. So this new OPUS utility offers users basic database management tasks such as Attach, Detach, Restore and Backup.

24. OleDB Schema output file

We have identified the need for our customers to view the schema data of an OleDB datasource connection of type DSN when writing custom OPUS Queries in the Query Builder. The syntax used in SQL queries varies between Provider Types and therefore it is necessary to know these unique syntax characters that the schema data provides. The OleDB Test Client utility also has an option to output a schema file.

25. Tooltips in Stored Procedures

The *Input Parameters* section of the Stored Procedure client window in the *OPUS Configurator* displays tooltips over long input parameter names.

Procedure Input Parameter(s)		
Field	Type	Value
@Cate	String	
@OrdY	String	
<input type="text" value="@OrdYear"/>		

26. Field count in OleDB client

The OleDB Client in the OPUS Configurator displays the number of fields returned in the heading of the field list.

Northwind\dbo.Order Details	
Fields	
Fieldname (5 Items)	
IN	Discount
IN	OrderID
IN	ProductID
IN	Quantity
IN	UnitPrice

27. Default Series Name in report elements

When dragging a datasource item into the *Series Name* section of a graph report element in the *OPUS Configurator*, the user is prompted for a unique name which is defaulted to the field name of the datasource item.

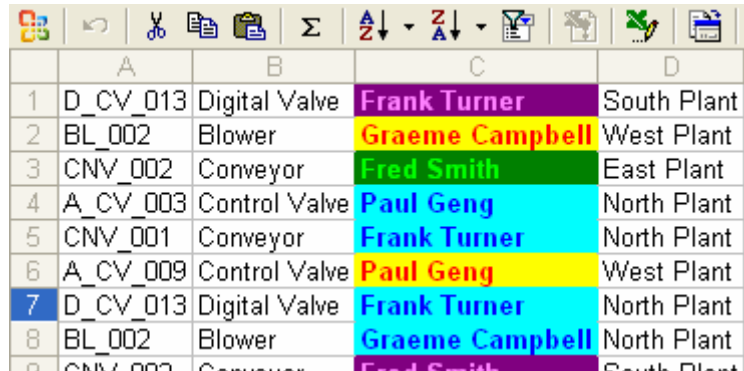
Enter New Name
<input type="text" value="ProductName"/>



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28. Conditional Formatting in Excel report elements

The new feature, *Conditional Formatting*, available in the Excel report element allows users to apply custom formats to cells based on configured conditions. As demonstrated in the example below, the cells of *Column C* have specific formats based on the values in *Column D*.



	A	B	C	D
1	D_CV_013	Digital Valve	Frank Turner	South Plant
2	BL_002	Blower	Graeme Campbell	West Plant
3	CNV_002	Conveyor	Fred Smith	East Plant
4	A_CV_003	Control Valve	Paul Geng	North Plant
5	CNV_001	Conveyor	Frank Turner	North Plant
6	A_CV_009	Control Valve	Paul Geng	West Plant
7	D_CV_013	Digital Valve	Frank Turner	North Plant
8	BL_002	Blower	Graeme Campbell	North Plant
9	CNV_002	Conveyor	Fred Smith	South Plant

29. OPUS Demo Reports

The *OPUS Server* installation includes an option to install demo reports that demonstrates some of the features of the OPUS Product. The demo reports are accessible at the end of the *OPUS Server Wizard Setup* when installing the OPUS Server and in the OPUS Setup application.

30. Click and drag values from Preview Watches

The *Preview Watches* window in the *OPUS Configurator* is most commonly used to preview data from datasources. Added to this, new functionality allows users to click and drag values from the *Preview Watches* window to the value text box in the OledB client. This removes the possibility of making errors when entering values for a constraint and increases usability.

31. URL Generator

This utility is used when a user needs to create a URL that will generate a report from a custom build application. The URL needed to generate a report contains an *opusreportid* parameter that specifies the unique id of that report. This id can also be viewed in the folders and reports view of the OPUS Configurator by right clicking on a report and selecting *Report ID*.

32. OPUS Registry Settings

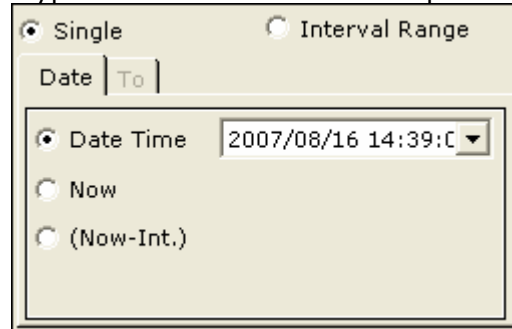
This utility can only be used by an OPUS Administrator user and allows for customized configuration of the OPUS Server and Configurator application after installation for optimizing report generation.



