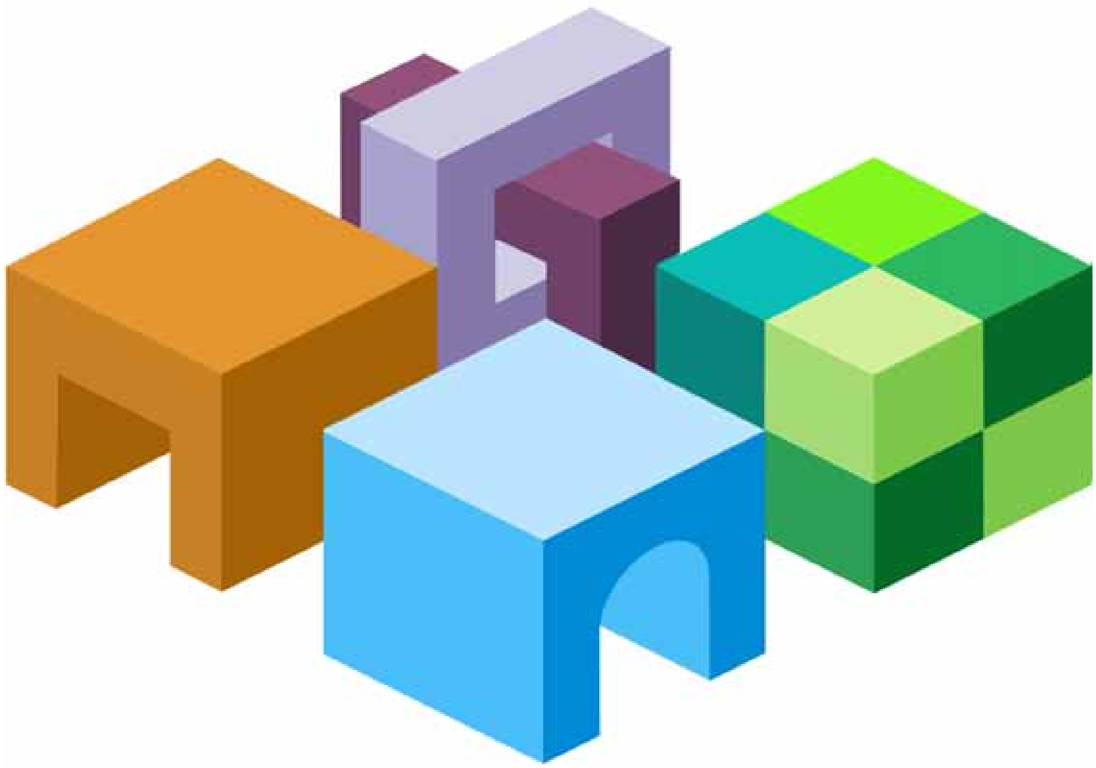

# HYPERION® SYSTEM™ 9

## BUSINESS RULES™

*RELEASE 9.2*

## WEB LAUNCHER USER'S GUIDE

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# Contents

# Preface

Welcome to the *Hyperion System 9 Business Rules Web Launcher User's Guide*. This preface discusses the following topics:



## Purpose

This guide provides business users with the information needed to launch business rules using the Web Launcher within Hyperion System 9 Business Rules (Business Rules).

## Audience

This guide is for business users responsible for launching business rules.

## Document Structure

This document contains the following information:

Chapter 1, "Introduction," introduces the features and benefits of Business Rules, describes typical users and tasks, lists prerequisite knowledge and concepts to learn before getting started, and describes what's new in this release.

Chapter 2, "Using the Web Launcher" contains instructions for launching a business rule from a Web browser.

The Glossary contains a list of key terms and their definitions.

The Index contains a list of Business Rules terms and their page references.

# Where to Find Documentation

Business Rules documentation is accessible from the following locations:

- The Business Rules Information Map, which contains links to the Business Rules documentation, is accessible from the Windows Start menu.
- Online help is available for Business Rules from within Hyperion® System™ 9 BI+™ Analytic Administration Services™ (Analytic Administration Services). After you log on to the product, you can access online help by clicking the Help button or selecting Help from the menu bar.
- Online help is also available from within the Business Rules Web Launcher. After you log on to the product, you can access online help by clicking the Help button or selecting Help from the menu bar.
- The Hyperion Download Center can be accessed from the Hyperion Solutions Web site.

➤ To access documentation from the Hyperion Download Center:

**1 Go to the Hyperion Solutions Web site.**

**Note:** Your Login ID for the Hyperion Download Center is your e-mail address. The Login ID and Password required for the Hyperion Download Center are different from the Login ID and Password required for Hyperion Support Online through Hyperion.com. If you are not sure whether you have a Hyperion Download Center account, follow the on-screen instructions.

**2 In the Login ID and Password text boxes, enter your e-mail address and password.**

**3 In the Language list box, select the appropriate language and click Login.**

**4 If you are a member on multiple Hyperion Solutions Download Center accounts, select the account that you want to use for the current session.**

**5 To access documentation online, from the Product List, select the appropriate product and follow the on-screen instructions.**

# Help Menu Commands

Table i describes the commands that are available from the Help menu in Business Rules and Business Rules Web Launcher.

