IBM Cognos Migration Assistant
Version 10.1.1

User Guide

IBM
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Introduction

This information is intended for use with the IBM® Cognos® Migration Assistant, which converts IBM Cognos Series 7 metadata, Impromptu® catalogs and reports, PowerPlay® reports, and Upfront content to IBM Cognos Business Intelligence.

For information about upgrading ReportNet® 1.1, IBM Cognos Metrics Manager, IBM Cognos DecisionStream, or older versions of IBM Cognos BI to IBM Cognos BI, see the IBM Cognos BI Installation and Configuration Guide.

This document provides background information and step-by-step procedures to help you move metadata and applications from IBM Cognos Series 7 to IBM Cognos BI.

Audience

To use this information, you should have background knowledge in report authoring, metadata modeling, and security and server administration. You should also know how to use the IBM Cognos Series 7 product you are migrating from, and the IBM Cognos BI product you are migrating to. We recommend that you learn how to use IBM Cognos BI before starting migration. You should not use migration as a way to learn IBM Cognos BI.

Finding information

To find IBM Cognos product documentation on the web, including all translated documentation, access one of the IBM Cognos Information Centers. Release Notes are published directly to Information Centers, and include links to the latest technotes and APARs.

You can also read PDF versions of the product release notes and installation guides directly from IBM Cognos product disks.

Accessibility features

The Migration Assistant command line tools do not currently support accessibility features that help users with a physical disability, such as restricted mobility or limited vision, to use this product.

Forward-looking statements

This documentation describes the current functionality of the product. References to items that are not currently available may be included. No implication of any future availability should be inferred. Any such references are not a commitment, promise, or legal obligation to deliver any material, code, or functionality. The development, release, and timing of features or functionality remain at the sole discretion of IBM.

Samples disclaimer

The Great Outdoors Company, GO Sales, any variation of the Great Outdoors name, and Planning Sample depict fictitious business operations with sample data used to develop sample applications for IBM and IBM customers. These fictitious

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records include sample data for sales transactions, product distribution, finance, and human resources. Any resemblance to actual names, addresses, contact numbers, or transaction values is coincidental. Other sample files may contain fictional data manually or machine generated, factual data compiled from academic or public sources, or data used with permission of the copyright holder, for use as sample data to develop sample applications. Product names referenced may be the trademarks of their respective owners. Unauthorized duplication is prohibited.
Chapter 1. What's new?

This section contains a list of new and changed features for this release.

It also contains a cumulative list of similar information for previous releases. It will help you plan your upgrade and application deployment strategies and the training requirements for your users.

To review an up-to-date list of environments supported by IBM Cognos products, including information about operating systems, patches, browsers, Web servers, directory servers, database servers, and application servers, visit the Cognos Customer Center [http://www.ibm.com/software/data/cognos/customercenter].

New features in version 10.1.1

Listed below are new features since the last release. Links to directly-related topics are included where applicable.

Support for IBM Cognos Series 7 version 5 to IBM Cognos BI 10.1.1

This version of the IBM Cognos Migration Assistant tools supports migration from IBM Cognos Series 7 version 5 to IBM Cognos Business Intelligence 10.1.1.

Changed features in version 10.1.1

Listed below are changed features since the last release. Links to directly-related topics are included where applicable.

Improved zero suppression migration to Report Studio

In previous releases, zero suppression was migrated to IBM Cognos Report Studio using expressions that replicated totals-based suppression. IBM Cognos Series 7 PowerPlay suppression options, such as zero values and division by zero, are now migrated to the same options in Report Studio.

Related concepts

“Zero Suppression” on page 137

Zero suppression is partially migrated.

Deprecated features in version 10.1.1

A deprecated feature is one that is being replaced by a newer version or a better implementation. The intention is to discontinue the use of the feature and provide suggestions for adapting to this change over multiple releases.

The Migration Assistant command line tools

This version of the IBM Cognos Migration Assistant command line tools is the last one that IBM Cognos will release.

To migrate IBM Cognos Series 7 Impromptu, IBM Cognos Series 7 Architect, or IBM Cognos Series 7 PowerPlay content to future releases of IBM Cognos Report
Studio or IBM Cognos Analysis Studio, use this version of the migration tools to migrate to IBM Cognos Business Intelligence 10.1.1. Then upgrade the 10.1.1 content to the later release.

You can continue to migrate IBM Cognos Series 7 PowerPlay content to IBM Cognos PowerPlay by using the Migration Assistant that is included with IBM Cognos BI PowerPlay. For more information, see the IBM Cognos PowerPlay Migration and Administration Guide.

**Open with Report Studio and Open with Analysis Studio actions**

This is the last version that supports the migration of PowerPlay content residing in IBM Cognos Connection to IBM Cognos Report Studio or IBM Cognos Analysis Studio.

After this release, the Open with Report Studio and Open with Analysis Studio actions in Cognos Connection will no longer be available.

**Related concepts**

If you have IBM Cognos PowerPlay reports published to IBM Cognos Connection, you can migrate those reports to IBM Cognos Analysis Studio or IBM Cognos Report Studio directly from IBM Cognos Connection without using the IBM Cognos Migration Assistant command line tools.

---

**New features in version 10.1.0**

Listed below are new features since the last release. Links to directly-related topics are included where applicable.

**Support for IBM Cognos Series 7 version 4 MR4 to IBM Cognos BI 10.1.0**

This version of the migration tools supports migration from IBM Cognos Series 7 version 4 MR4 to IBM Cognos Business Intelligence 10.1.0.

**Changed features in version 10.1.0**

Listed below are changed features since the last release. Links to directly-related topics are included where applicable.

**Product name change**

The migration tools are now collectively called the IBM Cognos Migration Assistant.

The migratetoc8 tool is now named migratefroms7. The deploytoc8 tool is now named deployfroms7.

**Improved structure for this document**

Structural changes were made to this document to better organize the information and improve navigability.

A workflow diagram was added to help you assess how to use the IBM Cognos Migration Assistant for your particular environment.
The IBM Cognos Migration Assistant is a collection of software utilities that allows you to move metadata and applications from IBM Cognos Series 7 to IBM Cognos Business Intelligence.

**Improved documentation for migration of Impromptu content**

More information regarding the migration of IBM Cognos Series 7 Impromptu reports and functions was added.

**Related concepts**

Chapter 9, “Impromptu reports mapping,” on page 101

The information in this section will help you understand the mapping of objects when migrating IBM Cognos Series 7 Impromptu reports to IBM Cognos Business Intelligence. You can migrate Impromptu reports to IBM Cognos Report Studio only.

Chapter 11, “Impromptu functions mapping,” on page 117

Functions are predefined calculations that you use to define expressions in reports for calculating data, filtering data, or adding conditional formatting.

---

**New features in version 8.4**

Listed below are new features since the last release. Links to directly-related topics are included.

**Support for IBM Cognos Series 7 version 4 MR3 to IBM Cognos 8 version 8.4**

This version of the migration tools supports migration from IBM Cognos Series 7 version 4 MR3 to IBM Cognos 8 version 8.4.

**Improved messaging when opening reports in Analysis Studio or Report Studio**

When opening IBM Cognos Series 7 PowerPlay reports in IBM Cognos Analysis Studio or IBM Cognos Report Studio, more information displays describing the process.

For example, report objects that were not migrated are listed.

**Related tasks**

“Migrating a published PowerPlay report to Analysis Studio or Report Studio” on page 59

To migrate an IBM Cognos PowerPlay report published to IBM Cognos Connection, end users open the report in either IBM Cognos Analysis Studio or IBM Report Studio. They can then choose whether to save the migrated report.

**Ability to open reports in Analysis Studio or Report Studio on Linux**

IBM Cognos 8 is available on the Linux i386 operating system.

You can now open IBM Cognos Series 7 PowerPlay reports in IBM Cognos Analysis Studio or IBM Cognos Report Studio running on Linux.
New features in version 8.3

Listed below are new features since the last release. Links to directly-related topics are included.

Support for IBM Cognos Series 7 version 4 MR2 to IBM Cognos 8 version 8.3

This version of the IBM Cognos 8 Migration Tools supports migration from IBM Cognos Series 7 version 4, version 4 MR1, and version 4 MR2 to IBM Cognos 8 version 8.3.

If you are working with previous versions of IBM Cognos Series 7 or IBM Cognos 8, different migration paths are available.

In IBM Cognos 8 version 8.3, IBM Cognos Report Studio is available in two authoring modes: professional and express. The migration tools can migrate reports to Report Studio in the professional authoring mode only.

Related concepts

“Migration paths” on page 18

When migrating applications from earlier versions of IBM Cognos Series 7, different migration paths are possible. Some paths may require more time and effort to implement and may not give you the best results.

Migration service

Migration is now a service in the IBM Cognos 8 service-oriented architecture.

The migration service migrates IBM Cognos Series 7 PowerPlay reports published to IBM Cognos Connection to IBM Cognos Report Studio or IBM Cognos Analysis Studio.

Related concepts

Chapter 6, “Migration of PowerPlay reports published to IBM Cognos Connection,” on page 59

If you have IBM Cognos PowerPlay reports published to IBM Cognos Connection, you can migrate those reports to IBM Cognos Analysis Studio or IBM Cognos Report Studio directly from IBM Cognos Connection without using the IBM Cognos Migration Assistant command line tools.

Support for additional PowerPlay report variables

You can now migrate these IBM Cognos Series 7 PowerPlay report variables to IBM Cognos 8 when you migrate PowerPlay reports.

The variables are mapped to IBM Cognos Report Studio as follows:

<table>
<thead>
<tr>
<th>PowerPlay variable</th>
<th>Report Studio report expression</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDC file date</td>
<td>timestamp2date(CubeDataUpdatedOn(dimension))</td>
</tr>
<tr>
<td>MDC file time</td>
<td>substring(timestamp2string(CubeDataUpdatedOn(dimension)), 11,-1)</td>
</tr>
<tr>
<td>PowerPlay variable</td>
<td>Report Studio report expression</td>
</tr>
<tr>
<td>------------------------------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>MDC description</td>
<td>CubeDescription(dimension)</td>
</tr>
<tr>
<td>current default measure</td>
<td>CubeDefaultMeasure(dimension)</td>
</tr>
<tr>
<td>current default period</td>
<td>CurrentPeriod(dimension)</td>
</tr>
</tbody>
</table>

**Related concepts**

- “Report Formatting Mappings” on page 143

Report formatting is not available in IBM Cognos Analysis Studio. To preserve report formatting, specify IBM Cognos Report Studio as the target application.

**Support for Show Values and Show Labels options for pie charts**

In IBM Cognos Series 7 PowerPlay Web 7.4, you can set the Show Values and Show Labels options for pie charts.

You can select either the value or the label option, or both of them at the same time. You can also specify which one is displayed on slices or which is displayed outside slices. These options are now migrated to IBM Cognos 8.

**Related concepts**

- “Graphical Display Options” on page 147

The following tables describe how graphical display options map from IBM Cognos Series 7 PowerPlay to IBM Cognos Report Studio or IBM Cognos Analysis Studio.

**Support for Axis Placement chart option for all migrated chart types**

IBM Cognos Series 7 PowerPlay Web 7.4 allows all chart types to have axes placed in different locations.

Specifically, you can place axes in the following locations:
- The left side of the chart
- The right side of the chart
- Both the left and right sides of the chart

This feature is now migrated to IBM Cognos 8. This feature is not available for 3D bar, scatter, or correlation charts.

**Support for median and percentile calculations**

In IBM Cognos Series 7 PowerPlay Web 7.4, you can define percentile and median calculations.

These calculations are now migrated.
IBM Cognos Series 7 PowerPlay report functionality is preserved when equivalent or similar functionality is available in IBM Cognos Report Studio or IBM Cognos Analysis Studio.

Support for formatting of measures and calculations
In this version, formatting of measures and calculations of measures is now migrated as other non-measure categories.

Note: A limitation exists when migrating formatting applied to measures.

Related concepts
“Custom Exception Definitions and Formatting” on page 136
Custom exception definitions and formatting are migrated only to IBM Cognos Report Studio.

Support for finding strings in short names
In advanced subsets and find subsets, finding a string in a short name is now migrated.

Related concepts
“Advanced Subsets” on page 137
Advanced subsets are migrated.
“Find Subsets” on page 138
Find subsets in IBM Cognos Series 7 PowerPlay Client reports are partially migrated.

Support for Essbase attribute dimensions
Oracle Essbase attributes, presented as separate dimensions in IBM Cognos Series 7, are now migrated.

This requires that you specify Essbase attributes as separate dimensions in IBM Cognos Framework Manager models. For more information, see the Framework Manager User Guide.

New sample reports
New sample reports are included in version 8.3 and some sample reports in the previous release were removed.

Related concepts
Appendix B, “Samples,” on page 195
The samples provided demonstrate how IBM Cognos Series 7 content is migrated to IBM Cognos Business Intelligence using the IBM Cognos Migration Assistant.

Changed features in version 8.3
Listed below are changes to features since the last release. Links to directly-related topics are included.

Different formatting applied to data
When migrating reports to IBM Cognos 8 version 8.2, data is formatted in the same way as the source report. In IBM Cognos 8 version 8.3, data is formatted according to the language that is specified when the report is run.
For example, the value 1.0 in the source report displays as 1,000 in the migrated report that is running in German.

This change applies to all data in a report, including axis values in charts.

References to the Impromptu migration tool in the documentation

References to the IBM Cognos Series 7 Impromptu catalog migration tool (impcat2xml) were removed from the documentation.

You can use the Series 7 migration tool (migratetoc8) to migrate Impromptu catalogs, which simplifies the migration workflow that you need to follow.

Deprecated features in version 8.3

A deprecated feature is one that is being replaced by a newer version or a better implementation. The intention is to discontinue the use of the feature and provide suggestions for adapting to this change over multiple releases.

Listed below are deprecated features, including links to related topics.

--source and --target parameters

For the migratetoc8 and deploytoc8 commands, the --source and --target parameters are deprecated in version 8.3.

Related reference

“migratefroms7” on page 43
You use the migratefroms7 tool to migrate IBM Cognos Series 7 applications, including IBM Cognos Series 7 Impromptu catalogs, to IBM Cognos Business Intelligence.

“deployfroms7” on page 52
The deployfroms7 tool completes the migration to IBM Cognos Business Intelligence.
Chapter 2. Where do I start?

You made the decision to adopt IBM Cognos Business Intelligence after working with your company representative to understand the benefits of IBM Cognos BI and where it fits in your long-term business intelligence plans.

Even after adopting IBM Cognos BI, you do not have to migrate existing applications. The company will continue to support IBM Cognos Series 7 for several years and flexible licensing options provide time for you to determine when and how migration is beneficial for you. For some customers, the best option is to not migrate their existing applications. These customers can continue to maintain their existing IBM Cognos Series 7 applications and use IBM Cognos BI for new applications.

Migration planning

A migration project requires a significant commitment of time and resources.

A small migration project will take several weeks. For a large IBM Cognos Series 7 deployment, a migration project can last several months. Thorough planning, including identifying specific goals for the migration project, ensures that the migration meets expectations and adds value to your business intelligence environment. Use the following documents to help you with the planning process.

- **Planning a Migration from IBM Cognos Series 7 to IBM Cognos BI**
  This document will help you decide both how and when to migrate from IBM Cognos Series 7 to IBM Cognos Business Intelligence. It describes some of the situations and decisions you may face, and suggests solutions.

- **Using IBM Cognos Series 7 and IBM Cognos Business Intelligence in the Same Environment**
  This document shows you how to use both IBM Cognos Series 7 and IBM Cognos Business Intelligence in the same environment. It provides a best practices approach for interoperability between the two environments, allowing you to leverage your IBM Cognos Series 7 investment while creating new content in IBM Cognos BI. Working with a mixed environment is a good starting point in the migration from IBM Cognos Series 7 to IBM Cognos BI.

- **IBM Cognos PowerPlay Migration and Administration Guide**
  This document contains information about how to migrate IBM Cognos Series 7 PowerPlay applications to IBM Cognos PowerPlay. Migrating to IBM Cognos PowerPlay allows you to preserve the PowerPlay user experience while also taking advantage of IBM Cognos BI architecture and functionality.

IBM Cognos Series 7 products and components migrated with tools

You can migrate the following products and components to IBM Cognos Business Intelligence using the IBM Cognos Migration Assistant tools.