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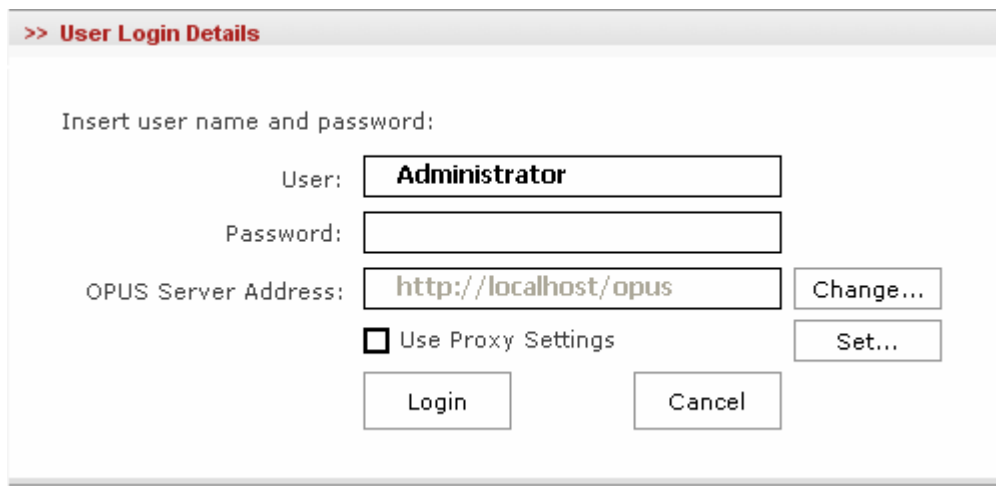
33. Date Time parameters

DateTime, Date and Time parameters now have an added option to set the default value of the parameters for a single type to *Now* or *Now Minus* a specific period of time.



34. Use Proxy Settings

The *Use Proxy Settings* option was added to allow users to connect with their OPUS Configurator to an OPUS Server outside their LAN (Local Area Network) going through the Firewall.

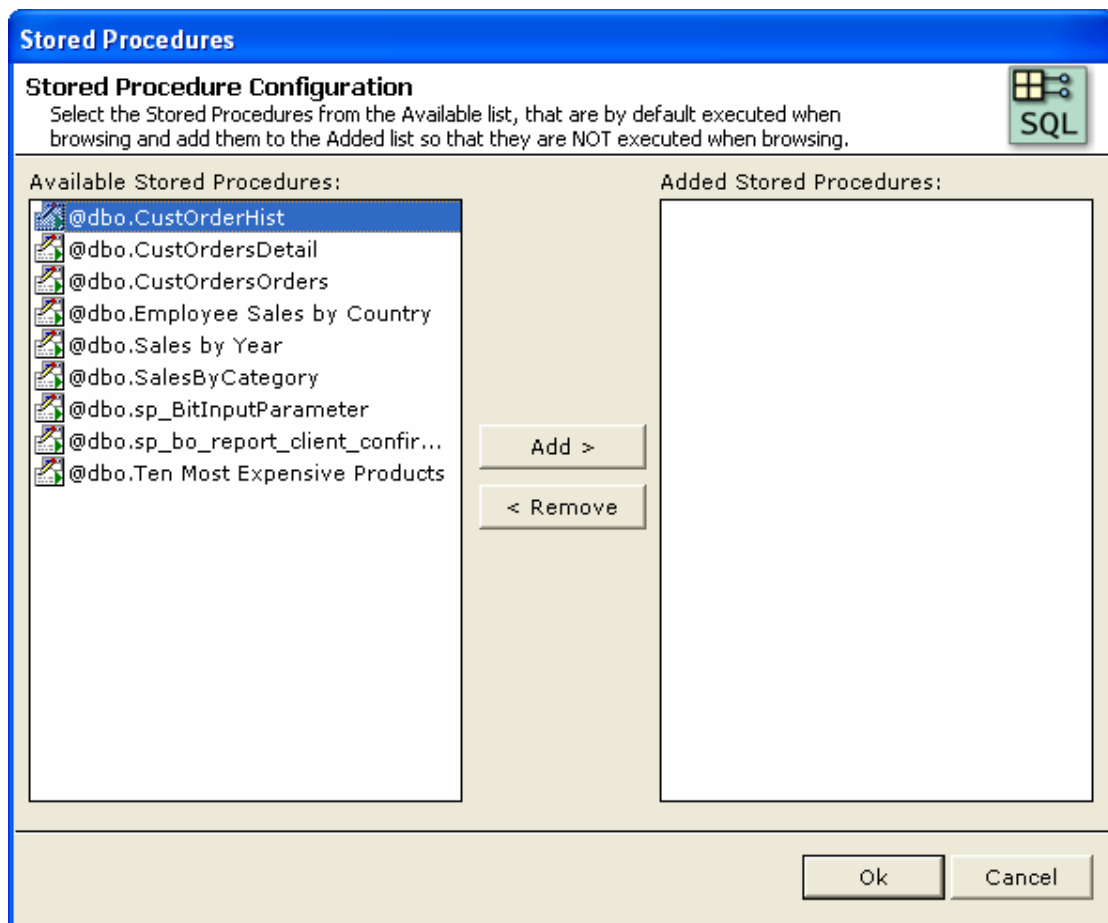




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35. Not executing Stored Procedures when browsing

By default when selecting a Stored Procedure (SP) in the OPUS Configurator to view the fields returned that SP must be executed to determine those field names. This can cause undesired effects when the SP does processing that affects other tables. So to help users, a *Stored Procedure Configuration* dialog is available through the *Edit Connection* dialog of the OleDB datasource type that can be used to specify SP's that must not be execute. Please note that SP's that are not executed when browsing datasources in the OPUS Configurator don't return a field list.