**Table i** Help Menu Commands

| Command | Description |
|---|---|
| Help on This Topic | Launches a help topic specific to the window or Web page. |
| Contents | Launches Business Rules Help |
| Technical Support | Launches the Hyperion Technical Support site, where you submit defects and contact Technical Support. |

**Table i** Help Menu Commands

| | |
|---|---|
| Developer's Network | Launches the Hyperion Developer Network site, where you access information about known defects and best practices. This site also provides tools and information to assist you in getting starting using Hyperion products:<br>● Sample models<br>● A resource library containing FAQs, tips, and technical white papers<br>● Demos and Webcasts demonstrating how Hyperion products are used |
| Hyperion.com | Launches Hyperion's corporate Web site, where you access a variety of information about Hyperion:<br>● Office locations<br>● The Hyperion Business Intelligence and Business Performance Management product suite<br>● Consulting and partner programs<br>● Customer and education services and technical support |
| About Hyperion System 9 Business Rules | Launches the About Hyperion System 9 Business Rules dialog box, which contains copyright and release information, along with version details. |

# Conventions

The following table shows the conventions used in this document.

**Table ii** Conventions Used in this Document

| Item | Meaning |
|---|---|
| ➤ | Arrows indicate the beginning of a procedure, which consists of one or more sequential steps. |
| Brackets [ ] | In examples, brackets indicate that the enclosed elements are optional. |
| **Bold** | Bold text indicates words or characters that you type exactly as they appear on the page. Bold in procedural steps highlights major interface elements. |
| CAPITAL LETTERS | Capital letters denote commands and various IDs. (Example: COPY DATA command). |
| Ctrl + 0<br><br>Ctrl+Q, Shift+Q | Keystroke combinations shown with the plus symbol (+) indicate that you should press the first key and hold it while you press the next key. Do not type the + symbol.<br><br>For consecutive keystroke combinations, a comma indicates that you press the combinations consecutively. |
| Example text | Courier font indicates that the material shown is a code or syntax example. |
| *`Courier italics`* | Courier italic text indicates a variable field in command syntax. Substitute your own values in place of the variable shown in Courier italics. |
| *ARBORPATH* | When you see the environment variable *ARBORPATH* in italics, substitute the value of ARBORPATH from your site. |

**Table ii** Conventions Used in this Document *(Continued)*

| Item | Meaning |
|---|---|
| *n*, *x* | Italic *n* stands for a variable number; italic *x* can stand for a variable number or a letter. These variables are sometimes found in formulas. |
| Ellipses (...) | Ellipsis points indicate that text has been omitted from an example. |
| Mouse orientation | This document provides examples and procedures using a right-handed mouse. If you use a left-handed mouse, adjust the procedures accordingly. |
| Menu options | Options in menus are shown in the following format. Substitute the appropriate option names in the placeholders, as indicated.<br>***Menu name*** > ***Menu command*** > ***Extended menu command***<br>For example: 1. Select **File** > **Desktop** > **Accounts**. |

# Additional Support

In addition to providing documentation and online help, Hyperion offers the following product information and support. For details on education, consulting, or support options, click the Services link on the Hyperion Solutions Web site.

## Education Services

Hyperion offers instructor-led training, custom training, and e-Learning covering all Hyperion applications and technologies. Training is geared to administrators, end users, and information systems professionals.

## Consulting Services

Experienced Hyperion consultants and partners implement software solutions tailored to clients' particular reporting, analysis, modeling, and planning requirements. Hyperion also offers specialized consulting packages, technical assessments, and integration solutions.

## Technical Support

Hyperion provides enhanced telephone and electronic-based support to clients to resolve product issues quickly and accurately. This support is available for all Hyperion products at no additional cost to clients with current maintenance agreements.

# Documentation Feedback

Hyperion strives to provide complete and accurate documentation. Your opinion on the documentation is of value, so please send your comments by going to http://www.hyperion.com/services/support_programs/doc_survey/index.cfm.

# 1 Introduction

This section describes the features and benefits of using Business Rules, the types of roles in Business Rules, and the basic concepts and terminology you should be familiar with before you begin to use Business Rules. It also describes the components of Business Rules and, at a high level, how to start using them to create and launch business rules.

**In This Chapter**



## About Business Rules

Business Rules guides users through the creation, execution, and management of business rules on Analytic Server, which is a component of Hyperion® System™ 9 BI+™ Analytic Services™ (Analytic Services).

In a traditional multidimensional application, users must program complicated calculations to perform the business rules they need. In addition, business rule logic creation, validation, and error detection are usually time consuming and frustrating for users. Also, users must modify the calculations often, sometimes weekly or hourly, to keep up with business demands. These frequent changes create high maintenance and incur high cost for the customers of analytic applications.

Business Rules improves the response time to changing business application needs, shortens application development cycles, increases business user productivity, improves re-use of application components, and increases the overall return on analytic application investments.

# Business Rules Features and Benefits

Business Rules makes it easy to create, run, and manage business rules and sequences in your multidimensional analytic application. The main features and benefits of Business Rules are described in the following topics.

## Easy to Create

- Macros simplify the creation of business rules and sequences, and save business rule designers time by enabling them to reuse pieces of business rules in other business rules or macros.
- Variables of the saved selection type can be used not only at run-time, but also during design time to make business rules easier to design.
- Pre-defined and re-usable formulas that define unique cost and revenue calculations save business rule designers time during the design process. The following formulas are provided:
    - Pro-Rata Ratio
    - Units-Rates
    - Variable
    - Custom
- The graphical depiction of components, formulas, and processes makes it easy to construct business rules in a multidimensional application.

