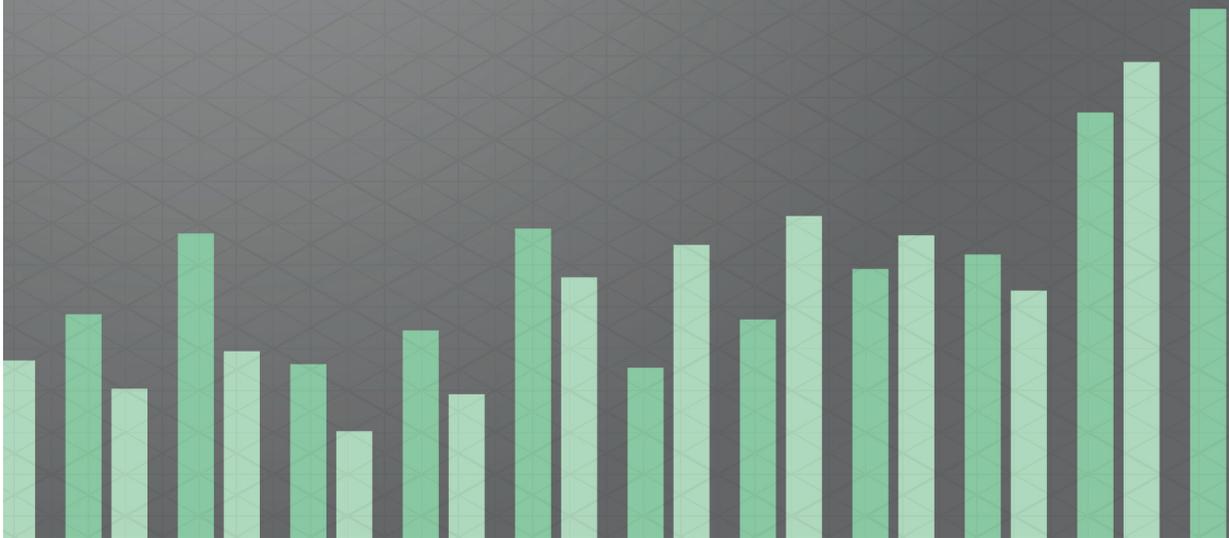




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BIRT Analytics



Administering BIRT Analytics

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Contents

About Administering BIRT Analytics	iii
---	------------

Part 1

Administering the BIRT Analytics system

Chapter 1

Using BIRT Analytics Administration	3
--	----------

About BIRT Analytics Administration	4
Accessing BIRT Analytics Administration	4
Understanding BIRT Analytics Administration	4
Configuring security	5
Managing security roles	6
Managing access control lists (ACL) over database objects	8
Managing security filters	11
Managing profiles	13
Reviewing application logs	15
Defining sensitive data	16
Synchronizing the application database	17
Removing temporary information	18
Defining password policy	18
Configuring users	19
Configuring groups	21
Configuring system options	22
Map management	23
Styles admin	24
Configure SMTP server	25
Monitoring use	26

Chapter 2

Configuring BIRT Analytics	29
---	-----------

About the configuration files	30
Configuration of ProtonWS	30
Configuration of BIRT Analytics Application	32
Configuration of BIRT Analytics Administration	38
Configuration of BIRT Analytics Client	39
Configuration of BIRT Analytics FastDB (dubnium)	40

Part 2

Administering BIRT Analytics reference

Chapter 3

Administering BIRT Analytics functional reference	47
--	-----------

Administering BIRT Analytics functional reference	48
General	48
Administration	50
Administration	50
Access control list (ACL)	51
Configuration	52
Folders	52

Functionalities	53
Groups	53
Integrity	53
Profile	54
Roles	54
Users	55
Analysis	55
Analysis	55
Bubble diagram	56
Calculate Pareto	56
Crosstab	57
Evolution diagram	57
Gallery	57
Map diagram	57
Profile	58
Venn diagram	58
Data exploration	59
Engine security	59
Engineering	60
Engineering	60
Edit engineering fields	61
Events and Alerts	62
Actions	62
Import-Export	63
Links	64
Plug-ins	64
Plug-ins	64
Cworkflow	65
Campaign management	65
Campaign planning	67
Configure CWorkflow	67
Events and Alerts	69
Data Mining	69
Algorithms	69
Preprocesses	70
Preferences	71
Statistics	71
Index	73

A b o u t A d m i n i s t e r i n g B I R T A n a l y t i c s

Administering BIRT Analytics includes the following chapters:

- *About Administering BIRT Analytics*. Provides an overview of this book.
- *Part 1. Administering the BIRT Analytics system*. Describes the general features of the BIRT Analytics Administration application and related operational tasks.
- *Chapter 1. Using BIRT Analytics Administration*. Describes BIRT Analytics administration modules, such as security, users, groups, configuration, and monitoring.
- *Chapter 2. Configuring BIRT Analytics*. Describes the configuration files used by the different applications in the BIRT Analytics system.
- *Part 2. Administering BIRT Analytics reference*. Provides reference information on BIRT Analytics administration modules and terminology.
- *Chapter 3. Administering BIRT Analytics functional reference*. Describes the functionalities that the administrator uses to configure permissions in the security role management module in BIRT Analytics Administration.

Part One

Administering the BIRT Analytics system

1

Using BIRT Analytics Administration

This chapter contains the following topics:

- About BIRT Analytics Administration
- Configuring security
- Configuring users
- Configuring groups
- Configuring system options
- Monitoring use

About BIRT Analytics Administration

The following sections describe the modules available in the BIRT Analytics Administration application and provide information on how to configure the system.

Accessing BIRT Analytics Administration

BIRT Analytics Administration runs as a browser-based application. After installation, the administrator opens a browser and connects to the administration application by typing the following URL:

```
http://localhost/qadmin
```

On initial access, the administrator logs in to the application by typing the user name, SYSTEM, and the default password, PASSWORD, as shown in Figure 1-1. The administrative user, SYSTEM, has full permission to modify all configurable features of the BIRT Analytics system.

The image shows a web browser window displaying the login page for BIRT Analytics Administration. On the left side, the text 'ACTUATE.' is at the top, followed by 'BIRT ANALYTICS' and 'ADMIN' below it. On the right side, there is a 'Login:' label above a text input field containing the text 'SYSTEM'. Below that is a 'Password:' label above another text input field filled with dots. At the bottom of the form is a blue button labeled 'Sign in'.

Figure 1-1 BIRT Analytics Administration login

Actuate recommends changing the administrator password immediately after accessing the system to maintain security. For security reasons, Actuate also recommends that all users, including the administrator, log out of the system before closing any BIRT Analytics application.

Understanding BIRT Analytics Administration

The main options list in the BIRT Analytics Administration application contains the following modules, as shown in Figure 1-2:

- Security
Manage a security role, access control list (ACL), database object, security filter, profile, application log, data audit, database synchronization, remove temporary file information, and specify password policy.
- User management
Create, modify, or delete a user account.
- Groups management
Create, modify, or delete a group. A group is a set of users belonging to the same organizational unit who share the same permissions for performing tasks.
- Configuration
Configure settings used in document generation, such as map management and report styles, and Simple Mail Transfer Protocol (SMTP) e-mail transmission.
- Monitoring use
Manage connections, track disk usage for temporary files, and monitor use of the BIRT Analytics tool on database objects.

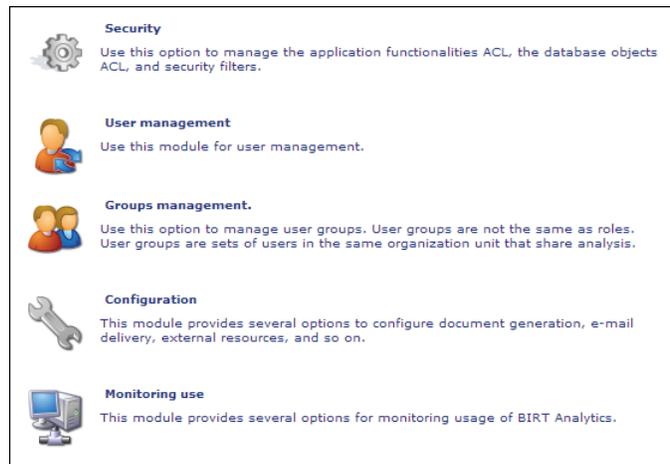


Figure 1-2 BIRT Analytics Administration options

Configuring security

The Security module allows the administrator to manage security roles, access to objects, specify security filters, define password policies, browse logs, synchronize the database, specify password policies, and perform other security maintenance actions.

This module contains the following options, as shown in Figure 1-3:

- **Security role management**
Create, modify, or delete a security role and configure permissions in the BIRT Analytics system.
- **Access permissions on objects**
Create, modify, or delete a security group or access control list (ACL), and manage privileges over database objects.
- **Security filters**
Create, modify, or delete a security filter to limit the access to data stored in the database.
- **Profiles**
Create, modify, or delete a profile, which is a set of roles, security groups, and security filters assigned to a user.
- **Application Log**
Browse application log data to monitor system performance and troubleshoot problems.
- **Define sensitive data**
Specify sensitive data columns for audit.
- **Synchronize**
Synchronize the application database with the BIRT Analytics Engine repository.
- **Remove temporary information**
Remove all temporary files and records used by the application.
- **Password policies**
Define the rules to use in specifying a user password.

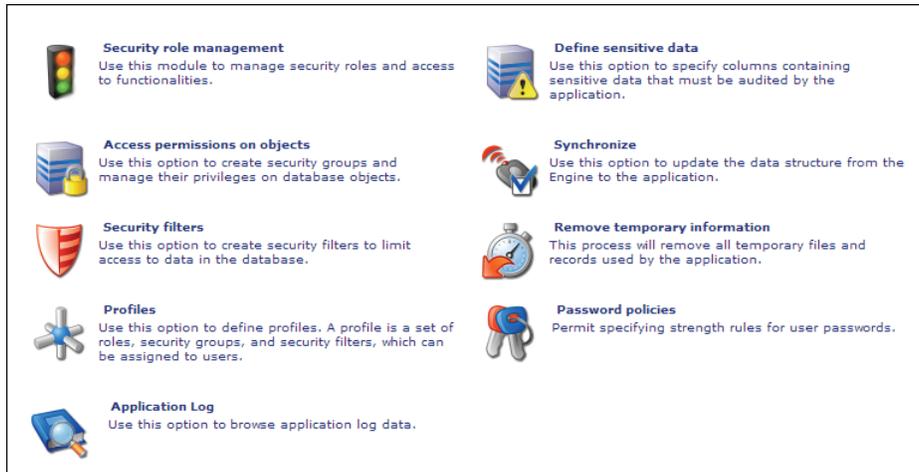


Figure 1-3 BIRT Analytics security options

The following sections provide more information on these security options.

Managing security roles

The Security role management option allows the administrator to create, modify, or delete a security role and configure permissions in the BIRT Analytics system. This option provides the following choices:

- **Create**
Choose Create to define a new role. In New role, specify the role name, provide a description, and select the functionalities or privileges to grant to the role. In Functionalities, select + to expand a functional category. Select the higher-level category to include all elements, or select individual elements in the category list to configure a more restricted subset of privileges, as shown in Figure 1-4. Choose OK to add the role to the list of current roles.

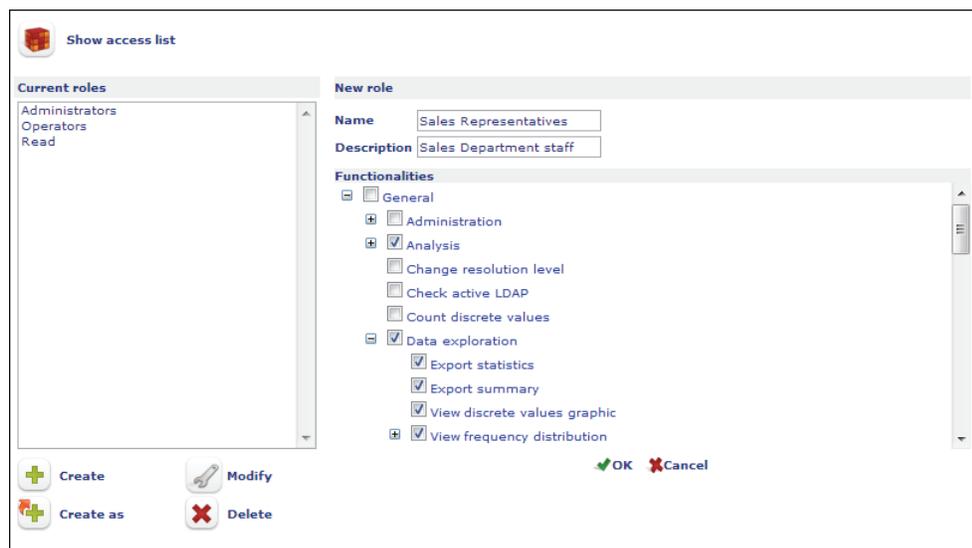


Figure 1-4 Creating a role

- **Create As**
In Current roles, select an existing role, then choose Create As to define a new role containing the settings specified for an existing role. Create As copies the functionalities defined for the existing role to the new role definition. In Create As, specify the role name,

provide a description, and select any additional functionalities or privileges to grant to the new role, as shown in Figure 1-5.

In Functionalities, select + to expand a functional category. Select the higher-level category to include all elements, or select individual elements in the category list to configure a more restricted subset of privileges. Choose OK to add the role to the list of current roles.

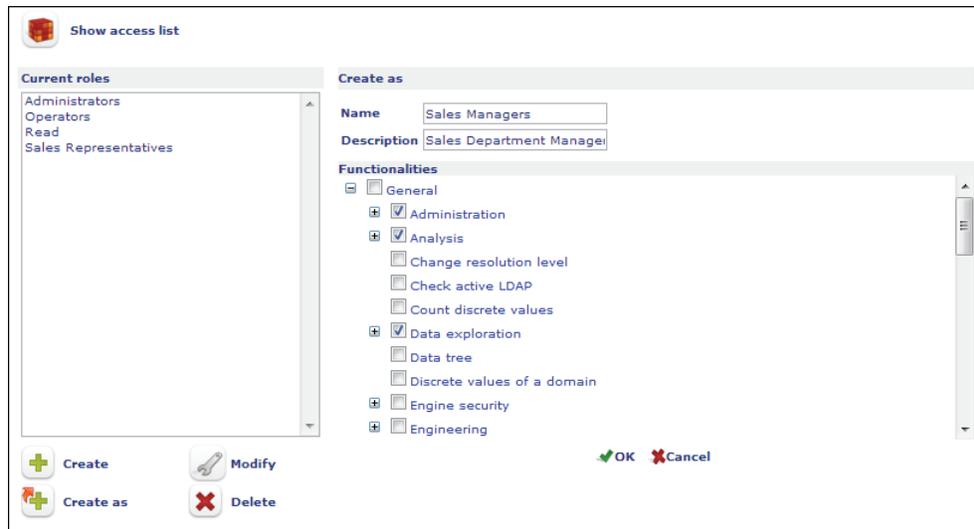


Figure 1-5 Using Create As to create a role

- **Modify**

In Current roles, select an existing role, then choose Modify to change the settings specified for the existing role. In Updating role, update the role name or description, and select any additional functionalities or privileges to grant to the role, as shown in Figure 1-6. For example, after upgrading a license to support a new plug-in, such as Campaign Workflow (Cworkflow), enable the module by assigning the functionality to a security role. Choose OK to update the role.

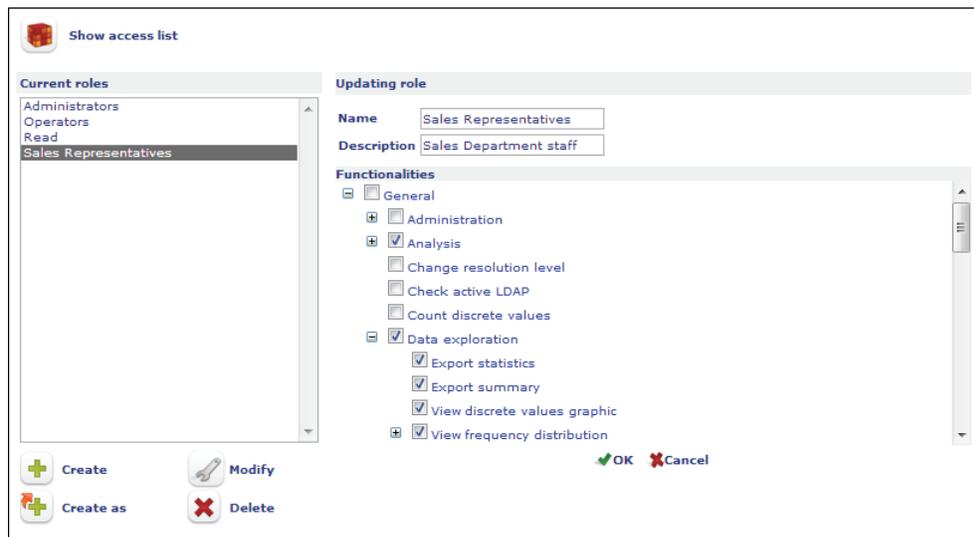


Figure 1-6 Modifying an existing role

- **Delete**

In Current roles, select an existing role, then choose Delete to remove a role from the list of current roles. In Deleting role, the name, description, and list of functionalities appears, as shown in Figure 1-7. Choose OK to confirm deleting the role from the list of current roles.

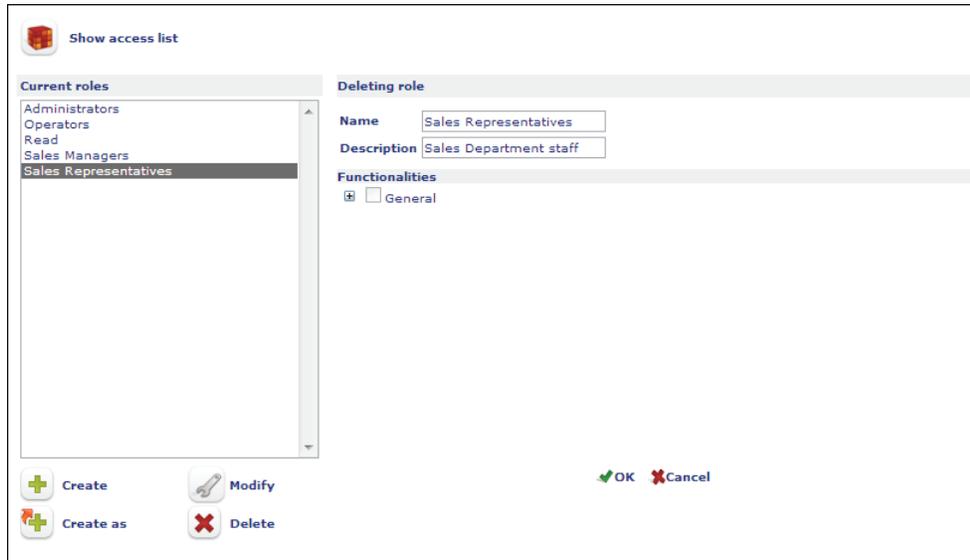


Figure 1-7 Deleting a role

- Show Access List

Choose Show Access List to show the list of groups and users and their associated functionalities or privileges in a separate viewer, as shown in Figure 1-8. This list provides the administrator with quick access to the list of functionalities defined for each group and user in the BIRT Analytics system. Close the viewer after reviewing the information.

Group	User	General	Read configuration setting	Insert a new configuration setting	Prepare saved Pivot table for execution	Load data from a folder
Administrators	SYSTEM	+	+	+	+	+
Administrators	DOSHIRO	+	+	+	+	+
Administrators	Actuate1	+	+	+	+	+
Administrators	Actuate2	+	+	+	+	+
Administrators	Actuate3	+	+	+	+	+
Administrators	Actuate5	+	+	+	+	+
Administrators	Actuate6	+	+	+	+	+
Administrators	Actuate7	+	+	+	+	+
Administrators	Actuate8	+	+	+	+	+
Administrators	Actuate9	+	+	+	+	+
Administrators	Actuate4	+	+	+	+	+

Figure 1-8 Viewing the role access list

Managing access control lists (ACL) over database objects

The Access permissions on objects option allows the administrator to create, modify, or delete a security group or access control list (ACL) and manage privileges for database objects. This option provides the following choices:

- Create

Choose Create to define a new group. In New group, specify the group name and provide a description, as shown in Figure 1-9. Choose OK to add the group to the list of current groups.