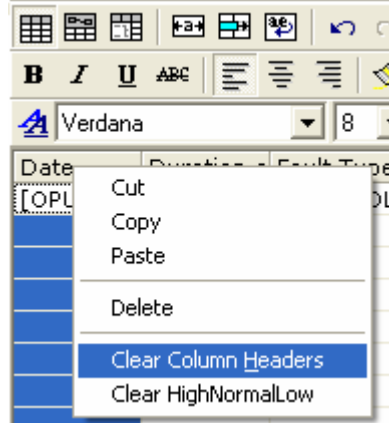




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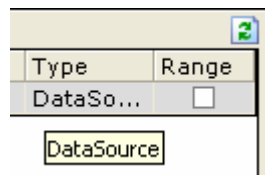
36. Clear column headers in Flex report element

A right-click menu option is now available to clear the column header text if it's not needed.



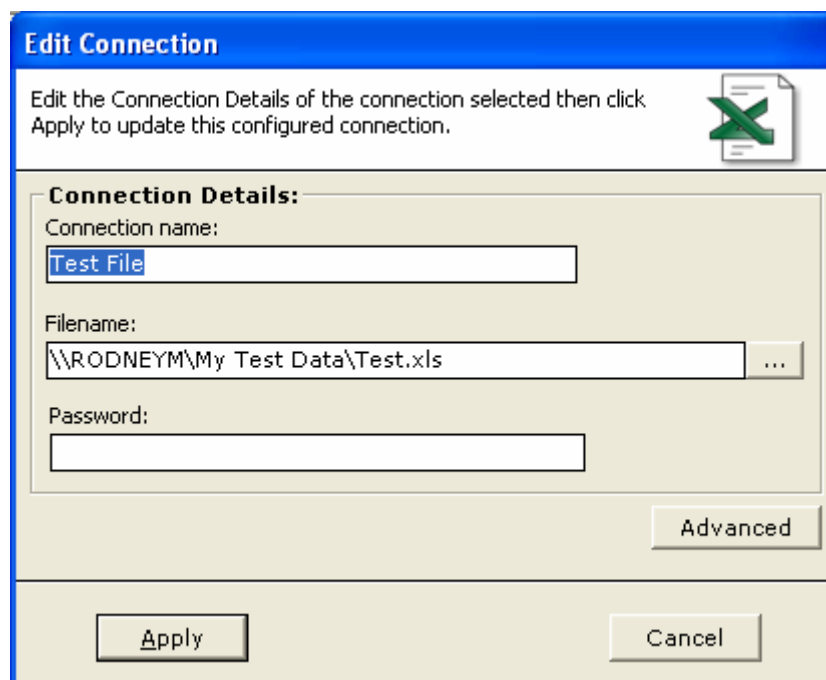
37. Tooltips in Parameter section of Scheduler

Tooltips are displayed for all the columns in the Parameters configuration section of a schedule that have values longer than the column width.



38. Advanced button in Excel and XML datasources

An *Advanced* button has been added to the *Edit Connection* dialog in the Excel and XML datasources give the user the option to enter the authentication details necessary to make a connection to the source file.





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BUGS FIXED

1. Configurator

- 1.1 **Data Grouping** - When dragging a datasource item onto a blank *Fieldviewer* table in the *Datasource Configuration* section of *Data Grouping* from the same OleDB source table as the original fields the following error message is displayed: Invalid source XML.
- 1.2 **Preview Watches** - An error was displayed to the user about illegal xml characters when attempting to view data in the Preview Watches window containing invalid characters.
- 1.3 **OleDB Client** - Sometimes renaming an SQL datasource of type OleDB would fail and therefore the new name would not be accepted when clicking *Apply*.
- 1.4 **OleDB Client** - The tab ordering when editing a SQL datasource connection is incorrect.
- 1.5 **Report Layout** - There was a problem in the Report Layout that reports with layout pages with large amounts of datasource items on them would duplicate the first page on all others pages in the Report Layout. This would therefore cause that only the first layout page could be edited.
- 1.6 **Pie Graph** - Functoids don't work on the *Data Labels* section of a pie graph.
- 1.7 **Configurator** - The debug error logging option for the OPUS Configurator would sometimes fail right in the middle of output an error logging even though the OPUS Configurator still continued loading.
- 1.8 **Configurator** - If the username or password for the *Network Share Username and Password* was invalid when connecting to the OPUS Server with Configurator an error message containing '%%1' was display to the user instead informing him/her the actual problem with possible solution.
- 1.9 **Preview Watches** - The Preview Watches window displays the incorrect DateTime format.
- 1.10 **Query Builder** - The OleDB Query Builder displays the incorrect DateTime format.
- 1.11 **Scheduler** - When pressing enter while configuring the *StartTime* and *EndTime* for a schedule the schedule interface jumps back to the parameters section of the *Scheduler* wizard.
- 1.12 **Data Grouping** - Using more than one parameter of the same name in an expression results in an error when generating the report and thus the report is not displayed properly.
- 1.13 **Data Grouping** - A label control in the Layout Configuration cannot be resized if it contains a parameter.
- 1.14 **Data Grouping** - If a Stored Procedure returns two fields with the same name then the field list displayed in the OPUS Configurator for that Stored Procedure is incomplete.
- 1.15 **Flex Report Element** - Opening an already saved *Flex* report element, and then opening the *Preview Watches* window over it by pressing CTRL-G and then closing the *Preview*