## Easy to Use

- Business rules can be launched by business users from within Analytic Administration Services, the Business Rules Web Launcher, the Business Rules Command Line Launcher, and the Hyperion® System™ 9 Planning™ (Planning) Web Client.
- Business rules can be launched in all Analytic Server environments.
- Business rules can be stored and run on a server across a wide area network (WAN).
- Business rules with run-time prompts ensure valid inputs from budget preparers.
- Entry of run-time prompt values during launching makes a single, centrally created business rule reusable by several users.

## Easy to Maintain

- The Business Rules architecture supports enterprise-wide maintenance and methods of use that can be successfully managed and deployed to multiple business users.
- Business rules, sequences, macros, variables, and projects can be stored in any of the following repositories: Microsoft Access, Microsoft SQL Server, Oracle, or DB2 for shared, enterprise-wide access.

- Use of a central repository makes administration and maintenance of business rules easy, because the repository stores information for several applications in one database.
- The logical organization of business rules, sequences, macros, and variables into projects makes them easier to find and maintain.

# Business Rules Roles

The following table summarizes the typical Business Rules roles and the types of tasks that can be performed by the users and groups who are assigned these roles.

**Note:** You set up users and groups, and assign roles to them, in Hyperion® System™ 9 Shared Services™ User Management Console. For more information, see the *Hyperion System 9 Shared Services User Management Guide*.

| Hyperion Business Role | Tasks that Can Be Performed |
|---|---|
| Administrator | A user or group who has the role of *administrator* can do any of the following tasks:<br>• Create, launch, edit, validate, and manage business rules, sequences, macros, variables, and projects<br>• Assign access privileges to business rules, sequences, macros, variables, and projects<br>• Create and edit users, groups, and roles<br>• Set up the repository and log file |
| Interactive User | A user or group who has the role of *interactive user* can do any of the following tasks:<br>• Create, launch, edit, validate, and manage business rules, sequences, macros, variables, and projects<br>• Assign access privileges (with the exception of the ability to launch business rules, which can only be assigned by an administrator) to business rules, sequences, macros, variables, and projects |
| Basic User | A user or group who has the role of *basic user* can do any of the following tasks:<br>• Launch business rules and sequences to which the user has access<br>• View business rules and sequences to which the users has access<br>• View all variables and macros<br>• Edit specific business rules, sequences, macros, variables, and projects for which the user was granted editing privileges |

# Business Rules Product Components

This release of Business Rules contains the following three components:

- Analytic Administration Services Administration Console (Administration Console): Administrators use the Administration Console in Analytic Administration Services to create, edit, validate, launch, and maintain both graphical and non-graphical business rules.
- Business Rules Web Launcher: Business users use the Business Rules Web Launcher to select a business rule, enter run-time prompts if necessary, and then launch the business rule on the Web.
- Business Rules Command Line Launcher: Administrators use the Command Line Launcher to schedule business rules to run from outside of Business Rules by creating a command line launch (or shortcut) on the desktop.

# Business Rules Prerequisite Knowledge

This section introduces Business Rules and the concepts that are important to know before using Business Rules. Hyperion recommends that users have introductory Analytic Services training, knowledge of their specific multidimensional applications, and familiarity with their existing business processes before using Business Rules.

## Before Using the Administration Console

Users should have the following Analytic Services knowledge before using the Administration Console:

- An understanding of the Analytic Services application, including database dimensionality and outline structure
- Knowledge of where the data is stored in the database, how the data is stored and aggregated, and at what level the data gets loaded into the database

For more information on Analytic Services applications, database dimensionality, and database outlines, see the *Hyperion System 9 BI+ Analytic Services Database Administrator's Guide.*

Users should also know the following aspects of their specific business processes:

- The order of calculations to take place
- The sequence of business rules
- The key assumptions being used to drive the calculations

## Before Using the Web Launcher

Users should have the following information about their business rules before using the Business Rules Web Launcher:

- Which business rules they need to run
- Where to get the values for run-time prompts that need to be entered
- When the business rules need to run
- Familiarity with both the application and the database outline

# Using the Administration Console

To access and use the Administration Console in Analytic Administration Services, Analytic Administration Services Server must be running. In addition, Analytic Server must also be running in order for you to select a database outline to refer to as you are creating your business rules, sequences, macros, and variables. For information on installing and starting Analytic Administration Services Server and Analytic Server, see the *Hyperion System 9 Analytic Administration Services Installation Guide.*

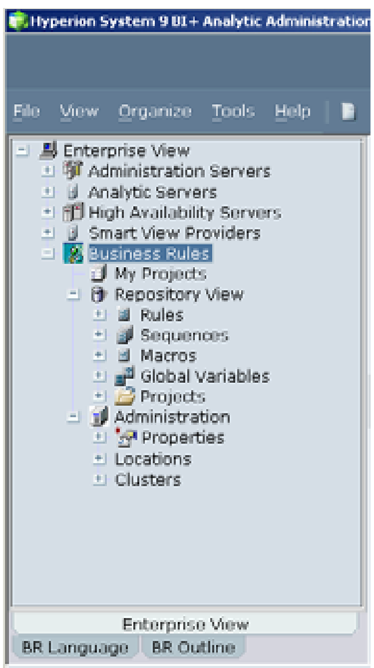
➤ To access the Administration Console:

1 Select **Start > Programs > Hyperion System 9 BI+ > Analytic Administration Services > Administration Console.**

2 On the **Analytic Administration Services Login** dialog box, enter a server name or select one from the drop-down list. Then enter your user name and password, and click **OK.**

The Analytic Administration Services window is displayed with Business Rules collapsed in the left frame of the window.