- Create As

In Current groups, select an existing group, then choose Create As to define a new group containing the settings, including the name, description, and list of data objects specified for the existing group. Create As copies the settings defined for the existing group to the new group definition. In Create As, specify the group name and provide a description, as shown in Figure 1-10.

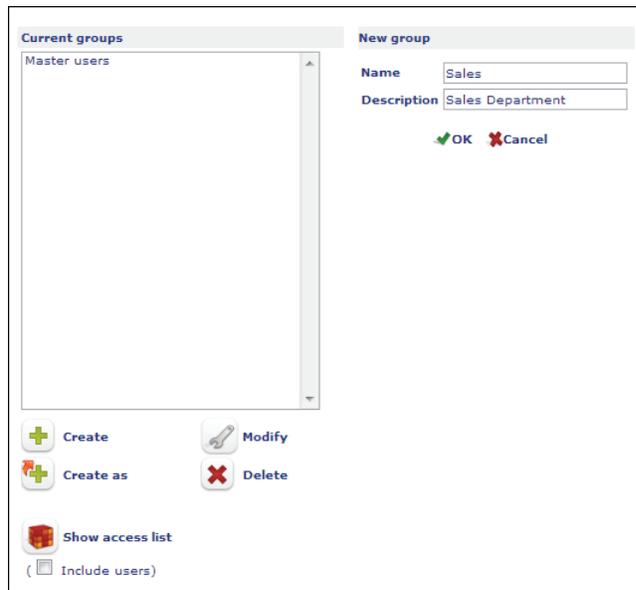


Figure 1-9 Creating a group

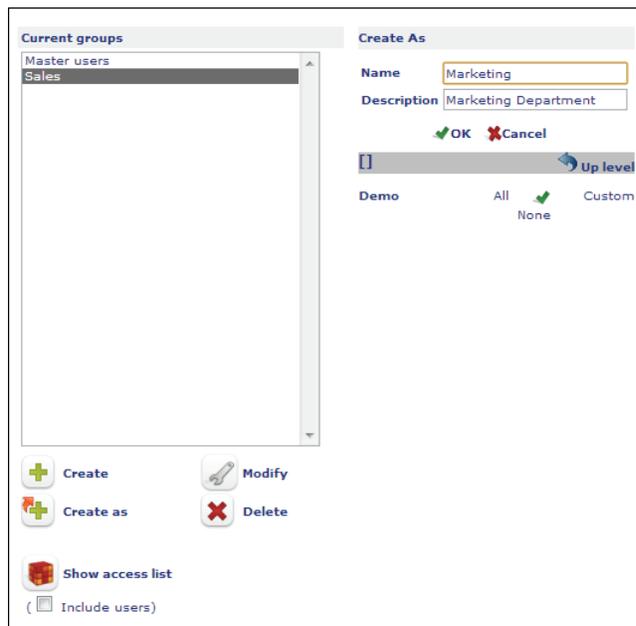


Figure 1-10 Using Create As to create a group

- **Modify**

In Current groups, select an existing group, then choose Modify to change the settings specified for an existing group. In Updating group, update the group name or description and grant access to database objects by choosing All, None, or a Custom.

In the list of data objects, choosing All grants full access to objects in the database. Choosing None, the default setting, restricts access to all database objects. Choose Custom to specify limited access to individual database tables and columns, as shown in Figure 1-11. Choose OK to update the group.

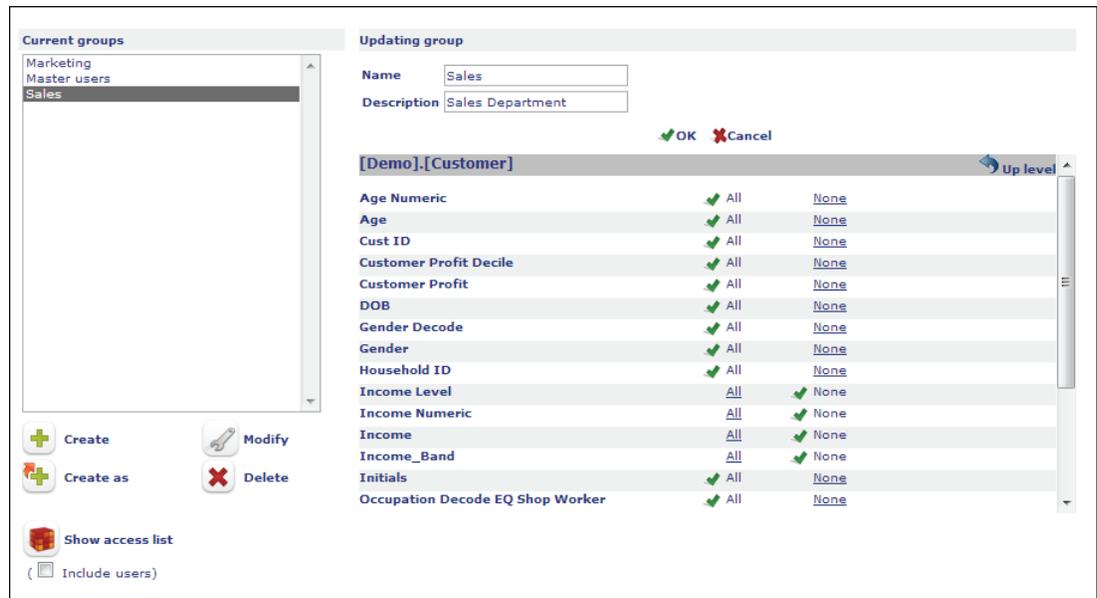


Figure 1-11 Modifying an existing group

- Delete

In Current groups, select an existing group, then choose Delete to remove a group from the list of current groups. In Deleting group, the name, description, and list of data objects appears, as shown in Figure 1-12. Choose OK to confirm deleting the group from the list of current groups.

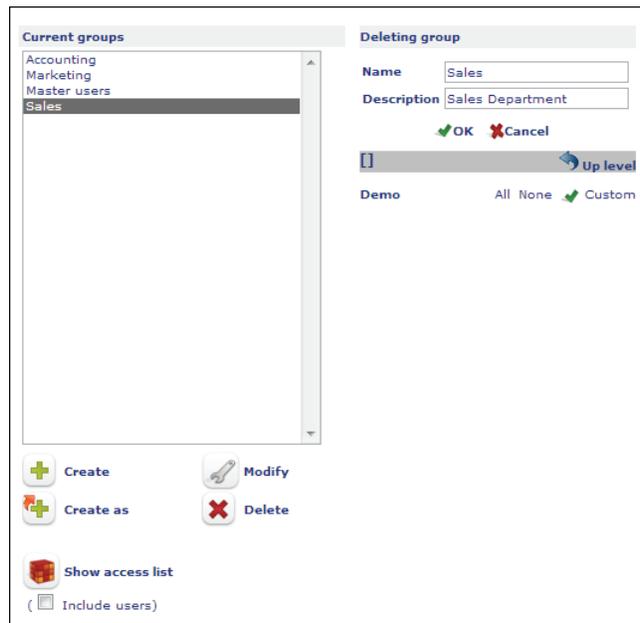


Figure 1-12 Deleting a group

- Show Access List

Choose Show Access List and, optionally, select Include users, to show the list of groups and associated users with data object privileges in a separate viewer, as shown in Figure 1-13. This list provides the administrator with quick access to the list of data object privileges defined for each group and user in the BIRT Analytics system. The viewer displays columns to which a group or user has no access in red. Close the viewer after reviewing the information.

Group	User	Demo										
		Age	Age Numeric	Cust ID	Customer Profit	Customer Profit Decile	DOB	Gender	Gender Decode	Household ID	Income	Income Level
Master users	Actuate1	+	+	+	+	+	+	+	+	+	+	+
Master users	Actuate2	+	+	+	+	+	+	+	+	+	+	+
Master users	Actuate3	+	+	+	+	+	+	+	+	+	+	+
Master users	Actuate4	+	+	+	+	+	+	+	+	+	+	+
Master users	Actuate5	+	+	+	+	+	+	+	+	+	+	+
Master users	Actuate6	+	+	+	+	+	+	+	+	+	+	+
Master users	Actuate7	+	+	+	+	+	+	+	+	+	+	+
Master users	Actuate8	+	+	+	+	+	+	+	+	+	+	+
Master users	Actuate9	+	+	+	+	+	+	+	+	+	+	+
Master users	DOSHIRO	+	+	+	+	+	+	+	+	+	+	+
Master users	SYSTEM	+	+	+	+	+	+	+	+	+	+	+

Figure 1-13 Viewing the group access list

Managing security filters

The Security filters option allows the administrator to create, modify, or delete a security filter and specify a NetScaler Web Logging (NSWL) query to control access to data. NetScaler Web Logging tracks HTTP data traffic and writes information to a log file in a standard format.

This option provides the following choices:

- Create

Choose Create to define a new security filter. In New security filter group, specify the name, provide a description, and type a query in the edit panel, such as the following example:

```
select # from [Demo].[Household]
  where [Demo].[Household].[Town]='LONDON';
```

The query must conform to the following syntactical rules:

- The letters in the SELECT command must be all uppercase (SELECT) or all lowercase (select)
- Objects names, such as columns and tables, are case sensitive
- The wildcard parameter is #
- Only a simple query is supported

Figure 1-14 shows the Create security filter definition.

Choose Test query to validate the query. If valid, the application displays the number of registers obtained and adds the query. Choose OK to add the security filter to the list of current groups.

Figure 1-14 Creating a security filter

- Create As

In Current groups, select a security filter, then choose Create As to define a new filter containing the settings specified for the existing filter. In Create As, specify the name, provide a description, and modify the query in the edit panel, as shown in Figure 1-15. Choose Test query to validate the query. If valid, the application displays the number of registers obtained and adds the query. Choose OK to add the security filter to the list of current groups.

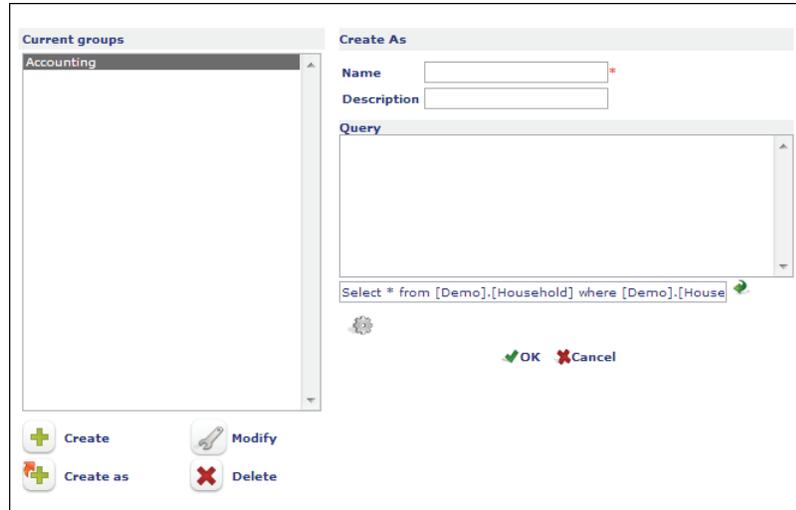


Figure 1-15 Using Create As to create a security filter

- **Modify**

In Current groups, select an existing filter, then choose Modify to change the settings specified for an existing filter. In Updating group, specify the name, provide a description, and modify the query in the edit panel, as shown in Figure 1-16.

Choose Test query to validate the query. If valid, the application displays the number of registers obtained and adds the query to the query list. Choose OK to add the security filter to the list of current groups.

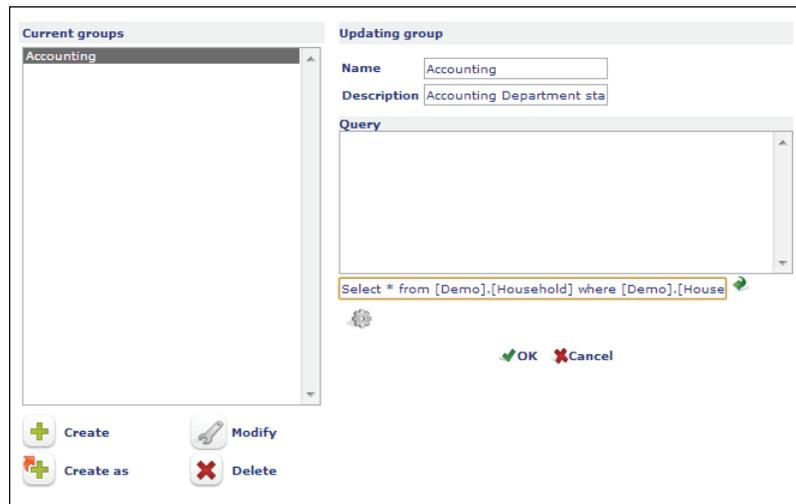


Figure 1-16 Modifying an existing security filter

- **Delete**

In Current groups, select an existing filter, then choose Delete to remove a filter from the list. In Deleting filter, the name, description, and query filter appears, as shown in Figure 1-17. Choose OK to confirm deleting the filter from the list of current groups.

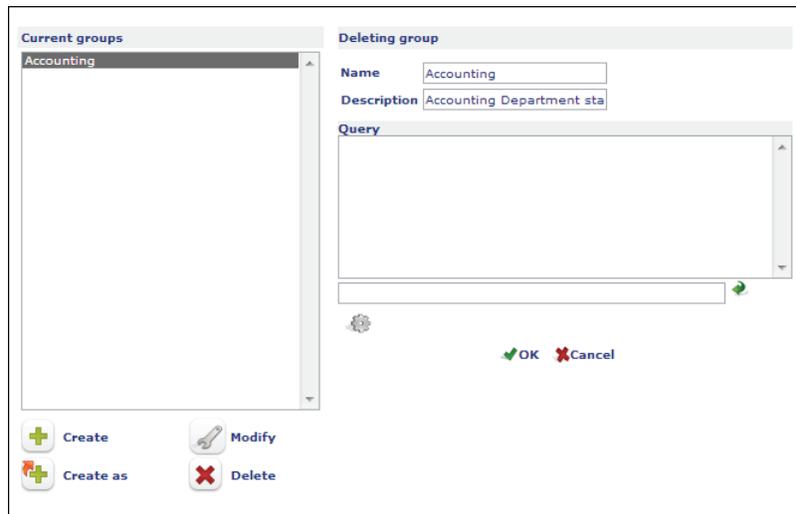


Figure 1-17 Deleting a security filter

Managing profiles

The Profiles option allows the administrator to create, modify, or delete a profile, and select roles, security groups, security filters, and users to add to the profile. This option provides the following choices:

- Create

Choose Create to define a new profile. In New profile, specify the profile name, provide a description, and select the roles, security groups, security filters, and users to add to the profile, as shown in Figure 1-18.

If BIRT Analytics security uses an LDAP server, LDAP group also appears. If LDAP group is visible, the administrator can link the profile to a group defined in the LDAP server. If a user belongs to an LDAP group, the BIRT Analytics user inherits the privileges and restrictions from the LDAP group profile. When using LDAP, it is not necessary to select any users since the list of users is linked to the LDAP group.

Choose OK to add the profile to the list of current profiles.

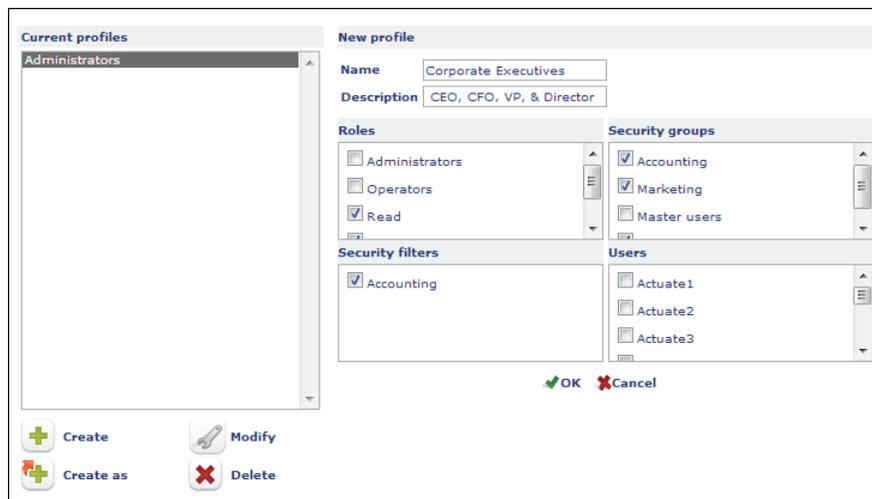


Figure 1-18 Creating a profile

- Create As

In Current profiles, select an existing profile, then choose Create As to define a new profile containing the settings specified for an existing profile. In New profile as, specify the profile name, provide a description, and select the roles, security groups, security filters, and users to add to the profile, as shown in Figure 1-19. Choose OK to add the profile to the list of current profiles.

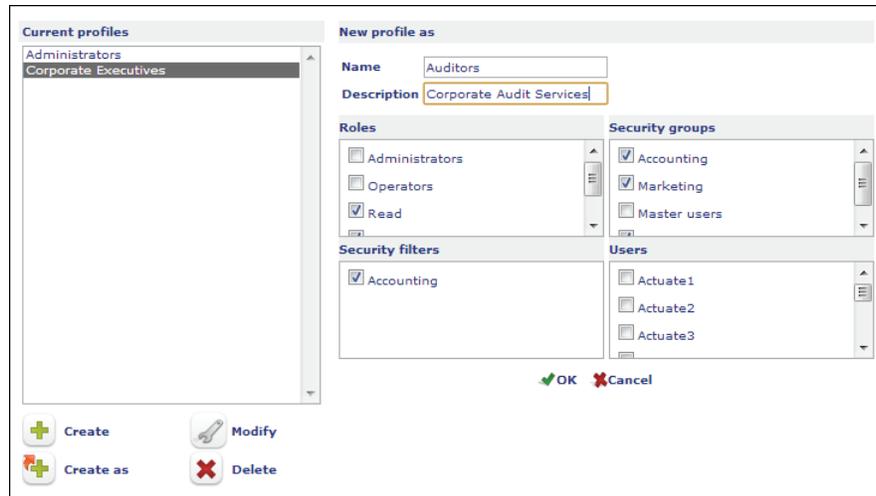


Figure 1-19 Using New profile as to define a new profile

- Modify

In Current profiles, select an existing profile, then choose Modify to change the settings specified for an existing profile. In Updating profile, update the name, description, and select any additional roles, security groups, security filters, or users to add to the profile, as shown in Figure 1-20. Choose OK to add the profile to the list of current profiles.

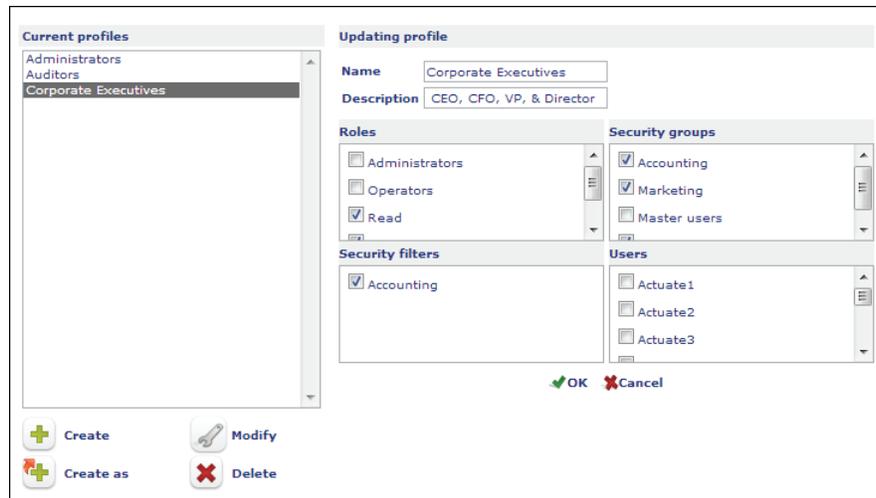


Figure 1-20 Modifying an existing profile

- Delete

In Current profiles, select an existing profile, then choose Delete to remove a profile from the list. In Deleting profile, the name, description, and list of roles, security groups, security filters, or users appear, as shown in Figure 1-21. Choose OK to confirm deleting the profile from the list of current profiles.