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- Watches* window causes the Flex report element to incorrectly display its layout configuration.
- 1.16 **Query Builder** - If a Stored Procedure is executed in the OPUS Query Builder that has 3 parameters for its 3 input parameters, then the last parameter is not set with its relevant parameter value.
 - 1.17 **Datasource browsing** - Retrieving a large list of Stored Procedures can sometimes take up to 3-4 minutes to display in the Report View windowpane.
 - 1.18 **Configurator Login** - Logging in to the *OPUS Configurator* if the OPUS Licence only allows 1 *Configurator Connection* displays the following error: *Login restricted by Priority licensing. Please log in with a different user.*
 - 1.19 **Excel Datasource** - The Excel Datasource fails to connect to the Excel source file with no error message indicating the reason why, in the OPUS Configurator. This type of problem is difficult to reproduce so it is important to check that Microsoft Excel is installed correctly.
 - 1.20 **Stored Procedures** - Sometimes when selecting a Stored Procedure in the *OPUS Configurator*, the first field displayed in the field list, of datatype string, has no name.

2. Server

- 2.1 **OPC** - Data requested from an OPC Server where the quality is marked as "uncertain" not "bad" is not returned.
- 2.2 **OPUS Server installation** - After installing the *OPUS Server* and restarting the computer, *OPUS Setup* prompts the user for further configuration settings. During this process an error occurs: *Error Updating Taskparam datatype in Scheduler table. Can't alter column 'Taskparam' because it is 'ntext'.*
- 2.3 **OleDB Datasource** - When working with a DSN type OleDB datasource, if the datatype of a field is a bit (Boolean) then using *True* or *False* when constraining this field doesn't return data.

3. OPUS Web page

- 3.1 **Parameters** - The error *No data Returned* was displayed in a report that had data using a parameter with a name containing an ampersand '&' character.
- 3.2 **Functoids** - The Format functoid doesn't use the local *Regional Settings* for displaying values on an OPUS web page client.
- 3.3 **Excel Report Element** - When inserting date values into an Excel report element through a datasource item, the final generated report displays the DateTime values with incorrect formats and not the Regional Settings format on the OPUS web page client computer.
- 3.4 **Parameters** - When using a *List* parameter type in an OPUS Query that's used as another parameter that's used in another OPUS Query, it doesn't output the correct value if it is not set on the parameters web page.



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- 3.5 **Data Grouping** - A blank page is always printed when printing a report only containing a Data Grouping element.
- 3.6 **Data Grouping** - If more than 2 custom footers are configured in Data Grouping element then the custom footers after the all moved to the bottom of the report.
- 3.7 **Flex Report Element** - Create two Datasource parameters, one having the *Multiple Select* option, and put them on a Flex report element. Generate the report in the OPUS web page client and select multiple items in first parameter, click *SetAllAndGenerate*. The generate Flex report element doesn't show the parameter values.
- 3.8 **Line Graph Report Element** - If the values generated for a *Line Graph* report elements contain Null's then the graph doesn't display the line series data correctly.

4. Utilities

- 4.1 **Data Transfer (Importer Exporter)** - When importing an OPUS report that contains *Functoids* in the *Report Layout* into the current OPUS database some *Functoids* no longer work and need to be re-added to the Report Layout.
- 4.2 **Data Transfer (Importer Exporter)** - Importing an OPUS report that has the same name as a report in the current OPUS database would fail and therefore this report could not be imported until the duplicate report in the current OPUS database was renamed or deleted.
- 4.3 **Data Transfer (Importer Exporter)** - When attempting to export an OPUS database, the following error is displayed: *Invalid use of null*. This only occurs on some OPUS databases.
- 4.4 **OPUS Setup** - The *master*, *model*, *msdb*, *pubs* or *tempdb* databases were added to the databases list when clicking *Get Databases* under the *Change the OPUS Database* section.
- 4.5 **OPUS Setup** - The new *OPUS Engine* process that was instantiated when creating a new OPUS database under the *Change the OPUS Database* section wasn't terminated after OPUS Setup was closed.



WHAT'S NEW IN OPUS 4.0

KNOWLEDGE BASE

Data Sources

1. Error connecting to Oracle Database

Problem: When executing the following Opus query built in the Opus Query Builder on the Oracle Database:

```
SELECT [EMPLOYEE_VIEW].[EMPLOYEE_ID], [EMPLOYEE_VIEW].[LAST_NAME],  
[EMPLOYEE_VIEW].[FIRST_NAME], [EMPLOYEE_VIEW].[GENDER],  
[EMPLOYEE_VIEW].[DATE_OF_BIRTH], [EMPLOYEE_VIEW].[YEARS_SERVICE] FROM  
[EMPLOYEE_VIEW] WHERE [EMPLOYEE_VIEW].[AGE] BETWEEN 20 AND 40
```

the following error message is returned:

ORA-00936 - Missing expression.