3 Expand the nodes under the Business Rule node to view their contents.




Business Rules contains the following three nodes:

- The My Projects node lists the projects in the Business Rules repository that were created by the logged on user. Projects are a convenient way to organize business rules, sequences, macros, and variables into logical groupings of information.
- The Repository View node lists all of the repository objects (business rules, sequences, macros, variables, and projects) that are in the Business Rules repository. You use the features in this node to create, edit, validate, launch, and manage repository objects.

- The Administration node lists the properties of the client and server. You use the features in this node to change the level of error reporting in the log file, to migrate the repository, and to import and export business rules.

Refer to the *Hyperion System 9 Business Rules Administrator's Guide* for information on using the features of the Administration Console in Analytic Administration Services.

## Using the Web Launcher

The Business Rules Web Launcher is designed for business users who need to run different types of business rules that address their particular business needs. Business users use the Web Launcher to run business rules that you create for them. In order to use the Web Launcher, a business user must have Calculate access to at least one database on Analytic Server. Follow the instructions in this guide to use the Business Rules Web Launcher.

# 2 Using the Web Launcher

This chapter provides information on launching a business rule using the Business Rules Web Launcher.

**Note:** In addition to launching a business rule from the Web Launcher, you can launch a business rule using Business Rules within Analytic Administration Services. See the *Hyperion System 9 Business Rules Administrator's Guide* for additional information.

**In This Chapter**

## Logging On to the Business Rules Web Launcher

To log on to the Business Rules Web Launcher, you need to enter a user name and password and select a server name.

➤ To log on to Business Rules Web Launcher:

1 **Enter the URL for the Web Launcher.**

Business users must browse to the URL that their administrators provide, using Microsoft Internet Explorer.

The URL for the Business Rules Web Launcher is:

```
http://[Computer name]:[port]/hbrlauncher
```

where `[Computer name]:[port]` is the name and port where the Analytic Administration Server is running. (10080 is the default port.)

Your administrator can provide you with the computer name and port number, if the default port number is not used.

After you enter the Web Launcher URL, a page to launch Business Rules Web Launcher is displayed.

2 **Click the link to launch Business Rules Web Launcher.**

**Note:** If you want to launch the Web launcher without any browser toolbars, select the the check box, "Check here to launch withwout browser toolbars."

The Web Launcher Logon Page is displayed.

3 **Enter the requested information in the Web Launcher Logon page.**

a. In the **User Name** text box, enter your user name.

b. In the **Password** text box, enter the password that corresponds with your user name.

c. In the **Server Name** text box, select a server name from the drop-down list.

4 **Click Logon.**

## Selecting a Business Rule to Launch

Use the Business Rules Home Page to select a business rule to launch. You can select from one of the following views to launch a business rule:

- Rules
- Sequences
- Projects
- Locations

Review the following sections for information on each of these options.

## Launching a Rule From the Rules View

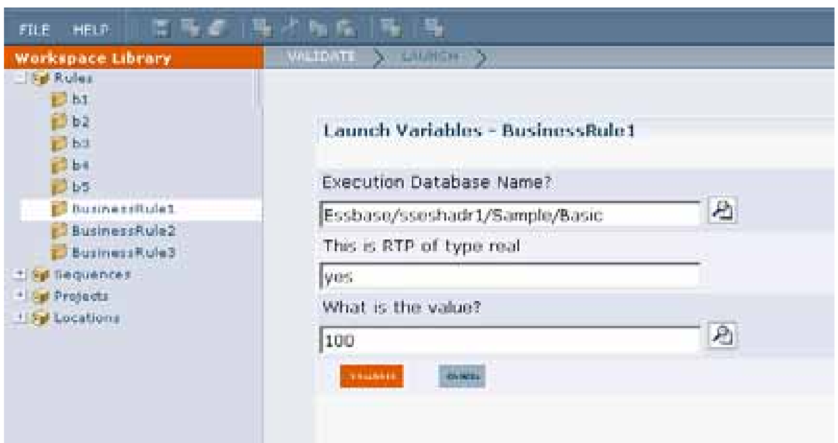
The Rules view displays all the business rules available to launch. The available business rules are the rules defined in Business Rules within Analytic Administration Services. All business rules in the repository for the server specified in the Logon URL and to which you have launch access will display.

➤ To select a business rule to launch:

1 **On the Business Rules Home page, click the plus sign (+) next to Rules and select the desired rule.**

Figure 1 shows the Business Rules Home page with the Rules folder expanded and a business rule selected.

**Figure 1** Rules View




2 **Verify the Execution Database Name.**

The Execution Database Name is the name of the Essbase or Planning database against which you want the Rule to execute.

When you create a rule, you can associate a database for which the rule is valid. This is the database that appears under Execution Database Name. If desired, you can change the database in the Execution Database Name field.

3 **If the rule contains run-time prompts, enter the requested information.**

See “Entering Run-time Prompts” on page 23 for more information on run-time prompts. The rule in Figure 1 contains two run-time prompts.

4 **Click Validate to validate the rule.**

If the rule validates with no errors, the Confirmation page displays; otherwise, an error page displays.

5 **Select the desired option on the Confirmation page and click Launch.**

You can choose to *Launch and Await Completion* or *Launch and Send Email When Complete*. See "Launching a Business Rule" on page 25 for more information on these options.