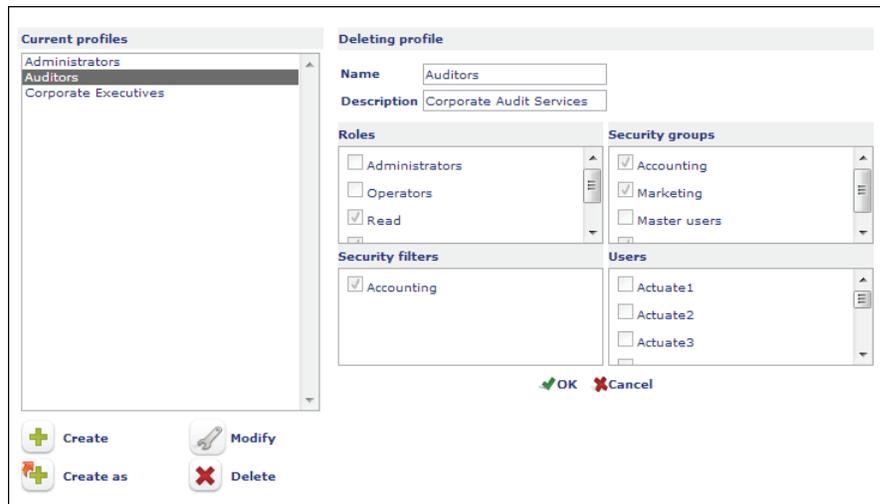


Figure 1-21 Deleting a profile

Reviewing application logs

The Application log option allows the administrator to browse log data to monitor system performance and troubleshoot problems. The option provides the following choices, as shown in Figure 1-22:

- **Type**
Select one of the following events to filter log data:
 - **Fatal**
Serious Error that disables the execution of the application.
 - **Error**
Error that occurs during the execution of a specific action which does not allow the application to perform a corrective action
 - **Warning**
Incident or non-fatal error detected while performing an action.
 - **Info**
General information regarding application processing activity.
 - **Debug**
Problem-tracking information used by the administrator for troubleshooting system issues.
 - **Audit**
Security-related information regarding processing activity specified for audit or special tracking.
 - **Sensitive Data**
Information regarding processing activity on data designated as sensitive.
- **User**
Search the log to find all entries related to the specified user. There is no need to indicate the complete name because the search finds all entries containing the specified character string in any part of the name.
- **Message**
Search log to find all entries containing the character string specified in the Message field.

- Starting date and Ending date
Limit log searches to a range of dates.

Figure 1-22 Searching the application log

The query results contain the following information, as shown in Figure 1-23:

- ID**
Unique log identifier
- Type**
Type of error message: Fatal, Error, Warning, Info, Debug, Audit, or SensitiveData
- Date**
Log entry date
- Time**
Log entry time
- User**
User to whom the log entry relates
- Component**
BIRT Analytics application component that generated the entry
- Method**
BIRT Analytics application method that caused the log entry
- GUID**
Graphic user identifier for tracking the log entry
- IP**
IP address of the client that caused the log entry
- Message**
Error or informational message written to the log

ID	Type	Date	Time	User	Component	Method	Guid	IP	Message
185	Error	11/20/2012	10:15:14 AM	Actuate1	AltApplication.DataBase.Analytical	GetDiscreteValues	d7346d1e-25d9-4a0d-87fe-0e24638ad60c		<exception id="71441885-2285-484c-8b62-2c7b53e9a25f"><code>2</code><message>Engine exception, Microsoft.VisualBasic.CompilerServices.Symbols.Container.InvokeMethod(Method TargetProcedure, Object[] TypeArguments, Boolean[] CopyBack) at AltWebService.BaseWS.RunRequestMethod(String pvStrData, String pName="idient">1</param><param name="user">actuate1</param><param name="password">1234</param></param><param name="page">1</param><param name="pagesize">100</param><param name="
184	Error	11/20/2012	10:14:40 AM	Actuate1	AltApplication.DataBase.Analytical	GetDiscreteValues	3af66c7b-8ec3-466c-b210-b5b875a36c3a		<exception id="f8ed086c-e743-491c-b78d-dfc793d487ac"><code>2</code><message>Engine exception, Microsoft.VisualBasic.CompilerServices.Symbols.Container.InvokeMethod(Method TargetProcedure, Object[] TypeArguments, Boolean[] CopyBack) at AltWebService.BaseWS.RunRequestMethod(String pvStrData, String pName="idient">1</param><param name="user">actuate1</param><param name="password">1234</param></param><param name="page">1</param><param name="pagesize">100</param><param name="
183	Error	11/20/2012	10:14:30 AM	Actuate1	AltApplication.DataBase.Analytical	GetDiscreteValues	32dd94a0-78eb-463c-a44e-fb04f96836b5		<exception id="b5249243-0f0c-4098-8932-e9d16d6b7218"><code>2</code><message>Engine exception, Microsoft.VisualBasic.CompilerServices.Symbols.Container.InvokeMethod(Method TargetProcedure, Object[] TypeArguments, Boolean[] CopyBack) at AltWebService.BaseWS.RunRequestMethod(String pvStrData, String pName="idient">1</param><param name="user">actuate1</param><param name="password">1234</param></param><param name="page">1</param><param name="pagesize">100</param><param name="sort

Figure 1-23 Viewing application log data

Defining sensitive data

The Sensitive data option allows the administrator to specify which data to audit when tracking user read and update activities. Audit tracking records the following information:

- User who accessed the data

- Date and time the access occurred
- Data read or updated

To specify data for audit, select the following:

- Databases
- Tables
- Columns

Select a column and choose the right arrow icon to move the column to Sensitive columns. In Sensitive columns, select a column and choose the left arrow to move a column out of Sensitive columns, as shown in Figure 1-24.

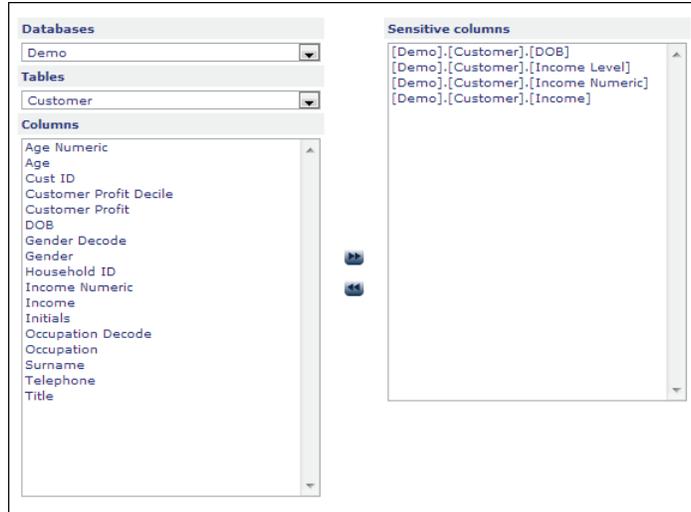


Figure 1-24 Specifying sensitive data

Synchronizing the application database

The Synchronize option allows the administrator to update the application database to contain the most recent changes in the BIRT Analytics Engine repository. Execute this option after making a change in the analytical repository that alters the database structure, such as the addition, modification, or deletion of a column, table, or other data object.

The Synchronize option displays the following warning:

WARNING: The synchronization process deletes the database and replaces it with the database structure in the Engine. All outdated links between security groups and objects are removed.

Choose Synchronize to update the application database with the BIRT Analytics Engine repository, as shown in Figure 1-25. The message, Synchronization has finished successfully, appears when the process is complete.



Figure 1-25 Synchronizing the application database

Removing temporary information

A temporary file is a temporary data file generated by the BIRT Analytics application. The Remove temporary information option allows the administrator to remove all temporary files and records used by the application to return disk and memory resources to the system. Use this option to refresh the cache after performing analytical calculations that contain obsolete data.

The Remove temporary information option displays the following warning:

WARNING: This process will remove all temporary files and records used by the application. This action may affect any users that are working in BIRT Analytics right now.

Choose Remove temporary information to remove all temporary files and records used by the application, as shown in Figure 1-26. The message, Process has finished successfully, appears when the process is complete.



Figure 1-26 Removing temporary information

Defining password policy

The Password policies option allows the administrator to define rules to use in specifying a user password. The option provides the following choices, as shown in Figure 1-27:

- Password policies
Select any of the following items to define password policies:
 - It must contain at least one lowercase letter
 - It must contain at least one uppercase letter
 - It must include at least one of these characters:
_, -, !, ., \$, %, (,), =, |, @, #, €, *, ~, ", ", ., " "
 - It must include at least one number
 - Password length has to be greater than 6 characters
 - Password length has to be greater than 8 characters
 - Password length has to be greater than 10 characters
- Expiration
Specify the password expires in a number of days.
- Active Directory security enabled
Specify the following Active Directory items when enabling this security type:
 - Active Directory server connection path
 - Domain
 - Domain user
 - Password

To enable Active Directory security, perform the following steps:

- Create a common user in both the BIRT Analytics and Active Directory environments. The user in BIRT Analytics must have precisely the same credentials as the corresponding user in the Active Directory.
- Provide the user with access to all functionalities in BIRT Analytics.

- Specify Password Policies and Active Directory connection information.
- Test access to BIRT Analytics with the user credentials.
- Link the existing profiles with the Active Directory groups to coordinate automatic user management between the LDAP server and BIRT Analytics system.

Choose Save to implement the password policy changes.

Figure 1-27 Configuring password policies

Configuring users

The User management module allows the administrator to create, modify, or delete a user account. In the BIRT Analytics environment, managing users in the BIRT Analytics Administration application does not change the configuration of corresponding objects if the system security is integrated with an Active Directory system.

This option provides the following choices:

- Create
 - Choose Create to define a new user. In Creating user, specify the following settings, as shown in Figure 1-28:
 - Login
 - Unique user ID
 - Password
 - Password that conforms to password policies specifications
 - Name
 - User name
 - Language
 - Local language settings specified for the BIRT Analytics application environment
 - Theme
 - Presentation theme specified for the user application
 - User type
 - Admin, Power, Explorer, or Viewer user type
 - Expiration date
 - Date to deactivate user account
 - Active
 - Activates or deactivates the user account without removing the user configuration from system

- Last password change
Records last time user changed password
- Must change password at next login
Requires user to change password on next logon
- Email
User e-mail address

Choose OK to add the user to the list of current users.

Figure 1-28 Creating a user

- Modify
In Current users, select an existing user, then choose Modify to change the settings specified for an existing user. In Modifying user, update any of the settings specified in the previous Create user section, as shown in Figure 1-29. Choose OK to add the modified user to the current users list.

Figure 1-29 Modifying a user

- Delete
In Current users, select an existing user, then choose Delete to remove the user from the list of current users. In Deleting user, the settings for the selected user appears, as shown in Figure 1-30. Choose OK to confirm deleting the user from the current user list.

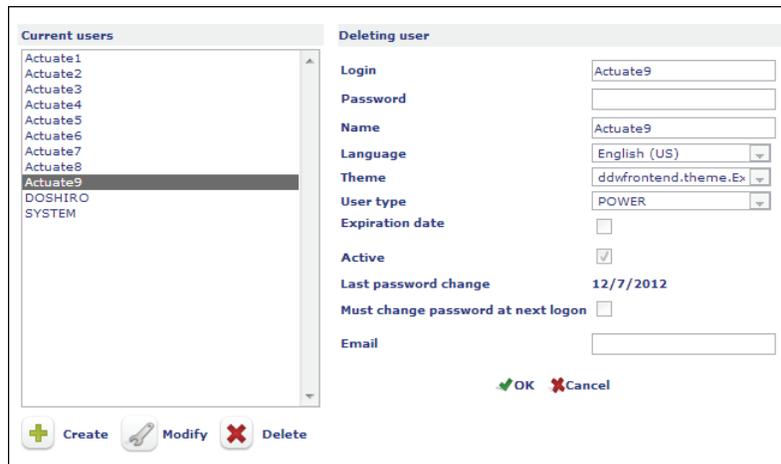


Figure 1-30 Deleting a user

Configuring groups

The Groups management module allows the administrator to create, modify, or delete a group. This option provides the following choices:

- Create

Choose Create to define a new group. In New group, specify the following settings, as shown in Figure 1-31:

- Name
Group name.
- Description
Relevant description of group function or purpose.
- Users
List of BIRT Analytics users. Select any user in the Users list to add to the group.

Choose OK to add the group to the current groups list.

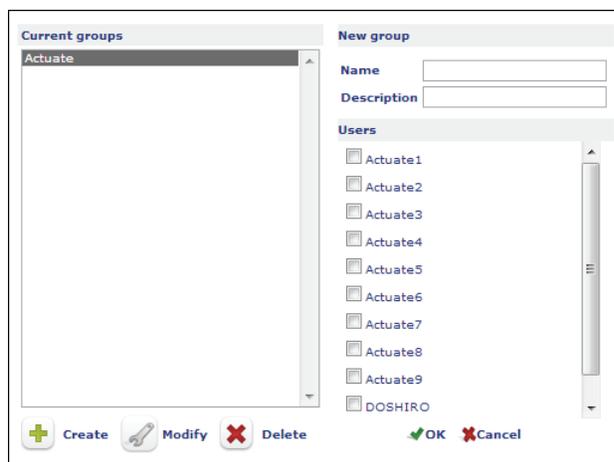


Figure 1-31 Creating a BIRT Analytics group

- **Modify**
 In Current groups, select an existing group, then choose Modify to change the group settings specified for an existing group. In Updating group, select any user listed in the Users list to add to the group, as shown in Figure 1-32. Choose OK to add the group to the current groups list.

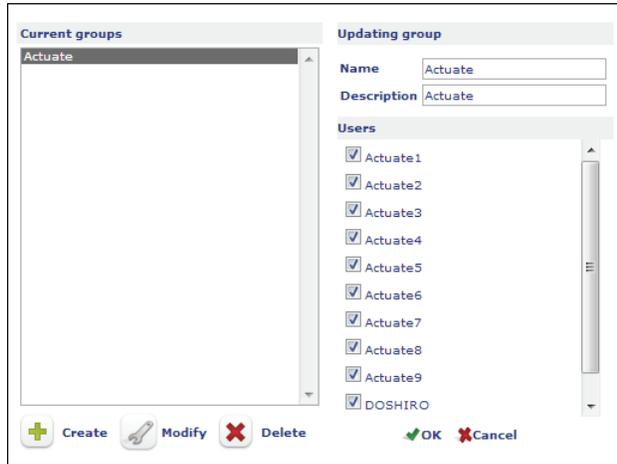


Figure 1-32 Modifying a BIRT Analytics group

- **Delete**
 In Current groups, select an existing group, then choose Delete to remove the group from the Current groups list. In Deleting group, the settings for the selected group appears, as shown in Figure 1-33. Choose OK to confirm deleting the group from the current groups list.

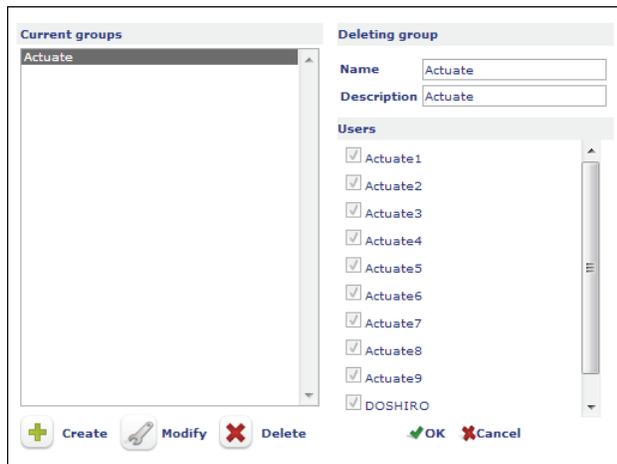


Figure 1-33 Deleting a BIRT Analytics group

Configuring system options

The Configuration module allows the administrator to specify settings used in document generation, such as map management and report styles, and SMTP e-mail transmission. This module contains the following options, as shown in Figure 1-34:

- **Map management**
 Manage SVG files used by maps in the BIRT Analytics tool.

- **Styles admin**
Manage Rich Text Format (RTF) styles for reports generated by the BIRT Analytics tool.
- **Configure SMTP server**
Specify the Simple Mail Transfer Protocol (SMTP) configuration used for sending e-mail notifications.

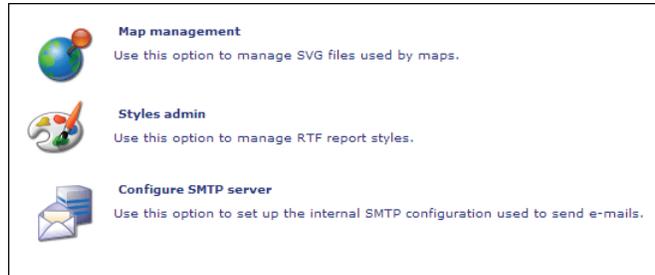


Figure 1-34 BIRT Analytics system options

Map management

The Map management module allows the administrator to upload, explore, or delete a Scalable Vector Graphics (SVG) map. This module allows the administrator to manage server folders that provide reference maps in the analysis module. This option provides the following choices:

- **Create**
Choose Create to upload an SVG map file to the BIRT Analytics system. In Upload SVG, choose Choose File. Using Windows Explorer, navigate to the SVG map file, select it, and choose Open. The uploaded SVG file name appears in the Upload SVG file specification, as shown in Figure 1-35.

Choose OK to add the map to the current files list. The map management module verifies that the file is an SVG file. If the image is a valid SVG file, the file name appears in the list. The list shows the file name in uppercase letters without the SVG file extension.

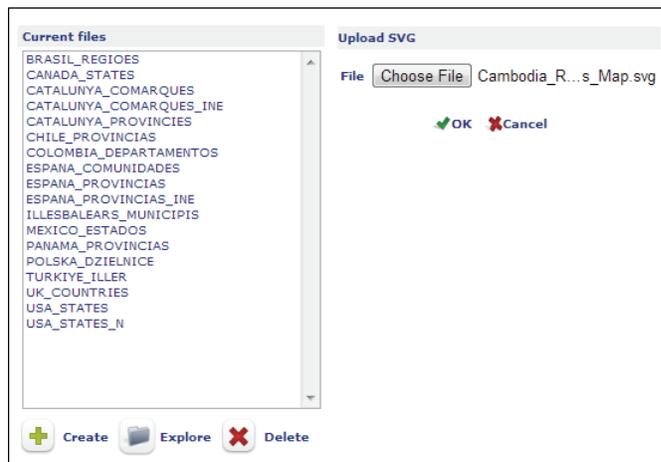


Figure 1-35 Uploading a map

- **Explore**
In Current files, select an existing map, then choose Explore to view the image. The SVG image appears in Explore SVG, as shown in Figure 1-36. This option only allows the administrator to view an image, not modify the file specification. Choose OK to return to the current files list.

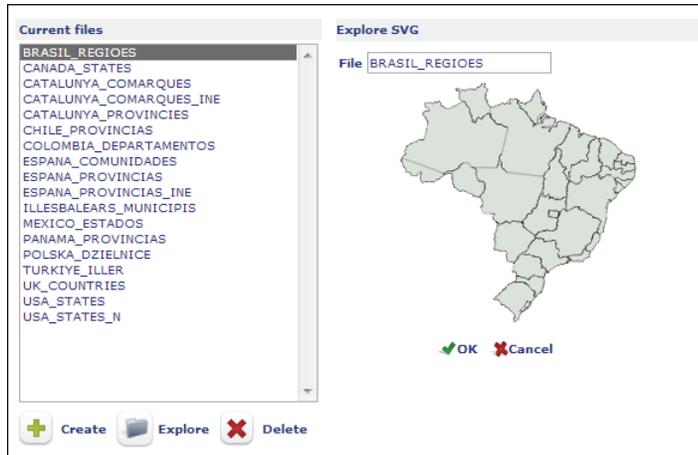


Figure 1-36 Exploring a map

- Delete

In Current files, select an existing file, then choose Delete to remove the map from the list of current files. The SVG image and file name appear in Remove SVG, as shown in Figure 1-37. Choose OK to confirm deleting the map from the list of current files.