Solution: Remove the square brackets [] from Oracle data source.

2. Sharing folders for MS Access files

Problem and Solution: When sharing a folder to access an mdb database file, if the user *Everyone* is used with Read or Full permissions then any user attempting to connect to the same mdb database file in that folder can connect. If *Authenticated Users* is used with Read permissions then any user attempting to connect to the same mdb database file in that folder can also connect, but if *Authenticated Users* is used with Full permissions then only users attempting to connect with the same username and password as the first user that connected to the same mdb database file in the same folder can connect.

3. Error fetching data – column size too large

Problem: If the following error description is displayed in the OPUS web page when generating a Data Grouping report then the size of the fields that the grouping is done on, is too large:

Error fetching data: Relate, Compute By, and Sort operations cannot be performed on column(s) whose defined size is unknown or too large.

Solution: This is only a problem with Microsoft SQL Server, Oracle seems to work fine. It is recommended that if for example you are doing grouping on two fields, that the defined size of these two fields in the design of the table in SQL doesn't exceed 2000.

4. Network Browsing dialog is empty

Problem: When opening the Network Browsing dialog while creating a new datasource, the section that is meant to display the available domains and computers on the Network is empty.

Solution: Check the user details in *OPUS Setup* for the *Network Share Username and Password* by simply clicking the *Apply* button.



WHAT'S NEW IN OPUS 4.0

5. **Blank Excel Datasource worksheet**

Problem: When attempting to view the worksheets of your Excel datasource in the *OPUS Configurator* you find that the worksheet displayed is blank.

Solution: This means that there are links on one of the worksheets that is invalid, meaning that the source of the link does not exist. Remove or update the source link appropriately.

6. **Connecting to an Access database**

Problem and Solution: When Adroit logs data to a Microsoft Access database file it creates a lock file (LDB). Now if OPUS connects to this file after Adroit has to log data, and the folder is shared with READ-ONLY, then OPUS will not be able to connect because it can not edit the LDB file in a READ-ONLY directory. So the *Share Folder* containing the Access database must be set to FULL CONTROL for OPUS to also connect after Adroit has. If OPUS connects first you don't have this problem because OPUS connects in a READ-ONLY state and therefore doesn't need to create a lock file. It is also important to remember that Adroit connects to a local file through C:\ path where OPUS connects through the *Shared Folder*.

7. **Register the Adroit MISSRVR.exe**

Problem and Solution: If the normal way of registering the Adroit MIS Server, which is by simply running the MIS server application from the computer that has Adroit installed, doesn't work to enable the OPUS Configurator to open the Adroit datasource client then it might be necessary to copy the *MISSRVR.exe* locally with it's relevant dll's and register it locally by running the now local copy *MISSRVR.exe*.

8. **Error: The group name could not be found**

Problem: The error, **the group name could not be found**, is sometimes generated when attempting to connect to Access database or Excel file on another computer when using the browsing dialog in the OPUS Configurator resulting in the user not being able to open the directory containing the desired file. This error is very rare and we have not yet been able to find the reason why this occurs. **Solution:** As a temporary solution, browse to the desired file using Windows Explorer; copy the network path to the file including the filename and paste it into the *Selected Path* textbox on the *Choose Datasource* page of the datasource wizard. Then after the new datasource connection has been created, edit the connection, select the *Advanced* button and enter the correct authentication details to connect to the configured resource.



WHAT'S NEW IN OPUS 4.0

9. *Link Tables in Access datasource not connecting*

Problem: Access databases have the functionality to configure a link table to a table in another Access database. This source database can reside on the same computer as the master database or on a remote computer. If the source database resides on a remote computer then an OPUS datasource using the master Access database can't make a connection to that source database.

Solution: There are two things you'll need to do to enable this connection using the OPUS datasource (N.B. must be logged on to the computer as an administrator user):

1. Open the **Component Services** application under **Administrative Tools**. Browse to the **OPUS Server** application under Console Root → Component Services → Computers → My Computer → COM+ Applications. Right-click the **OPUS Server** application and select **Properties**. Select the **Activation** tab and select the **Library application** option. Click Ok on all pop up dialogs and click Apply to close the **OPUS Server Properties** window.
2. Stop the OPUS Server from the OPUS Service Manager task tray icon. Open Windows Explorer and browse to the \OPUS\Server install directory. Double-click the OPUSServer.exe file which will run this application as the logged on and not as a service.

Generated Reports

10. *Flex report element only displays column headers*

Problem: Create and generate a report with one flex and one html report element in a Built-In template layout that divides the page in half (top and bottom). Make sure there is enough data in both report elements, that individually they can fill more than a page. Place the flex at the top of the layout and the html report element at the bottom. When you generate it, the flex only displays the column headers.

Solution: The only solution is to set the height of the cell containing the flex to a specific size and not use the percentage value, which is default.

11. *Report not saving to HTML*

Problem: If images in the generated report in the OPUS web page are not displayed the report will not save to HTML.