## Launching a Rule From the Sequences View

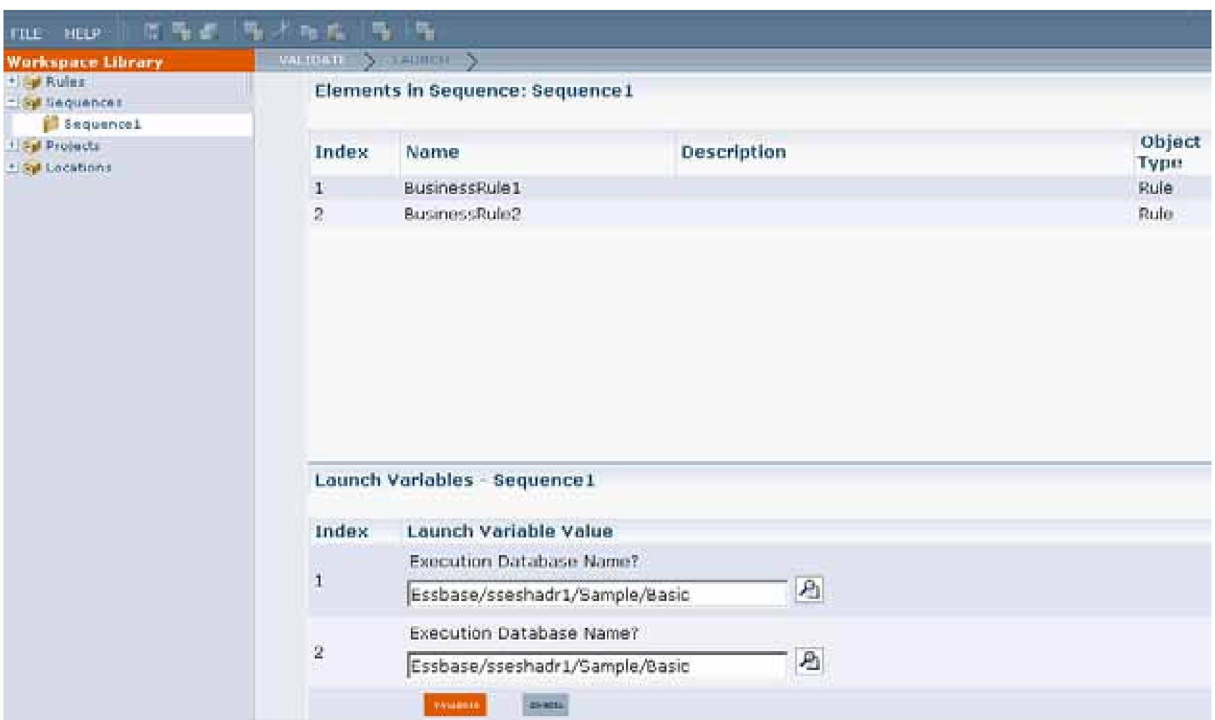
The Sequences view displays the available sequences. A sequence contains one or more business rules. When you launch a sequence, all the business rules in the sequence execute. The available sequences are the sequences defined in the Business Rules within Analytic Administration Services. All sequences in the repository for the server specified in the Logon URL and to which you have launch access will display.

➤ To select a sequence to launch:

1 **On the Business Rules Home page, click the plus sign (+) next to Sequences and select the desired sequence.**

Figure 2 shows the Business Rules Home page with the Sequences folder expanded. The sequence in this example contains two rules.

**Figure 2** Sequences View



2 **Verify the Execution Database Name.**

The Execution Database Name is the name of the Essbase or Planning database against which you want the Rule to execute.

When you create a rule, you can associate a database for which the rule is valid. This is the database that appears under Execution Database Name. If desired, you can change the database in the Execution Database Name field.

3 **If any of the rules in the sequence contain run-time prompts, enter the requested information.**

See “Entering Run-time Prompts” on page 23 for more information on run-time prompts. The rules in Figure 2 do not contain run-time prompts.

4 **Click Validate to validate the sequence.**

If the sequence validates with no errors, the Confirmation page displays; otherwise, an error page displays.

5 **Select the desired option on the Confirmation page and click Launch.**

You can choose to *Launch and Await Completion* or *Launch and Send Email When Complete*. See “Launching a Business Rule” on page 25 for more information on these options.

## Launching a Rule From the Projects View

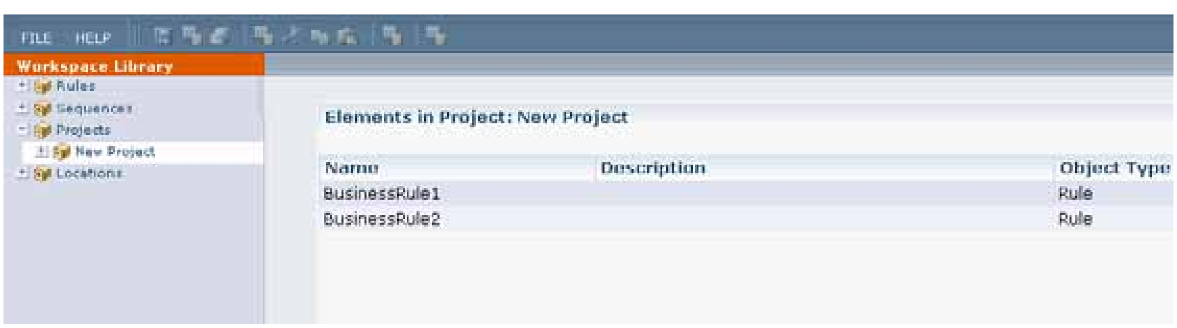
The Projects view displays the available projects. Use this view to select a business rule that is part of a specific project. The available projects are the projects defined in Business Rules within Analytic Administration Services. All projects in the repository for the server specified in the Logon URL and to which you have access will display. You can view the contents of one project at a time.