- **PowerCubes and Transformer models**
  You can continue to use IBM Cognos Series 7 Transformer to build and maintain .mdc-format PowerCubes for use in IBM Cognos BI. You can build PowerCubes that are unsecured or secured using your IBM Cognos Series 7 namespace.
Conversely, you can use PowerCubes from IBM Cognos version 8.3 and above in
Series 7 products, provided they have not been designed with IBM Cognos BI
security (including Series 7 namespaces configured in IBM Cognos BI).

You can install Series 7 and IBM Cognos version 8.3 Transformer and above on the
same computer, allowing for a smoother upgrade of PowerCubes. However,
models saved in IBM Cognos version 8.3 and above are not backward compatible
to Series 7.

Transformer 8.3 and above allow an easy upgrade path for any Series 7 model. You
can simply open MDL files and save them in the newer version. When deploying
these PowerCubes, you may consider the following tasks:

- Re-associate your Series 7 User Class views in Transformer to use a configured
  IBM Cognos BI security provider.
- Modify your data sources to point to IBM Cognos BI reports or packages,
  leveraging the open data access strategy and removing dependencies on IQDs or
  other flat files.
- Publish PowerCubes directly from the Transformer UI or command line into
  your own pre-defined folder structure in IBM Cognos Connection. Publishing
  PowerCube packages into folders allows a single cube per package in a more
  organized format.

For more information about upgrading Series 7 Transformer models and building
IBM Cognos BI PowerCubes, see the IBM Cognos BI Transformer User Guide.

Impromptu

You can migrate IBM Cognos Series 7 Impromptu catalogs and reports to IBM
Cognos BI. You use migrated catalogs as a metadata source for IBM Cognos
Framework Manager.

The metadata migration tools export the IBM Cognos Series 7 metadata to an XML
format file. In IBM Cognos BI, you can use the XML file as a metadata source in a
Framework Manager model. After completing the catalog migration process, you
can migrate Impromptu reports to Report Studio.

Impromptu Web Reports

You can migrate IBM Cognos Series 7 Impromptu Web Reports to IBM Cognos BI.
You migrate Impromptu Web Reports using an IBM Cognos Series 7 Deployment
Manager package as the migration source.

Before you migrate Impromptu Web Reports, you must migrate the Impromptu
catalog metadata used by the reports.

Note: PowerPrompts are not migrated, but you can implement similar
functionality using the IBM Cognos Software Development Kit.

PowerPlay

You can migrate IBM Cognos Series 7 PowerPlay for Microsoft Windows reports,
PowerPlay Web Explorer reports, or PowerPlay for Microsoft Windows reports
published to PowerPlay Web to IBM Cognos BI.
You can migrate PowerPlay applications to IBM Cognos PowerPlay, IBM Cognos Report Studio, or IBM Cognos Analysis Studio.

**Migrating to IBM Cognos PowerPlay**

You can migrate PowerPlay applications directly to IBM Cognos PowerPlay Studio and continue to use them as before.

You use the Migration Assistant to migrate your PowerPlay content from IBM Cognos Series 7 Upfront or PowerPlay Enterprise Server, or IBM Cognos Series 7 content previously published to IBM Cognos Connection. Once in IBM Cognos PowerPlay, the user experience is the same when you move from PowerPlay Web to PowerPlay Studio, or from the IBM Cognos Series 7 to IBM Cognos BI versions of PowerPlay Client. For more information about how to migrate reports to IBM Cognos PowerPlay, see the IBM Cognos PowerPlay Migration and Administration Guide.

In IBM Cognos BI, all data sources are accessed through packages. The package contains connection information that identifies the data source, such as the cube or database connection information. The cube connection information includes the cube location on your file system.

When you migrate to IBM Cognos BI, your PowerCubes are mapped to packages. A package contains connection information for your PowerCubes. Users can then create new reports using the migrated packages. Users with access to other IBM Cognos BI studios can also use these migrated packages to create new reports using your original IBM Cognos Series 7 PowerCubes as data sources. This allows you to extend the use of your existing cubes.

**Migrating from PowerPlay to other IBM Cognos BI Studios**

You can migrate IBM Cognos Series 7 and IBM Cognos PowerPlay applications to Report Studio or Analysis Studio to take advantage of the benefits available in those studios.

Report Studio provides functionality to create statement-style reports that deliver timely and accurate information required for performance management. Analysis Studio provides deep, comparative analysis and the functionality to solve business problems. It provides access to:

- Large amounts of data
- Dimensionally-modeled relational data
- More data sources, such as cubes from other providers
- Additional calculations, such as average, count, and variance

When you migrate IBM Cognos Series 7 PowerPlay reports to IBM Cognos PowerPlay, all of the functionality and appearance is preserved; however, when you open the report in Report Studio or Analysis Studio, you may notice some differences. The differences will depend on the complexity of the report, and features you used in PowerPlay may not be available in Report Studio or Analysis Studio. You should understand the benefits of each IBM Cognos BI studio, and how they differ from each other. For example,

- If a report is run and viewed on a regular basis with little or no requirement to explore or analyze the data in the report, Report Studio is the most appropriate target.
• If a report has characteristics such as complex formatting, Report Studio is the most appropriate target.
• If a report is used as a starting place for exploration or discovery, PowerPlay Studio is the most appropriate target.
• If a report consumer needs to analyze the information in a report to understand a problem or gain insight into the business by looking at different perspectives of the data, Analysis Studio is the most appropriate target.

There are two methods for migrating PowerPlay reports to Report Studio and Analysis Studio:
• You can use the Migration Assistant to migrate a set of PowerPlay reports from the IBM Cognos Series 7 environment to the IBM Cognos BI environment.
• You can migrate IBM Cognos Series 7 PowerPlay reports that were published to IBM Cognos Connection (interoperability between IBM Cognos Series 7 and IBM Cognos BI), or you can migrate PowerPlay Studio reports to Report Studio or Analysis Studio. To use this option, in either IBM Cognos Connection or PowerPlay Studio, select either Open with Analysis Studio or Open with Report Studio from the available actions. The report is migrated to the studio you used to open the report, and you can choose whether or not to save the migrated report. The original PowerPlay report is still available in IBM Cognos Connection whether or not you save the migrated report.

If you migrate reports to Analysis Studio and you find that functionality is missing in some reports, run the migration again to migrate the reports to Report Studio. If Analysis Studio was not the appropriate target studio, opening the report migrated to Analysis Studio in Report Studio does not restore lost functionality. You must repeat the migration process and specify Report Studio as the target studio.

**Upfront**

You can migrate Upfront content to IBM Cognos BI. The migration process maps the Upfront content structure and security to an IBM Cognos Connection folder structure.

By preserving the existing Upfront organization, it is easier to complete administrative tasks, such as applying security to the migrated content.

**Architect**

You can migrate IBM Cognos Series 7 Architect models for use as a metadata source for IBM Cognos Framework Manager.

**Security**

You can include IBM Cognos Series 7 security information when you migrate IBM Cognos Web-based content in Upfront.

The migration process supports IBM Cognos Series 7 Access Manager namespace schema version 15.2 or later.

If you configure IBM Cognos BI to use the same namespace as IBM Cognos Series 7, you maintain other security settings:
• Impromptu catalog security such as table filters and access permissions, including when these security settings are inherited in an Impromptu report. The user classes in the catalog must exist in the IBM Cognos Series 7 namespace.
• Architect model security

Migration does not include database signons.

If you decide to change authentication sources, use IBM Cognos BI namespace groups and roles when applying application-level security. You then manage the membership of these IBM Cognos namespace groups and roles using the users, groups, and roles from your authentication source. This method ensures that you redefine the memberships for the IBM Cognos namespace groups and roles only if the authentication source changes.

For more information, see the IBM Cognos Administration and Security Guide.

You can upgrade Series 7 Transformer models containing IBM Cognos Access Manager security and you can continue using that same security if desired. To do this, you must configure IBM Cognos BI against the same Series 7 Access Manager namespace that the upgrading Transformer model uses. You can only use IBM Cognos BI PowerCubes built with Series 7 security in IBM Cognos BI products, because the security has been upgraded to use IBM Cognos BI unique IDs for each user class.

For more information, see the IBM Cognos BI Transformer User Guide.

## IBM Cognos Series 7 products and components not migrated with tools

The IBM Cognos Migration Assistant tools do not migrate the following IBM Cognos Series 7 products and components. However, you can duplicate most content or functionality in IBM Cognos Business Intelligence.

### IBM Cognos Query

The Migration Assistant does not move IBM Cognos Query objects, such as saved queries, to IBM Cognos BI. The migration log file identifies IBM Cognos Query objects found in the migration source.

You can duplicate most IBM Cognos Query functionality in IBM Cognos BI. Foundation queries are available in IBM Cognos BI when you migrate an IBM Cognos Series 7 Architect model. Also, you can manually replicate saved queries using SQL components in IBM Cognos Report Studio.

### IBM Cognos Visualizer

The Migration Assistant does not move IBM Cognos Visualizer objects to IBM Cognos BI. You can duplicate most IBM Cognos Visualizer functionality using the charting, layout, and formatting options in IBM Cognos Analysis Studio or Report Studio.

### IBM Cognos NoticeCast

The Migration Assistant does not move IBM Cognos NoticeCast objects to IBM Cognos BI. You can duplicate most alert and notification functionality using IBM Cognos Event Studio.
IBM Cognos Web Services

The Migration Assistant does not move IBM Cognos Web Services objects to IBM Cognos BI. You can duplicate most IBM Cognos Web Services functionality using the IBM Cognos Software Development Kit.

PowerPlay for Excel

You can export an IBM Cognos PowerPlay query from your spreadsheets and convert it to an Analysis Studio or Report Studio report.

To work with values in spreadsheets, you can duplicate your PowerPlay for Microsoft Excel functionality using IBM Cognos Analysis for Microsoft Excel.

IBM CognosScript

The Migration Assistant does not move IBM CognosScript objects to IBM Cognos BI. You can duplicate automation functionality using the IBM Cognos Software Development Kit.

IBM Cognos Portal Services

The Migration Assistant does not move IBM Cognos Portal Services objects to IBM Cognos BI. You can duplicate most IBM Cognos Portal Services functionality using IBM Cognos Connection.

Need more help?

You can obtain more information about migration by visiting the Cognos Customer Center.

The Cognos Customer Center [http://www.ibm.com/software/data/cognos/customercenter](http://www.ibm.com/software/data/cognos/customercenter) offers a variety of support options for migration, including both planning and implementation services.
Chapter 3. The migration workflow

The IBM Cognos Migration Assistant is a collection of software utilities that allows you to move metadata and applications from IBM Cognos Series 7 to IBM Cognos Business Intelligence.

The Migration Assistant includes the following:

- Command line tools
  The command line tools allow you to perform batch migrations of IBM Cognos Series 7 content to IBM Cognos BI. Which tools you use depends on the type of content that you want to migrate.

<table>
<thead>
<tr>
<th>Migration source</th>
<th>Command line tool</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Cognos Series 7 Architect models</td>
<td>arch2xml74</td>
</tr>
<tr>
<td>IBM Cognos Series 7 Impromptu catalogs</td>
<td>migratefroms7, deployfroms7</td>
</tr>
<tr>
<td>and reports</td>
<td></td>
</tr>
<tr>
<td>IBM Cognos Series 7 Impromptu Web Reports</td>
<td>migratefroms7, deployfroms7</td>
</tr>
<tr>
<td>IBM Cognos Series 7 PowerPlay</td>
<td>migratefroms7, deployfroms7</td>
</tr>
<tr>
<td>IBM Cognos Series 7 Upfront</td>
<td>migratefroms7, deployfroms7</td>
</tr>
</tbody>
</table>

- IBM Cognos BI migration service
  The IBM Cognos BI migration service is used by the deployfroms7 command line tool to deploy migrated content to IBM Cognos BI. The service is also used to migrate PowerPlay reports that were published to IBM Cognos Connection.

For information about installing the Migration Assistant, see the Migration Assistant Installation and Configuration Guide.

You can migrate the following types of content to IBM Cognos BI:

- Architect models on computers running on the Microsoft Windows operating system
- Impromptu reports and catalogs from on computers running on the Windows operating system
- IBM Cognos Series 7 Web-based content, such as PowerPlay, PowerPlay Web Explorer, and Impromptu Web Reports reports, on computers running on the Windows and UNIX operating systems

For more information about supported software environments for IBM Cognos products, see the Cognos Customer Center [http://www.ibm.com/software/data/cognos/customercenter](http://www.ibm.com/software/data/cognos/customercenter).

To ensure that all IBM Cognos Series 7 content that you want to migrate is migrated, including personal information such as Upfront Personal NewsBoxes, an administrator should perform migrations.
Note: With this version of the Migration Assistant, you can move content only from IBM Cognos Series 7 version 4 to IBM Cognos BI 10.1.0. If you are using IBM Cognos Series 7 version 3 or you have already begun a migration project using an older version of the migration tools, different migration paths are available.

The following diagram shows the workflow that you follow to migrate IBM Cognos Series 7 content to IBM Cognos BI.

If you have PowerPlay reports that are published to IBM Cognos Connection, you can migrate those reports directly to IBM Cognos BI without following the workflow.

**Procedure**

1. Prepare the IBM Cognos Series 7 content for migration.
   
   The Migration Assistant does not fix errors in the IBM Cognos Series 7 content. Before migrating, you must ensure that metadata and reports do not contain errors.

2. Migrate metadata.
   
   If you have Architect models or Impromptu catalogs to migrate, you must migrate the metadata before migrating applications. If you are migrating only PowerPlay content, skip this step.

3. Migrate applications.
   
   Run the migratefroms7 tool to migrate applications to IBM Cognos BI.

4. Create data source connections and publish packages in IBM Cognos BI.
You must create data source connections and publish packages for PowerCubes that migrated PowerPlay reports use.

**Tip:** For PowerCubes, you can also create data source connections and create and publish packages in IBM Cognos Administration.

5. Check the package mapping.
   Each migrated report must map to a published package.

6. Create an IBM Cognos BI deployment archive.
   Run the deployfroms7 tool to create an IBM Cognos BI deployment archive from the intermediate XML files created by the migratefroms7 tool.

7. Import the IBM Cognos BI deployment archive.
   You import the deployment archive into IBM Cognos Administration to make the migrated content available to users.

8. Test and refine the content.
   Work with data modelers, report authors, and report consumers to test and refine the migrated content.

**Results**

Use the following tips to help you prepare for a migration.

- Before you migrate, use the migration worksheet to record information about your IBM Cognos Series 7 and IBM Cognos BI environments.
- To familiarize yourself with the migration process, perform a migration using the IBM Cognos Series 7 samples. There are also migration samples that show you how the tools work.
- Instead of attempting to maintain the same metadata and applications in both IBM Cognos Series 7 and IBM Cognos BI environments, consider the move to IBM Cognos BI as a one-time process. After you move IBM Cognos Series 7 metadata and applications to IBM Cognos BI, encourage modelers, report authors, and end users to adopt IBM Cognos BI. Otherwise, to synchronize IBM Cognos BI with changes in IBM Cognos Series 7, you must repeat the migration process, including the work required to refine the IBM Cognos Series 7 content in IBM Cognos BI.
Related concepts

Chapter 6, “Migration of PowerPlay reports published to IBM Cognos Connection,” on page 59
If you have IBM Cognos PowerPlay reports published to IBM Cognos Connection, you can migrate those reports to IBM Cognos Analysis Studio or IBM Cognos Report Studio directly from IBM Cognos Connection without using the IBM Cognos Migration Assistant command line tools.

Appendix B, “Samples,” on page 195
The samples provided demonstrate how IBM Cognos Series 7 content is migrated to IBM Cognos Business Intelligence using the IBM Cognos Migration Assistant.

Appendix C, “Migration worksheet,” on page 215
Before you use the IBM Cognos Migration Assistant, record the information you need for the command line tools and for other tasks such as checking package mapping. You may need to contact your administrator for some of the information.

Related tasks

Chapter 4, “Migrating metadata,” on page 19
This chapter discusses migrating metadata from IBM Cognos Series 7 Architect and IBM Cognos Series 7 Impromptu. You can skip this chapter if you are only migrating IBM Cognos Series 7 PowerPlay content.

Chapter 5, “Migrating applications,” on page 37
You can migrate some components of an IBM Cognos Series 7 application to IBM Cognos Business Intelligence.

Migration paths

When migrating applications from earlier versions of IBM Cognos Series 7, different migration paths are possible. Some paths may require more time and effort to implement and may not give you the best results.