Solution: Ensure that all report images are in the images folder and displaying correctly when the report is generated in the OPUS web page.

12. *Single page report saves as two pages in PDF*

Problem: A single page report saves as 2 pages with the PDF save.

Solution: Resize any report elements that are the full page size of the layout page to 85% by clicking the Resize toolbar button in the layout configuration of the report.

13. *Report elements show up blank when generated*

Problem: The bar graph, line graph and pie chart report elements show up blank (display no data) when generated in the OPUS web page if the Windows Regional Settings set to Polish.

Solution: If the regional settings of the OPUS Server machine and client machine (OPUS web page) don't have the same decimal point and thousand separator then the bar graph, line graph and pie chart report elements won't display it data on the client machine (OPUS web page).



WHAT'S NEW IN OPUS 4.0

14. Error in HTML: 2-Overflow

Problem: If this error, *Error in HTML:2-Overflow*, is displayed in the OPUS web page when generating a Data Grouping report, then the Regional Settings of the client machine is incompatible for the decimal point and thousand separator with the data used in the Data Grouping report.

Solution: This problem was discovered on a Danish operating system where the decimal point and thousand separator are switched around to the English operating system. In this case the decimal point and thousand separator where set to the English operating systems settings and solved the problem.

15. Data Grouping reports not supported on SQL 7

Problem and solution: The error, *Bulkload will only work with SQL Server 2000 or later*, is displayed in the OPUS web page when generating a Data Grouping when the SQL Server where the OPUS database is installed on, is a SQL version prior to SQL 2000. A grouping report will not generate from SQL 7 because Bulk Loading is only supported from SQL 2000 and later versions. The Bulk Loading functionality is needed to process the Data Grouping report data.

16. Excessive report generation time

Problem: When you do report development and configuration on one PC, let's say at your office premises, then Export the OPUS database to Import it on site, you have to edit the datasource connections. The paths to the datasources, e.g. the path to an Access database or the name of a SQL Server might be different on site than at the office. But when the SQL Server name is edited for a SQL datasource it seems that the report generation is very slow in the OPUS web page, where the original configuration at the office was fast.

Solution: Every datasource in OPUS has an authentication linked to it and in the case of a SQL datasource the authentication specifies the computer name where the SQL Server sides. This authentication is done from PC to PC through the operating system. When the SQL Server name is edited for a datasource, you must also edit the authentication of the SQL datasource connection by clicking the *Advanced* button in the edit dialog of the datasource and editing the *Path*, which in the case of a SQL datasource would be the computer name. If this is not done, when the report attempts to retrieve the data from the datasource it tries to connect to a machine that is not on the network. The reason why the report still works with a wrong authentication is because the SQL Server name is normally the same name as the computer.

17. Data Grouping Header/Footer is blank

Problem: The value of a group header or footer blank.

Solution: This means that the value for that header/footer is Null and therefore can't be related to data under it because the Shaping procedure of the data done in SQL can't relate Null to valid data values.



WHAT'S NEW IN OPUS 4.0

18. Custom layout page not displaying report elements

Problem and Solution: When using a custom HTML page as a layout page for a report, you must either specify a height for the table where in you wish to drag your report element or the report elements height must be an actual value and not a percentage. If this is not done then the report element image is not displayed in the custom layout page because the default height of a report element image is 90%. And if the table containing the report element image doesn't have a height specified then 90% of nothing is still nothing and therefore you won't see the report element in the layout.

19. Blank report elements in report

Problem and Solution: If a generated schedule being viewed displays blank pages where report elements should be then the *Network Access User* specified in OPUS Setup doesn't have enough access rights to create the report elements when the Schedule is generated. Select at least a Power User for the OPUS Network Access user.

20. Report Elements not printing

Problem and Solution: If you have a report layout with four cells containing report elements in all the cells, then change the size of the bottom two report elements to 100%, when you print this report you will notice that the bottom two report elements did not print. To solve this, change the size of the bottom two report elements to 98%.

21. Blank report when saving to PDF

Problem and Solution: If the report that has been saved to PDF is blank from an OPUS web page client or a scheduled task, change the *OPUS Postscript Printer* paper size to A4. This can be done via the *Printers and Faxes* menu item in the *Windows Start* menu. Right click on the *OPUS Postscript Printer* and select *Properties*. Then select *Device Settings* and change the *Form to Tray assignment* to A4.

OPUS Server

22. OPUS Server service does not startup

Problem: On some Windows installs the OPUS Server service doesn't startup with Windows Auto logon.

Solution: When the operating system starts up, all Windows Services start as well and because the OPUS Server is attempting to startup before the SQL Server has started up a connection to the OPUS database can't be established. The sequence of Services starting up is controlled by the operating system. So set the OPUS Server service dependant on SQL startup.

23. Large numbers

The OPUS Server processing engine is not designed to process numbers larger than 1.82689E+308.



WHAT'S NEW IN OPUS 4.0

24. Connection to SQL through a Firewall fails

Problem and Solution: When attempting to connect to a remote SQL Server in the *Change the OPUS Database* option in *OPUS Setup*, the OleDB Test Client or by simply creating a SQL datasource connection in the OPUS Configurator, which is on a computer with an enabled Firewall, it is not sufficient to add the *SQL Server Port Number* to the *Exceptions* list, you also need to add the *sqlserver.exe* application to the *Exceptions* list if you wish to connect to that SQL Server.