➤ To select a business rule in a project to launch:

1 **On the Business Rules Home page, click the plus sign (+) next to Projects and select the desired project.**

Figure 3 shows the Business Rules Home page with the Projects folder expanded and a project selected.

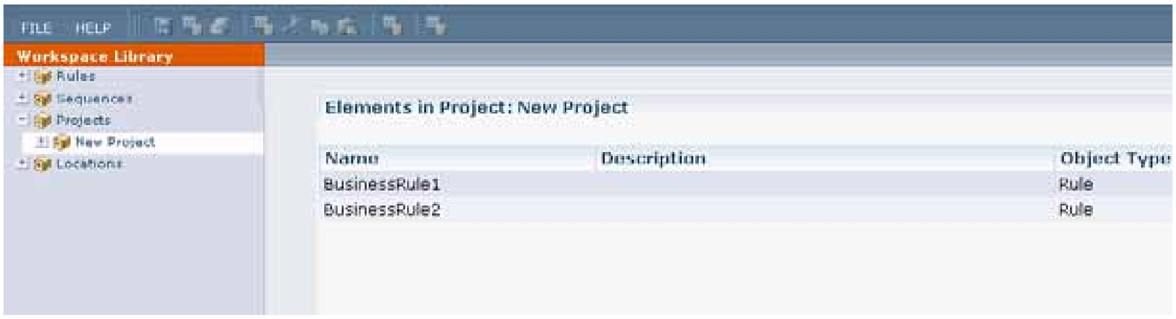
**Figure 3** Projects View



2 **From the within the selected project, select the business rule to launch.**

Figure 4 shows a project with a business rule selected.

**Figure 4** **Projects View with a Rule Selected**




3 **Verify the Execution Database Name.**

The Execution Database Name is the name of the Essbase or Planning database against which you want the Rule to execute.

When you create a rule, you can associate a database for which the rule is valid. This is the database that appears under Execution Database Name. If desired, you can change the database in the Execution Database Name field.

4 **If the rule contains run-time prompts, enter the requested information.**

See "Entering Run-time Prompts" on page 23 for more information on run-time prompts. The rule in Figure 4 contains two run-time prompts.

5 **Click Validate to validate the rule.**

If the rule validates with no errors, the Confirmation page displays; otherwise, an error page displays.

6 **Select the desired option on the Confirmation page and click Launch.**

You can choose to *Launch and Await Completion* or *Launch and Send Email When Complete*. See "Launching a Business Rule" on page 25 for more information on these options.

## Launching a Rule From the Locations View

The Locations view displays the business rules associated with a specific Essbase or Planning database. You associate rules with a database in Business Rules within Analytic Administration Services. All business rules in the repository for the specified database and to which you have launch access will display.

➤ To select a business rule to launch:

1 **On the Business Rules Home page, click the plus sign (+) next to Locations and select the desired Essbase or Planning database location.**

Figure 5 shows the Business Rules home page with the Locations folder expanded and a location selected.

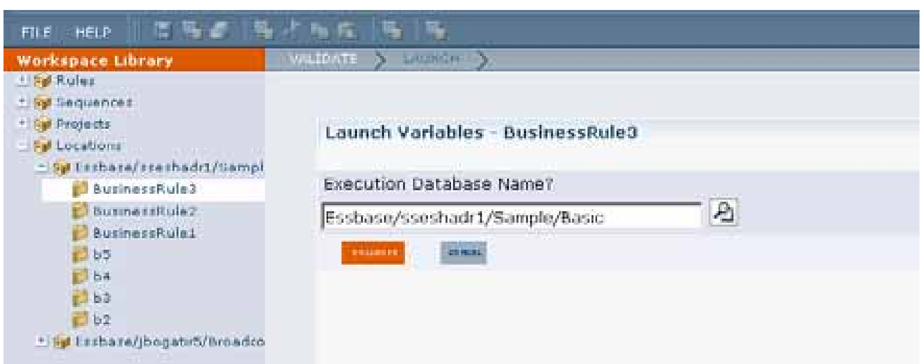
**Figure 5** Locations View


2 **From the within the selected location, select the business rule to launch.**

When you select a rule, the Essbase or Planning database appears under Execution Database Name.

Figure 6 shows a location with a business rule selected.

**Figure 6** Locations view with a Rule Selected




3 **If the rule contains run-time prompts, enter the requested information.**

See "Entering Run-time Prompts" on page 23 for more information on run-time prompts. The rule in Figure 6 does not contain any run-time prompts.

4 **Click Validate to validate the rule.**

If the rule validates with no errors, the Confirmation page displays; otherwise, an error page displays.

**5 Select the desired option on the Confirmation page and click Launch.**

You can choose to *Launch and Await Completion* or *Launch and Send Email When Complete*. See "Launching a Business Rule" on page 25 for more information on these options.

# Entering Run-time Prompts

Run-time prompts are values needed to execute the business rule. The run-time prompts that appear are the run-time prompts defined in Business Rules within Analytic Administration Services. The number and type of run-time prompts may vary. For example, you might be required to enter a member name, a number, or a percentage for a particular dimension.