If you have not yet started a migration project, use the following migration path:

- Upgrade IBM Cognos Series 7 content to the latest version using the documented IBM Cognos Series 7 upgrade process.
- Use the latest version of the IBM Cognos Migration Assistant tools to migrate to IBM Cognos Business Intelligence.

Following this approach yields the most predictable results. You can leverage the reliable upgrade between versions of IBM Cognos Series 7 and take advantage of the latest version of the Migration Assistant tools.

If you have already started to migrate using an older version of the migration tools, continue with that version of the tools for this particular migration project. You can then upgrade earlier versions of IBM Cognos BI, such as IBM Cognos 8 version 8.4, to IBM Cognos BI 10.1.0. The following documents provide more information about choosing the best migration path:

- Planning a Migration from IBM Cognos Series 7 to IBM Cognos BI
- IBM Cognos Solutions Implementation Methodology (SIM)
- IBM Cognos BI Migration Roadmap

For your next migration project, you will likely want to move to the latest version of the migration tools.
Chapter 4. Migrating metadata

This chapter discusses migrating metadata from IBM Cognos Series 7 Architect and IBM Cognos Series 7 Impromptu. You can skip this chapter if you are only migrating IBM Cognos Series 7 PowerPlay content.

You can migrate Architect models and Impromptu catalogs for use as metadata sources in IBM Cognos Framework Manager. The metadata migration tools export the IBM Cognos Series 7 metadata to an XML format file. In IBM Cognos Business Intelligence, you can use the XML file as a metadata source in a Framework Manager model.

The following diagram shows the workflow for migrating IBM Cognos Series 7 metadata to IBM Cognos BI.

IBM Cognos BI supports the use of cubes as a data source. Unlike Architect models or Impromptu catalogs, you do not have to export PowerCubes to an XML format file to use the metadata in IBM Cognos BI. After you create a data source connection to the PowerCube in IBM Cognos Administration or Framework Manager, you can use the PowerCube as a metadata source for new or existing Framework Manager projects. For more information about using cubes in IBM Cognos BI, see the IBM Cognos Administration and Security Guide.
Before you begin

If IBM Cognos BI is configured to use the same namespace as IBM Cognos Series 7, and you select the Cognos Series 7 namespace when you import the migrated metadata into Framework Manager, security settings remain the same. Otherwise, you can still migrate and import the metadata. However, the metadata does not include security which must be applied after importing the migrated metadata into IBM Cognos BI.

Procedure

1. Perform pre-migration tasks to provide the most effective mapping to IBM Cognos BI functionality and reduce the amount of work required to refine the metadata after migration.
   For example, test the metadata and correct any errors that you find.
2. Export the IBM Cognos Series 7 metadata to XML format.
   Use the appropriate migration tool to export Architect models and Impromptu catalogs to XML format files.
3. Create data source connections in IBM Cognos BI.
4. Import the metadata into Framework Manager.
5. Perform post-migration tasks to prevent errors or unexpected results caused by differences in functionality between IBM Cognos Series 7 and IBM Cognos BI.
6. Test the imported metadata.
7. Publish Framework Manager packages.
8. Synchronize the Framework Manager project with updated IBM Cognos Series 7 metadata.
   If you want to maintain the metadata in IBM Cognos Series 7 as well as in IBM Cognos BI, you can synchronize changes made in the original Architect models and Impromptu catalogs with Framework Manager projects created from migrated metadata.

Common pre-migration tasks

To provide the most effective mapping to IBM Cognos Business Intelligence functionality, and to reduce the amount of work required to refine the IBM Cognos Series 7 data after migration to IBM Cognos BI, review the following tasks and complete the tasks that apply to you.

IBM Cognos Series 7 metadata testing

If you are not familiar with the IBM Cognos Series 7 Architect models and IBM Cognos Series 7 Impromptu catalogs, test the metadata and correct errors before running the IBM Cognos Migration Assistant tools. The Migration Assistant tools do not correct errors in the IBM Cognos Series 7 metadata.

Exporting models or catalogs that contain errors can cause unexpected results when you use the metadata in IBM Cognos Framework Manager. Examples of tests that you can use before migrating metadata include verifying the Architect models and generating content overview reports for Impromptu catalogs.

Appropriate key settings in the Impromptu catalog

If the IBM Cognos Series 7 Impromptu catalog does not include appropriate key settings, when you import the metadata into IBM Cognos Framework Manager, all
numeric items without a key map to facts. This can cause unexpected results such as summarizing instead of grouping a column in a report.

Before exporting the catalog, review tables to ensure that the appropriate keys are set.

**Temporarily changing the locale settings on the Architect computer**

If the IBM Cognos Framework Manager design language is different from the locale settings on the IBM Cognos Series 7 Architect computer, locale specific data formats, such as list and decimal separators, may be invalid after you import the migrated metadata into Framework Manager.

To prevent this problem, you must temporarily change the locale settings on the Architect computer to use the same settings as the Framework Manager computer before you run the arch2xml74 tool.

To determine the locale settings for the Architect model, use IBM Cognos Series 7 Access Manager Administration to view the regional settings of the default namespace. The Architect model uses the same settings. For more information, see the Access Manager Administrator Guide.

For more information about configuring the design language in Framework Manager and troubleshooting expression syntax errors, see the Framework Manager User Guide.

**Procedure**

2. The temporary configuration change depends on the Locale Mode setting:
   - If the Standalone option is used, close Configuration Manager, and then change the locale in the Windows Regional Settings.
   - If the Suite option is used, change the setting to Standalone, apply the change, and then change the locale in the Windows Regional Settings.
3. Run the arch2xml74 tool to export the Architect models.
4. Reverse the temporary locale configuration changes on the Architect computer.

**Related concepts**

“Incorrect decimal separators after importing Architect model metadata” on page 171

After importing IBM Cognos Series 7 Architect model metadata into IBM Cognos Framework Manager, the decimal separators do not match the format in the original Architect model.

**Server security**

The migration processes do not encrypt when moving content from IBM Cognos Series 7 to IBM Cognos Business Intelligence. Consequently, you must ensure that the servers you are migrating content from and your IBM Cognos BI servers are behind your network firewall.

For more information, see the IBM Cognos BI Architecture and Deployment Guide.
**Architect models**

You can export IBM Cognos Series 7 Architect models for use as a metadata source in IBM Cognos Framework Manager.

To export a single Architect model, run the arch2xml74 command specifying appropriate parameters. You can export multiple models at the same time using a batch file. The output is an XML format file that you can use as a metadata source in Framework Manager. Work from a backup copy of the model to preserve the original model. If you use the original model, ensure that all objects are checked in and that the model is not open.

If you want to migrate earlier versions of Architect models, such as 7.3, you must run the arch2xml command. The arch2xml command uses the same parameters as the arch2xml74 command. However, IBM Cognos no longer provides customer support for arch2xml.

To export models, a supported version of Architect including Progress ObjectStore, and arch2xml74 must be installed on the same computer. To migrate 7.1 or 7.3 models, you need version 7.1 or 7.3 of Architect and ObjectStore respectively and you must use the arch2xml command. To migrate 7.4 models, you need version 7.4 of Architect and ObjectStore and you must use the arch2xml74 command. For information about installing arch2xml74, see the Migration Assistant *Installation and Configuration Guide*.

Review the Architect mapping information to understand what to expect when you export an Architect model for use as metadata in Framework Manager. Also, identify the name and location of the models you want to migrate.

Review the information about the arch2xml74 tool and identify the command line parameters required to process the migration source. For example, to migrate secured content you must know the required IBM Cognos Series 7 Access Manager logon information.

Before you begin migrating Architect models, print a copy of the migration worksheet and record the information you need to complete the migration process, such as the values you use on the command line.

When you have finished exporting Architect models, transfer the XML files to an IBM Cognos Framework Manager computer for use as a metadata source. After you create the required data source connections, import the XML files into Framework Manager.

**Related concepts**

- Chapter 7, “Architect mapping,” on page 61
  The information in this section will help you understand the mapping of objects when migrating IBM Cognos Series 7 Architect models to IBM Cognos Business Intelligence. If a feature or functionality is not mentioned, an equivalent is available in IBM Cognos BI.

- Appendix C, “Migration worksheet,” on page 215
  Before you use the IBM Cognos Migration Assistant, record the information you need for the command line tools and for other tasks such as checking package mapping. You may need to contact your administrator for some of the information.

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**Exporting a single Architect model**

You can export a single Architect model.
Procedure
1. Open a command prompt window and go to the bin directory of the IBM Cognos Series 7 installation. For example, C:\Program Files\Cognos\cer5\bin.
2. Run the arch2xml74 command with the appropriate parameters, including authentication information.

   Tip: You can use Ctrl+c to stop the process.
3. When the export process is complete, confirm that the XML file is in the target location.

Exporting multiple Architect models
You can export multiple Architect models at the same time.

Procedure
1. Create a batch file that includes a command line for each model that you want to export.
   Ensure that each command line includes the appropriate parameters, including authentication information.
2. Save the batch file to the bin directory of the IBM Cognos Series 7 installation. For example, C:\Program Files\Cognos\cer5\bin.
   To run the batch file from a different location, each command line must include the full path for the arch2xml74 tool.
3. Run the batch file.
4. When the export process is complete, confirm that the XML files are in the target location and review the log file for warnings and errors.

arch2xml74
The arch2xml74 tool converts an IBM Cognos Series 7 Architect model to an XML format file that you can use as a metadata source in IBM Cognos Framework Manager. The migration tool does not change the .cem file.

You can run arch2xml74 directly from a command prompt window to export a single model or you can run the tool using a batch file to export multiple models.

For more information about installing the tool, see the Migration Assistant Installation and Configuration Guide.

The syntax to run the arch2xml74 tool is:
arch2xml74 -options source_location target_location

All parameters are case sensitive.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-h</td>
<td>Shows a description of the parameters. To use this option, do not specify source or target.</td>
</tr>
</tbody>
</table>
### Parameter Description

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-U user ID</td>
<td>Specifies the IBM Cognos Series 7 Access Manager user who has access rights to the model.</td>
</tr>
<tr>
<td></td>
<td>If you do not specify a user for a secured model, the migration process will prompt you for a user ID and password.</td>
</tr>
<tr>
<td></td>
<td>If you are migrating several models, you can omit the authentication information from the command line by logging onto Architect before running the arch2xml74 command.</td>
</tr>
<tr>
<td>-P password</td>
<td>Specifies the password for the Access Manager user who has access to the model.</td>
</tr>
<tr>
<td>-q</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>Suppresses the display of progress messages during the export process.</td>
</tr>
</tbody>
</table>

| source_location               | Specifies the directory that contains the model to migrate.                                                                                  |
|                               | You can specify a file path on the local file system or a UNC file path to a directory or file on another server. You can use slash (/) or backslash (\) as delimiters of path segments. Enclose any path in double quotation marks (""") if any file or directory names in the path contain spaces. |

| target_location               | Specifies the output location and file name for the exported XML file.                                                                          |
|                               | The target directory must be a directory path on the local file system, or a UNC file path to a directory on another server. The directory must already exist and you must have write permissions to the directory. |
|                               | Do not use the same directory for both source and target.                                                                                       |
|                               | You can use slash (/) or backslash (\) as delimiters of path segments in the command line. Enclose the path in double quotation marks (""") if any directory names contain spaces. |
|                               | If an XML file that uses the same file name already exists in the target location, the migration process replaces the existing file.             |

### Examples

This section contains examples showing the correct syntax to use with the arch2xml74 tool.
Exporting Impromptu catalogs

You can export IBM Cognos Series 7 Impromptu catalogs for use as a metadata source in IBM Cognos Framework Manager. If you are migrating Impromptu reports, you must first migrate the corresponding catalogs to support the report migration.

To export a single Impromptu catalog, you run the migratefroms7 tool specifying appropriate parameters. You can export multiple catalogs at the same time by placing them together in the common migration source directory. The output is an XML format file that you can use as a metadata source in Framework Manager. Work from a backup copy of the catalog to preserve the original catalog. If you use the original catalog, ensure that the catalog is not open.
You can export secured and unsecured catalogs at the same time. However, all secured catalogs exported in the same migratefroms7 session must use the same authentication information because you can provide only one user ID and password during the same session. Secured catalogs that have different authentication information than what you specify during the same session will be ignored.

**Before you begin**

Review the Impromptu catalog mapping information to understand what to expect when you export a catalog for use as metadata in Framework Manager. Also, identify the name and location of the catalogs you want to migrate.

To export an Impromptu catalog:

- IBM Cognos Series 7 version 4 Impromptu Administrator or later and the migratefroms7 must be installed on the same computer. For information about installing the migratefroms7 tool, see the Migration Assistant Installation and Configuration Guide.
- IBM Cognos Series 7 Access Manager Runtime must be configured

Review the information about the migratefroms7 tool and identify the command line parameters required to process the migration source. For example, to migrate secured content you must know the required Access Manager logon information.

Before you use the migratefroms7 tool, print a copy of the migration worksheet and record the information you need to complete the migration process, such as the values you will use on the command line.

**Procedure**

1. If you want to export several catalogs, copy them into the migration source directory that you want to use.
2. Open a command prompt window and go to the migs7 directory of the IBM Cognos Series 7 installation. For example, the default IBM Cognos Series 7 location is `C:\Program Files\Cognos\cer5\migs7`.
3. Run migratefroms7 with the appropriate parameters.
   - If one or several catalogs are secured and you do not provide a user ID and password in the command, the migration process prompts you for authentication information.

   **Tip:** You can use Ctrl+c to stop the process.

   If errors occur, view the migration log file for more information about warnings and errors. The migration log file, `migrationfroms7.htm`, is located in the _LOG folder in the target location.
4. When the export process is complete, confirm that the XML files are in the target location and review the log file for warnings and errors.

   The migratefroms7 tool produces several folders and files in the target location. The XML files for migrated catalogs are located in a subfolder of the target location. The subfolder name is the same name as the source directory you specified when you ran the tool.

**Results**

The export of the Impromptu catalogs is complete. Transfer the XML files to a Framework Manager computer for use as a metadata source. After you create the
required data source connections, import the XML files into Framework Manager.

Related concepts

Chapter 8, “Impromptu catalog mapping,” on page 91
The information in this section will help you understand the mapping of objects when migrating IBM Cognos Series 7 Impromptu metadata models (catalogs) from IBM Cognos Series 7 to IBM Cognos Business Intelligence.

“Intermediate migration files” on page 47
After you run the migratefroms7 tool, the target location contains several directories and files.

Appendix C, “Migration worksheet,” on page 215
Before you use the IBM Cognos Migration Assistant, record the information you need for the command line tools and for other tasks such as checking package mapping. You may need to contact your administrator for some of the information.

migratefroms7

You use the migratefroms7 tool to migrate IBM Cognos Series 7 applications, including IBM Cognos Series 7 Impromptu catalogs, to IBM Cognos Business Intelligence.

The migratefroms7 tool does the following:
• Sets up the migration target location
• Creates a hierarchy of directories and files that contain information about the migration source, including an XML file for each report and catalog
• Creates a directory that contains images used in the reports
• Creates log files in the target location
• Creates a zip file of all of the content in the target location

For more information about installing the tool, see the Migration Assistant Installation and Configuration Guide.

You can install and run the migratefroms7 tool only on computers running the Microsoft Windows operating system.

The syntax used to run migratefroms7 tool is
migratefroms7 [options] "<source>" "<target>"

All parameters are case sensitive. Quotation marks are required when there are spaces in the directories. However, using quotation marks even when there are no spaces in the directories is helpful to distinguish between the source and target directories.

You can specify more than one source directory. The last directory on the command line is the target and all other directories are source locations. Export one source location at a time to make it easier to troubleshoot errors.