Figure 1-37 Deleting a map

Styles admin

The Styles admin module allows the administrator to manage Rich Text Format (RTF) styles for reports generated by the BIRT Analytics tool. This option provides the following choices:

- Title

Select Font to specify a font, such as Arial or Verdana, and type a numeric value in Size to specify the size for a report title, as shown in Figure 1-38.

- Margins

Type numeric values in Left, Right, Top, and Bottom to specify the margin settings for report content, as shown in Figure 1-38.

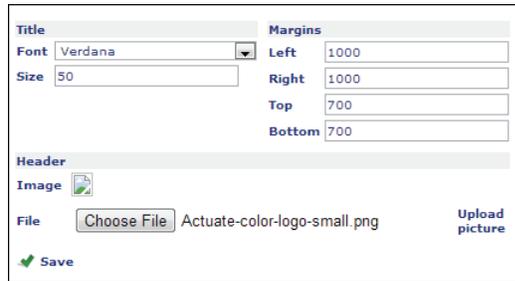


Figure 1-38 Managing style settings

- Header

Choose the Choose File option to add an image to the report header. The image file must be in either PNG or JPG format. Using Windows Explorer, navigate to the image file, select it, and choose Open. The uploaded image file name appears in the Header file specification, as shown in Figure 1-38. Choose Upload picture to upload the image to the BIRT Analytics system.

Choose Save to save the modified style settings.

Configure SMTP server

The Configure SMTP server module allows the administrator to specify the settings for the Simple Mail Transfer Protocol (SMTP) server used for sending e-mail notifications. To configure an SMTP server, specify the following settings:

- Server
Name of the server
- Port
Port at which the server listens on the network
- User
BIRT Analytics system user name
- Password
BIRT Analytics system user password
- Requires SSL
Select to specify whether the SMTP service uses a Secure Sockets Layer (SSL), a commonly used protocol for managing message transmission security on the internet

Figure 1-39 shows a typical configuration. Choose Save to save the SMTP server settings.



Figure 1-39 Configuring SMTP server settings

Monitoring use

The Monitoring use module allows the administrator to manage a connection, track disk usage for temporary files, and monitor use of the BIRT Analytics tool on database objects, as shown in Figure 1-40.

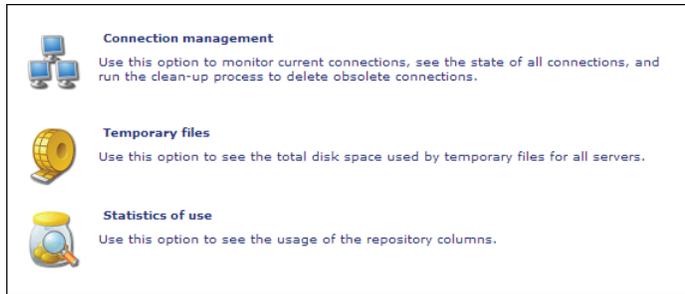


Figure 1-40 BIRT Analytics monitoring options

The module contains the following options:

- **Connection management**
Monitors the state of existing servers and connections, and run the clean-up process to delete obsolete connections, as shown in Figure 1-41. The server and connection icons indicate whether a component is functioning and available. Choose Refresh to update connection information.

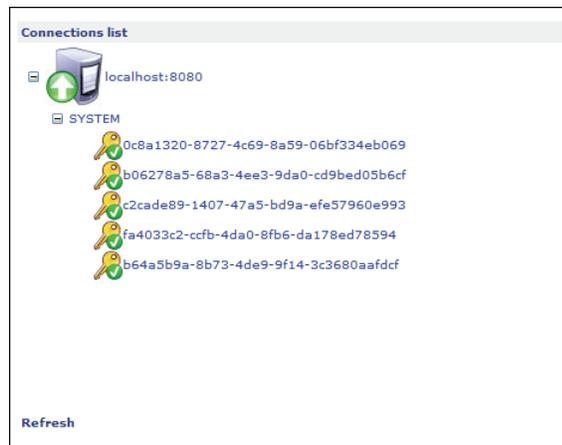


Figure 1-41 Viewing monitoring servers and connections

- **Temporary files**
Provides the following information on the disk space used by temporary files on all servers, as shown in Figure 1-42:
 - **Temp folder**
File space used for analytical calculations
 - **Export folder**
File space used during data export operations
 - **Import folder**
File space used during data import operationsChoose Refresh to update temporary file information.

Servers list	
Temp folder	1.98 Mb
Export folder	1.17 Kb
Import folder	1.69 Mb
Servers list	
Refresh	

Figure 1-42 Viewing temporary files server and folder lists

- Statistics of use

Provides information on data column use. The administrator can use these statistics to analyze what data columns have the highest and lowest access rates to optimize data queries. This module provides the following filters, as shown in Figure 1-43:

- Object

Searches only for actions performed on columns in which the object name coincides partially with the value inserted in this field

- User

Searches only for actions performed on columns by the specified user

- Start and End dates

Limits search to specified date range

- Actions done over columns

Searches only for actions selected in the following category list:

- Unknown
- Meta-information
- Direct exploration
- Engineering
- Analysis
- Import/Export
- Links
- Administration
- Indirect exploration

Choose Search to generate the statistics, displaying the object name and number of times the data has been accessed during the specified time range.

Choose Export to download the statistics to a comma-separated values (CSV) file.

The results of a query are shown in a page format listing 15 items per page. The results are sorted using the following criteria, as shown in Figure 1-43:

- Descending order based on the number of actions performed on a column
- Ascending order based on the name of the object

Select filters

Object User

Start date ... End date ...

Actions performed on a column

Unknown
 Meta-information
 Direct exploration
 Engineering
 Analysis
 Import / Export
 Links
 Administration
 Indirect exploration

Page 1 of 7

Object	Number
[Demo].[Customer].[Age Numeric]	215
[Demo].[Customer].[Age]	215
[Demo].[Customer].[Gender]	190
[Demo].[Customer].[Gender Decode]	180
[Demo].[Customer].[Cust ID]	176
[Demo].[Customer].[DOB]	174
[Demo].[Customer].[Household ID]	173
[Demo].[Customer].[Income]	172
[Demo].[Customer].[Customer Profit]	171
[Demo].[Customer].[Occupation]	169
[Demo].[Customer].[Surname]	167
[Demo].[Customer].[Customer Profit Decile]	165
[Demo].[Customer].[Income Numeric]	164
[Demo].[Customer].[Initials]	164
[Demo].[Customer].[Occupation Decode]	164

Figure 1-43 Viewing statistics using a filter

Configuring BIRT Analytics

This chapter contains the following topics:

- About the configuration files
- Configuration of ProtonWS
- Configuration of BIRT Analytics Application
- Configuration of BIRT Analytics Administration
- Configuration of BIRT Analytics Client
- Configuration of BIRT Analytics FastDB (dubnium)

About the configuration files

This chapter describes the configuration files used by the applications in the BIRT Analytics system. The administrator can edit these configuration files to adjust an application to the particular requirements of a production environment.

Configuration of ProtonWS

ProtonWS is a web application that interacts directly with the analytical engine. This component publishes the web services that provide access and perform repository management.

After installing the ProtonWS application, the administrator can access the configuration.xml file in the following folder in a default Windows installation to change the configuration:

```
C:\Program Files (x86)\Apache Software Foundation\Tomcat 7.0\webapps
  \protonws\WEB-INF\settings
```

In a Linux installation, the default location for the configuration.xml file is the following folder:

```
/usr/share/tomcat6/webapps/protonws/WEB-INF/settings
```

Listing 2-1 shows the default code for the Windows version of configuration.xml.

Listing 2-1 ProtonWS configuration.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<configuration>
  <cacheFolder>
    C:\\Program Files\\Actuate\\BIRTAnalytics\\Proton\\CacheFolder
  </cacheFolder>
  <importFolder>
    C:\\Program Files\\Actuate\\BIRTAnalytics\\Proton\\ImportFolder
  </importFolder>
  <exportFolder>
    C:\\Program Files\\Actuate\\BIRTAnalytics\\Proton\\ExportFolder
  </exportFolder>
  <iWorkflowFolder>
    C:\\Program Files\\Actuate\\BIRTAnalytics\\Proton
    \\iworkflowfolder
  </iWorkflowFolder>
  <IporName>127.0.0.1</IporName>
  <port>8105</port>
  <sslPort>5555</sslPort>
  <ignoreDangerous>>false</ignoreDangerous>
  <secure>>false</secure>
  <maxConnection>5</maxConnection>
  <maxPoolEntries>5</maxPoolEntries>
  <maxPageSizeReadingTransactionsForAssociationRuleAnalysis>
    1000
  </maxPageSizeReadingTransactionsForAssociationRuleAnalysis>
  <maxTransactionsAllowedForAssociationRuleAnalysis>
    10000000
  </maxTransactionsAllowedForAssociationRuleAnalysis>
  <maxItemsAllowedForAssociationRuleAnalysis>
    10000000
  </maxItemsAllowedForAssociationRuleAnalysis>
  <maxRulesAllowedForAssociationRuleAnalysis>
    1000
  </maxRulesAllowedForAssociationRuleAnalysis>
  <campaignWorkflowRetryWaitTimeInSeconds>
```

```

    20
    </campaignWorkflowRetryWaitTimeInSeconds>
    <campaignWorkflowRetryMaxAttempts>3</campaignWorkflowRetryMaxAttempts>
</configuration>

```

Table 2-1 lists the ProtonWS configuration.xml parameters shown in the code listing and describes their function.

Table 2-1 ProtonWS configuration.xml parameters

Parameter	Description
cacheFolder	Location of the folder used temporarily by the application to cache data during a data retrieval process. The user running the process must have permission to write to this location.
importFolder	Location of the folder used temporarily by the application during an import process. The user running the process must have permission to write to this location.
exportFolder	Location of the folder used temporarily by the application during an export process. The user running the process must have permission to write to this location.
iWorkflowFolder	Location of the folder used temporarily by the application for workflow processing. The user running the process must have permission to write to this location.
IporName	Internet Protocol (IP) address or logical name of the analytical engine process, which by default is localhost or 127.0.0.1.
port	Port where the analytical engine listens, which by default is 8105.
sslPort	Secure Sockets Layer (SSL) port where the analytical engine listens, which by default is 8106.
ignoreDangerous	Ignore SSL errors. Specify true or false. Default is false.
secure	Use Secure Sockets Layer (SSL) security to access the analytical engine. Specify true or false. Default is false.
user	Administrator username for establishing a connection to the analytical engine.
pwd	Administrator password for establishing a connection to the analytical engine.
maxConnection	Maximum number of active connections by an application to the analytical engine. An open connection to the engine is not considered in use until the application initiates an action.
maxPoolEntries	Maximum connections that an application can keep open to the analytical engine. This value can be the same or more than the connections specified by maxConnection and the same or less than the number of connections accepted by the analytical engine.
maxPageSizeReading TransactionsForAssociation RuleAnalysis	Maximum pages for reading transactions in association rule analysis that an application can keep open to the analytical engine. Default is 10000.

(continues)

Table 2-1 ProtonWS configuration.xml parameters (continued)

Parameter	Description
maxTransactionsAllowedForAssociationRuleAnalysis	Maximum transactions allowed for association rule analysis that an application can keep open to the analytical engine. Default is 10000000.
maxItemsAllowedForAssociationRuleAnalysis	Maximum items allowed for association rule analysis that an application can keep open to the analytical engine. Default is 10000000.
maxRulesAllowedForAssociationRuleAnalysis	Maximum rules allowed for association rule analysis that an application can keep open to the analytical engine. Default is 1000.
campaignWorkflowRetryWaitTimeInSeconds	The amount of time that ProtonWS waits before trying again to append records to the campaign history or response table in the event a lock exists on the table.
campaignWorkflowRetryMaxAttempts	Maximum number of times that ProtonWS can try to append records to the campaign history or response table in the event a lock exists on the table. If the lock is not released after the maximum retries occurs, then an exception is thrown advising the user to try again later.

Configuration of BIRT Analytics Application

BIRT Analytics Application is the web application that contains business logic and handles communication between the client application and the BIRT Analytics engine system.

After installing BIRT Analytics Application, the administrator can access the web.config file in the following folder in a default Windows installation to change the configuration:

```
C:\inetpub\wwwroot\qelectron
```

The configurable parameters for BIRT Analytics Application are in the <appSettings> section of the web.config file. Listing 2-2 shows the <appSettings> code.

Listing 2-2 BIRT Analytics Application <appSettings> code

```
...
<appSettings>
  <add key="DefaultLanguage" value="en_UK" />
  <!-- connectiontype={0=MySQL|1=SQLServer|2=Oracle|3=OleDb|4=ODBC
    |5=SQLite} -->
  <add key="connectiontype" value="1" />
  <!-- MS-SQL 2005 Express-->
  <add key="connectionstring" value="zGxdUg1TjeroigtDUPIvmS7r/T9kjfvk
    /MD3se+kUZqhSSwwXg2cQYrbCf2QK2NC/G7bN9zvxQU=" />
  <add key="languageFile" value="C:\\inetpub\\wwwroot\\qelectron
    \\Languages.xml" />
  <add key="defaultclient" value="-1" />
  <add key="xmlclassdictionary" value="C:\\inetpub\\wwwroot\\qelectron
    \\XMLClassDictionary.xml" />
  <add key="xmlpluginclassdictionary" value="C:\Program Files\
    Actuate\BIRTAnalytics\Electron\PluginClassDictionary.xml" />
  <add key="cachestore" value="C:\Program Files\Actuate
    \BIRTAnalytics\Electron\CacheStore" />
  <add key="ExportStore" value="C:\Program Files\Actuate
    \BIRTAnalytics\Electron\ExportStore" />
  <add key="OutboxStore" value="C:\Program Files\Actuate
    \BIRTAnalytics\Electron\OutboxStore" />
  <add key="ViewerStore" value="C:\Program Files\Actuate
```

```

    \BIRTAanalytics\Electron\ViewerStore" />
<!-- rows per page-->
<add key="ViewerRPP" value="100" />
<add key="MapStore" value="C:\Program Files\Actuate\BIRTAanalytics
  \Electron\Maps" />
<add key="WSLongTimeOut" value="3600000" />
<add key="internallanguagefile" value="C:\Program Files\Actuate
  \BIRTAanalytics\Electron\languages\Languages.xml" />
<!-- XSL -->
<add key="gridXsl" value="C:\\inetpub\\wwwroot\\qelectron\\xsl
  \Grid.xsl" />
<add key="graphXsl" value="C:\\inetpub\\wwwroot\\qelectron\\xsl
  \Grid_Graph.xsl" />
<add key="discreteGraphXsl" value="C:\\inetpub\\wwwroot\\qelectron
  \xsl\Discrete_Graph.xsl" />
<add key="msGraphXsl" value="C:\\inetpub\\wwwroot\\qelectron\\xsl
  \Grid_MsGraph.xsl" />
<add key="bblGraphXsl" value="C:\\inetpub\\wwwroot\\qelectron\\xsl
  \Bubble_MsGraph.xsl" />
<add key="ExportCSVXsl" value="C:\\inetpub\\wwwroot\\qelectron\\xsl
  \Export_CSV.xsl" />
<add key="ExportAssociationRulesXsl" value="C:\\inetpub\\wwwroot
  \qelectron\xsl\ExportAssociationRules.xsl" />
<add key="ExportHTMLXsl" value="C:\dev\dubnium\Electron\AltFrontEnd
  \AltFrontEnd\xsl\Export_HTML.xsl" />
<add key="frequencyXsl" value="C:\\inetpub\\wwwroot\\qelectron\\xsl
  \Frequency.xsl" />
<add key="summaryTableXsl" value="C:\\inetpub\\wwwroot\\qelectron
  \xsl\summary.xsl" />
<add key="ExportProfileXsl" value="C:\\inetpub\\wwwroot\\qelectron
  \xsl\Export_profile.xsl" />
<add key="SortValidColumnsXsl" value="C:\\inetpub\\wwwroot\\qelectron
  \xsl\SortValidColumns.xsl" />
<add key="RTFStyle" value="C:\Program Files\Actuate
  \BIRTAanalytics\Electron\style\rtfStyle.xml" />
<add key="viewerChartStyle" value="C:\dev\dubnium\Electron
  \AltWebService\style\viewerChartStyle.xml" />
<add key="ExportDiscreteCSVXsl" value="C:\\inetpub\\wwwroot
  \qelectron\xsl\ExportDiscrete_CSV.xsl" />
<add key="WdFunnelXsl" value="C:\\inetpub\\wwwroot\\qelectron\xsl
  \Funnel.xsl" />
<!-- IMG -->
<add key="vennImgFolder" value="C:\\inetpub\\wwwroot\\qelectron
  \VennImg" />
<add key="rtfImgHeader" value="C:\Program Files\Actuate
  \BIRTAanalytics\Electron\img" />
  <add key="importfolder" value="C:\Program Files\Actuate
  \BIRTAanalytics\Electron\ImportFolder" />
<add key="filelines" value="5" />
<add key="AltFrontEnd_ChartImage_URI" value="../ChartImage.aspx" />
<add key="logconnectiontype" value="1" />
<add key="logconnectionstring" value="zGxdUg1TjeroiqtDUpIvmS7r
  /T9kjfvk/MD3se+kUZqhSSwwXg2cQYrbCf2QK2NC/G7bN9zvxQU=" />
<!-- currentLogLevel:
  Fatal = 0
  [Error] = 1
  Warning = 2
  Info = 3
  Debug = 4
-->
<add key="currentLogLevel" value="1" />
<add key="AuditAllowed" value="0" />
<add key="DAU" value="NKPjRqPrhr4=" />
<add key="DAP" value="1VIIEzTM+TfYevps7kSYIA==" />

```