➤ To enter a run-time prompt, type the run-time prompt value or click the button to the right of the text box to use the Member Selector.

Valid types of run-time prompts include:

- **Single Member** or **Multiple Members** — Click the Member Selector button to the right of the run-time prompt to choose members as run-time prompt values.
- **Number** — Enter a numerical value. Depending on how the administrator set this up, minimum and maximum limitations could exist.
- **Dimension** — Enter a dimension from the database. Used for enhanced calc script business rules only.
- **String** — Enter text. Used for enhanced calc script business rules only.

**Note:** If you enter a member name as a run-time prompt value, you must enclose it in quotes. If you use the Member Selector, the quotes are automatically included.

## Validating Run-time Prompts

➤ To validate a run-time prompt:

1. After entering a run-time prompt for a business rule, click **Validate.**
2. If one or more entries are invalid, an error message displays on the top of the screen. Correct the entry.
3. Click **Validate** again to correct the next invalid entry.

## Selecting Members as a Run-time Prompt Values

Review the following sections for information on:

- Selecting a Single Member
- Selecting Multiple Members
- Removing Members
- Moving Members Up and Down

## Selecting a Single Member

➤ To select a single member as a run-time prompt value:

1 **Click the Member Selector button.**

2 **In the Single Member Selector dialog box, select the member to use as a run-time prompt value and click OK.**

The selected member displays at the bottom of the screen.

## Selecting Multiple Members

➤ To select more than one member as a run-time prompt value:

1 **Click the Member Selector button.**

From the **Available** frame, select the desired member. Press the **Shift** key to select more than one member at a time.

2 **Click the right arrow to add the members to the Selected Members frame.**

## Removing Members

➤ To remove a members from a run-time prompt:

1 **Click the left arrow to remove the member from the Selected Members pane.**

2 **Click the double left arrow to remove all members from the Selected Members frame.**

## Moving Members Up and Down

➤ To move members up and down:

1 **From the Selected Members frame, select the desired member.**

Press the **Shift** key to select more than one member at a time.

2 **Click the up arrow to move the member up in the list in the Selected Members frame.**

3 **Click the down arrow to move the member down in the list in the Selected Members frame.**

# Launching a Business Rule

Use the Confirmation page to ensure that you are launching the correct business rule and to choose whether to wait for completion or continue with other tasks while the rule executes. You can select one of the following options:

- Launch and Await Completion
- Launch and Send Email When Complete

Review the following sections for information on each of these options.

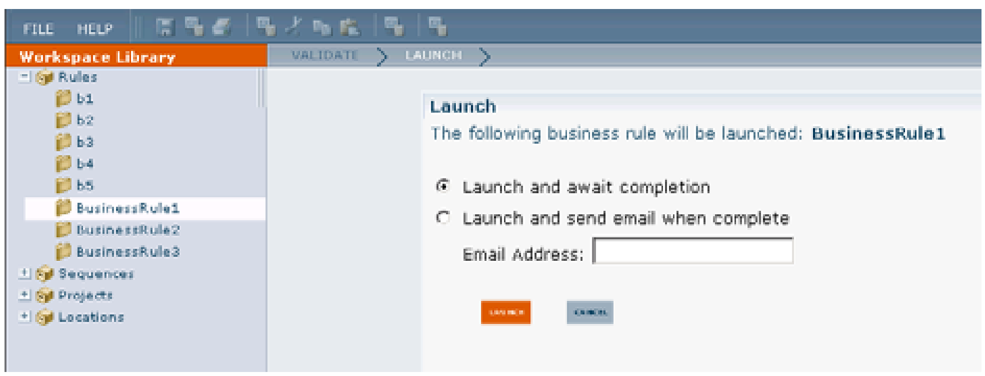
## Launch and Await Completion

Select this option to monitor the execution progress of a business rule.

➤ To launch a business rule and wait for its execution to complete:

1 **Ensure that the name of the business rule to launch is correct.**

2 **Select Launch and await completion.**




3 **Click Launch.**

If the execution takes longer than five seconds, a Progress page displays. When the execution completes, the message "*Execution Complete*" appears on the page

## Launch and Send Email When Complete

Select this option to continue with other tasks while your business rule or script executes. When execution completes, an email is sent to the email address you specify.

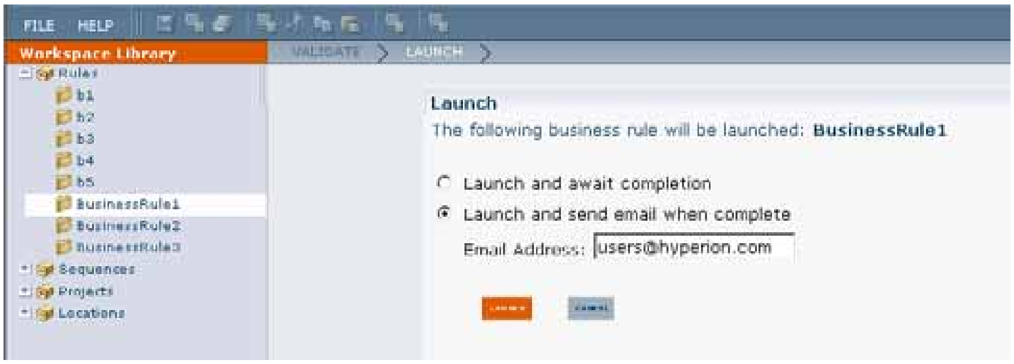
**Note:** To receive the processing results via email, go to <EAS_INSTALL_DIR>\eas\server\OlapServer.properties and set SMPT_HOST to your SMPT host machine.