Note that some parameters apply only to migrating applications.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-h</td>
<td>Shows a description of the parameters. To use this option, do not specify the source or target.</td>
</tr>
<tr>
<td>Parameter</td>
<td>Description</td>
</tr>
<tr>
<td>------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>-u --cataloguser</td>
<td>Specifies the user class to use to log onto the catalog. If this parameter is not specified, the Creator name is assumed. If you use a localized version of Impromptu, ensure that you specify the localized Creator name. For example, use Ersteller for German and Auteur for French. If you specify a user class other than Creator, some report objects may not be available as expected in migrated reports. Specify either a user class and password, or an IBM Cognos Series 7 Access Manager user and password. You do not have to specify both.</td>
</tr>
<tr>
<td>-p --catalogpassword</td>
<td>Specifies the password for the Impromptu catalog user profile. The default is no password. Errors occur if you do not provide the password for a password-protected user profile.</td>
</tr>
<tr>
<td>-U user_ID --user user_ID</td>
<td>Specifies a user name from the IBM Cognos Series 7 namespace. If you do not provide logon information on the command line for secured content, you may be prompted for the information during the process. For Impromptu catalogs, specify either a Creator name and password, or an Access Manager user and password. You do not have to specify both.</td>
</tr>
<tr>
<td>-P user_password --password user_password</td>
<td>Specifies the user password.</td>
</tr>
<tr>
<td>-d --dircontentsonly</td>
<td>Specifies that IBM Cognos Series 7 Deployment Manager packages in the source directories are not included in the processing.</td>
</tr>
<tr>
<td>-e encoding --encoding encoding</td>
<td>Specifies the character set encoding to use when writing the exported XML file.</td>
</tr>
<tr>
<td>-t prog_id --impromptuserver prog_id</td>
<td>Specifies which Impromptu automation server to use when there is more than one version installed on the computer. This parameter also determines which rendition to use if the -r parameter is not specified.</td>
</tr>
<tr>
<td>Parameter</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>-r rendition</strong></td>
<td>Specifies the IBM Cognos rendition name to use when there is more than one version of IBM Cognos Series 7 installed on the computer.</td>
</tr>
<tr>
<td><strong>--rendition</strong></td>
<td>Specifies the IBM Cognos rendition name to use when there is more than one version of IBM Cognos Series 7 installed on the computer.</td>
</tr>
<tr>
<td><strong>rendition</strong></td>
<td>Specifies the IBM Cognos rendition name to use when there is more than one version of IBM Cognos Series 7 installed on the computer.</td>
</tr>
<tr>
<td><strong>Note:</strong> If the rendition is not explicitly specified by either the -r or -i parameter, the rendition used is the same as the parent directory of the migs7 directory.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>--acl strategy</strong></th>
<th>Specifies that access control list (ACL) information for Upfront content is included in the processing. You can specify one of the following strategies.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Do not generate ACL report or migrate ACL definitions.</td>
</tr>
<tr>
<td>1 (default)</td>
<td>Generate ACL report but do not migrate ACL definitions.</td>
</tr>
<tr>
<td>2</td>
<td>Generate ACL report and migrate ACL definitions.</td>
</tr>
</tbody>
</table>

To use the last option, you must configure IBM Cognos BI to use the same namespace as IBM Cognos Series 7 and you must provide the namespace ID on the command line.

For more information about the options for migrating ACL information, see [Security](#) on page 166.

<table>
<thead>
<tr>
<th><strong>-N namespace_ID</strong></th>
<th>Specifies the IBM Cognos namespace to use as the source of contact user ID and security. You can obtain the namespace ID from namespace properties in IBM Cognos Configuration.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>--namespace</strong></td>
<td>Specifies the IBM Cognos namespace to use as the source of contact user ID and security. You can obtain the namespace ID from namespace properties in IBM Cognos Configuration.</td>
</tr>
<tr>
<td><strong>namespace_ID</strong></td>
<td>Specifies the IBM Cognos namespace to use as the source of contact user ID and security. You can obtain the namespace ID from namespace properties in IBM Cognos Configuration.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>--scv</strong></th>
<th>Migrates only Impromptu Web Reports and IBM Cognos Series 7 PowerPlay shortcuts and custom views.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>You can migrate shortcuts and custom views only after all packages are migrated. After you migrate the packages, verify that all of the report folders work. Then create a package in Deployment Manager that includes the shortcuts and custom views that you want to migrate and all referenced source NewsItems. Run the migratefroms7 command again with this option to migrate shortcuts and custom views only.</td>
</tr>
<tr>
<td>Parameter</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>-------------</td>
</tr>
<tr>
<td>-q</td>
<td>Optional</td>
</tr>
<tr>
<td>--quiet</td>
<td>Suppressed the display of progress messages during the export process. Errors and warnings are still written to the log file.</td>
</tr>
<tr>
<td><code>&lt;source&gt;</code></td>
<td>Specifies the directory that contains catalogs to be migrated. You can specify more than one source location. Each source location must be a file path on the local file system or a UNC file path to a directory or file on another server. You can use slash (/) or backslash () as delimiters of path segments. Enclose any path in double quotation marks if any file or directory names in the path contain spaces.</td>
</tr>
<tr>
<td><code>&lt;target&gt;</code></td>
<td>Specifies the parent folder for the intermediate migration files created by the process. The process creates a new folder in the target location with the following name format: timestamp.computer_name.migratefroms7 Existing content in the target location is not deleted or changed. The target directory must be a directory path on the local file system, or a UNC file path to a directory on another server. You must have write permissions to an existing target directory, or you must have permissions to create a new directory if the specified target does not exist. Do not use the same directory for both source and target. Do not use _SUPPORT as the name of the target location. The migratefroms7 tool creates a directory named _SUPPORT in the target location. Errors occur if the name already exists. You can use slash (/) or backslash () as delimiters of path segments in the command line. Enclose the path in double quotation marks if any directory names contain spaces.</td>
</tr>
</tbody>
</table>

**Examples**

This section contains examples showing the correct syntax to use with the migratefroms7 tool.

**Export an unsecured catalog**

The following command example exports an unsecured catalog:

```
migratefroms7 "C:\catalogs" "C:\exported_catalogs"
```
Tip: Quotation marks are required when there are spaces in the directories that you specify. However, using quotation marks even when there are no spaces in the directories is helpful to distinguish between the source and target directories.

Export a secured catalog

The following command example exports a catalog that is secured using Access Manager:
migratefroms7 -U admin -P password "C:\catalogs" "C:\exported_catalogs"

Export a secured catalog with logon required to access manager namespace

The following command example exports a secured catalog using the authentication information required to the Access Manager namespace:
migratefroms7 -N Namespace -P password "C:\catalogs" "C:\exported_catalogs"

Export a secured catalog to a network location

The following command example exports a secured catalog from a local location to a shared network location:
migratefroms7 -U admin -P password "C:\catalogs" "\\computer_name\exported_catalogs"

Export a catalog from a German version of Impromptu

The following command example exports a catalog from a German version of Impromptu using the password required for the Ersteller user class (Creator user class):
migratefroms7 -u Ersteller -p"" "C:\catalogs" "C:\exported_catalogs"

Display the migratefroms7 command help

Use the following command to display information about the migratefroms7 command syntax and options:
migratefroms7 -h

Creating data source connections in IBM Cognos BI

You must create data source connections in IBM Cognos Business Intelligence for exported IBM Cognos Series 7 Architect models and IBM Cognos Series 7 Impromptu catalogs.

When migrating IBM Cognos Series PowerPlay reports, you must also create data source connections for the PowerCubes that the reports use.

You can create new data source connections in either IBM Cognos Framework Manager or IBM Cognos Administration for the database. The data source connections must match the IBM Cognos Series 7 connections. One source for the IBM Cognos Series 7 data source information is the cognos.ini file. By default, the cognos.ini file is created in the Cognos folder of the IBM Cognos Series 7 installation location.
For information about creating data source connections in IBM Cognos BI, see the Framework Manager User Guide or the IBM Cognos Administration and Security Guide.

Related tasks

“Creating data source connections and packages for migrated metadata and cubes” on page 49

Each migrated report must map to an existing published IBM Cognos Framework Manager package created from IBM Cognos Series 7 metadata (IBM Cognos Series 7 Impromptu catalog or IBM Cognos Series 7 Architect model) or cube.

Importing metadata into Framework Manager

You can import IBM Cognos Series 7 metadata into a new project or an existing project. You can import more than one IBM Cognos Series 7 Architect or IBM Cognos Series 7 Impromptu metadata source into the same project.

Before you begin

To import an exported Architect model or Impromptu catalog into IBM Cognos Framework Manager, the XML format files you created with arch2xml74 or migratefroms7 must be in a location accessible to the Framework Manager computer.

If IBM Cognos Business Intelligence is configured to use the same namespace as IBM Cognos Series 7 and you want to maintain security settings from IBM Cognos Series 7, ensure that you select the Series 7 namespace when importing the metadata.

For instructions about importing metadata, see the Framework Manager User Guide. If you are not familiar with working with metadata in IBM Cognos BI, see the Framework Manager Guidelines for Modeling Metadata.

Common post-migration tasks

After importing the IBM Cognos Series 7 metadata into IBM Cognos Framework Manager, you may have to complete one or more tasks to prevent errors or unexpected results caused by differences in functionality between IBM Cognos Series 7 and IBM Cognos Business Intelligence.

Support reports created before Impromptu 6.0

Any report created with a version of IBM Cognos Series 7 Impromptu earlier than Impromptu 6.0, even if the report is upgraded to later versions of Impromptu, contains direct references to the database table columns rather than the catalog folder item that the report author selected in the query dialog.

This behavior is different from the version of Impromptu supported for migration, Impromptu 7.4. Opening the report in a later version of Impromptu does not change this behavior in the report.

In the Framework Manager model created from the migrated catalog, the database table columns are under the [Tables] namespace, and the catalog folder items are under the [Folders] namespace. By default, the [Tables] namespace is hidden from report authors when the package is published. This means that any direct references to the database table columns in the report created with a version of
Impromptu earlier than 6.0 do not resolve in package metadata. These references display an error, for example "[Not Found: [db].[cat].[sch].[tbl].[col]]" in the migrated report. The error is different depending upon the database architecture. To resolve this problem, unhide the [Tables] namespace in package properties before publishing the package and deploying the migrated reports.

**Review cardinality in the Framework Manager model**

Examine and, if necessary, refine cardinality to ensure that the relationships correctly reflect your users’ reporting requirements.

Cardinality in Framework Manager is inferred based on IBM Cognos Series 7 metadata relationships. You may be able to improve query processing time and performance with further tuning.

You must recreate some relationships after you import the IBM Cognos Series 7 metadata. Verify relationships when importing any type of metadata in Framework Manager.

Performance improvements may result from refining cardinalities related to databases that contain the most frequently used tables and greatest row volumes.

**Evaluate filters in imported Architect metadata**

You may have to update filter properties to achieve the expected results. For example, you want the filter to be optional.

Because Architect does not support optional filters, you must change the filter properties in Framework Manager.

**Related tasks**

“Receiving parsing error message when migrated Impromptu report fails to run” on page 181

After you import a report into IBM Cognos Business Intelligence, it fails to run, and you receive a parsing error.

**Testing the imported metadata**

After you import the metadata into IBM Cognos Framework Manager, you must ensure that the metadata migrated successfully.

The organization of the information in Framework Manager is similar to how it is organized in the IBM Cognos Series 7 Architect model or IBM Cognos Series 7 Impromptu catalog. You can find most of the migrated information in the Tables and Folders namespaces. Because some model and catalog features do not have equivalent functionality in Framework Manager, you may see differences in the metadata.

**Procedure**

1. Test the data source connections.
2. Verify the model to ensure that there are no invalid objects that can break queries in the published package.
   
   In Framework Manager, icons of broken objects indicate that an object has problems. If you do not resolve these problems before report authors use the objects to create reports, they may get unexpected results.
Reevaluation warning messages are produced for all migrated data source query subjects. You must repair the query subjects before you publish the model to IBM Cognos Business Intelligence. The repair function refreshes the data source query subjects with information coming from the underlying database, such as size and precision, and ensures that queries based on the migrated model will run correctly.

Results

Continue to develop the project and then publish a Framework Manager package.

Related concepts

Chapter 7, “Architect mapping,” on page 61
The information in this section will help you understand the mapping of objects when migrating IBM Cognos Series 7 Architect models to IBM Cognos Business Intelligence. If a feature or functionality is not mentioned, an equivalent is available in IBM Cognos BI.

Chapter 8, “Impromptu catalog mapping,” on page 91
The information in this section will help you understand the mapping of objects when migrating IBM Cognos Series 7 Impromptu metadata models (catalogs) from IBM Cognos Series 7 to IBM Cognos Business Intelligence.

“Problems importing metadata into Framework Manager” on page 171
This section describes problems you may encounter when importing migrated metadata into Framework Manager.

Publishing a Framework Manager package

To make the migrated metadata available to report authors and to support the migration of IBM Cognos Series 7 Impromptu reports, you must publish an IBM Cognos Framework Manager package to IBM Cognos Connection.

To reduce the number of steps required to deploy migrated Impromptu reports, use the catalog file name for the package you publish. For example, if the original Impromptu catalog is gosales.cat, name the package gosales.cat.

Tip: If you want to use a different name for the package, you must edit the nameMap.xml file so that the migration process will be able to map reports to the appropriate metadata. Editing the nameMap.xml file is discussed in the next chapter.

By default, new packages created in Framework Manager are set to use the dynamic query mode. To ensure that migrated reports will execute in IBM Cognos Business Intelligence, you must ensure that the dynamic query mode is disabled. To do this, clear the Use Dynamic Query Mode check box in the Publish Wizard.

You must publish packages to the Public Folders root folder in IBM Cognos Connection. If you publish packages to another folder, migrated reports will not run. After you finish migrating the metadata and reports, you can move the packages and reports in IBM Cognos Connection and the migrated reports will still run.

After publishing the package, test it by creating reports in the IBM Cognos BI studios.
For more information about publishing a package to IBM Cognos BI, see the Framework Manager User Guide. For information about the dynamic query mode, see the IBM Cognos Business Intelligence Dynamic Query Guide.

After you complete the metadata migration and test the published package, you can migrate IBM Cognos Series 7 applications.

**Related concepts**

"Packages listed in the nameMap.xml file not found in the Content Store" on page 176

When you run the deployfroms7 tool, you receive an error indicating the migration process did not find a required package in the IBM Cognos Business Intelligence content store.

**Related tasks**

Chapter 5, “Migrating applications,” on page 37

You can migrate some components of an IBM Cognos Series 7 application to IBM Cognos Business Intelligence.

---

**Synchronizing a Framework Manager project with updated IBM Cognos Series 7 metadata**

Consider migration to IBM Cognos Business Intelligence as a one-time process. After you migrate IBM Cognos Series 7 metadata to IBM Cognos BI, you should only make changes to the metadata in IBM Cognos BI and freeze the IBM Cognos Series 7 source.

However, if you want to maintain the metadata in IBM Cognos Series 7 as well as IBM Cognos BI, you can synchronize changes made in the original IBM Cognos Series 7 Architect models and IBM Cognos Series 7 Impromptu catalogs with projects created from the migrated metadata. To do this, you must repeat the export process for the model or catalog and then synchronize the IBM Cognos Framework Manager project.

For information about copying projects, see the Framework Manager User Guide.

**Before you begin**

Before you synchronize, ensure that you create a backup of the Framework Manager project and the original exported XML file from your Architect model or Impromptu catalog.

**Procedure**

1. Export the Architect model or Impromptu catalog using the same target XML file name that you used for the original export.
2. Copy the XML file to the location used for the Framework Manager project, replacing the original XML file.
3. In Framework Manager, synchronize the project.
   For instructions, see the Framework Manager User Guide.
4. Ensure that the updates are reflected in your Framework Manager project.
   Complete the same tests and updates you used when you originally imported the IBM Cognos Series 7 metadata.
Results

The Framework Manager project includes the updates to the IBM Cognos Series 7 metadata. Republish the project to make the updates available to report authors.
Chapter 5. Migrating applications

You can migrate some components of an IBM Cognos Series 7 application to IBM Cognos Business Intelligence.

The following diagram shows the workflow for migrating IBM Cognos Series 7 applications to IBM Cognos BI.

Procedure
1. Prepare the IBM Cognos Series 7 applications for migration.
2. Prepare the migration source files.
3. Run the migratefroms7 tool to start the migration process.
4. Move the intermediate migration files to IBM Cognos BI.
5. Create data source connections and publish packages for migrated metadata and cubes.
6. Check the package mapping.
7. Run the deployfroms7 tool to complete the migration process.

If you have IBM Cognos Series 7 PowerPlay reports that are published to IBM Cognos Connection, you can migrate those reports directly to IBM Cognos BI without following the workflow.
8. Deploy the content (or import) to IBM Cognos BI.
9. Test the migrated content, applying security if required.
10. Enable access to report authors.