25. OPUS Server fails to startup after PC restart

Problem: When a PC is restarted, the OPUS Server fails to start because the SQL Server on the PC hasn't started in time. If the OPUS Server is connecting a local SQL Server then the OPUS Server is dependant on the SQL Server starting up first so that a successful connection can be made.

Solution: Configure the local SQL Server service as a dependency for the OPUS Server service:

- Open the Registry Editor; go Start → Run, type 'regedit' and click Ok.
- Browse to HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services \OPUS Server.
- Add a new registry key under OPUS Server called DependOnService as a Multi-String Value by right-clicking in the right-hand pane and selecting New → Multi-String Value and type in DependOnService.
- Once the DependOnService key has been created, double-click this key and enter one of the following values:
 - If the OPUS SQL Backend was installed then enter MSSQL\$OPUS.
 - If the Microsoft SQL 2000 was installed then enter MSSQLSERVER.
- Click Ok and verify that the DependOnService key now displays the relevant data value.
- Restart the PC to ensure that this configuration was applied successfully.

OPUS web page client

26. IIS users disabled

Problem and solution: If the *IUSR_* and *IWAM_* users are disabled under your Windows User Account settings, then IIS (Internet Information Services) will not work and therefore connections between the OPUS client's and server will not be established.

27. Remote client connection fails

Problem and Solution: When attempting to connect to a remote OPUS Server through an OPUS web page client in Internet Explorer, it is important to ensure that the username and password specified for the directory security of the OPUS Virtual directory on the OPUS Server computer is correct. If the user details are incorrect then a remote client attempting to connect to the OPUS Server will fail. But if the authentication details have been set up correctly on the OPUS Server computer and a remote client still can't connect then the remote client computer must use the IP address of the OPUS Server in the URL to connect.



WHAT'S NEW IN OPUS 4.0

28. Error page when opening OPUS web page client

Problem and Solution: When starting an OPUS Server computer that does not have a network, but has the Microsoft Loopback Adapter installed, you must ensure that Skype is not running at startup. If Skype is running when the computer is restarted with the Loopback Adapter also running after the computer was running successfully on the network before the restart, then Internet Information Services (IIS) does not start because Skype uses the same port number (80) and seems like it blocks IIS from using that port. So therefore, when the OPUS web page client is opened, an error page is displayed.

29. Connection to OPUS Server through a Firewall fails

Problem and Solution: If you want to connect to an OPUS Server through the OPUS web page client in Internet Explorer from a remote computer with the Firewall on the OPUS Server still enabled, then you have to add *inetinfo.exe* application to the Firewall Exceptions list.

Parameters

30. Select All option in OPUS Query

The '* (All)' option selected from a Datasource parameter drop down list is not applicable in OPUS Queries because it causes that the SQL statement to become invalid. A fix to modify the SQL statement to handle the '* (All)' option to return all values for a specific field is too complicated to check all variations of using parameter values in a SQL statement.

Scheduling

31. Emailed Schedules failing

Problem and Solution: If you have the following error message logged in the *Scheduler.log* file,

5/4/2006 5:00:41 PM -2147418113 MailReport: The message was undeliverable. All servers failed to receive the message: joesoap@dummy.co.za,

then try one of the following solutions:

1. The first reason why this error message could be occurring is because the Exchange Server name setup under Administration → Preferences → Advanced in the OPUS Configurator is incorrect and therefore the email server that OPUS is attempting to connect to does not exist. Make sure the Exchange Server name is entered correctly.
2. Secondly, this error could be occurring if the *Anonymous Access* option under the *SMTP* service on the *Exchange Server* has been disabled. OPUS connects to the specified Exchange Server through the SMTP service so the *Anonymous Access* option must be enabled.



WHAT'S NEW IN OPUS 4.0

32. *Saved Schedules failing*

Problem and Solution: If you have the following error message logged in the *Scheduler.log* file,

5/4/2006 5:35:30 PM 1 SaveReport result: fFileCopyERR: Path/File access error (75),

then the *Shared Folder* to which you are attempting to save the OPUS report is only shared with Read-Only access. Make sure that any *Shared Folder* you wish to save to, using the OPUS Scheduler, is shared with *Write* permissions.

33. *Users not receiving emailed Schedules*

Problem and Solution: When running schedules on a Microsoft Windows Server 2003 operating system the following message pops up,

Your current security settings prohibit running ActiveX controls on this page. As a result, the page may not display correctly.

The initial behavior is that any schedules configured in OPUS on that computer to be emailed to clients, don't reach them. This issue occurs if the *Internet Explorer Enhanced Security Configuration* option is enabled. By default this option is enabled in *Internet Explorer* on Windows Server 2003 computers. To disable this option, go to *Add/Remove Windows Components* and deselect the option *Internet Explorer Enhanced Security Configuration*.