```

    <add key="FileTransferPage" value="http://localhost:8080/protonws
/FileTransfer.jsp" />
    <add key="columnsStatistics" value="1" />
    <add key="analysisStatistics" value="0" />
    <add key="DDWCronServiceName" value="DDW Cron service" />
    <add key="lcontrol"..." />
</appSettings>

```

Table 2-2 lists these BIRT Analytics Application web.config parameters and describes their function.

Table 2-2 BIRT Analytics Application web.config parameters

Parameter	Description
DefaultLanguage	Default language for the application.
connectiontype	Database connection type used by the application. For example, a connection type value =1 specifies SQL Server. The installation process sets this value. Actuate does not recommend changing this parameter.
connectionstring	Database connection details used by the application, such as the connection type and other data required by the database. The installation process sets this value. Actuate does not recommend changing this parameter.
languageFile	Path where the file containing the languages settings for the application are located.
Defaultclient	Type of application to use depending on the type of web services used by the client. This parameter is for internal use only. Actuate does not recommend changing this parameter.
xmlclassdictionary	Method and class path to call when executing application logic. This parameter is for internal use only. Actuate does not recommend changing this parameter.
xmlpluginclassdictionary	XML file containing references to additional plug-in modules to call when executing application logic. This file is similar to xmlclassdictionary.
cachestore	Folder to use as the container for temporary cache files generated by the application. When changing this parameter, the administrator must make sure that the application has permission to write to the new folder. The information stored in this folder is encrypted for security reasons.
ExportStore	Folder to use as the container for temporary export files generated by the application. When changing this parameter, the administrator must make sure that the application has permission to write to the new folder.
ViewerStore	Folder to use as the container for temporary viewer files generated by the application. When changing this parameter, the administrator must make sure that the application has permission to write to the new folder.
MapStore	Folder to use as the container for SVG files used by the application for map representations. When changing this parameter, the administrator must make sure that the application has permission to write to the new folder.

Table 2-2 BIRT Analytics Application web.config parameters (continued)

Parameter	Description
WSLongTimeOut	Maximum number of milliseconds permitted for a web service response. BIRT Analytics Application maintains constant communication with the ProtonWS service using web services. This parameter is for internal use only. Actuate does not recommend changing this parameter.
gridXsl	Internal folder used for manipulating XML in grid processing. This parameter is for internal use only. Actuate does not recommend changing this parameter or the XSL.
graphXsl	Internal folder used for manipulating XML in graph processing. This parameter is for internal use only. Actuate does not recommend changing this parameter or the XSL.
discreteGraphXsl	Internal folder used for manipulating XML in discrete graph processing. This parameter is for internal use only. Actuate does not recommend changing this parameter or the XSL.
msGraphXsl	Internal folder used for manipulating XML in Microsoft graph processing. This parameter is for internal use only. Actuate does not recommend changing this parameter or the XSL.
bblGraphXsl	Internal folder used for manipulating XML in bubble graph processing. This parameter is for internal use only. Actuate does not recommend changing this parameter or the XSL.
ExportCSVXsl	Internal folder used for manipulating XML in CSV export processing. This parameter is for internal use only. Actuate does not recommend changing this parameter or the XSL.
ExportAssociationRulesXsl	Internal folder used for manipulating XML in association rules export processing. This parameter is for internal use only. Actuate does not recommend changing this parameter or the XSL.
ExportHTMLXsl	Internal folder used for manipulating XML in HTML export processing. This parameter is for internal use only. Actuate does not recommend changing this parameter or the XSL.
frequencyXsl	Internal folder used for manipulating XML in frequency graph processing. This parameter is for internal use only. Actuate does not recommend changing this parameter or the XSL.
summaryTableXsl	Internal folder used for manipulating XML in summary table processing. This parameter is for internal use only. Actuate does not recommend changing this parameter or the XSL.

(continues)

Table 2-2 BIRT Analytics Application web.config parameters (continued)

Parameter	Description
ExportProfileXsl	Internal folder used for manipulating XML in export profile processing. This parameter is for internal use only. Actuate does not recommend changing this parameter or the XSL.
SortValidColumnsXsl	Internal folder used for manipulating XML in sorting valid column processing. This parameter is for internal use only. Actuate does not recommend changing this parameter or the XSL.
RTFStyle	XML that contains the basic parameter specifications for modifying styles used during the generation of RTF.
viewerChartStyle	XML that contains the basic parameter specifications for modifying styles used during the generation of viewer charts.
ExportDiscreteCSVXsl	Internal folder used for manipulating XML in exporting discrete graph CSV. This parameter is for internal use only. Actuate does not recommend changing this parameter or the XSL.
WdFunnelXsl	Internal folder used for manipulating XML in funnel graph processing. This parameter is for internal use only. Actuate does not recommend changing this parameter or the XSL.
vennImgFolder	Path where the files containing Venn graph representations are located. The GIF files can be edited to alter the colors, but do not change other settings, such as the area size or canvas.
rtfImgHeader	Path where the report header image is stored.
importfolder	Folder where files are stored temporarily during import processing. When modifying the import path, make sure that the application has permission to write to this location.
Filelines	Obsolete.
AltFrontEnd_ChartImage_URI	This parameter is for internal use only. Actuate does not recommend changing this parameter.
logconnectiontype	Database connection type used by the event register manager. For example, a connection type value =1 specifies SQL Server. The installation process sets this value. Actuate does not recommend changing this parameter.
logconnectionstring	Database connection details used by the event register manager. such as the connection type and other data required by the database. The installation process sets this value. Actuate does not recommend changing this parameter.

Table 2-2 BIRT Analytics Application web.config parameters (continued)

Parameter	Description
currentLogLevel	<p>Parameter used by the event register manager to determine the logging level for events. The values, names, and descriptions for each level are:</p> <ul style="list-style-type: none"> ■ 0 for Fatal Serious error that blocked execution of the application ■ 1 for Error Isolated non-fatal error that occurred during a specific action ■ 2 for Notice Alert about an incident detected during a specific action ■ 3 for Information General informative messages ■ 4 for Debug Technical information regarding the execution of a specific action useful for troubleshooting <p>The event types, Audit and SensitiveData, are not affected by this parameter.</p>
AuditAllowed	<p>Parameter used to indicate to the event register manager whether to audit an event. The system records the user, action, and date. Actuate recommends activating this parameter in a production environment by setting AuditAllowed=1.</p>
DAU	<p>Administrator username used to establish a connection to the analytical engine. This parameter is required during the installation process.</p>
DAP	<p>Administrator password used to establish a connection to the analytical engine. This parameter is required during the installation process.</p>
FileTransferPage	<p>URL of the file transfer page used for downloading the ProtonWS data stream.</p>
columnsStatistics	<p>Boolean parameter indicating whether to accumulate statistical information on column usage.</p>
ExportAssociationRulesXsl	<p>Internal folder for manipulating XML. Actuate does not recommend changing this parameter.</p>
analysisStatistics	<p>Indicates whether to perform usage statistics analysis. Specify true or false. Default is false.</p>
DDWCronServiceName	<p>Name of service used for engine management events.</p>
Lcontrol	<p>License data that specifies the following restrictions:</p> <ul style="list-style-type: none"> ■ Number of active users in the database ■ Number of configured engines in the farm ■ Name of the server where an installation is done <p>Exceeding any restriction causes the application to throw a fatal exception and fail to start.</p>

Configuration of BIRT Analytics Administration

BIRT Analytics Administration is a web application that the administrator uses to configure the system. After installing this application, the administrator can access the web.config file in the following folder in a default Windows installation to change the configuration:

```
C:\inetpub\wwwroot\qadmin
```

The configurable parameters for BIRT Analytics Administration are in the <appSettings> section of the web.config file. Listing 2-3 shows the <appSettings> code.

Listing 2-3 BIRT Analytics Administration <appSettings> code

```
...
<appSettings>
  <add key="languageFile" value="C:\\inetpub\\wwwroot\\qadmin
    \\Languages.xml" />
  <add key="apptitle" value="BIRT Analytics - Admin" />
  <add key="WSLongTimeOut" value="3600000" />
  <add key="MaxFileSize" value="5242880" />
  <add key="logconnectiontype" value="1" />
  <add key="logconnectionstring" value="zGxdUg1TjeroigtDUpIvmS7r/T9kj
    fvk/MD3se+kUZqhSSwwXg2cQYrbCf2QK2NC/G7bN9zvXQU=" />
  <add key="connectionstring" value="zGxdUg1TjeroigtDUpIvmS7r/T9kj
    fvk/MD3se+kUZqhSSwwXg2cQQh17SjShTj01KojUaxNLdc=" />
  <!-- currentLogLevel:
    Fatal = 0      [Error] = 1
    Warning = 2    Info = 3    Debug = 4-->
  <add key="currentLogLevel" value="1" />
  <add key="AuditAllowed" value="1" />
</appSettings>
```

Table 2-3 lists these BIRT Analytics Administration web.config parameters and describes their function.

Table 2-3 BIRT Analytics Administration web.config parameters

Parameter	Description
languageFile	Path specifying the location of the file containing the local language translations for user interface labels used in the application.
apptitle	BIRT Analytics Administration application title appearing on every page of the application.
WSLongTimeOut	Maximum number of milliseconds permitted for a web service response. BIRT Analytics Administration maintains constant communication with the ProtonWS service using web services. This parameter is for internal use only. Actuate does not recommend changing this parameter.
MaxFileSize	Maximum file size in bytes permitted when uploading a file to the server. This size can also be limited by the attribute maxRequestLength for the label httpRuntime in the web.config file.
logconnectiontype	This parameter is for internal use only. Actuate does not recommend changing this parameter.
logconnectionstring	Database connection details used by the event register manager. such as the connection type and other data required by the database. The installation process sets this value. Actuate does not recommend changing this parameter.

Table 2-3 BIRT Analytics Administration web.config parameters

Parameter	Description
currentLogLevel	<p>Parameter used by the event register manager to determine the logging level for events. The values, names, and descriptions for each level are:</p> <ul style="list-style-type: none"> ■ 0 for Fatal Serious error that blocked execution of the application ■ 1 for Error Isolated non-fatal error that occurred during a specific action ■ 2 for Notice Alert about an incident detected during a specific action ■ 3 for Information General informative messages ■ 4 for Debug Technical information regarding the execution of a specific action useful for troubleshooting <p>The event types, Audit and SensitiveData, are not affected by this parameter.</p>
AuditAllowed	<p>Parameter used to indicate to the event register manager whether an event is to be audited. The system records the user, action, and date. Actuate recommends activating this parameter in a production environment by setting AuditAllowed=1.</p>

Configuration of BIRT Analytics Client

BIRT Analytics Client is a web application that an end user uses to interact with the BIRT Analytics system. After installing this application, the administrator can access the web.config file in a default Windows installation in the following folder to make changes to the configuration:

C:\inetpub\wwwroot\qfrontend

The configurable parameters for BIRT Analytics Client are in the <appSettings> section of the web.config file. Listing 2-4 shows the <appSettings> code.

Listing 2-4 BIRT Analytics Client <appSettings> code

```

...
<appSettings>
  <add key="languageFile" value="C:\\inetpub\\wwwroot\\qfrontend
    \\bin\\Languages.xml" />
  <add key="FrontendLanguageFile" value="Languages.xml" />
  <add key="AltFrontEnd_Client_URI" value="client/main.aspx" />
  <add key="AltFrontEnd_CSS" value="client/resource/css" />
  <add key="WSLongTimeOut" value="3600000" />
  <add key="MaxFileSize" value="5242880" />
  <add key="SessionTimeOut" value="72000000" />
  <add key="lcontrol" value="..." />
  <add key="saveimages" value="saves" />
  <add key="save_uri" value="" />
  <add key="DefaultHelpLanguage" value="en_US" />
  <add key="ElectronFileTransfer" value="http://localhost/qelectron
    /filetransfer.aspx" />
  <add key="VennFontFamily" value="Arial" />
</appSettings>

```

Table 2-4 list these BIRT Analytics Client web.config parameters and describes their function.

Table 2-4 BIRT Analytics Client web.config parameters

Parameter	Description
languageFile	Path specifying the location of the file containing the local language translations for user interface labels in the client application.
FrontendLanguageFile	Path specifying the location of the file containing the local language translations for user interface labels in the qfrontend application.
AltFrontEnd_Client_URI	This parameter is for internal use only. Actuate does not recommend changing this parameter.
AltFrontEnd_CSS	This parameter is for internal use only. Actuate does not recommend changing this parameter.
WSLongTimeOut	Maximum number of milliseconds permitted for a web service response. BIRT Analytics Administration maintains constant communication with the ProtonWS service using web services. This parameter is for internal use only. Actuate does not recommend changing this parameter.
MaxFileSize	Maximum file size in bytes permitted when uploading a file to the server. This size can also be limited by the attribute maxRequestLength for the label httpRuntime in the web.config file.
SessionTimeOut	Maximum user session time in milliseconds. The system disconnects the user automatically when this time elapses.
Icontrol	This parameter is for internal use only. Actuate does not recommend changing this parameter.
saveimages	This parameter is for internal use only. Actuate does not recommend changing this parameter.
save_uri	This parameter is for internal use only. Actuate does not recommend changing this parameter.
DefaultHelpLanguage	Default language for help. If no help is available in the user's language, the application uses the default language.
ElectronFileTransfer	This parameter is for internal use only. Actuate does not recommend changing this parameter.
VennFontFamily	Font to use in a Venn diagram. For a language requiring special characters, such as Chinese or Japanese, change to a font that supports that character set.

Configuration of BIRT Analytics FastDB (dubnium)

BIRT Analytics FastDB engine, also referred to as the dubnium engine, is a web-based, Extract, Transform, and Load (ETL) service that reads most data sources. After installing FastDB, the administrator can change the default settings in the engine_configuration.ini file.

In Windows, the engine_configuration.ini file is in the following default location:

C:\Program Files\Actuate\BIRTAnalytics\dubnium

In Linux, the engine_configuration.ini file default location is:

/etc/dubnium

Listing 2-5 shows the default Windows engine_configuration.ini code installed with the product.

Listing 2-5 engine_configuration.ini code

```
[engine]
license = C:\Program Files\Actuate\BIRAnalytics\dubnium\dubnium.lic
repository = C:\Program Files\Actuate\BIRAnalytics\dubnium\databases

[log]
path = C:\Program Files\Actuate\BIRAnalytics\dubnium\log\engine.log
    verbosity = 6