➤ To launch a business rule and send an email when execution completes:

1 **Ensure that the name of the business rule to launch is correct.**

2 **Select Launch and send email when complete.**

3 **In the Email Address text box, enter the desired email address.**




4 **Click Launch.**

If the execution takes longer than five seconds, a Progress page displays. When the execution completes, the message "*Execution Complete*" appears on the page.

# Glossary

**Access rights** The authorization to view and/or modify business rules, sequences, macros, variables, and projects. Access rights are granted by the administrator or by the creator of the business rule, sequence, macro, variable, or project.

**Administrators** Users who can create, edit, launch, document, and manage business rules. Administrators can also set up security, assign access rights, and set up the repository and log file.

**Aggregation** A method of computing the data relationships for all parent/child combinations in a dimension. An aggregation is typically additive, but can be any type of calculation. For example, if the dimension Year consists of the members Qtr1, Qtr2, Qtr3, and Qtr4, its aggregation would be contained in Year.

**Block.** The primary storage unit in Analytic Services. A data block is a multidimensional array representing the cells of all dense dimensions.

**Business Rule** A series of components that may include parameters, functions, calculation commands, variables, and/or macros. The components are designed to perform a calculation that answers a business question (for example, what is the annual profitability of a product line). You can save a business rule as either a graphical business rule or an enhanced calc script.

**Business Rule Range** A selected portion of the database that represents the common dimensions in a business rule.

**Business Users** Users who run business rules that have been saved by an administrator. Before running a business rule, a business user may be prompted to fill in certain values in order to run that business rule.

**Calc Script.** A text file containing a set of instructions telling Analytic Services how to calculate a database.

**Calc Script Experts** Users who are skilled at writing and reading basic Analytic Services calc scripts, writing and reading enhanced calc scripts, and optimizing calc scripts to obtain the best performance possible. Calc script experts can also perform the tasks of an administrator.

**Cell** A unit of data representing the intersection of each dimension in a multidimensional database. Also, the intersection of a row and a column in a spreadsheet.

**Clear Data** A component that removes data from a destination.

**Component** An element of a business rule that can be a formula or an action. For example, Evenly-Split is a formula and Clear Data is an action.

**Copy Data** A component that copies a block of data from one area of the database to another area in the same database.

**Cube** A block of data that contains three or more dimensions. An Analytic Services database consists of miniature cubes that make up a larger cube, or hypercube. The database also consists of indexes that assist in data retrieval and a variety of additional files such as a database outline that defines the structure of the database, load rules, a security file, log files, and calculation and report scripts.

**Destination** A block of the database that receives the allocated amount.

**Dimension.** A type of run-time prompt that accepts a dimension name from the database at run-time. You use this prompt in enhanced calc script business rules only.

**Enhanced Calc Script** A calc script created with Business Rules that contains run-time prompts.

**Formula** The mathematical expression of a business rule. Examples of formulas are: Pro-Rata Ratio, Distribution Factor, Evenly-Split, Increase-Decrease, Units-Rates, Combined, Custom, or Variable.

**Formula Guide** A series of questions and prompts that guides users through defining a formula.

**Formula Range** A selected portion of the database representing the dimensions that are common to a particular business rule component.

**Lock** A security mechanism to prevent two people from simultaneously changing the same repository object (that is, a business rule, sequence, macro, variable, or project). As the creator of a repository object, you can lock it to prevent other users from viewing, editing, or launching it.

**Log file.** A file that contains information about which business rules were run, who ran them, and when they were run.

**Macro** A reusable part of a business rule that can be referenced by other business rules and macros to save users time when they are writing their business rules. Macros can contain variables and other macros, but they cannot contain themselves.

**Multiple Members** A type of run-time prompt that accepts many members and expressions you enter at run time. You can place limitations on this type.

**Number.** A type of run-time prompt that accepts numerical values at run-time. You can place minimum and maximum limitations on this type of run-time prompt.

**Power Users** Users who can create, edit, launch, document, and manage business rules. A power user may also be the administrator.

**Project** A grouping of business rules, sequences, macros, variables, and other projects.

**Repository** A central container that stores business rules and allows controls management of the business rules.

**Run-time Prompt.** A system variable that allows you to enter values upon selecting a business rule. Values can be a member, multiple members, strings, numbers, or a dimension.

**Saved Selection** An explicitly defined set of members across multiple dimensions. The selection does not change as the dimension is maintained.

**Sequence** A series of business rules that can be launched at a predefined time through scheduling software.

**Set.** A grouping of business rules.

**Single Member** A type of run-time prompt that accepts a member from the assigned dimension that you enter at run time. You can place limitations on this type.

**Source** A slice of the database or a number referenced in a calculation.

**String.** A type of run-time prompt that accepts text entered at run time. You use this type for enhanced calc script business rules only.

**Users** See *Administrators*, *Power Users*, and *Business Rule*.

**Variable** A quantity that can assume any of a set of values that you define for it. Designers can use variables to help design business rules and macros. At run-time, users may be prompted to supply values for variables in order to launch business rules and sequences.

**Web Launcher** A module in Business Rules that you use to enter run-time prompts and execute business rules via a Web interface.

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