Related concepts

“IBM Cognos Series 7 products and components migrated with tools” on page 9
You can migrate the following products and components to IBM Cognos Business Intelligence using the IBM Cognos Migration Assistant tools.

Chapter 6, “Migration of PowerPlay reports published to IBM Cognos Connection,” on page 59
If you have IBM Cognos PowerPlay reports published to IBM Cognos Connection, you can migrate those reports to IBM Cognos Analysis Studio or IBM Cognos Report Studio directly from IBM Cognos Connection without using the IBM Cognos Migration Assistant command line tools.

Preparing applications for migration

The migration tools do not correct existing errors in the IBM Cognos Series 7 content. Exporting applications that contain errors can cause unexpected results.

Procedure

1. Run the IBM Cognos Series 7 user cleanup tool from IBM Cognos Series 7 Upfront Server Administration to identify and delete invalid resources from the Upfront content store. This tool will delete Personal NewsBoxes and content related to users that were deleted from Access Manager.
   For more information, see the Upfront Server Administrator Guide.

2. Run the IBM Cognos Series 7 PowerPlay administration tool ppserver -ppx to identify unused or corrupt PowerPlay .ppx files. You can use errors in the command output to identify content that cannot be found or read by the IBM Cognos Migration Assistant. If you do not delete this invalid content, there will be errors when you create an IBM Cognos Series 7 Deployment Manager package.
   For more information, see the IBM Cognos Series 7 Solution Installation Guide.

3. Run the AM_NamespaceCorruptionDetect utility to verify that your IBM Cognos Series 7 namespace is not corrupt. A corrupt namespace can cause unexpected results.
   For more information, see the Access Manager Administrator Guide.

4. Ensure that you have set security for your IBM Cognos Series 7 PowerPlay Enterprise Server.

5. Make cubes available to the IBM Cognos Business Intelligence servers.
   The migration process will not physically move cubes that are used in your IBM Cognos Series 7 environment. Therefore, you must ensure that the IBM Cognos BI servers have access to the same LAN locations or local disks as your IBM Cognos Series 7 servers.

6. Ensure that all parts of the locale (language, country code, and character set) in IBM Cognos BI are identical to your IBM Cognos Series 7 environment.
   You may need to install additional language fonts to support the character set used in IBM Cognos Series 7. For more information, see the IBM Cognos BI Installation and Configuration Guide.
   The locale set in IBM Cognos Series 7 Configuration Manager must match the product locale, content locale, and server locale in IBM Cognos BI. In addition, create a language properties file in IBM Cognos BI for the locale to which the Series 7 environment is set. To do this, create a copy of the
c10\_location/webapps/p2pd/WEB-INF/classes/
migrationMsg\_<lang>\_<country code>\_properties files in another directory. Rename the copy
migrationMsg\_<lang>\_<country code>\_properties, where <lang>\_<country code> is
the Series 7 locale. Move this file back to the first directory above. Repeat if the
IBM Cognos BI server or content locale country or region code is different than
the Series 7 locale.

The table below lists the language properties files that are required in various
scenarios.

<table>
<thead>
<tr>
<th>Series 7 locale</th>
<th>IBM Cognos BI server locale</th>
<th>IBM Cognos BI product locale</th>
<th>IBM Cognos BI content locale</th>
<th>Language properties file required</th>
</tr>
</thead>
<tbody>
<tr>
<td>de-de</td>
<td>de-de</td>
<td>German</td>
<td>German (Germany)</td>
<td>migrationMsg_de-de.properties</td>
</tr>
</tbody>
</table>
| de-de           | de-at                       | German                      | German (Germany)            | migrationMsg\_de-de.properties
migrationMsg\_de-at.properties |
| de-at           | de-de                       | German                      | German (Germany)            | migrationMsg\_de-at.properties
migrationMsg\_de-de.properties |
| de-at           | de-at                       | German                      | German (Austria)            | migrationMsg\_de-at.properties                    |

7. Ensure that the servers you are migrating content from and your IBM Cognos
BI servers are behind your network firewall.
The migration processes do not encrypt when moving your reports and other
content from IBM Cognos Series 7 to IBM Cognos BI. For more information, see
the IBM Cognos BI Architecture and Deployment Guide.

8. Set schedules for IBM Cognos Series 7 Impromptu Web reports.
The save the result option is not available in IBM Cognos BI if the original
Impromptu Web Reports NewsItem did not have schedule settings.
To ensure that the save the result option is available in IBM Cognos BI, set a
schedule for Impromptu Web Reports before migration.

9. To migrate IBM Cognos Series 7 applications on the UNIX operating system,
you must transfer the content to a computer running on the Microsoft
Windows operating system using a binary file transfer method.
The migration source

The content of the migration source depends on the IBM Cognos components you want to migrate.

- To migrate Web-based content from IBM Cognos Series 7 Upfront, IBM Cognos Series 7 PowerPlay Enterprise Server, and IBM Cognos Series 7 Impromptu Web Reports, the migration source is one or more IBM Cognos Series 7 Deployment Manager packages.
- You can also use a directory as an alternative source for migrating PowerPlay Web reports.
- To migrate Impromptu or PowerPlay for Windows reports, the migration source is a directory that contains the reports and associated files, such as catalogs and linked graphics. You can use one or more directories as the migration source.

Creating the migration source using a Deployment Manager package

To migrate IBM Cognos Series 7 Web-based content, you use an IBM Cognos Series 7 Deployment Manager package as the migration source.

You use Deployment Manager to create the package, which defines the components and objects that you want to migrate. To create the package, select the providers and NewsBoxes that you want to migrate.

To simplify the creation of the migration source, create the Deployment Manager package on the same computer where you installed the migratefroms7 tool. For instructions about creating a Deployment Manager package, see the Deployment Manager User Guide.

The package and packet files must be located on the computer where you are running the migratefroms7 tool. If you created a Deployment Manager package for a distributed IBM Cognos Series 7 environment, the package and packet files may be on more than one computer. In this case, you must complete the following additional steps using the package file (.dmp) to prepare the migration source before running the migratefroms7 tool. The .dmp file is an XML format file that you can open and edit in a text or XML editor.

Procedure

1. Open the .dmp file in a text or XML editor and search for class="packlet" to identify the location of all packlets.
   The following is an example of an Impromptu Web Reports (IWR) packet location in a .dmp file.

   ```xml
   <SourceValue>\\computernamereportstorelocation\marketing\adminmarketing</SourceValue>
   ``

   Other packlet types used in migration are IBM Cognos Series 7 PowerPlay Enterprise Server (PPES), IBM Cognos Series 7 Upfront, and IBM Cognos Series 7 Access Manager (ACCMAN).

2. Copy the packlets, preserving the folder structure, to the computer where you are running the migratefroms7 tool.

3. In the .dmp file, modify the <SourceValue> for the location of the packlets to show the correct location on the local computer.

4. Save the .dmp file.
Results

After you have created the Deployment Manager package, ensure that it is free from errors before using the package as a migration source. Deployment Manager errors will identify problems such as NewsItems with invalid gateway URL references, or content providers that were not available. These errors can cause problems if not corrected before migration.

You can now run the migrationfroms7 tool against the migration source.

Related concepts
“Packlets cannot be found” on page 173

If you use an IBM Cognos Series 7 Deployment Manager package created in a distributed IBM Cognos Series 7 environment, the package and packlet files you want to use as the migration source may be on different computers.

Creating the migration source using a folder

To migrate IBM Cognos Series 7 Impromptu reports, you use a folder as the migration source. You can also use a folder instead of an IBM Cognos Series 7 Deployment Manager package for migrating IBM Cognos Series 7 PowerPlay reports.

You can use a single folder as the migration source. However, you may want to create a directory structure to provide an initial organization when you deploy the content to IBM Cognos Business Intelligence. For some applications, you must duplicate the original working directory structure to support the migration of features such as linked graphics.

The migration source should contain the following files:

- .ppx format files for PowerPlay reports
- .imr and .cat files for Impromptu reports
- Associated images such as .bmp and .jpeg files

Procedure

1. Create the directory structure.

   When you deploy the migrated content to IBM Cognos BI, the folder names from the migration source are used in IBM Cognos Connection. Do not use _SUPPORT or _LOG for folder names. The migratefroms7 tool creates directories with these names in the target location. Errors occur if the name already exists in the source or target location.

2. Copy reports and other required files to the directories.

   You can use the working directories as the migration source. However, the migratefroms7 tool processes all content in the directories. You cannot migrate a subset of the reports.

Results

You can now run the migrationfroms7 tool against the migration source.
Running the migratefroms7 tool

You use the migratefroms7 tool to start the migration process. This tool processes the IBM Cognos Series 7 migration source and creates two versions of intermediate files: a set of directories and files, and a .zip format version of all the directories and files.

The .zip format version makes it easier to transfer the intermediate files if IBM Cognos Business Intelligence is installed on a different computer than IBM Cognos Series 7.

Before you begin

Review the information about the migratefroms7 tool and identify the command line parameters required to process the migration source. For example, to migrate secured content you must know the required IBM Cognos Series 7 Access Manager logon information.

Before you run the migratefroms7 tool, print a copy of the migration worksheet and record the information you need for the migration, such as the values you use on the command line.

Procedure

1. Create the source and target locations.

   **Tip:** To make it easier to type the required command, do not use complex paths or folder names.

2. Open a command prompt window and go to the migs7 directory of the IBM Cognos Series 7 installation. For example, the default IBM Cognos Series 7 location is C:\Program Files\Cognos\cer5\migs7.

3. Run the migratefroms7 tool with the appropriate parameters.

   **Tip:** You can use Ctrl+c to stop the process.

   If errors occur, view the migration log file for more information about warnings and errors. The migration log file, migrationfroms7.htm, is located in the _LOG folder in the target location.

4. Check that the intermediate files contain the expected directories and files.

Results

The process is complete. If IBM Cognos BI is installed on a different computer, the next step is to transfer the migration files to the IBM Cognos BI computer. If IBM Cognos Series 7 and IBM Cognos BI are installed on the same computer, you do not need to transfer files. In this case, continue by creating data source connections and publishing packages for migrated metadata and cubes.
Before you use the IBM Cognos Migration Assistant, record the information you need for the command line tools and for other tasks such as checking package mapping. You may need to contact your administrator for some of the information.

After you run the migratefroms7 tool, the target location contains several directories and files.

**migratefroms7**

You use the migratefroms7 tool to migrate IBM Cognos Series 7 applications, including IBM Cognos Series 7 Impromptu catalogs, to IBM Cognos Business Intelligence.

The migratefroms7 tool does the following:
- Sets up the migration target location
- Creates a hierarchy of directories and files that contain information about the migration source, including an XML file for each report and catalog
- Creates a directory that contains images used in the reports
- Creates log files in the target location
- Creates a zip file of all of the content in the target location

For more information about installing the tool, see the Migration Assistant Installation and Configuration Guide.

You can install and run the migratefroms7 tool only on computers running the Microsoft Windows operating system.

The syntax used to run migratefroms7 tool is

```
migratefroms7 [options] "<source>" "<target>"
```

All parameters are case sensitive. Quotation marks are required when there are spaces in the directories. However, using quotation marks even when there are no spaces in the directories is helpful to distinguish between the source and target directories.

You can specify more than one source directory. The last directory on the command line is the target and all other directories are source locations.

**Note:** While it is possible to specify more than one source location, export one source location at a time to make it easier to troubleshoot errors.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-h --help</td>
<td>Shows a description of the parameters. To use this option, do not specify the source or target.</td>
</tr>
<tr>
<td>Parameter</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>-u</td>
<td>Specifies the user class to use to log onto the catalog. If this parameter is not specified, the Creator name is assumed. If you use a localized version of Impromptu, ensure that you specify the localized Creator name. For example, use Ersteller for German and Auteur for French. If you specify a user class other than Creator, some report objects may not be available as expected in migrated reports. Specify either a user class and password, or an IBM Cognos Series 7 Access Manager user and password. You do not have to specify both.</td>
</tr>
<tr>
<td>-p</td>
<td>Specifies the password for the Impromptu catalog user profile. The default is no password. Errors occur if you do not provide the password for a password-protected user profile.</td>
</tr>
<tr>
<td>-U user_ID</td>
<td>Specifies a user name from the IBM Cognos Series 7 namespace. If you do not provide logon information on the command line for secured content, you may be prompted for the information during the process. For Impromptu catalogs, specify either a Creator name and password, or an Access Manager user and password. You do not have to specify both.</td>
</tr>
<tr>
<td>-P user_password</td>
<td>Specifies the user password.</td>
</tr>
<tr>
<td>-d</td>
<td>Specifies that IBM Cognos Series 7 Deployment Manager packages in the source directories are not included in the processing.</td>
</tr>
<tr>
<td>-e encoding</td>
<td>Specifies the character set encoding to use when writing the exported XML file.</td>
</tr>
<tr>
<td>-i prog_id</td>
<td>Specifies which Impromptu automation server to use when there is more than one version installed on the computer. This parameter also determines which rendition to use if the -r parameter is not specified.</td>
</tr>
</tbody>
</table>

**Parameter Description**

- **-u** (or `--cataloguser`): Specifies the user class to use to log onto the catalog. If this parameter is not specified, the Creator name is assumed. If you use a localized version of Impromptu, ensure that you specify the localized Creator name. For example, use Ersteller for German and Auteur for French. If you specify a user class other than Creator, some report objects may not be available as expected in migrated reports.

- **-p** (or `--catalogpassword`): Specifies the password for the Impromptu catalog user profile. The default is no password. Errors occur if you do not provide the password for a password-protected user profile.

- **-U user_ID** (or `--user user_ID`): Specifies a user name from the IBM Cognos Series 7 namespace. If you do not provide logon information on the command line for secured content, you may be prompted for the information during the process. For Impromptu catalogs, specify either a Creator name and password, or an Access Manager user and password. You do not have to specify both.

- **-P user_password** (or `--password user_password`): Specifies the user password.

- **-d** (or `--dircontentsonly`): Specifies that IBM Cognos Series 7 Deployment Manager packages in the source directories are not included in the processing.

- **-e encoding** (or `--encoding encoding`): Specifies the character set encoding to use when writing the exported XML file.

- **-i prog_id** (or `--impromptuserver prog_id`): Specifies which Impromptu automation server to use when there is more than one version installed on the computer. This parameter also determines which rendition to use if the -r parameter is not specified.
### Parameter Description

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>-r rendition</code></td>
<td>Specifies the IBM Cognos rendition name to use when there is more than one version of IBM Cognos Series 7 installed on the computer.</td>
</tr>
<tr>
<td><code>--rendition rendition</code></td>
<td>Note: If the rendition is not explicitly specified by either the <code>-r</code> or <code>-i</code> parameter, the rendition used is the same as the parent directory of the migs7 directory.</td>
</tr>
<tr>
<td><code>--acl strategy</code></td>
<td>Specifies that access control list (ACL) information for Upfront content is included in the processing. You can specify one of the following strategies.</td>
</tr>
<tr>
<td></td>
<td>0 = Do not generate ACL report or migrate ACL definitions.</td>
</tr>
<tr>
<td></td>
<td>1 (default) = Generate ACL report but do not migrate ACL definitions.</td>
</tr>
<tr>
<td></td>
<td>2 = Generate ACL report and migrate ACL definitions.</td>
</tr>
<tr>
<td></td>
<td>To use the last option, you must configure IBM Cognos BI to use the same namespace as IBM Cognos Series 7 and you must provide the namespace ID on the command line.</td>
</tr>
<tr>
<td></td>
<td>For more information about the options for migrating ACL information, see <a href="#">Security</a> on page 166.</td>
</tr>
<tr>
<td><code>-N namespace_ID</code></td>
<td>Specifies the IBM Cognos namespace to use as the source of contact user ID and security. You can obtain the namespace ID from namespace properties in IBM Cognos Configuration.</td>
</tr>
<tr>
<td><code>--namespace namespace_ID</code></td>
<td></td>
</tr>
<tr>
<td><code>--scv</code></td>
<td>Migrates only Impromptu Web Reports and IBM Cognos Series 7 PowerPlay shortcuts and custom views. You can migrate shortcuts and custom views only after all packages are migrated.</td>
</tr>
<tr>
<td></td>
<td>After you migrate the packages, verify that all of the report folders work. Then create a package in Deployment Manager that includes the shortcuts and custom views that you want to migrate and all referenced source NewsItems. Run the migratefroms7 command again with this option to migrate shortcuts and custom views only.</td>
</tr>
</tbody>
</table>
### Parameter Description

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-q</td>
<td><strong>Optional</strong>&lt;br&gt;Suppresses the display of progress messages during the export process. Errors and warnings are still written to the log file.</td>
</tr>
<tr>
<td>--quiet</td>
<td></td>
</tr>
</tbody>
</table>

<i><source></i> Specifies the directory that contains catalogs to be migrated. You can specify more than one source location. Each source location must be a file path on the local file system or a UNC file path to a directory or file on another server. You can use slash (/) or backslash (\) as delimiters of path segments. Enclose any path in double quotation marks if any file or directory names in the path contain spaces.

<i><target></i> Specifies the parent folder for the intermediate migration files created by the process. The process creates a new folder in the target location with the following name format:

```
timestamp.computer_name.migratefroms7
```

Existing content in the target location is not deleted or changed.

The target directory must be a directory path on the local file system, or a UNC file path to a directory on another server. You must have write permissions to an existing target directory, or you must have permissions to create a new directory if the specified target does not exist.

Do not use the same directory for both source and target. Do not use _SUPPORT as the name of the target location. The migratefroms7 tool creates a directory named _SUPPORT in the target location. Errors occur if the name already exists.

You can use slash (/) or backslash (\) as delimiters of path segments in the command line. Enclose the path in double quotation marks if any directory names contain spaces.

---

### Examples

This section contains examples showing the correct syntax to use with the migratefroms7 tool.

**Export a Deployment Manager package**

The following command exports a specific Deployment Manager package. The migration tool does not process other content in the same location.
migratefroms7 -U admin -P password "C:\Cognos\cer5\packages\migration\series7_package.dmp" "C:\Migration\output"

Export one or multiple Deployment Manager packages

If you do not specify a package definition, the migratefroms7 tool processes all package definitions in the source directory. The migratefroms7 tool does not export reports in the same directory.
migratefroms7 -U admin -P password "C:\Cognos\cer5\packages\migration" "C:\Migration\output"

Export the contents of a directory

Use the -d parameter to exclude Deployment Manager packages from the processing. The migratefroms7 tool exports only reports.
migratefroms7 -d "C:\Cognos\reports" "C:\Migration\output"

Export the contents of multiple directories

Use the -d parameter to exclude Deployment Manager packages from the processing.
migratefroms7 -d "C:\Cognos\regionA_reports" "C:\Cognos\regionB_reports" "C:\Cognos\regionC_reports" "C:\Migration\output"

Export using a specific rendition when more than one version of IBM Cognos Series 7 is installed

Use the -r parameter to specify the version of IBM Cognos Series 7 to use for the export process.
migratefroms7 -r cer3 "C:\Cognos\regionA_reports" "C:\Migration\output"

Export using a specific encoding

Use the -e parameter to specify an encoding when the source content encoding is different from the local computer.
migratefroms7 -e utf-8 "C:\migration\DeployPkg.dmp" "C:\Migration\output"

Intermediate migration files

After you run the migratefroms7 tool, the target location contains several directories and files.

You may need to work with the following content:

- **target\deployfroms7.zip**
  The deployfroms7.zip file is a compressed format version of all the intermediate migration files. The .zip format makes it easier to transfer the intermediate files if IBM Cognos Business Intelligence is installed on a different computer than IBM Cognos Series 7.

- **target\_LOG\migratefroms7.htm**
  The migratefroms7.htm log file contains information about the process.

- **target\target_name.dmp\ACL_Report\default.html**
  If you created an ACL report when you ran the migratefroms7 tool, open default.html in a Web browser to view the report.

- **target\_SUPPORT\maps\nameMap.xml**
The nameMap.xml file includes default names for IBM Cognos Framework Manager packages based on IBM Cognos Series 7 Impromptu catalogs. Before you deploy the migration package, check package mapping to ensure that the deployfroms7 process is successful.

Do not change or delete any of the directories or intermediate migration files from the migration package.

If IBM Cognos Series 7 and IBM Cognos BI are installed on different computers, move the intermediate migration files to the IBM Cognos BI computer to create the source directory for the deployfroms7 tool. If IBM Cognos Series 7 and IBM Cognos BI are installed on the same computer, you do not have to perform this task.

After you have moved the intermediate migration files to the IBM Cognos BI computer, the next step is to create data source connections and publish packages for migrated metadata and cubes.

Related tasks
“Exporting Impromptu catalogs” on page 25
You can export IBM Cognos Series 7 Impromptu catalogs for use as a metadata source in IBM Cognos Framework Manager. If you are migrating Impromptu reports, you must first migrate the corresponding catalogs to support the report migration.

“Running the migratefroms7 tool” on page 42
You use the migratefroms7 tool to start the migration process. This tool processes the IBM Cognos Series 7 migration source and creates two versions of intermediate files: a set of directories and files, and a .zip format version of all the directories and files.

“Checking the package mapping” on page 50
The migration process assumes the IBM Cognos Business Intelligence package name for the required metadata is the same as the file name of the IBM Cognos Series 7 metadata.

Moving the intermediate migration files to a Windows computer
If IBM Cognos Business Intelligence is installed on a computer that is running on the Microsoft Windows operating system, follow these steps to move the intermediate migration files to that computer.

Procedure
1. Copy the deployfroms7.zip file from the migratefroms7 target location to the IBM Cognos BI computer.
2. Extract the contents of the deployfroms7.zip file to a new directory.

Tip: To make it easier to type the required command, do not use complex paths or folder names.

Moving the intermediate migration files to a UNIX computer
If IBM Cognos Business Intelligence is installed on a computer that is running on the UNIX operating system, follow these steps to move the intermediate migration files to that computer.
Procedure

1. Transfer the compressed deployfroms7 file from the target location to the IBM Cognos BI computer running on the UNIX operating system using a binary file transfer method.

2. Extract the contents of the compressed file to a new directory on the IBM Cognos BI computer.

   **Tip:** To make it easier to type the required command, do not use complex paths or folder names.

3. If the encoding used on the UNIX computer does not support any of the non-ASCII characters used in directory or file names, you must edit the names to use supported characters. Replace non-ASCII characters in directory and files names with the equivalent character in the encoding used on the UNIX computer.

Creating data source connections and packages for migrated metadata and cubes

Each migrated report must map to an existing published IBM Cognos Framework Manager package created from IBM Cognos Series 7 metadata (IBM Cognos Series 7 Impromptu catalog or IBM Cognos Series 7 Architect model) or cube.

To support Impromptu report migration, you must first complete metadata migration. Do not use a package created from a migrated Architect model as the metadata source for migrated Impromptu reports.

To support IBM Cognos Series 7 PowerPlay report migration, create data source connections to the required cubes using either Framework Manager or IBM Cognos Connection. In Framework Manager, use the cube data source in a Framework Manager project, and then publish a package to IBM Cognos Connection using the cube name for the package name. For example, if reports use a cube named Great_Outdoors, create and publish a package named Great_Outdoors. If the report set uses more than one cube, you must create a separate package for each cube.

By default, new packages created in Framework Manager are set to use the dynamic query mode. You must disable the dynamic query mode before you publish packages. To do this, clear the **Use Dynamic Query Mode** check box in the Publish Wizard.

For information about creating data source connections, see the Framework Manager User Guide or the IBM Cognos Administration and Security Guide. For information about publishing packages, see the Framework Manager User Guide. For information about the dynamic query mode, see the IBM Cognos Business Intelligence Dynamic Query Guide.
Related tasks

Chapter 4, “Migrating metadata,” on page 19
This chapter discusses migrating metadata from IBM Cognos Series 7 Architect and IBM Cognos Series 7 Impromptu. You can skip this chapter if you are only migrating IBM Cognos Series 7 PowerPlay content.

Checking the package mapping

The migration process assumes the IBM Cognos Business Intelligence package name for the required metadata is the same as the file name of the IBM Cognos Series 7 metadata.

For example, for IBM Cognos Series 7 Impromptu reports based on a catalog named gosales.cat, the migration process assumes that a package named gosales.cat is available in IBM Cognos Connection. If you changed the name of the migrated metadata, you must edit the nameMap.xml file or the migration process will not be able to map the migrated report to the appropriate metadata.

Before deploying a migration package, check package mapping by comparing the default package name in the nameMap.xml file to the name of the published package. If the names do not match, you must change one of the names.

You must publish packages to the Public Folders root folder in IBM Cognos Connection. If you publish packages to another folder, migrated reports will not run. After you finish migrating the metadata and reports, you can move the packages and reports in IBM Cognos Connection and the migrated reports will still run.

Procedure

1. Open the nameMap.xml file in a text or XML editor.
   The nameMap.xml file is in the _SUPPORT\maps directory in the target location you specified when you ran the migratefroms7 tool.
2. Check whether the names in <packageName>default_name</packageName> elements match the name of a published package that represents the IBM Cognos Series 7 metadata required by the migrated reports.
3. If a name does not match, edit the nameMap.xml file to make the name the same as the published package.
   Do not edit any other parts of the nameMap.xml file.
4. Save and close the nameMap.xml file.

Results

The next step in the migration process is creating an IBM Cognos BI deployment archive using the deployfroms7 tool.
Running the deployfroms7 tool

To complete the migration process, run the deployfroms7 tool against the intermediate migration files.

The deployfroms7 tool completes the migration process and creates an IBM Cognos Business Intelligence deployment archive. You can use a deployfroms7 command line option to automatically import the content to IBM Cognos BI, or you can import the content from the deployment archive as a separate step at a later time.

To test the IBM Cognos Series 7 PowerPlay report migration process, migrate a set of reports to both IBM Cognos Analysis Studio and IBM Cognos Report Studio and then compare the results to determine which studio is the most appropriate target. Use the -y option when you run the deployfroms7 tool to specify which studio is used for the target. After you complete the testing, you may want to delete duplicate content before providing access to users.

If you rerun the deployfroms7 tool, even to migrate reports to a different studio, the original reports are not overwritten. You must delete the reports before you run the deployfroms7 tool again.

Before you begin

Before you run the deployfroms7 tool, ensure that the required data source connections and IBM Cognos Framework Manager packages that represent the IBM Cognos Series 7 metadata and cubes are created, the packages published, and check the package mapping.

Review the information about the deployfroms7 tool and identify the command line parameters required to complete the migration process. For example, namespace information is required if IBM Cognos BI is configured to use the same namespace as IBM Cognos Series 7. Also, signon information must be provided to access the packages referenced in the nameMap.xml file.

Print a copy of the migration worksheet and record the information you need to complete the migration process, such as the values you will use on the command line.

Procedure

1. Open a command prompt window and go to the migdeploy directory where you installed the IBM Cognos BI components of the IBM Cognos Migration Assistant.
   
   For example, if you used the default location for IBM Cognos BI, go to C:\Program Files\ibm\cognos\c10\migdeploy.

2. Run the deployfroms7 tool with the appropriate parameters.
Tip: You can use Ctrl+c to stop the migration process.

If errors occur, view the migration log file for more information about errors and warnings. The migration log file viewMigrationLog.html is in the _LOG folder in the target location.

3. Check that the expected directories and files are in the target location.

For more information, see “Importing a deployment archive” on page 55.

Results

The process is complete. If you specified not to automatically deploy the content to IBM Cognos BI, you must import the deployment archive. Otherwise, test and refine the migrated content.

Related concepts

Appendix C, “Migration worksheet,” on page 215

Before you use the IBM Cognos Migration Assistant, record the information you need for the command line tools and for other tasks such as checking package mapping. You may need to contact your administrator for some of the information.

Related tasks

“Importing a deployment archive” on page 55

After you run the deployfroms7 tool, the target directory contains several directories and files.

The target Studio for migrated reports

You can migrate IBM Cognos Series 7 PowerPlay reports to IBM Cognos Report Studio or to IBM Cognos Analysis Studio.

Note: You can migrate IBM Cognos Series 7 Impromptu reports only to Report Studio.

The following information can help you decide which studio to choose as the target.

• If a report is run and viewed on a regular basis with little or no requirement to explore or analyze the data in the report, Report Studio is the most appropriate target.
• If a report has characteristics such as complex formatting, Report Studio is the most appropriate target.
• If a report consumer needs to explore or analyze the information in a report to understand a problem or gain insight into the business by looking at different perspectives of the data, Analysis Studio is the most appropriate target.

Examples of exploring and analyzing information include drill down, swapping rows and columns, applying zero suppression or 80/20 suppression, and exception highlighting.

deployfroms7

The deployfroms7 tool completes the migration to IBM Cognos Business Intelligence.

The deployfroms7 tool performs the following tasks to complete the migration:

• Maps reports to the package that represents the required metadata or cube. If metadata mapping fails, the process writes the text [not found] to the report and continues based on the default package name.
- Saves the images used in the migrated reports to the images directory at the target location.
- Creates links in each of the XML reports to required images and drill picklist references.
- Encodes the report specifications into the string format required by IBM Cognos BI import deployment.
- Creates an IBM Cognos BI deployment archive and copies it to the IBM Cognos BI deployment directory.
- Creates a log file in the _LOG directory at the target location. The log file contains details about what happens during the deployment and links to troubleshooting topics in the documentation to help you solve problems.
- If you use the optional -a parameter, the deployfroms7 tool imports the reports into IBM Cognos BI. For IBM Cognos Series 7 Web-based content, the IBM Cognos Series 7 Upfront NewsIndex structure is preserved in IBM Cognos Connection.

For more information about installing the tool, see the Migration Assistant Installation and Configuration Guide.

The syntax to run the deployfroms7 tool is
deployfroms7 [options] "<source>" "<target>"

All parameters are case sensitive. Quotation marks are required when there are spaces in the directories. However, using quotation marks even when there are no spaces in the directories is helpful to distinguish between the source and target directories.

The source and target keywords are optional. If you do not include the keywords, the first directory is the source and the second directory is the target.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-h &lt;help&gt;</td>
<td>Shows a description of the parameters. To use this option, do not specify source or target.</td>
</tr>
</tbody>
</table>
| -a <autodeploy> | Optional  
Automatically deploy the reports to IBM Cognos BI. If you do not use this option, you must manually import from the IBM Cognos BI deployment archive later. |
| -U user_ID <user_ID> | Specifies the user name to log onto IBM Cognos BI.  
If anonymous access is disabled in IBM Cognos BI, you must provide user and namespace information with the deployfroms7 command. |
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-P user_password</td>
<td>Specifies the user password to log onto IBM Cognos BI.</td>
</tr>
<tr>
<td>--password user_password</td>
<td>If a password is not required for the user, do not add -P or --password to the command. For example, in the following command, administrator does not require a password: deployfroms7 C:\exported_reports C:\c10_reports --user administrator --namespace &quot;Series 7&quot;</td>
</tr>
<tr>
<td>-N namespace_ID</td>
<td>Specifies the namespace that contains the user information. You can obtain the namespace ID from IBM Cognos Configuration.</td>
</tr>
<tr>
<td>--namespace namespace_ID</td>
<td></td>
</tr>
<tr>
<td>-y strategy</td>
<td>Specifies the target studio for migrated PowerPlay reports. This parameter has the following options.</td>
</tr>
<tr>
<td>--ppxstrategy strategy</td>
<td>analysis - migrate all reports to IBM Cognos Analysis Studio report - migrate all reports to IBM Cognos Report Studio. This is the default action if you do not use the y parameter.</td>
</tr>
</tbody>
</table>
| -t time         | Optional
| --timeout time  | Specifies the number of seconds allowed by IBM Cognos BI for the IBM Cognos Software Development Kit calls used by the deployfroms7 process. By default, the timeout limit is 60 seconds. Use this optional parameter to specify a greater amount of time if the migration log file includes timed out exception errors. These errors typically occur when migrating reports associated with Framework Manager packages created from large migrated IBM Cognos Series 7 Impromptu catalogs. |
| -q              | Optional
| --quiet | Suppresses the display of progress messages during the export process. Errors and warnings are still written to the log file. |
| <source>        | Specifies the location of the intermediate migration files created by the migratefroms7 tool. **Note:** The location of the files created by the migratefroms7 tool has the following name format: timestamp.computer_name.migratefroms7 |
Parameter | Description
--- | ---
<target> | Specifies the parent folder for the IBM Cognos BI deployment package created by the deployfroms7 tool. To make it easier to manually import the migrated content into IBM Cognos BI, use the deployment files location as specified in IBM Cognos Configuration as the target. The deployfroms7 process creates a new folder in the target location with the following name format:
	timestamp.computer_name.deployfroms7
Existing content in the target location is not deleted or changed.

Examples
This section contains examples showing the correct syntax to use with the deployfroms7 tool.

Run the deployfroms7 tool

The following command converts the intermediate migration files to an IBM Cognos BI deployment archive:

deployfroms7 --user administrator --password admin1234 --namespace "Series 7" "C:\exported_reports\timestamp.computer_name.migratefroms7" "C:\c10_reports"

Automatically deploy the migrated content to IBM Cognos BI

The following command converts the intermediate migration files to an IBM Cognos BI deployment archive and automatically imports the migrated content to IBM Cognos Connection:

deployfroms7 --user administrator --password admin1234 --namespace "Series 7" --autodeploy "C:\exported_reports\timestamp.computer_name.migratefroms7" "C:\c10_reports"

Specify Report Studio as the target for PowerPlay reports

The following command migrates IBM Cognos Series 7 PowerPlay reports for use in Report Studio:

deployfroms7 --user administrator --password admin1234 --namespace "Series 7" --ppxstrategy report "C:\exported_reports\timestamp.computer_name.migratefroms7" "C:\c10_reports"

Importing a deployment archive

After you run the deployfroms7 tool, the target directory contains several directories and files.

You may need to work with the following content:
- target\_LOG\viewMigrationLog.html
You can open the log file in a Web browser. It contains information about both
the migratefroms7 tool and deployfroms7 processes.

- target\_SUPPORT\deployment\_DEPLOYMENT\_

  This directory contains the compressed IBM Cognos Business Intelligence
deployment archive files (.zip) that you can import into IBM Cognos Business
Intelligence.

Do not change or delete any of the directories or files from the migration
deployment archive.

If you do not use the option to automatically import content into IBM Cognos BI
when you run the deployfroms7 tool, you must import the deployment archive in
IBM Cognos Connection to make the content available to users.

If the deployment archive is not available in the New Import wizard, copy the .zip
file from target\_SUPPORT\deployment\_DEPLOYMENT to the Deployment files
location specified in the Environment section in IBM Cognos Configuration. An
example of the deployment archive name format is 20100207T143105.zip. You can
copy the file to a different location on the same computer or to a different
Microsoft Windows or UNIX computer. If you are transferring the file from a
Windows computer to a UNIX computer, use a binary file transfer method.

For instructions about importing and working with deployment archives, see the
IBM Cognos Administration and Security Guide.

After you have imported the deployment archive into IBM Cognos BI, test and
refine the migrated content.

Related tasks

- “Running the deployfroms7 tool” on page 51

To complete the migration process, run the deployfroms7 tool against the
intermediate migration files.

Testing the migration

After the deployment archive is imported to IBM Cognos Business Intelligence,
check whether all the entries were deployed successfully in the target environment.

Before you begin

Before you test the migration, review the migration log file to see details and
results about the migration processes. The log file, named viewMigrationLog.html,
is located in the _LOG folder in the target location used for the deployfroms7
process. The log file contains information about both the migratefroms7 process
and the deployfroms7 process.

The information in the log file helps you assess the results of the migration and
determine the amount of work required to refine the content in IBM Cognos BI.
Sometimes only minor updates are required in IBM Cognos BI to correct errors and
warnings in the log file. In other cases, you may find that it is more efficient to
continue to use the content in IBM Cognos Series 7 and develop new applications
in IBM Cognos BI.

Procedure

1. Review the run history for a deployment in IBM Cognos Connection.
For information about run histories, see the IBM Cognos Administration and Security Guide.

2. Ensure that the import process created the correct packages, folders, and folder contents.
3. Check the permissions for the imported entries.
4. Run imported reports to ensure that the reports work as expected.
   You may see differences in functionality and appearance. Not all features in IBM Cognos Series 7 have a direct or equivalent functionality in IBM Cognos BI. For example, you must reconfigure some drill-thorough options. For more information, see Part 3: Mapping IBM Cognos Series 7 Objects to IBM Cognos BI Objects.

Results

When all your reports are able to run, provide users with access. You can also delete the source and target directories specified in the deployfroms7 command.

Tip: Back up the log files in the target directory first so that you have a record of the migration.

Providing users with access to migrated applications

You must enable the deployment package so that users can access it.

By default, the deployment package is disabled and none of the entries it contains are accessible in the target environment after deployment. The package is disabled so that you can test it in the target environment before you make it available to users.

You must have read and write permissions to enable a deployment package.

For instructions about enabling entries in IBM Cognos Connection, see the IBM Cognos Administration and Security Guide.
Chapter 6. Migration of PowerPlay reports published to IBM Cognos Connection

If you have IBM Cognos PowerPlay reports published to IBM Cognos Connection, you can migrate those reports to IBM Cognos Analysis Studio or IBM Cognos Report Studio directly from IBM Cognos Connection without using the IBM Cognos Migration Assistant command line tools.