[server]
admin_file_path = C:\Program Files\Actuate\BIRAnalytics\dubnium
    \admin.sqlite
```

Table 2-5 lists the engine_configuration.ini parameters and describes their function. In the file specification, except for the generic options, group each parameter under its appropriate option tag, such as [engine], [log], or [server], omitting the option tag prefix, as shown in the Table 2-5 examples.

In Table 2-5, the example indicates the default setting. It is not necessary to specify a parameter in the engine_configuration.ini unless you want to change the default value.

Table 2-5 BIRT Analytics FastDB engine_configuration.ini parameters

Parameter	Description
	Generic options.
help	Show help.
register_service	Register this binary in services (Windows only).
unregister_service	Remove this binary in services (Windows only).
setpkpass	Prompt for a private key password to store in the configuration file.
version	Show version information.
config	Configuration file. For example, config =engine_configuration.ini.
[engine]	Engine options.
engine.license	License file. For example, engine.license = dubnium.lic.
engine.repository	Engine repository path. For example, repository = databases.
engine.autocleanup	Automatic cleanup. For example, autocleanup = 0.
engine.autoregenerate derived	Automatic regeneration of derived columns. For example, autoregeneratederived = 1.
engine.locale	System wide locale. For example, locale = en_US.
engine.cxcachepagesize	Crosstab page size. For example, cxcachepagesize = 10000.

(continues)

Table 2-5 BIRT Analytics FastDB engine_configuration.ini parameters (continued)

Parameter	Description
engine.defaultformatdate	Date default format. For example, defaultformatdate = yyyyymmdd.
engine.defaultformatdatetime	Time and date default format. For example, defaultformatdatetime = yyyyymmdd_hhMMss.
engine.defaultformattime	Time default format. For example, defaultformattime = hhMMss.
engine.defaultformatreal	Real (floating point) number default format. For example, defaultformatreal = .
engine.defaultpagesize	Default page size. For example, defaultpagesize = 100.
engine.defaultprecision	Default decimal precision. For example, defaultprecision = 2.
engine.maximumprecision	Maximum decimal precision. For example, maximumprecision = 8.
engine.firstdiscretethreshold	Domain count to change strategy in first discrete operation. For example, firstdiscretethreshold = 1024.
engine.autolinkjumps	Number of jumps accepted before creating a new link automatically. For example, autolinkjumps = 1.
engine.nonlinked_aggregated	Crosstabs non-linked record values are aggregated in a row. For example, nonlinked_aggregated = 0.
engine.max_pivot_values	Crosstabs max discrete values in a pivot column. For example, max_pivot_values = 1024.
[log]	Log options.
log.path	Log path. For example, path = engine.log.
log.verbosity	Log verbosity specifies level of detail. For example, verbosity = 6.
[memory]	Memory options.
memory.maxmemorysystem	Maximum system memory in megabytes. Estimate the maximum value using the following formula: [Server memory] - ([OS memory] * 2) For example, maxmemorysystem = 4096.
memory.maxmemorythread	Maximum thread memory in megabytes. Each engine request uses a separate thread. For example, maxmemorysystem = 2048. Total memory usage for threads cannot surpass maxmemorysystem. Set the value for maxmemorythread according to the number of predicted concurrent requests.
memory.memorylogenabled	Memory log enabled. For example, memorylogenabled = 1.
memory.buffer_size_datasources	Datasources buffer size in kilobytes. For example, buffer_size_datasources = 8192.
[rdp]	Remote data provider (RDP) options.
rdp.use_proxy	Use proxy to connect to source. For example, use_proxy = 0.

Table 2-5 BIRT Analytics FastDB engine_configuration.ini parameters (continued)

Parameter	Description
rdp.proxy_type	Proxy type: <ul style="list-style-type: none"> ■ HTTP ■ HTTP_1_0 ■ SOCKS4 ■ SOCKS5 ■ SOCKS4A ■ SOCKS5_HOSTNAME For example, proxy_type = HTTP.
rdp.proxy_addr	Proxy IP address. For example, proxy_addr = 0.0.0.0.
rdp.proxy_port	Proxy port. For example, proxy_port = 8080.
rdp.proxy_username	Proxy user name. For example, proxy_username = username.
rdp.proxy_password	Proxy password. For example, proxy_password = password.
rdp.proxy_exceptions	Comma separated list of hosts which do not use a proxy. For example, rdp.proxy_exceptions = urup.
rdp.username	User name for server authentication. For example, username = username.
rdp.password	Password for server authentication. For example, password = password.
rdp.ssl_verify	Verify against certificate authority (CA). For example, ssl_verify = 0.
rdp.ca_cert	Public certificate authority (CA) file. For example, ca_cert =
rdp.connect_timeout	Connect time-out in seconds. For example, connect_timeout = 30.
rdp.timeout	Regular time-out in seconds. For example, timeout = 60.
[server]	Server options.
server.admin_file_path	Server administration file path. For example, admin_file_path = C:\BIRTAnalytics\dubnium\admin.sqlite.
server.connectiontimeout	Connection time-out (ms). For example, connectiontimeout = 0.
server.maxrequestlen	Maximum request length. For example, maxrequestlen = 65535.
server.threads	Maximum threads per server. For example, threads = 5.
server.ssl_mode	Certificate mode for SSL: <ul style="list-style-type: none"> ■ simple for self-signed certificate ■ complete for root certificate authority (CA) For example, ssl_mode = simple.

(continues)

Table 2-5 BIRT Analytics FastDB engine_configuration.ini parameters (continued)

Parameter	Description
server.ip	Listener IP address. For example, ip = 0.0.0.0.
server.port	Listener port for insecure connections. Set to 8105 by default. For example, port = 8105.
server.secure_port	Listener port for secure connections. Set to 8106 by default. For example, secure_port = 8106.
server.enable_insecure_port	Start insecure, standard port. Enabled by default. For example, enable_insecure_port = 1.
server.enable_secure_port	Start secure, SSL port. Disabled by default. For example, enable_secure_port = 0.
server.dh_filename	Diffie-Hellman parameters file. For example, dh_filename = dhparams.pem.
server.rand_filename	Random file for SSL calculations. For example, rand_filename = ssl.rnd.
server.certificate	Server public certificate. For example, certificate = server.pem.
server.private_key	Server private key. For example, private_key = server.key.
server.private_key_password	Password for server private key. For example, private_key_password = private key.
server.root_ca_certificate	Root certificate authority (CA) public certificate. For example, root_ca_certificate = cacert.pem.
server.cert_country	Server certificate country as two-character data specification. For example, cert_country = US.
server.cert_locality	Server certificate locality. For example, cert_locality = New York.
server.cert_state	Server certificate state. For example, cert_state = Texas.
server.cert_email	Server certificate contact e-mail. For example, scert_email = administrator@yourdomain.com.
server.cert_organization	Server certificate organization or company name. For example, cert_organization = Actuate.
server.cert_service_names	Server certificate separated service names. For example, cert_service_names = server.localdomain.com,192.168.0.55.
server.admin_file_path	Authentication and security file path. For example, admin_file_path = admin.sqlite.
server.enable_dbfibrillator	Automated restart in case of crash. For example, enable_dbfibrillator = 1.
server.enable_daemon	Daemon mode. For example, enable_daemon = 0.
server.winsvc_user	Windows service registration username. For example, winsvc_user = username.
server.winsvc_pass	Windows service registration password. For example, winsvc_pass = password.

Part **Two**

Administering BIRT Analytics reference

3

Administering BIRT Analytics functional reference

This chapter is a reference section describing the functionalities that the administrator uses to configure permissions in the security role management module of BIRT Analytics Administration.

Administering BIRT Analytics functional reference

This chapter is a reference section describing the functionalities that the administrator uses to configure permissions in the security role management module of BIRT Analytics Administration. Each category section provides the name of the parameter along with a description of its function in the BIRT Analytics system. Additional columns in the tables indicate:

- The parameter type, identified in the tables by the following abbreviations:
 - Administration (A)
 - Power (P)
 - Explorer (E)
- Whether the parameter is essential

The parameters in the tables are listed typically in the order of occurrence. The tables at the beginning of each section describe functionalities that have no subordinate items in the lists. Complex sets of functionalities that contain subordinate items are grouped into tables by category. In some cases, these tables group closely related categories together, rather than by order of occurrence, to make referencing related items more convenient.

In the Security role management module Functionalities list, select + to expand a functional category. Select the higher-level category to include all the subordinate elements or select elements individually in the category lists to configure a more restricted subset of privileges.

General

Table 3-1 describes the functionalities that have no subordinate items in the General list.

Table 3-1 General functionalities

Functionality	Description	Essential	Type	Module
Change resolution level	Controls ability to change resolution level in a domain.	No	A,P,E	Admin
Check active LDAP	Controls access to information about type of active security.	No	A,P,E	Admin
Count discrete values	Provides access to the number of discrete values in a column to determine the value of a specific action.	Yes	A,P,E	Frontend: Analysis (manipulation of segments)
Data tree	Obtains structure of the database.	Yes	A,P,E	Frontend: Data Tree, Bloc of notes (change resolution)
Discrete values of a domain	Allows user to generate domains of discrete values from another domain.	No	A,P,E	Bloc of notes (discrete values)
Get header image	Allows uploading server header image for export to RTF.	Yes	A,P,E	Jetadmin: Management Style
Get higher tables	Allows user to access higher tables.	Yes	A,P,E	Frontend: Multiple sites

Table 3-1 General functionalities (continued)

Functionality	Description	Essential	Type	Module
Get LDAP groups	Controls access to information about active security groups.	No	A,P,E	Admin
Get resolution level	Controls access to resolution level in a domain.	Yes	A,P,E	Frontend: Explorer (data, export, analysis Venn, internal use of segments)
Get RTF styles	Gets RTF style definition.	Yes	A,P,E	Frontend: Export RTF
Put RTF styles	Sets style for RTF export.	Yes	A,P,E	Frontend: Export RTF
Get user functionalities	Controls access to user functionality information.	No	A,P,E	Admin
Get user information	Controls access to basic user information.	No	A,P,E	Admin
Insert a new configuration setting	Allows user to insert a new configuration key.	Yes	A,P,E	Admin
Load data from a folder	Allows data analysis using the shared folder of another user.	Yes	A,P,E	Frontend: Folder Tree
Operate with domains	Allows operations between domains.	No	A,P,E	Frontend: Bloc of notes, Analysis, explore data
Prepare saved cross tab for execution	Allows preparation of a crosstab analysis for execution.	No	A,P,E	Analysis: Crosstab
Read configuration setting	Allows user to read a configuration key.	Yes	A,P,E	Admin
Selections— Calculate selection	Controls access to module selection. Allows user to execute selection.	No	A,P,E	Frontend: Selections
Sort Domains	Allows user to arrange domains in Bloc of notes.			Frontend: Bloc of notes
Convert ID to name	Obsolete.	No	A,P,E	
Convert name to ID	Obsolete.	No	A,P,E	
Upload header image	Allows uploading header image to server for export to RTF.	Yes	A,P,E	Frontend: Export RTF
Validate discrete column	Checks if a column is completely discrete.	No	A,P,E	Plugin: iWorkflow
Validate LDAP settings	Allows validating type of active security.	No	A,P,E	Admin

(continues)

Table 3-1 General functionalities (continued)

Functionality	Description	Essential	Type	Module
Validate Login	Allows system to manage anonymous user access.	No	A,P,E	Admin
View columns— Change Indexing	Allows user to index a column in the repository.	No	A,P,E	Frontend: Data Tree
View databases	Allows user to access list of available databases.	Yes	A,P,E	Frontend: Data Tree
View discrete values	Limits access to discrete values of a column.	Yes	A,P,E	Frontend: Data Tree, Explorer (discrete and graphic values field), Evolution Analysis, Engineering (Decoder)
View object data	Allows access to database object information.	Yes	A,P,E	Frontend
View parent table	Allows viewing parent table for a specific table in the database.	Yes	A,P,E	Frontend: Multiple modules
View tables	Allows viewing tables from a specific database.	Yes	A,P,E	Frontend: Data Tree
View user	Controls access to user information.	No	A	Admin
View user functionalities	Controls access to user functionality information.	No	A	Admin

Administration

This section describes the Administration functionalities used in configuring the BIRT Analytics environment.

Administration

Table 3-2 describes the functionalities that have no subordinate items in the Administration list.

Table 3-2 Administration functionalities

Functionality	Description	Essential	Type	Module
Administration	Controls settings for all Administration management functionalities	No	A	Admin
Add password policy	Controls ability to define rules for user passwords	No	A	Admin
Create key fields	Allows administrator to create new key fields	No	A	Admin
Delete sensitive column	Limits ability to unmark a column from the repository as a sensitive column	No	A	Admin
Insert sensitive column	Limits ability to mark a column from the repository as a sensitive column	No	A	Admin

Table 3-2 Administration functionalities

Functionality	Description	Essential	Type	Module
Get sensitive columns	Controls access to the list of sensitive columns	No	A	Admin
Get ACL	Controls access to information on relationships between an object, groups, and users	No	A	Admin
Get active engine settings	Controls access to current engine configuration settings	No	A	Admin
Get functionalities map	Controls access to information on relationships between functionalities, roles, and users	No	A	Admin
Get Pool Connections status	Controls access to information about connection pool	No	A	Admin
List security policies	Controls access to the rules required in adding a user password	Yes	A	Admin
Update security policies	Controls ability to modify rules for user passwords	No	A	Admin
Purge obsolete connections	Controls ability to delete current connections to analytical engine	No	A	Admin
Read application log	Controls access to the log that creates a record of activity on the system	No	A	Admin

Access control list (ACL)

Table 3-3 describes the security group and filter functionalities that control access control list (ACL) management.

Table 3-3 Access control list (ACL) functionalities

Functionality	Description	Essential	Type	Module
ACL	Controls settings for all security group and filters management functionalities	No	A,P,E	Admin: Security
New security filter	Controls the creation of a new security filter	No	A	Admin: Security
Edit security filter	Controls the modification of an existing security filter	No	A	Admin: Security
Delete security filter	Controls the elimination of security filter	No	A	Admin: Security
Get security filter	Controls access to security filter	No	A	Admin: Security
Get security filters	Controls access to multiple security filters	No	A	Admin: Security
New security group	Controls the creation of security group	No	A	Admin: Security
Edit security group	Controls the modification of security group	No	A	Admin: Security
Delete security group	Controls the elimination of security group	No	A	Admin: Security

(continues)

Table 3-3 Access control list (ACL) functionalities (continued)

Functionality	Description	Essential	Type	Module
Get security group	Controls access to security group	No	A	Admin: Security
Get security groups	Controls access to multiple security groups	No	A	Admin: Security
Give access to security group	Grants access by a security group to specified data objects	No	A	Admin: Security
Remove authorizations to security group	Revokes access by a security group to specified data objects	No	A	Admin: Security
Get mapped database structure	Controls access to repository database mappings	No	A	Frontend: Data Tree
Get object authorizations	Controls access to object authorizations	No	A	Admin: Security

Configuration

Table 3-4 describes the Configuration functionalities that control Simple Mail Transfer Protocol (SMTP) management.

Table 3-4 Configuration functionalities

Functionality	Description	Essential	Type	Module
Configuration	Controls settings for all Configuration functionalities.	No	A	Admin: Configuration
Get SMTP configuration	Controls access to SMTP settings. Specifies Get SMTP configuration property only.	No	A	Admin: Configuration
Set SMTP configuration	Controls permission to change SMTP settings. Specifies Set SMTP configuration property only.	No	A	Admin: Configuration

Folders

Table 3-5 describes the functionalities that control folder management.

Table 3-5 Folders functionalities

Functionality	Description	Essential	Type	Module
Folders	Controls settings for all Folders functionalities	Yes	A,P,E	Frontend: Data Tree
Create folder	Allows a user to create a file or folder for storing analysis selections	No	A,P,E	Frontend: Data Tree, Analysis (process to save analysis)
Delete folder	Allows a user to delete a file or folder	No	A,P,E	Frontend: Data Tree
Edit folder	Allows a user to edit a file or folder	No	A,P,E	Frontend: Data Tree
View folders	Allows a user to access the related list of files and analysis items	Yes	A,P,E	Frontend: Data Tree

Table 3-5 Folders functionalities

Functionality	Description	Essential	Type	Module
View folders and items	Allows a user to access the related list of files and analysis items	Yes	A,P,E	Frontend: Data Tree

Functionalities

Table 3-6 describes the settings that control functionalities management.

Table 3-6 Functionalities settings

Functionality	Description	Essential	Type	Module
Functionalities	Controls ability to manage the Functionalities list	No	A	Admin
View functionality tree	Controls access to the functionalities list	No	A	Admin

Groups

Table 3-7 describes the functionalities that control group management.

Table 3-7 Groups functionalities

Functionality	Description	Essential	Type	Module
Groups	Controls settings for all Groups functionalities	No	A	Admin: Groups Management
Create group	Allows creating a group	No	A	Admin: Groups Management
Delete group	Allows deleting a group	No	A	Admin: Groups Management
Edit group	Allows editing a group	Yes	A	Admin: Groups Management
View group	Allows viewing information for a group	No	A	Admin: Groups Management
View groups	Allows viewing a list of groups	No	A	Admin: Groups Management

Integrity

Table 3-8 describes the functionalities that control integrity management.

Table 3-8 Integrity functionalities

Functionality	Description	Essential	Type	Module
Integrity	Controls settings for all Integrity functionalities. Configures synchronization between Administration application and data repository.	No	A,P,E	Admin

(continues)

Table 3-8 Integrity functionalities (continued)

Functionality	Description	Essential	Type	Module
Delete temporary items	Controls elimination of cache files from the server.	No	A	Admin
Get temporary information	Allows administrator to obtain information regarding repository column use.	No	A	Admin
Purge erroneous ACL entries	Allows purging obsolete permits applied to nonexistent objects.	No	A	Admin
Synchronize structure to repository	Allows synchronization of data structure with repository.	No	A,P,E	Admin

Profile

Table 3-9 describes the functionalities that control profile management.

Table 3-9 Profile functionalities

Functionality	Description	Essential	Type	Module
Profile	Controls settings for all Profile functionalities	No	A	Admin
Create Profile	Allows creating a profile	No	A	Admin
Delete Profile	Allows deleting a profile	No	A	Admin
Edit Profile	Allows editing a profile	No	A	Admin
Load Profile	Controls access to property information for a specific profile	No	A	Admin
Get profiles list	Controls access to a profile list	No	A	Admin

Roles

Table 3-10 describes the functionalities that control role management.

Table 3-10 Roles functionalities

Functionality	Description	Essential	Type	Module
Roles	Controls settings for all Roles functionalities	No	A	Admin: Security Role Management
Create role	Allows creating a role	No	A	Admin: Security Role Management
Delete role	Allows deleting a role	No	A	Admin: Security Role Management
Edit role	Allows deleting a role	No	A	Admin: Security Role Management
View role	Allows viewing information for a role	No	A	Admin: Security Role Management
View roles	Allows viewing a list of roles	No	A	Admin: Security Role Management

Users

Table 3-11 describes the functionalities that control user management.

Table 3-11 Users functionalities

Functionality	Description	Essential	Type	Module
Users	Controls settings for all Users functionalities.	No	A	Admin: User Management
Create user	Allows creating a user.	No	A	Admin: User Management
Delete user	Allows deleting a user.	No	A	Admin: User Management
Edit user	Allows editing a user. An update done in the frontend is limited to the number of modifiable attributes for the user.	Yes	A	Admin: User Management; Frontend: User Preference
View user	Allows viewing information for a user.	No	A	Admin: User Management
View users	Allows viewing a list of users.	No	A	Admin: User Management

Analysis

This section describes the Analysis functionalities used in configuring the BIRT Analytics environment.

Analysis

Table 3-12 describes the functionalities that have no subordinate items in the Analysis list.

Table 3-12 Analysis functionalities

Functionality	Description	Essential	Type	Module
Analysis	Controls settings for all Analysis functionalities.	No	A,P,E	Frontend: Data Tree
Change analysis	Allows user to modify an analysis definition.	No	A,P,E	Frontend: Data Tree
Delete analysis	Allows user to delete an analysis.	No	A,P,E	Frontend: Data Tree
Export saved analyses	Allows user to export saved analysis.	No	A,P,E	Frontend: Data Tree

(continues)

Table 3-12 Analysis functionalities (continued)

Functionality	Description	Essential	Type	Module
Get list of authorizations for report	Allows user access to authorizations list for a report.	No	A,P,E	Frontend: Analysis/ selections (save element)
Get selection definition	Allows user access to selection definition.	No	A,P,E	Frontend: Analysis/ selections (save element)
Get users to share analysis	Allows user access to list of users belonging to the same group who can share an analysis.	No	A,P,E	Frontend: Analysis/ selections (save element)
Import analyses/ selections	Allows user to import previously exported analysis.	No	A,P,E	Frontend: Data Tree