34. *Scheduled Printing*

Problem and Solution: If you would like to schedule a report to print or schedule to save to PDF or HTM or schedule to e-mail in PDF or HTM format, you will need to change the Log On User Account for the OPUS Server service from *Local System Account* user to a valid Windows user. The reason for this is that the *Local System Account* does not have access to printers on the operating system. There are two ways to resolve this problem:

- a. Either run the OPUS Server as an application by simply double-clicking on the *OPUSServer.exe* file in the ...\OPUS\Server directory. The disadvantage of this method is that if the computer restarts automatically after a power failure then the printing schedules won't execute because the OPUS Server service will run as the *Local System Account*.
- b. Or run the **OPUS Setup** from the **Start** menu, **Programs**, **OPUS** and select the *Change the OPUS Server Log on User Account* option to configure a valid Windows user.

35. *Browsing Network Printers*

Problem: When browsing for printers to configure a schedule to print when the OPUS Server service is running as the *Local System Account*, all networks printers added to the computer are not available for selection. **Solution:** Run the **OPUS Setup** application from the **Start** menu, **Programs**, **OPUS** and select the *Change the OPUS Server Log on User Account* option to configure a valid Windows user. The *Local System Account* does not have access rights to network printers on the computer and therefore a valid windows user must be configured for the OPUS Server service.



WHAT'S NEW IN OPUS 4.0

Miscellaneous

36. Using active browser to open OPUS web page

Problem: If you have your Internet Explorer browser open to a web site, let's say to www.google.com and then launch the Opus web page, instead of opening a new Internet Explorer browser for the Opus web page, the Windows operating system uses the existing active Internet Explorer browser instead.

Solution: In Internet Explorer → Tools → Internet Options → Advanced, uncheck '*Reuse windows for launching shortcuts*'. (Internet Explorer 6)



WHAT'S NEW IN OPUS 4.0

TIPS AND TRICKS

Data Sources

1. Quick access to OPUS Queries

For quick access to your OPUS queries, simply right-click on the required datasource in the Report View pane in the OPUS Configurator and select Edit Queries.

2. Using Preview Watches values

To enter a constraint value in the constraint input box of the OleDb datasource client that is listed in the Preview Watches, simply click and drag this value into the constraint input box.

3. Re-adding a datasource with the same name

Deleting a datasource that is currently being used in a report will cause that report not to display the necessary data. Re-adding a datasource with the same name will **NOT** get your reports working again because datasource items in reports are linked to their relevant datasource by ID and not by name.

Previewing Data Sources

1. Quick access to Preview Watches

Simple drag and drop a datasource item directly into the blank grey right-hand pane of the OPUS Configurator to open the Preview Watches and execute the datasource item.

2. Sort data in Preview Watches

To sort the data returned in the Preview Watches simply click the column header of the field you wish to sort by. Clicking the column header multiple times will switch between ascending and descending sorting.

3. Refresh the data in Preview Watches

Click the **Refresh** toolbar button in the Preview Watches to run the last datasource item.

4. Data caching in the OPUS Configurator

The OPUS Configurator supports data caching which is noticeable when previewing a report element after a parameter that is being used in a constraint is edited. If the report element preview does not display the expected values then save the report and view it in the OPUS web page client.



WHAT'S NEW IN OPUS 4.0

Parameters

1. Range parameter in an OPUS query

A range parameter type returns two values but you only have one parameter name you can use in an OPUS query. So to use both values in an OPUS query, simply use the parameter name twice and OPUS will then know to put the first value in the first parameter name and the second value in the second duplicate parameter name.

2. Creating a datasource parameter

For an easy way to create a datasource parameter, simply drag the required datasource item down to the Parameters pane and drop it into the Local (yellow) or Global (blue) section.

3. Selecting multiple parameter values

You can now select more than one parameter value from a datasource parameter by enabling the **Multi Select List** option. Please note that a parameter using this option does not work in OPUS Queries.

Report Elements

1. Displaying co-ordinate values in Line Graph

To display the co-ordinate values of each series on a line graph report element, press and hold the CTRL key and click-and-drag on the background area of the line graph.

2. Maximize report element toolbar

Press and hold 'm' and click on chart to maximize the toolbar.

3. Single point co-ordinates in Line Graph

Click the **Points** toolbar item then click a point on a line graph report element to display the co-ordinate values of this point and the statistical values of this series.

4. Display Bar Graph series values

Right-click on a bar graph series to show a list all the values for that series. This feature is only available when more than one bar graph series is configured.

5. Do 'Save As' for report elements

Right-click on the **Save** button of a report element or functoid in the OPUS Configurator to do a Save As. This action is also possible by holding down SHIFT and clicking the **Save** button.

Report layout

1. Hide the Report View pane

When working in the report layout in the OPUS Configurator, hide the Report View pane to increase the designing area for developing a layout by clicking the **Hide Report Tree** toolbar button.



WHAT'S NEW IN OPUS 4.0

Generated Reports

1. Generate a report with default parameters

Click on the report **icon** to the left of the report name in the OPUS web page client to generate a report with default parameters. This will not prompt the user to input parameter values.

Miscellaneous

1. Hide the No Data Returned error message

Edit the OPUSLanguage.mdb file to hide or change the *No Data Returned* error message which is displayed in a generated report when a datasources fails to return data.