Open analysis	Allows user to open an analysis.	No	A,P,E	Frontend: Analysis/ selections.
Save analysis	Allows user to save an analysis. Requires create folder privilege.	No	A,P,E	Frontend: Analysis/ selections.

Bubble diagram

Table 3-13 describes the functionalities that control bubble diagram management.

Table 3-13 Bubble diagram functionalities

Functionality	Description	Essential	Type	Module
Bubble diagram	Controls settings for all Bubble diagram functionalities	No	A,P,E	Analysis: Bubble
Run bubble diagram	Configures running all Run bubble diagram properties	No	A,P,E	Analysis: Bubble
Calculate bubble diagram	Specifies Calculate bubble diagram property only	No	A,P,E	Analysis: Bubble
View bubble diagram	Specifies View bubble diagram property only	No	A,P,E	Analysis: Bubble

Calculate Pareto

Table 3-14 describes the functionalities that control Pareto management.

Table 3-14 Pareto functionalities

Functionality	Description	Essential	Type	Module
Calculate Pareto	Controls settings for all Calculate Pareto functionalities	No	A,P,E	Analysis: Pareto
Export Pareto	Specifies Export Pareto functionality	No	A,P,E	Analysis: Pareto

Crosstab

Table 3-15 describes the functionalities that control crosstab management.

Table 3-15 Crosstab functionalities

Functionality	Description	Essential	Type	Module
Crosstab	Controls setting for all Crosstab functionalities	No	A,P,E	Analysis: Crosstab
Run Crosstab	Controls execution of a crosstab	No	A,P,E	Analysis: Crosstab
Export Crosstab	Allows user to export a crosstab analysis to an Ofimatic format	No	A,P,E	Analysis: Crosstab
Extract from Crosstab	Allows user to extract a domain from a crosstab analysis	No	A,P,E	Analysis: Crosstab
Get Crosstab from cache	Allows user to get a crosstab analysis from cache	No	A,P,E	Analysis: Crosstab

Evolution diagram

Table 3-16 describes the functionalities that control evolution diagram management.

Table 3-16 Evolution diagram functionalities

Functionality	Description	Essential	Type	Module
Evolution diagram	Controls settings for all Evolution diagram functionalities	No	A,P	Frontend: Analysis (Evolution)
Export Evolution	Limits export of evolution analysis type	No	A,P	Frontend: Analysis (Evolution)

Gallery

Table 3-17 describes the functionalities that control gallery management.

Table 3-17 Gallery functionalities

Functionality	Description	Essential	Type	Module
Gallery	Controls settings for all Gallery functionalities	No	A,P	Gallery
Calculate Gallery	Allows user to calculate a gallery measure definition	No	A,P	Gallery
Export Gallery	Allows user to export a gallery measure definition	No	A,P	Gallery
Get map to print Gallery	Allows user to get a map to print a gallery measure definition	No	A,P	Gallery

Map diagram

Table 3-18 describes the functionalities that control map diagram management.

Table 3-18 Map diagram functionalities

Functionality	Description	Essential	Type	Module
Map diagram	Controls settings for all Map diagram functionalities.	No	A,P,E	Frontend: Analysis (Maps)
Calculate Map	Allows user to perform a Calculate Map operation	No	A,P,E	Frontend: Analysis (Maps)
Delete Map	Allows user to delete a map	No	A,P,E	Admin
Get Maps list	Allows user to get a map list	No	A,P,E	Frontend: Analysis (Maps)
Print Map	Allows user to print a map operation	No	A,P,E	Frontend: Analysis (Maps)
Upload Map	Allows user to upload a map	No	A,P,E	Admin
View Map	Allows user to view a map	No	A,P,E	Admin

Profile

Table 3-19 describes the functionalities that control profile management.

Table 3-19 Profile functionalities

Functionality	Description	Essential	Type	Module
Profile	Controls settings for all Profile functionalities	No	A,P	Frontend: selection
Run Profile	Run Profile controls execution of the profile analysis type	No	A,P	Frontend: Analysis (Profile)
Export Profile	Export Profile allows a user to export the results of a profile analysis type	No	A,P	Frontend: Analysis (Profile)

Venn diagram

Table 3-20 describes the functionalities that control Venn diagram management.

Table 3-20 Venn diagram functionalities

Functionality	Description	Essential	Type	Module
Venn diagram	Controls settings for all Venn diagram functionalities.	No	A,P,E	Analysis: Venn
Run Venn diagram	Controls execution of Venn diagram. Configures running export and extract Venn diagram properties.	No	A,P,E	Analysis: Venn
Export Venn diagram	Allows user to export a Venn analysis to an Ofimatic format.	No	A,P,E	Analysis: Venn
Extract from Venn diagram	Allows user to extract a domain from a Venn analysis.	No	A,P,E	Analysis: Venn

Data exploration

Table 3-21 describes the functionalities that control data exploration management.

Table 3-21 Data exploration functionalities

Functionality	Description	Essential	Type	Module
Data Exploration	Controls settings for all Data Exploration functionalities.	No	A,P,E	Frontend: Explorer
Export statistics	Allows user to export statistics in RTF format.	No	A,P,E	Frontend: Explorer (statistics field)
Export summary	Allows user to export a summary for a table or field in file format.	No	A,P,E	Frontend: Explorer (summary field)
View discrete values graphic	Limits access to a discrete values graphic from a specific column.	No	A,P,E	Frontend: Explorer (discrete values graphic field)
View frequency distribution—View frequency distribution cache	Controls view access to frequency distribution data. Specifies View frequency distribution cache property at either node level.	No	A,P,E	Frontend: Explorer (frequency distribution and exploration fields)
View records	Controls access to records in the database.	No	A,P,E	Frontend: Explorer
View statistics	Controls access to statistics for a field in the database.	No	A,P,E	Frontend: Explorer (register field)
View summary	Limits access to field and table summaries. User must have access to underlying data to view summary.	No	A,P,E	Frontend: Explorer (summary field)

Engine security

Table 3-22 describes the Engine security functionalities previously available in configuring the BIRT Analytics environment. These features are obsolete.

Table 3-22 Engine security functionalities

Functionality	Description	Essential	Type	Module
Engine security	Obsolete	No		
View engine security filters	Obsolete	No		
View engine security groups	Obsolete	No		

Engineering

This section describes the Engineering functionalities used in configuring the BIRT Analytics environment.

Engineering

Table 3-23 describes the functionalities that have no subordinate items in the Engineering list.

Table 3-23 Engineering functionalities

Functionality	Description	Essential	Type	Module
Engineering	Controls settings for all Engineering functionalities.	No	A,P,E	Frontend: Engineering
Clear table	Controls clearing a user table.	No	A,P,E	Frontend: Engineering
Create aggregate	Allows user create a new aggregated column.	No	A,P,E	Frontend: Engineering (create aggregated)
Create decoder	Allows user to create a new decode column.	No	A,P,E	Frontend: Engineering (create decode)
Create expression— Get engine functions	Create expression allows a user to create a new expression column. Get engine functions allows access to the list of functionalities available when creating a new field of expression type.	No	A,P,E	Frontend: Engineering (create expression)
Create numeric range— Get limits	Allows accessing the values needed to compose a new field of numeric rank type.	No	A,P,E	Frontend: Engineering (create numeric rank)
Create Parametric	Allows user to create a new parametric column.	No	A,P,E	Frontend: Engineering (create parametric)
Create quantile	Allows user to create a new column quantile type.	No	A,P,E	Frontend: Engineering (create quantile)
Create Ranking	Allows user to create a new column with numeric ranking.	No	A,P,E	Frontend: Engineering (create numeric rank)
Delete column	Limits elimination of a column from the repository data.	No	A,P,E	Frontend: Data Tree
Make a column permanent	Allows user to make a column permanent when creating a new column.	No	A,P,E	Frontend: Navigation Tree
Make domain permanent	Allows user to make a domain permanent when creating a new domain.	No	A,P,E	Frontend: Bloc of notes (make permanent)

Table 3-23 Engineering functionalities

Functionality	Description	Essential	Type	Module
Validate expression	Allows user to validate an expression when creating an expression type field.	No	A,P,E	Frontend: Engineering (expression field)

Edit engineering fields

Table 3-24 describes the Update a column functionalities that control Edit engineering fields management.

Table 3-24 Edit engineering fields functionalities

Functionality	Description	Essential	Type	Module
Edit engineering fields—Update a column	Controls settings for all Edit engineering fields functionalities. —Update a column functionalities list.	No	A,P,E	Frontend: Engineering
Update a column	Controls settings for all Update a column functionalities.	No	A,P,E	Frontend: Engineering
Clear dependent cache	Allows system to clear obsolete cache files due to changes in the repository.	Yes	A,P,E	Frontend: Internal
Get aggregate definition	Controls access to a aggregate-type field definition.	No	A,P,E	Frontend: Engineering (aggregated)
Get decoded definition	Controls access to a decoding-type field definition.	No	A,P,E	Frontend: Engineering (decode)
Get definition of an expression	Controls access to an expression type field definition.	No	A,P,E	Frontend: Engineering (expression)
Get numeric range definition	Controls access to a numeric-range-type field definition.	No	A,P,E	Frontend: Engineering (numeric range)
Get parametric definition	Controls access to a parametric-type field definition.	No	A,P,E	Frontend: Engineering (parametric)
Get quantile definition	Controls access to a quantile-type field definition.	No	A,P,E	Frontend: Engineering (quantile)
Update aggregate	Controls modification of an aggregate-type field definition.	No	A,P,E	Frontend: Engineering (aggregated)
Update decoded	Controls modification of a decoding-type field definition.	No	A,P,E	Frontend: Engineering (decode)
Update expression	Controls ability to modify an expression type field definition.	No	A,P,E	Frontend: Engineering (expression)

(continues)

Table 3-24 Edit engineering fields functionalities (continued)

Functionality	Description	Essential	Type	Module
Update numeric range	Controls modification of a numeric-range-type field definition.	No	A,P,E	Frontend: Engineering (numeric range)
Update parametric	Controls modification of a parametric-type field definition.	No	A,P,E	Frontend: Engineering (parametric)
Update quantile	Controls modification of a quantile-type field definition.	No	A,P,E	Frontend: Engineering (quantile)

Events and Alerts

Table 3-25 describes the functionalities that have no subordinate items in the Events and Alerts list.

Table 3-25 Events and Alerts functionalities

Functionality	Description	Essential	Type	Module
Events and Alerts	Controls settings for all Events and Alerts functionalities	No	A,P,E	Admin/ Frontend
Create scheduled task	Allows user to create a scheduled task	No	A,P,E	Admin/ Frontend
Delete scheduled task	Allows user to delete a scheduled task	No	A,P,E	Admin/ Frontend
Events service management	Allows user to manage events service	No	A,P,E	Admin/ Frontend
Execute scheduled task	Allows user to execute a scheduled task	No	A,P,E	Admin/ Frontend
Get available actions by event	Allows user to get available actions by event	No	A,P,E	Admin/ Frontend
Get event detail	Allows user to get an event detail	No	A,P,E	Admin/ Frontend
Get events list	Allows user to get an event list	No	A,P,E	Admin/ Frontend
Get scheduled task	Allows user to get a scheduled task	No	A,P,E	Admin/ Frontend
Get scheduled task log	Allows user to get a scheduled task log	No	A,P,E	Admin/ Frontend
Get values list by attribute	Allows user to get a values list by attribute	No	A,P,E	Admin/ Frontend
Retrieve scheduled task	Allows user to retrieve a scheduled task	No	A,P,E	Admin/ Frontend

Actions

Table 3-26 describes the functionalities that control action management.

Table 3-26 Actions functionalities

Functionality	Description	Essential	Type	Module
Actions	Controls settings for all Actions functionalities	No	A,P,E	Admin/ Frontend
Apply Model	Allows user to apply a model	No	A,P,E	Admin/ Frontend
Delete column	Allows user to delete a column	No	A,P,E	Admin/ Frontend
Delete table	Allows user to delete a table	No	A,P,E	Admin/ Frontend
Evaluate condition	Allows user to evaluate a condition	No	A,P,E	Admin/ Frontend
Notify definition updates	Allows user to specify notification for a definition update	No	A,P,E	Admin/ Frontend
Send e-mail	Allows user to specify a send e-mail notification	No	A,P,E	Admin/ Frontend

Import-Export

Table 3-27 describes the functionalities that control import-export management.

Table 3-27 Import-Export functionalities

Functionality	Description	Essential	Type	Module
Import-Export	Controls settings for all Import-Export functionalities	No	A,P,E	Frontend: Import
Clear imported file	Allows user to delete a file previously uploaded to the server	No	A,P,E	Frontend: Import
Export a domain to a scheduled task	Allows user to select data for export to a scheduled task	No	A,P,E	Frontend: Export
Export domain	Allows user to select data for export to files	No	A,P,E	Frontend: Export
Export analytical database domain	Allows user to select data for export to repository	No	A,P,E	Frontend: Export
Get deferred file as xml	Gets a deferred file in XML format	No	A,P,E	Engine and events alerts
Get download shelf items list	Allows user to access an item list from the download shelf	No	A,P,E	Frontend: Downloads
Get download shelf types list	Allows user to access a types list from the download shelf	No	A,P,E	Frontend: Downloads
Get exported file	Allows a user access to an exported file	No	A,P,E	Frontend: Export

(continues)

Table 3-27 Import-Export functionalities (continued)

Functionality	Description	Essential	Type	Module
Get Microsoft Access table columns	Allows user to access columns from a specific table in a previously imported Microsoft Access file	No	A,P,E	Frontend: Import
Get valid columns	Controls access to the list of columns available for export	No	A,P,E	Frontend: Export
Import	Allows user to import analytical data from an external file previously uploaded to the server	No	A,P,E	Frontend: Import
Remove item from download shelf	Allows user to remove an item from the download shelf	No	A,P,E	Frontend: Downloads
Upload file	Allows user to upload a file to server for downloading at a later time	No	A,P,E	Frontend: Import

Links

Table 3-28 describes the functionalities that control link management.

Table 3-28 Links functionalities

Functionality	Description	Essential	Type	Module
Links	Control settings for all Links functionalities	No	A,P,E	Frontend: Links
Create link	Allows user to create a new link to an object in a database	No	A,P,E	Frontend: Links
Delete broken links	Allows user to delete a broken link	No	A,P,E	Frontend: Links
Delete link	Allows user to delete a link	No	A,P,E	Frontend: Links
Delete temporary links	Allows user to delete a temporary link	No	A,P,E	Frontend: Links
View links	Allows user to view a link	No	A,P,E	Frontend: Links

Plug-ins

This section describes the Plug-ins functionalities used in configuring the BIRT Analytics environment.

Plug-ins

Table 3-29 describes the functionalities that control plug-in management.

Table 3-29 Plug-ins functionalities

Functionality	Description	Essential	Type	Module
Plug-ins	Controls settings for all Plug-ins functionalities	Yes	A,P,E	Frontend: Internal

Table 3-29 Plug-ins functionalities

Functionality	Description	Essential	Type	Module
Plug-ins List	Controls access to the Plug-ins list	Yes	A,P,E	Frontend: Internal

Cworkflow

Table 3-30 describes the functionalities that control Cworkflow management.

Table 3-30 Cworkflow functionalities

Functionality	Description	Essential	Type	Module
Cworkflow	Controls settings for all workflow management options	No	A,P	Plugin: Cworkflow
Display "Levels Management" option	Displays Levels Management option	No	A,P	Plugin: Cworkflow
Show "Actions Management" option	Displays Actions Management option	No	A,P	Plugin: Cworkflow
Show "Campaign Management" option	Displays Campaign Management option	No	A,P	Plugin: Cworkflow
Show "Campaign Planning" option	Displays Campaign Planning option	No	A,P	Plugin: Cworkflow
Show "Media Management" option	Displays Media Management option	No	A,P	Plugin: Cworkflow
Show "Workflow Management" option	Displays Workflow Management option	No	A,P	Plugin: Cworkflow

Campaign management

Table 3-31 describes the functionalities that control campaign management.

Table 3-31 Campaign management functionalities

Functionality	Description	Essential	Type	Module
Campaign management	Controls settings for all Campaign management functionalities	No	A,P	Plugin: Cworkflow
Change campaign stage	Allows user to change campaign stage	No	A,P	Plugin: Cworkflow
Check if campaign is executable	Checks whether campaign is executable	No	A,P	Plugin: Cworkflow
Delete campaign	Delete campaign	No	A,P	Plugin: Cworkflow

(continues)

Table 3-31 Campaign management functionalities (continued)

Functionality	Description	Essential	Type	Module
Evaluate campaign	Allows user to evaluate a campaign	No	A,P	Plugin: Cworkflow
Get actions list	Allows user to get an actions list	No	A,P	Plugin: Cworkflow
Get campaign authorizations	Allows user to get campaign authorizations	No	A,P	Plugin: Cworkflow
Get campaign flow information	Allows user to get campaign flow information	No	A,P	Plugin: Cworkflow
Get campaign history	Allows user to get a campaign history	No	A,P	Plugin: Cworkflow
Get campaign lock data	Allows user to get campaign lock data	No	A,P	Plugin: Cworkflow
Get campaigns list	Allows user to get a campaigns list	No	A,P	Plugin: Cworkflow
Get complete campaigns list	Allows user to get a complete campaigns list	No	A,P	Plugin: Cworkflow
Get Media list	Allows user to get a media list	No	A,P	Plugin: Cworkflow
Get workflow data	Allows user to get workflow data	No	A,P	Plugin: Cworkflow
Get workflow levels list	Allows user to get a workflow levels list	No	A,P	Plugin: Cworkflow
Load campaign answers	Allows user to load campaign answers	No	A,P	Plugin: Cworkflow
Load campaign data	Allows user to load campaign data	No	A,P	Plugin: Cworkflow
Print campaign evaluation	Allows user to print a campaign evaluation	No	A,P	Plugin: Cworkflow
Protect campaign	Allows user to protect a campaign	No	A,P	Plugin: Cworkflow
Run campaign	Allows user to run a campaign	No	A,P	Plugin: Cworkflow
Save campaign	Allows user to save a campaign	No	A,P	Plugin: Cworkflow
Start campaign	Allows user to start a campaign	No	A,P	Plugin: Cworkflow
Unprotect campaign	Allows user to unprotect a campaign.	No	A,P	Plugin: Cworkflow
Validate the loading of the campaign responses	Allows user to validate a campaign responses load action.	No	A,P	Plugin: Cworkflow
View action	Allows user to view an action.	No	A,P	Plugin: Cworkflow
View medium	Allows user to view a medium.	No	A,P	Plugin: Cworkflow

Campaign planning

Table 3-32 describes the functionalities that control campaign planning management.

Table 3-32 Campaign planning functionalities

Functionality	Description	Essential	Type	Module
Campaign planning	Controls settings for all Campaign planning functionalities	No	A,P	Plugin: Cworkflow
Delete strategy	Allows user to delete a strategy	No	A,P	Plugin: Cworkflow
Edit strategy	Allows user to edit a strategy	No	A,P	Plugin: Cworkflow
Get strategies tree	Allows user to access a strategies tree	No	A,P	Plugin: Cworkflow
Load strategy	Allows user to load a strategy	No	A,P	Plugin: Cworkflow
New strategy	Allows user to create a new strategy	No	A,P	Plugin: Cworkflow

Configure CWorkflow

Table 3-33 describes the functionalities that control configure CWorkflow management.

Table 3-33 Configure CWorkflow functionalities

Functionality	Description	Essential	Type	Module
Configure CWorkflow	Controls the settings for the following functionalities: <ul style="list-style-type: none"> ■ Levels management ■ Management Actions ■ Media Management ■ Workflow management 	No	A,P	Plugin: Cworkflow
Levels management	Controls the settings for Levels management functionalities	No	A,P	Plugin: Cworkflow
Levels management—Create workflow level	Allows user to create a workflow level	No	A,P	Plugin: Cworkflow
Levels management—Delete workflow level	Allows user to delete a workflow level	No	A,P	Plugin: Cworkflow
Levels management—Edit workflow level	Allows user to edit workflow levels	No	A,P	Plugin: Cworkflow
Management Actions	Controls the settings for Management Actions functionalities	No	A,P	Plugin: Cworkflow
Management Actions—Create new action	Allows user to create a new action	No	A,P	Plugin: Cworkflow

(continues)

Table 3-33 Configure CWorkflow functionalities (continued)

Functionality	Description	Essential	Type	Module
Management Actions—Delete action	Allows user to delete a new action	No	A,P	Plugin: Cworkflow
Management Actions—Edit action	Allows user to edit a new action	No	A,P	Plugin: Cworkflow
Media Management	Controls the settings for Media Management functionalities	No	A,P	Plugin: Cworkflow
Media Management—Create new medium	Allows user to create a new medium	No	A,P	Plugin: Cworkflow
Media Management—Delete medium	Allows user to delete a new medium	No	A,P	Plugin: Cworkflow
Media Management—Edit medium	Allows user to edit a new medium	No	A,P	Plugin: Cworkflow
Workflow management	Controls the settings for Workflow management functionalities	No	A,P	Plugin: Cworkflow
Workflow management—Delete workflow	Allows user to delete a workflow	No	A,P	Plugin: Cworkflow
Workflow management—Edit workflow	Allows user to edit a workflow	No	A,P	Plugin: Cworkflow
Workflow management—Get workflow authorizations list	Allows user to get a workflow authorizations list	No	A,P	Plugin: Cworkflow
Workflow management—Load workflow	Allows user to load a workflow	No	A,P	Plugin: Cworkflow
Workflow management—New workflow	Allows user to create a new workflow	No	A,P	Plugin: Cworkflow
Workflow management—Protect workflow	Allows user to protect a workflow	No	A,P	Plugin: Cworkflow
Workflow management—Unprotect workflow	Allows user to unprotect a workflow	No	A,P	Plugin: Cworkflow
Workflow management—View workflows list	Allows user to view a workflows list	No	A,P	Plugin: Cworkflow

Events and Alerts

Table 3-34 describes the functionalities that control events and alerts management.

Table 3-34 Events and Alerts functionalities

Functionality	Description	Essential	Type	Module
Events and Alerts	Controls settings for all Events and Alerts functionalities	No	A,P	Plugin: Cworkflow/Event Engine
Execute campaign from scheduled task	Allows user to execute a campaign from scheduled task	No	A,P	Plugin: Cworkflow/Event Engine
Export campaign cell	Allows user to exports an action from campaign cell	No	A,P	Plugin: Cworkflow/Event Engine
Load campaign responses	Allows user to specify loading campaign responses	No	A,P	Plugin: Cworkflow/Event Engine
Notify change of stage	Allows user to specify a stage change notification	No	A,P	Plugin: Cworkflow/Event Engine
Send campaign execution results	Allows user to specify sending campaign execution results	No	A,P	Plugin: Cworkflow/Event Engine

Data Mining

Table 3-35 describes the functionalities that control data mining management.

Table 3-35 Data Mining functionalities

Functionality	Description	Essential	Type	Module
Data Mining	Controls settings for all Data Mining functionalities	No	A,P	Plugin: Data Mining
Preprocessing	Controls access to preprocessing capabilities	No	A,P	Plugin: Data Mining

Algorithms

Table 3-36 describes the functionalities that control data mining—algorithms management.

Table 3-36 Algorithms functionalities

Functionality	Description	Essential	Type	Module
Algorithms	Controls settings for all Algorithms functionalities	No	A,P	Plugin: Data Mining
Apply C4.5 model	Schedule a C4.5 model application (decision tree or clustering)	No	A,P	Engine and events alerts
Apply KMeans model	Schedule a KMeans model application (decision tree or clustering)	No	A,P	Engine and events alerts

(continues)

Table 3-36 Algorithms functionalities (continued)

Functionality	Description	Essential	Type	Module
Calculate Association Rules	Determine screen visibility for association rules analysis	Yes	A,P	Plugin: Data Mining
Calculate time series	Calculate a Holt-Winters analysis	No	A,P	Plugin: Data Mining
Create Association Rules	Execute association rules analysis	Yes	A,P	Plugin: Data Mining
Create Cluster	Create a model of cluster type	No	A,P	Plugin: Data Mining
Create Tree	Create decision tree	No	A,P	Plugin: Data Mining
Execute Time Series Pre-Analysis	Execute a Holt-Winters pre-analysis	No	A,P	Plugin: Data Mining
Export Association Rules	Export association rules analysis	Yes	A,P	Plugin: Data Mining
Export Time Series	Export the result of a Holt-Winters analysis	No	A,P	Plugin: Data Mining
Get Calculated Association Rules	Get association rules analysis	Yes	A,P	Plugin: Data Mining
Get Calculated Time Series	Get a Holt-Winters analysis from cache	No	A,P	Plugin: Data Mining
Get tree graphical representation	Acquire SVG tree representation	No	A,P	Plugin: Data Mining
Test decision tree	Evaluate tree decision	No	A,P	Plugin: Data Mining

Preprocesses

Table 3-37 describes the functionalities that control preprocesses management.

Table 3-37 Preprocesses functionalities

Functionality	Description	Essential	Type	Module
Data Mining	Controls settings for all Preprocesses functionalities	No	A,P	Plugin: Data Mining
Normalize column	Allows user to normalize a column	No	A,P	Plugin: Data Mining
Remap Column	Allows user to remap a column	No	A,P	Plugin: Data Mining

Preferences

Table 3-38 describes the functionalities that control preferences management.

Table 3-38 Preferences functionalities

Functionality	Description	Essential	Type	Module
Preferences	Controls settings for all Preferences functionalities	Yes	A,P,E	Frontend: Start Session
Get password policy	Limits access to the password policy	No	A,P,E	Admin
Recover security policies	Controls access to the rules required in adding a user password	Yes	A,P,E	Frontend: Preferences
View languages	Allows access to the list of available languages	Yes	A,P,E	Frontend: Start Session
View topics	Allows access to the topic list	Yes	A,P,E	Frontend: Start Session

Statistics

Table 3-39 describes the functionalities that control statistics management.

Table 3-39 Statistics functionalities

Functionality	Description	Essential	Type	Module
Statistics	Controls settings for all Statistics functionalities	Yes	A,P,E	Frontend: Internal
Analysis statistics	Allows system to maintain statistics of a completed analysis	Yes	A,P,E	Frontend: Internal
Get column use information	Obsolete	Yes	A,P,E	Frontend: Internal
Get statistics status	Allows administrator to determine if statistics are authorized	No	A	Admin

Index

A

- access control lists 8, 10, 51, 54
- Access files 64
- access lists. *See* access control lists
- access permissions. *See* privileges
- access restrictions 9, 11, 49
- accessing
 - Administration application 4
 - assigned functionalities 8
 - assigned privileges 10
 - database objects 9, 48, 50
 - engine repository 30
 - user functionality information 49, 50
- accounts. *See* user accounts
- ACL functionality options 51
- ACL to objects option 5, 8–10
- action filters 27
- actions 27, 62, 63
- Actions functionality options 62
- activating user accounts 19
- active connections 31
- Active Directory systems 18, 19
- active security groups 49
- active users 37
- activity logs 51
- adding
 - links 64
 - passwords 18
 - profiles 13, 14, 54
 - scheduled tasks 62
 - security filters 11, 12, 51
 - security groups 8, 51
 - security roles 6, 54
 - user groups 21
 - users 19, 55
- add-on modules 34
- addresses (e-mail) 20
- admin_file_path parameter 43, 44
- administration application. *See* BIRT Analytics Administration application
- Administration list (Functionalities) 50
- administration operations 50
- administrative user 4
- administrator password 4
- aggregation 42, 60, 61
- alerts 62, 69
- Algorithms functionality options 69
- AltFrontEnd_ChartImage_URI parameter 36
- AltFrontEnd_Client_URI parameter 40
- AltFrontEnd_CSS parameter 40
- Analysis functionality options 55
- analysis tool. *See* DDW analysis tool
- analysisStatistics parameter 37
- Analytics application. *See* BIRT Analytics

- anonymous user access 50
- Application Log option 5, 15–16
- application logs 51
- application processing activity 15
- application title 38
- applications 30
- apptitle parameter 38
- association rules analysis 31, 70
- AuditAllowed parameter 37, 39
- auditing 15, 16, 37, 39
- authentication 43
- authorization 52, 56
- autocleanup parameter 41
- autolinkjumps parameter 42
- autoregeneratederived parameter 41

B

- bbfGraphXsl parameter 35
- BIRT Analytics Administration application 4, 38, 48
- BIRT Analytics Administration modules 4, 49
 - See also* specific module
- BIRT Analytics Application 32
- BIRT Analytics Client application 39
- BIRT Analytics engine 30, 32
- BIRT Analytics engine repository 17, 30, 54
- BIRT Analytics FastDB (dubnium) engine 40
- BIRT Analytics system 4, 18, 30, 39
- BIRT Analytics system log files 15–16
- Bubble diagram functionality options 56
- buffer size 42
- buffer_size_datasources parameter 42

C

- ca_cert parameter 43
- cache 18, 31
- cache files 34, 54, 61
- cacheFolder parameter 31
- cachestore parameter 34
- Calculate Map operations 58
- Calculate Pareto functionality options 56
- calculations 18, 26, 49
- Campaign management functionality options 65
- Campaign planning functionality options 67
- campaign workflow functionalities 65, 67
- campaigns 69
- category lists 6
- cert_country parameter 44
- cert_email parameter 44
- certificate parameter 44
- certificates 43
- cert_locality parameter 44
- cert_organization parameter 44
- cert_service_names parameter 44
- cert_state parameter 44

- changing
 - analysis definitions 55
 - configurations 4, 30, 32
 - database structures 17
 - NSWL queries 12
 - passwords 4, 20
 - profile settings 14, 54
 - resolution levels 48
 - security filter settings 12, 51
 - security group settings 9, 51
 - security role settings 7, 54
 - user accounts 20
 - user groups 22
 - user settings 55
 - Venn diagrams 36
- character sets 40
- character strings 15, 18
- charts 36
- client applications. *See* BIRT Analytics Client application
- closing BIRT Analytics applications 4
- clustering 70
- columns
 - auditing sensitive data and 17
 - counting discrete values in 48
 - indexing 50
 - limiting access to 9, 50, 51, 64
 - making permanent 60
 - regenerating 41
 - tracking usage 27, 37, 59
 - updating 17, 61
 - validating discrete values in 49
- columnsStatistics parameter 37
- config parameter 41
- configuration files 30, 32, 38, 39, 40
- Configuration functionality options 52
- configuration keys 49
- Configuration module 4, 22–25
- configuration parameters
 - BIRT Analytics 32, 34
 - BIRT Analytics Administration 38
 - BIRT Analytics Client 39
 - FastDB engine 41
 - Functionalities categories 48
 - ProtonWS application 31
- configuration settings 4, 49
- configurations 4, 30
- Configure CWorkflow functionality options 67
- Configure SMTP server module 23, 25
- connection pool 31, 51
- connections
 - BIRT Analytics Administration application 4
 - BIRT Analytics engine 37
 - BIRT Analytics FastDB engine 43
 - closing 40
 - monitoring state 26
 - Proton2 engine 31
 - purging obsolete 51
 - SMTP mail servers 25
- Connections management option 26
- connectionstring parameter 34
- connectiontimeout parameter 43
- connectiontype parameter 34
- connect_timeout parameter 43
- copying
 - profiles 14
 - security filters 12
 - security groups 8
 - security roles 6
- creating
 - key fields 50
 - links 64
 - passwords 18
 - profiles 13, 14, 54
 - scheduled tasks 62
 - security filters 11, 12, 51
 - security groups 8, 51
 - security roles 6, 54
 - user groups 21
 - users 19, 55
- Crosstab functionality options 57
- crosstabs 41, 49, 57
- CSV files 27
- currentLogLevel parameter 37, 39
- CWorkflow functionality options 65
- cxcachepagesize parameter 41

D

- DAP parameter 37
- data 15, 17, 50
- data analysis functionality 49, 55
- data cache 18, 31
- Data Exploration functionality options 59
- data export operations 26, 27, 31, 34, 59, 63
- data import operations 26, 31, 36, 63
- data mining functionalities 69
- Data Mining functionality options 69
- data object privileges 10
- data objects 9, 17, 52
- data repository 17, 30, 54
- data retrieval processes 31
- data sources 40, 42
- data synchronization operations 53, 54
- Data Tree functionality 48
- database objects 8, 48, 50
 - See also* data objects
- database structures 48, 52
- databases 9, 17, 50
- date filters 27
- date formats 42
- DAU parameter 37
- DDW analysis tool 23, 26
- DDWCronServiceName parameter 37
- deactivating user accounts 19
- debugging 15

- decimal precision 42
- decision trees 70
- decode fields 60, 61
- default formats 42
- default password (Administration application) 4
- DefaultClient parameter 34
- defaultformatdate parameter 42
- defaultformatdatetime parameter 42
- defaultformatreal parameter 42
- defaultformattime parameter 42
- DefaultHelpLanguage parameter 40
- DefaultLanguage parameter 34
- defaultpagesize parameter 42
- defaultprecision parameter 42
- Define sensitive data option 5
- deleting
 - cache files 54
 - links 64
 - profiles 14, 54
 - scheduled tasks 62
 - security filters 12, 51
 - security groups 10, 51
 - security roles 7, 54
 - SVG files 24, 58
 - temporary files 18
 - user groups 22
 - users 20, 55
- dh_filename parameter 44
- discrete operations 42
- discrete values 48, 59
- discreteGraphXsl parameter 35
- disk space 26
- displaying
 - access control lists 10
 - connection information 26
 - database tables 50
 - databases 50
 - discrete values 50
 - groups 8, 10
 - security roles 54
 - SVG images 23
 - users 10, 55
- document generation 22, 36
- documentation iii
- domain count 42
- domain resolution levels 49
- domains 48, 49, 58, 60
- downloading
 - column statistics 27
 - Proton2 data stream 37
- dubnium engine 40
- duplicating
 - profiles 14
 - security filters 12
 - security groups 8
 - security roles 6
- Dynamic Data Web utility. *See* DDW analysis tool

E

- Edit engineering fields functionalities 61
- editing NSWL queries 12
- ElectronFileTransfer parameter 40
- e-mail addresses 20
- e-mail notifications 25, 63
- enable_daemon parameter 44
- enable_dbfibrillator parameter 44
- enable_insecure_port parameter 44
- enable_secure_port parameter 44
- engine management events 37
- Engine security functionality options 59
- engine settings 51
 - See also* BIRT Analytics engine
- engineering fields functionalities 61
- Engineering functionality options 60
- error events 15
- error information 15
- event register manager 36, 37
- events 37, 39, 62, 69
- Events and Alerts functionality options 62, 69
- Evolution diagram functionality options 57
- expiration (passwords) 18
- expiration date (user accounts) 19
- export files 34, 63
- Export folder 26
- export operations 26, 27, 31, 34, 59, 63
- ExportAssociationRulesXsl parameter 35, 37
- ExportCSVXsl parameter 35
- ExportDiscreteCSVXsl parameter 36
- exportFolder parameter 31
- ExportHTMLXsl parameter 35
- ExportProfileXsl parameter 36
- ExportStore parameter 34
- expression fields 60, 61

F

- FastDB engine 40
- fatal errors 15, 37
- features 4
- fields (log files) 16
- file formats 25
- file operations 52
- file size setting 38, 40
- file transfer page 37
- Filelines parameter 36
- files
 - adding to report headers 25, 48
 - deleting SVG map 24
 - deleting temporary 18, 54
 - downloading column statistics to 27
 - export operations and 34
 - import operations and 36
 - monitoring temporary 26
 - removing cache 54
 - setting size of 38, 40
 - storing SVG map 34

- files (*continued*)
 - storing temporary 34
 - uploading SVG map 23, 58
- FileTransferPage parameter 37
- filter functionalities 51
- filtering
 - log data 15
 - security groups 11–12
- filters 27
- firstdiscretethreshold parameter 42
- folders 49
- Folders functionality options 52
- font size 24
- fonts 24, 40
- formats 42
- freeing resources 18
- frequency distribution 59
- frequencyXsl parameter 35
- FrontendLanguageFile parameter 40
- functionalities 8, 48
- Functionalities categories 6, 48
- Functionalities management options 53
- functionalities maps 51, 58

G

- Gallery functionality options 57
- General list (Functionalities) 48
- generating reports 24, 36
- GIF files 36
- graphs 36
- graphXsl parameter 35
- gridXsl parameter 35
- group 4
 - See also* security groups; user groups
- group lists 8, 10
- group names 8, 21
- Groups functionality options 53
- Groups management module 4, 21–22

H

- headers 25, 36, 48
- help (dubnium engine) 41
- help files 40
- help parameter 41
- Holt-Winters analysis 70
- hosts 43
- HTTP data traffic 11
- hyperlinks 42, 64

I

- ignoreDangerous parameter 31
- image file formats 25
- image files 23, 25, 36
- images 23, 36, 49
- import files 36, 63
- Import folder 26
- import operations 26, 31, 36, 63

- Import-Export functionality options 63
- importFolder parameter 31
- importfolder parameter 36
- Include users icon 10
- informational messages (events) 15
- installations 37
- Integrity functionality options 53
- IP addresses 31, 43
- ip parameter 44
- IporName parameter 31
- iWorkflowFolder parameter 31

K

- key fields 50

L

- language settings 19, 34, 40, 71
- language translations 38, 40
- languageFile parameter 34, 38, 40
- lcontrol parameter 37, 40
- LDAP group 13
- LDAP group profiles 13
- LDAP servers 13, 18, 48
- LDAP settings 49
- license files 41
- license parameter 41
- licenses 37
- links 42, 64
- Links functionality options 64
- lists 8, 10, 20
- load data operations 49
- load profile functionality 54
- locale parameter 41
- log files 16, 51
- log options (dubnium engine) 42
- logconnectionstring parameter 36, 38
- logconnectiontype parameter 36, 38
- logging in to Administration application 4, 50
- logging levels (event register manager) 37, 39
- logging out of BIRT Analytics system 4
- logging system data 15–16
- login IDs 19

M

- mail servers. *See* SMTP servers
- Map diagram functionality options 57
- Map management module 23–24
- maps (SVG) 23–24, 34
- MapStore parameter 34
- margins 24
- maxConnection parameter 31
- MaxFileSize parameter 38, 40
- maximumprecision parameter 42
- maxItemsAllowedForAssociationRuleAnalysis parameter 32
- maxmemorysystem parameter 42
- maxmemorythread parameter 42

- maxPageSizeReadingTransactionsForAssociation
 - RuleAnalysis parameter 31
- max_pivot_values parameter 42
- maxPoolEntries parameter 31
- maxrequestlen parameter 43
- maxRulesAllowedForAssociationRuleAnalysis
 - parameter 32
- maxTransactionsAllowedForAssociationRuleAnalysis
 - parameter 32
- memory options (dubnium engine) 42
- memory usage 18
- memorylogenabled parameter 42
- message transmission security 25
- messages (log file) 15
- modules (BIRT Analytics) 4, 49
 - See also* specific module
- monitoring system performance 15
- Monitoring use module 4, 26–27
- msGraphXsl parameter 35

N

- names
 - administrative user 4
 - profiles 13, 14
 - Proton2 engine process 31
 - searching 15
 - security filters 11, 12
 - security groups 8
 - security roles 6, 7
 - SMTP servers 25
 - user 19
 - user groups 21
- NetScaler Web Logging 11
- nonlinked_aggregated parameter 42
- notifications 25, 63
- NSWL queries 11, 12
- numeric formats 42
- numeric range fields 61, 62

O

- object authorizations 52
- object filters 27
- obsolete connections 51
- obsolete data 18
- online documentation iii
- open analysis functionality 56
- operations 42, 49
- optimizing queries 27

P

- page size 42
- parameters. *See* configuration parameters
- parametric fields 60, 61, 62
- parent tables 50
- Pareto functionality options 56
- password keys 41
- password parameter 43

- Password policies option 5, 18
- passwords
 - BIRT Analytics Administration 4
 - BIRT Analytics engine 37
 - changing 4, 20
 - defining rules for 18, 50, 71
 - dubnium engine configurations 43
 - Proton2 engine connections 31
 - setting user 18, 19, 71
 - SMTP server configurations 25
- path parameter 42
- performance 15
- permissions. *See* privileges
- persistent connections 31, 51
- pivot columns 42
- plug-in modules 34
- Plug-ins functionality options 64
- port parameter 31, 44
- ports 25, 31, 43
- Preferences functionality options 71
- Preprocesses management functionalities 70
- preprocessing 69
- print map operations 58
- private_key parameter 44
- private_key_password parameter 44
- privileges
 - database objects 9
 - displaying 8, 10
 - LDAP groups 13
 - security groups 52
 - security roles 6, 48
 - SMTP server 52
- processing activity 15
- Profile functionality options 54, 58
- profile names 13, 14
- profiles 13–14, 36, 54, 58
- profiles lists 54
- Profiles option 5, 13–14
- Proton2 service 35
- ProtonWS application 30
- ProtonWS service 37, 38, 40
- proxy servers 42
- proxy_addr parameter 43
- proxy_exceptions parameter 43
- proxy_password parameter 43
- proxy_port parameter 43
- proxy_type parameter 43
- proxy_username parameter 43
- pwd parameter 31

Q

- quantile fields 60, 61, 62
- queries 11, 12, 16, 27

R

- rand_filename parameter 44
- ranking fields 60
- RDP options (dubnium engine) 42

- read activities 16
- records 18, 59
- reference maps (SVG) 23–24, 34
- register_service parameter 41
- remote data provider options 42
- Remove temporal information option 5, 18
- removing
 - cache files 54
 - links 64
 - profiles 14, 54
 - scheduled tasks 62
 - security filters 12, 51
 - security groups 10, 51
 - security roles 7, 54
 - SVG files 24, 58
 - temporary files 18
 - user groups 22
 - users 20, 55
- renaming
 - profiles 14
 - security filters 12
 - security groups 9
 - security roles 7
- report headers 25, 36, 48
- report styles 24, 36, 49
- report titles 24
- repository 17, 30, 54
- repository database mappings 52
- repository parameter 41
- resolution levels 48
- resources 18
- result sets (search) 16, 27
- Rich Text Format 24, 36, 48
- role names 6, 7
- roles 6–7, 54
- Roles functionality options 54
- root_ca_certificate parameter 44
- RTF formats 24, 36, 48
- RTF style definitions 49
- rtfmgHeader parameter 36
- RTFStyle parameter 36
- rules 18, 50, 71
- running scheduled tasks 62

S

- save analysis functionality 56
- saveimages parameter 40
- save_uri parameter 40
- scheduled tasks 62, 63
- search operations 27
- search results 16, 27
- searching log data 15
- secure parameter 31
- Secure Sockets Layer transmissions 25, 31
- secure_port parameter 44
- security 4, 25, 48
- security filters 11–12, 51
- Security filters option 5, 11–12

- security group functionalities 51
- security groups 8–10, 13, 49, 51
- Security module 4, 5
- security policies 51
- Security role management option 5, 6–8, 48
- security role names 6, 7
- security roles 6–7, 54
- security systems 18, 19, 49
- selections 49, 56
- sending e-mail notifications 25, 63
- sensitive data 15, 17, 50
- Sensitive data option 16
- server configurations (SMTP) 25
- server names 25, 37
- server options (dubnium engine) 43
- servers 26, 42, 52
 - See also* Active Directory systems
- SessionTimeout parameter 40
- setpkpass parameter 41
- shared folders 49
- Show Access List icon 8, 10
- SMTP servers 25, 52
- SortValidColumnsXsl parameter 36
- SSL port 31
- SSL transmissions 25, 31
- ssl_mode parameter 43
- sslPort parameter 31
- ssl_verify parameter 43
- Statistics functionality options 71
- Statistics of use option 27
- strings 15, 18
- style settings (reports) 24
- styles 36, 49
- Styles admin module 23, 24
- summaryTableXsl parameter 35
- SVG images 23
- SVG map files 23–24, 34, 58
- synchronization 53, 54
- Synchronize option 5, 17
- system performance 15
- SYSTEM user 4

T

- tables 9, 17, 50, 60
- tasks 62, 63
- Temp folder 26
- temporal files 18
 - See also* temporary files
- Temporal files option 26
- temporary files 18, 26, 34, 54
- temporary records 18
- text files 27
- text strings 15, 18
- themes 19
- threads parameter 43
- time formats 42
- timeout parameter 43
- time-out settings 43

- titles (BIRT Analytics) 38
- titles (reports) 24
- tracking
 - HTTP data traffic 11
 - sensitive data 15, 17
 - system performance 15
 - user activities 16
- transactions 32
- transient files. *See* temporal files
- translations 38, 40
- troubleshooting 15

U

- unregister_service parameter 41
- update activities 16
- updating
 - column definitions 61
 - columns 61
 - connection information 26
 - security groups 9
 - security roles 7
 - system database 17
 - temporary file information 26
 - user accounts 20
 - user groups 22
 - user profiles 14
- upload file size setting 38, 40
- uploading
 - files 64
 - images 25, 49
 - SVG maps 23, 58
- URLs
 - Administration application 4
 - file transfer page 37
- usage statistics analysis 37
- use_proxy parameter 42
- user accounts 19–20
- user filters 27
- user functionalities 49, 50
- user groups 10, 21, 56
 - See also* security groups
- user information 15, 49, 50, 55
- User management module 4, 19–20
- user names
 - BIRT Analytics Administration logins 4
 - BIRT Analytics engine connections 37
 - BIRT Analytics system 19
 - dubnium engine configurations 43
 - Proton2 engine connections 31
 - SMTP server configurations 25

- user parameter 31
- user profiles 13–14, 36, 54, 58
- user settings 19
- user types 19
- username parameter 43
- users 4, 13, 18, 50
- Users functionality options 55

V

- validating NSWL queries 11, 12
- values list 62
- values. *See* discrete values; data
- Venn diagram functionality options 58
- Venn diagrams 36, 40
- VennFontFamily parameter 40
- vennImgFolder parameter 36
- verbosity parameter 42
- version parameter 41
- viewer files 34
- viewerChartStyle parameter 36
- ViewerStore parameter 34
- viewing
 - access control lists 10
 - connection information 26
 - database tables 50
 - databases 50
 - discrete values 50
 - groups 8, 10
 - security roles 54
 - SVG images 23
 - users 10, 55

W

- warnings 15
- WdFunnelXsl parameter 36
- web services 30, 40
- web transmissions 25, 31
- winsvc_pass parameter 44
- winsvc_user parameter 44
- workflow functionalities 65, 67
- workflow processing 31
- WSLongTimeOut parameter 35, 38, 40

X

- XML configuration files 30
- XML files 34
- XML formats 63
- xmlclassdictionary parameter 34
- xmlpluginclassdictionary parameter 34