PowerPlay reports published to IBM Cognos Connection are migrated using the IBM Cognos Business Intelligence migration service, which is a service in the IBM Cognos BI service-oriented architecture. Use the Open with Analysis Studio or Open with Report Studio action in IBM Cognos Connection to migrate IBM Cognos Series 7 PowerPlay reports that were published to IBM Cognos Connection. When you use this method to migrate PowerPlay reports, the migration process occurs in the background. You can migrate only one report at a time using this method.

Migration of published PowerPlay reports directly from IBM Cognos Connection is supported beginning with IBM Cognos 8 MR1, under the following conditions:

- You have PowerPlay reports published from IBM Cognos Series 7 version 3 to IBM Cognos 8 MR1.
- You published PowerPlay reports from IBM Cognos Series 7 version 3 earlier than MR3 to either IBM Cognos ReportNet or the initial release of IBM Cognos 8, and you subsequently migrated to IBM Cognos 8 MR1 using content store upgrade.

If you published PowerPlay reports from a version of IBM Cognos Series 7 version 3 earlier than MR3 directly to IBM Cognos 8 MR1, you cannot migrate those reports directly in IBM Cognos Connection. You must use the Migration Assistant tools to migrate your PowerPlay reports. If you use a version of IBM Cognos Series 7 version 3 earlier than MR3, and you want to migrate PowerPlay reports in IBM Cognos Connection, upgrade to IBM Cognos Series 7 version 3 MR3 or later before publishing the reports.

To enable migration using the Open with Report Studio or Open with Analysis Studio actions, some configuration is required. For more information, see the Migration Assistant Installation and Configuration Guide.

Related tasks

Chapter 5, “Migrating applications,” on page 37

You can migrate some components of an IBM Cognos Series 7 application to IBM Cognos Business Intelligence.

Migrating a published PowerPlay report to Analysis Studio or Report Studio

To migrate an IBM Cognos PowerPlay report published to IBM Cognos Connection, end users open the report in either IBM Cognos Analysis Studio or IBM Report Studio. They can then choose whether to save the migrated report.
**Procedure**

1. In IBM Cognos Connection, click the **More** option for a PowerPlay report.
2. Choose the target studio to use for the migration:
   - To migrate the report to Analysis Studio, click **Open with Analysis Studio**.
   - To migrate the report to Report Studio, click **Open with Report Studio**.
   
   A dialog box displays a warning that there may be differences between the source report and the migrated report.
3. If you want to see a list of what will be different in the migrated report, click **Details**.

   **Tip:** These messages are also written in the log file cogserver.log. If you clear the **Show this dialog in the future** check box and later on you want to see this dialog again, you must delete your browser cookies.
4. Click **OK** to continue with the migration process.

**Results**

After opening the PowerPlay report in either Analysis Studio or Report Studio, the migration is complete. End users can then choose whether or not to save the migrated report, as saving is not part of the migration process.

The migrated report does not overwrite the original PowerPlay report. To prevent duplicate reports, you may want to delete the original PowerPlay report from IBM Cognos Connection. If the PowerPlay report is modified, end users must repeat the migration steps to apply the changes to the version of the report in Analysis Studio or Report Studio.
Chapter 7. Architect mapping

The information in this section will help you understand the mapping of objects when migrating IBM Cognos Series 7 Architect models to IBM Cognos Business Intelligence. If a feature or functionality is not mentioned, an equivalent is available in IBM Cognos BI.

Related concepts

"Architect models" on page 22

You can export IBM Cognos Series 7 Architect models for use as a metadata source in IBM Cognos Framework Manager.

Architect model security

To migrate secured models and retain the access controls applied in IBM Cognos Series 7 Architect, you must configure IBM Cognos Business Intelligence to use the IBM Cognos Series 7 namespace. If IBM Cognos BI is not configured to use the IBM Cognos Series 7 namespace, the model or catalog migrates but does not include security.

For information about configuring an authentication source in IBM Cognos BI, see the IBM Cognos Administration and Security Guide.

Database access

In an Architect model, you can specify the databases and database components that your users can access. This information is included in the Architect metadata file (.xml) you import into the IBM Cognos Framework Manager project. After migration, the Framework Manager project contains a package for each user class that has model security applied to it.

Tip: To view the specific objects in a user class package, double-click the package you want. The unselected objects should match the components that the user class did not have access to in the Architect model.

Access to entities

In an Architect model, you can specify which entities user classes can access. This information is included in the Architect metadata file you import into the Framework Manager project. After migration, the Framework Manager project contains a package for each user class that has model security applied to it.

Tip: To view the specific objects in a user class package, double-click the package you want. The unselected objects should match the components that the user class did not have access to in the Architect model.

User class filters

You apply user class filters at run time to give user classes access to specific data. These security filters are included in the Architect metadata file you import into the Framework Manager project and can be found in the corresponding query subject.
Package access

In an Architect model, you can specify which packages and package components user classes have access to. The migration process creates a package for each package object in the Package Layer namespace and one role-based security package for each user class. The security package reflects the exclusion list of the user class access in Architect. After migration, Architect packages display in the Framework Manager project in the Package Layer namespace and the Packages folder.

You use a package in Framework Manager to publish a subset of the metadata in a project to report authors.

Tip: To view the specific objects in a package, double-click the package you want. The unselected objects should match the components that the user class did not have access to in the Architect model.

Security by value

You can create filter expressions using security metadata such as user classes, user roles, and user names.

The references in expressions to user-name() map to references to the session parameter #$account.defaultName#.

The references in expressions to user-classes() map to #CSVIdentityName(%ImportedUserClasses)#, where ImportedUserClasses is a hard-coded parameter map. During the import, the parameter map loads with the currently available roles, both as map keys and as map values.

Here are examples of filter expressions using IBM Cognos Series 7 security tokens and their mappings into IBM Cognos Framework Manager.

<table>
<thead>
<tr>
<th>Architect filter expression</th>
<th>Framework Manager expression</th>
</tr>
</thead>
<tbody>
<tr>
<td>user_name() = 'Bob'</td>
<td>#$account.defaultName# = 'Bob'</td>
</tr>
<tr>
<td>'Sales' in user_classes()</td>
<td>'Sales' in #CSVIdentityName(%ImportedUserClasses)#</td>
</tr>
</tbody>
</table>

In addition to these expressions, the migration process creates a parameter map named ImportedUserClasses. It contains the user classes and user names from the current namespace in IBM Cognos Series 7 Access Manager.

Expressions in Architect

Migration includes expressions in IBM Cognos Series 7 Architect, which use IBM Cognos SQL syntax.

The expressions are reproduced in IBM Cognos Framework Manager with the following mappings.

<table>
<thead>
<tr>
<th>Architect</th>
<th>Framework Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Column and attribute references</td>
<td>Query item references</td>
</tr>
<tr>
<td>Stored procedure references</td>
<td>Model function references</td>
</tr>
<tr>
<td>Architect</td>
<td>Framework Manager</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Prompt references</td>
<td>Model calculation references representing prompts</td>
</tr>
<tr>
<td>Filter references</td>
<td>Migrated expressions</td>
</tr>
<tr>
<td>Security by value tokens</td>
<td>Equivalent Framework Manager tokens</td>
</tr>
<tr>
<td>References to external user defined functions (UDF)</td>
<td>Replicated literally in the Framework Manager expressions. Expressions containing this type of reference may require editing after the migration is complete.</td>
</tr>
<tr>
<td>Calls to database built-in functions</td>
<td>Calls to IBM Cognos Business Intelligence database functions or constructs using these functions. For more information, see Chapter 11, “Impromptu functions mapping,” on page 117.</td>
</tr>
</tbody>
</table>

After you migrate, check the functions and expressions in Framework Manager before publishing the model.

**Expressions in Architect models spanning multiple database types**

The migration process does not convert Architect expressions that connect to multiple database types. This type of expression displays in Framework Manager in the original format. This mapping only applies to built-in or vendor specific function calls. Expressions that already exist in Framework Manager and do not require conversion will continue to work in IBM Cognos BI.

**User defined functions**

Migration does not include external UDFs. References to external UDFs are replicated literally in migrated expressions in Framework Manager.

Database UDFs are mapped to model functions in the Folders namespace of the Framework Manager project. As long as the function still exists in the database schema, the expressions referencing the database UDF are valid.

For more information about expressions, see the Framework Manager *User Guide*.

**Architect business layer metadata mapping**

After you import an IBM Cognos Series 7 Architect XML file to IBM Cognos Framework Manager, namespaces that correspond to layers in an Architect model display in the Project Viewer.

The namespaces are

- Data Access Layer
- Business Layer
- Package Layer

These namespaces contain the migrated metadata from each of the corresponding layers in Architect. The namespaces are organized hierarchically in the Project Viewer. For information about namespaces, see the Framework Manager *User Guide*. 
Migration includes object properties that are set in Architect unless the properties do not apply to Framework Manager objects. Some objects, such as steward and lineage, are migrated for informational purposes.

Objects created in Framework Manager do not contain these properties.

For information about object properties, see the Framework Manager User Guide.

**Entities folders**

Migration maps an IBM Cognos Series 7 Architect Entities folder to IBM Cognos Framework Manager as an Entities namespace.

The parent of an Architect Entities folder is the Business Layer folder or another Entity folder. The children of the Architect Entities folder are other Entity folders or entity objects. The entities are mapped to Framework Manager as model query subjects.

For information about model query subjects, see the Framework Manager User Guide.

To view the Entities namespace properties, in the Project Viewer, expand the Business Layer namespace, and click the Entities namespace. A list of the properties displays in the Properties pane.

<table>
<thead>
<tr>
<th>Architect property</th>
<th>Framework Manager property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entities folder name</td>
<td>Name</td>
</tr>
<tr>
<td>Entities folder description text</td>
<td>Description</td>
</tr>
<tr>
<td>Entities folder imported description text</td>
<td>Imported description text</td>
</tr>
<tr>
<td>Entities folder import source</td>
<td>No longer required</td>
</tr>
<tr>
<td>Entities folder external ID</td>
<td>No longer required</td>
</tr>
<tr>
<td>Entities folder lineage</td>
<td>Lineage</td>
</tr>
<tr>
<td>Entities folder imported lineage</td>
<td>Imported lineage</td>
</tr>
<tr>
<td>Entities folder import exclusion list</td>
<td>No longer required</td>
</tr>
<tr>
<td>Entities folder help text</td>
<td>Help text</td>
</tr>
<tr>
<td>Entities folder imported help text</td>
<td>No longer required</td>
</tr>
<tr>
<td>Entities folder steward</td>
<td>Steward</td>
</tr>
</tbody>
</table>

**Entities**

Migration maps IBM Cognos Series 7 Architect entities to IBM Cognos Framework Manager as model query subjects.

The parent of an Architect entity is an Entity folder. An Entity folder is migrated to Framework Manager as an Entities namespace.

The children of an Architect entity are attributes, keys, or proxies of attributes or keys. Both attributes and attribute proxies map to Framework Manager as query items.

Migration does not include keys and key proxies. For information about relationships, see the Framework Manager User Guide.
To view the properties for a specific entity, in the Project Viewer, expand the Business Layer namespace, expand Entities, and click the entity you want. A list of the properties displays in the Properties pane.

<table>
<thead>
<tr>
<th>Architect property</th>
<th>Framework Manager property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entity name</td>
<td>Name</td>
</tr>
<tr>
<td>Entity description text</td>
<td>Description</td>
</tr>
<tr>
<td>Entity imported description text</td>
<td>Imported description text</td>
</tr>
<tr>
<td>Entity import source</td>
<td>No longer required</td>
</tr>
<tr>
<td>Entity external ID</td>
<td>No longer required</td>
</tr>
<tr>
<td>Entity lineage</td>
<td>Lineage</td>
</tr>
<tr>
<td>Entity imported lineage</td>
<td>Imported lineage</td>
</tr>
<tr>
<td>Entity import exclusion list</td>
<td>No longer required</td>
</tr>
<tr>
<td>Entity help text</td>
<td>Help text</td>
</tr>
<tr>
<td>Entity imported help text</td>
<td>No longer required</td>
</tr>
<tr>
<td>Entity steward</td>
<td>Steward</td>
</tr>
<tr>
<td>Entity merge duplicates</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Entity supertype</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Entity filter</td>
<td>Embedded filter</td>
</tr>
</tbody>
</table>

Attributes

An IBM Cognos Series 7 Architect attribute is migrated to IBM Cognos Framework Manager as a query item. Attribute usage is mapped to a property of the query item.

The parent of an attribute is an entity. Entities are migrated to Framework Manager as model query subjects.

To view the properties for a specific attribute, in the Project Viewer, expand the Business Layer namespace, expand Entities, expand a specific entity, and click the attribute you want. A list of the properties displays in the Properties pane.

<table>
<thead>
<tr>
<th>Architect property</th>
<th>Framework Manager property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attribute name</td>
<td>Name</td>
</tr>
<tr>
<td>Attribute description text</td>
<td>Description</td>
</tr>
<tr>
<td>Attribute imported description text</td>
<td>Imported description text</td>
</tr>
<tr>
<td>Attribute import source</td>
<td>No longer required</td>
</tr>
<tr>
<td>Attribute external ID</td>
<td>No longer required</td>
</tr>
<tr>
<td>Attribute lineage</td>
<td>Lineage</td>
</tr>
<tr>
<td>Attribute imported lineage</td>
<td>Imported lineage</td>
</tr>
<tr>
<td>Attribute import exclusion list</td>
<td>No longer required</td>
</tr>
<tr>
<td>Attribute help text</td>
<td>Help text</td>
</tr>
<tr>
<td>Attribute imported help text</td>
<td>No longer required</td>
</tr>
<tr>
<td>Attribute steward</td>
<td>Steward</td>
</tr>
<tr>
<td>Architect property</td>
<td>Framework Manager property</td>
</tr>
<tr>
<td>------------------------------------</td>
<td>----------------------------------------</td>
</tr>
<tr>
<td>Attribute data type</td>
<td>Datatype</td>
</tr>
<tr>
<td>Attribute expression</td>
<td>Query item or a calculated attribute</td>
</tr>
<tr>
<td></td>
<td>For more information, see “Expressions in Architect” on page 62.</td>
</tr>
<tr>
<td>Attribute default style</td>
<td>No longer required</td>
</tr>
<tr>
<td></td>
<td>For information about formatting columns, see the Report Studio User Guide.</td>
</tr>
<tr>
<td>Attribute list of model prompts</td>
<td>No longer required</td>
</tr>
<tr>
<td>Attribute enumeration values</td>
<td>No longer required because enumeration values are not migrated for use with IBM Cognos Business Intelligence</td>
</tr>
<tr>
<td>Attribute usage</td>
<td>Usage</td>
</tr>
</tbody>
</table>

**Attribute proxies**

Migration maps IBM Cognos Series 7 Architect attribute proxies to IBM Cognos Framework Manager as query items.

The parent of an attribute proxy is an entity. During migration, entities are mapped to Framework Manager as model query subjects.

The properties of the proxy are derived from the attribute it references.

To view the attribute proxy properties, in the **Project Viewer**, expand the **Business Layer** namespace, and click an attribute you want. A list of the properties displays in the **Properties** pane.

<table>
<thead>
<tr>
<th>Architect property</th>
<th>Framework Manager property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attribute proxy name</td>
<td>Name</td>
</tr>
<tr>
<td>Attribute proxy description text</td>
<td>Description</td>
</tr>
<tr>
<td>Attribute proxy imported description text</td>
<td>Imported description text</td>
</tr>
<tr>
<td>Attribute proxy import source</td>
<td>No longer required</td>
</tr>
<tr>
<td>Attribute proxy external ID</td>
<td>No longer required</td>
</tr>
<tr>
<td>Attribute proxy lineage</td>
<td>Lineage</td>
</tr>
<tr>
<td>Attribute proxy imported lineage</td>
<td>Imported lineage</td>
</tr>
<tr>
<td>Attribute proxy import exclusion list</td>
<td>No longer required</td>
</tr>
<tr>
<td>Attribute proxy help text</td>
<td>Help text</td>
</tr>
<tr>
<td>Attribute proxy imported help text</td>
<td>No longer required</td>
</tr>
<tr>
<td>Attribute proxy steward</td>
<td>Steward</td>
</tr>
<tr>
<td>Attribute proxy data type</td>
<td>Datatype</td>
</tr>
<tr>
<td>Attribute proxy expression</td>
<td>Expression</td>
</tr>
<tr>
<td></td>
<td>For more information, see “Expressions in Architect” on page 62.</td>
</tr>
</tbody>
</table>
Architect property | Framework Manager property
--- | ---
Attribute proxy default style | Not applicable
For information about formatting columns, see the Report Studio User Guide.
Attribute proxy list of model prompts | No longer required
Attribute proxy enumeration values | No longer required because enumeration values are not migrated for use with IBM Cognos Business Intelligence.
Attribute proxy usage | Usage

Filters folders
Migration maps an IBM Cognos Series 7 Architect Filters folder to a Filters namespace in IBM Cognos Framework Manager.

The parent of an Architect Filters folder is the Business Layer folder or another Filter folder. The children of the Architect Filters folder are other Filter folders or filter objects.

To view the Filters namespace properties, in the Project Viewer, expand the Business Layer namespace, and click the Filters namespace. A list of the properties displays in the Properties pane.

<table>
<thead>
<tr>
<th>Architect property</th>
<th>Framework Manager property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filters folder name</td>
<td>Name</td>
</tr>
<tr>
<td>Filters folder description text</td>
<td>Description</td>
</tr>
<tr>
<td>Filters folder imported description text</td>
<td>Imported description text</td>
</tr>
<tr>
<td>Filters folder import source</td>
<td>No longer required</td>
</tr>
<tr>
<td>Filters folder external ID</td>
<td>No longer required</td>
</tr>
<tr>
<td>Filters folder lineage</td>
<td>Lineage</td>
</tr>
<tr>
<td>Filters folder imported lineage</td>
<td>Imported lineage</td>
</tr>
<tr>
<td>Filters folder import exclusion list</td>
<td>No longer required</td>
</tr>
<tr>
<td>Filters folder help text</td>
<td>Help text</td>
</tr>
<tr>
<td>Filters folder imported help text</td>
<td>No longer required</td>
</tr>
<tr>
<td>Filters folder steward</td>
<td>Steward</td>
</tr>
</tbody>
</table>

Filters
Migration maps an IBM Cognos Series 7 Architect filter to IBM Cognos Framework Manager as a Framework Manager filter.

The parent of an Architect filter is a Filter folder. Filter folders map to Framework Manager as a Filters namespace.

To view the properties for a specific filter, in the Project Viewer, expand the Business Layer namespace, expand Filters, and click the filter you want. A list of the properties displays in the Properties pane.
### Architect property | Framework Manager property
---|---
Filter name | Name
Filter description text | Description
Filter imported description text | Imported description text
Filter import source | No longer required
Filter external ID | No longer required
Filter lineage | Lineage
Filter imported lineage | Imported lineage
Filter import exclusion list | No longer required
Filter help text | Help text
Filter imported help text | No longer required
Filter steward | Steward
Filter expression | Expression
  For more information, see “Expressions in Architect” on page 62.
Filter expression list of references | No longer required

### Relationships
Migration maps IBM Cognos Series 7 Architect relationships to IBM Cognos Framework Manager as relationships between model query subjects.

The parent of an Architect relationship is the model root.

| Architect property | Framework Manager property |
---|---|
Relationship name | Name
Relationship description text | Description
Relationship imported description text | Imported description text
Relationship import source | No longer required
Relationship external ID | No longer required
Relationship lineage | Lineage
Relationship imported lineage | Imported lineage
Relationship import exclusion list | No longer required
Relationship help text | Help text
Relationship imported help text | No longer required
Relationship steward | Steward
Relationship reference to left entity | Left refobject
Relationship reference to right entity | Right refobject
Relationship left cardinality | Left mincard, maxcard
Relationship right cardinality | Right mincard, maxcard
Relationship left type | No longer required
Relationship right type | No longer required
Relationship left role | Left description property
Relationship right role | Right description property
Subtype relationships

Migration maps a subtype relationship to IBM Cognos Framework Manager as a model query with a `generateSQL` property set to `asView`.

IBM Cognos Series 7 Architect entities can have subtypes with or without their own attributes. You can migrate both types.

Subtypes without attributes

When you migrate an Architect entity with a subtype that has no attributes of its own, the migrated entity displays in Framework Manager, as well as a shortcut to the entity. This shortcut to the entity represents the subtype.

Migration includes existing relationships between the entity and other entities. For each of these relationships, a new relationship is created between the shortcut representing the subtype and one of the other entities.

Subtypes attributes

When you migrate an Architect entity with a subtype that has attributes of its own, the migrated entity displays in Framework Manager as a query item that represents the mapping of the attribute that the proxy points to. A new model query subject representing the subtype also displays in Framework Manager.

Migration includes any existing relationships between the entity and other entities. For each of these relationships, a new relationship is created between the new model query subject representing the subtype and one of the other entities.

Joins between supertypes and other entities

Joins between an Architect supertype and any other entity maps to Framework Manager as a relationship between the model query representing the subtype and the model query representing the other entity.

A filter applied to a supertype is not inherited by its subtypes.
Prompts

Migration maps IBM Cognos Series 7 Architect prompts from the Business Layer in Architect to standalone calculations in IBM Cognos Framework Manager.

File prompts and all of their properties are migrated. However, the list of values specified for a file prompt in Architect is ignored.

To view the properties for a specific prompt, in the Project Viewer, expand the Business Layer namespace, expand Architect Prompts, and click the prompt you want. A list of the properties displays in the Properties pane.

Architect prompts map to a standalone calculation with the same name as the Architect prompt object. The descriptive information is available and the expression becomes a macro prompt with the following syntax, where ModelReference is set to Nil:

```
#prompt('promptName' [, 'datatype' [, 'defaultValue' [, 'Text' [, 'ModelReference' ] ] ] ] ) ,
```

All the non-mappable properties migrate to custom properties. Migration converts prompt references in the Architect expression to a reference to the standalone calculation in the Framework Manager expression.

**Architect data access layer metadata mapping**

After you import an IBM Cognos Series 7 Architect XML file to IBM Cognos Framework Manager, namespaces that correspond to layers in an Architect model display in the Project Viewer.

The namespaces are
- Data Access Layer
- Business Layer
- Package Layer

These namespaces contain the migrated metadata from each of the corresponding layers in Architect. The namespaces are organized hierarchically in the Project Viewer. For information about namespaces, see the Framework Manager User Guide.

Migration maps Architect object properties to Framework Manager, unless they do not apply to Framework Manager objects. Some objects, such as steward and lineage, migrate for informational purposes.

For information about object properties, see the Framework Manager User Guide.

<table>
<thead>
<tr>
<th>Architect property</th>
<th>Framework Manager property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subtype relationship help text</td>
<td>Help text</td>
</tr>
<tr>
<td>Subtype relationship imported help text</td>
<td>No longer required</td>
</tr>
<tr>
<td>Subtype relationship steward</td>
<td>Steward</td>
</tr>
<tr>
<td>Subtype relationship mapping</td>
<td>No longer required</td>
</tr>
</tbody>
</table>
Database folders

Migration maps IBM Cognos Series 7 Architect database folders to IBM Cognos Framework Manager as Databases namespaces.

The parent of an Architect database folder is the Data Access Layer folder. The children of an Architect database folder map to Framework Manager as database objects.

To view the Database namespace properties, in the Project Viewer, expand the Data Access Layer namespace, and click the Databases namespace. A list of the properties displays in the Properties pane.

<table>
<thead>
<tr>
<th>Architect property</th>
<th>Framework Manager property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Databases folder name</td>
<td>Name</td>
</tr>
<tr>
<td>Databases folder description text</td>
<td>Description</td>
</tr>
<tr>
<td>Databases folder imported description text</td>
<td>Imported description text</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>Databases folder import source</td>
<td>No longer required</td>
</tr>
<tr>
<td>Databases folder external ID</td>
<td>No longer required</td>
</tr>
<tr>
<td>Databases folder lineage</td>
<td>Lineage</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>Databases folder imported lineage</td>
<td>Imported lineage</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>Databases folder import exclusion list</td>
<td>No longer required</td>
</tr>
<tr>
<td>Databases folder help text</td>
<td>Help text</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>Databases imported help text</td>
<td>No longer required</td>
</tr>
<tr>
<td>Databases folder steward</td>
<td>Steward</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
</tbody>
</table>

Databases

Migration maps IBM Cognos Series 7 Architect databases to IBM Cognos Framework Manager as Framework Manager databases.

When you expand the Databases namespace, in the Data Access Layer namespace, a list of the migrated databases displays.

The parent of an Architect database is the Databases folder. During migration, the Databases folder maps to Framework Manager as a Databases namespace.

The children of an Architect database are catalog objects. During migration, the catalogs map to Framework Manager as catalog namespaces.

To view the properties for a specific database, in the Project Viewer, expand the Data Access Layer namespace, expand Databases, and click the database you want. A list of the properties displays in the Properties pane.
### Catalogs

Migration maps IBM Cognos Series 7 Architect catalogs to IBM Cognos Framework Manager as catalog namespaces.

If a catalog is defined in the database, a corresponding namespace for that catalog in the specific database namespace displays. For example, if you expand the gosales_oracle namespace, the catalog displays. The catalog has its own set of properties that you can view in the **Properties** pane.

If the catalog name was added in Architect, the namespace has the same name. Otherwise, it displays as _Default Catalog_.

The parent of an Architect catalog is a database. The database maps to Framework Manager as a namespace.

The children of an Architect catalog are schemas. A schema maps to Framework Manager as a schema namespace.

To view the Catalog properties, in the **Project Viewer**, expand the **Data Access Layer** namespace, expand **Databases**, expand the specific database namespace you want, and click the catalog namespace. A list of the properties displays in the **Properties** pane.

<table>
<thead>
<tr>
<th>Architect property</th>
<th>Framework Manager property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalog name</td>
<td>Name</td>
</tr>
<tr>
<td>Catalog description text</td>
<td>Description</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Database name</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Database description text</td>
<td>Description</td>
</tr>
<tr>
<td>Database imported description text</td>
<td>Imported description text</td>
</tr>
<tr>
<td>Database import source</td>
<td>No longer required</td>
</tr>
<tr>
<td>Database external ID</td>
<td>No longer required</td>
</tr>
<tr>
<td>Database lineage</td>
<td>Lineage</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>Database imported lineage</td>
<td>Imported lineage</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>Database import exclusion list</td>
<td>No longer required</td>
</tr>
<tr>
<td>Database help text</td>
<td>Help text</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>Database imported help text</td>
<td>No longer required</td>
</tr>
<tr>
<td>Database steward</td>
<td>Steward</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
</tbody>
</table>
Schemas

Migration maps IBM Cognos Series 7 Architect schemas to IBM Cognos Framework Manager as schema namespaces.

If a schema is defined in the database, a corresponding namespace for that schema in the specific database namespace displays. For example, if you expand the Catalog namespace in the gosales_oracle namespace, the schema displays. The schema has its own set of properties that you can view in the Properties pane.

If you added the schema name in Architect, the Framework Manager schema namespace has the same name. Otherwise, it displays as _Default Schema.

The parent of an Architect schema is a catalog. The catalog maps to Framework Manager as a namespace.

The children of an Architect schema are tables, views, stored procedures, or synonym objects. A table maps to a database query, a view maps to a database query, a stored procedure maps to a model function, and a synonym object maps to a shortcut.

To view the schema properties, in the Project Viewer, expand the Data Access Layer namespace, expand Databases, expand the specific database namespace you want, expand Catalog, and click the Schema namespace. A list of the properties displays in the Properties pane.

To view the data source properties, in the Project Viewer, expand the Data Sources folder, and click the data source you want. A list of the data source properties displays in the Properties pane.

<table>
<thead>
<tr>
<th>Architect property</th>
<th>Framework Manager property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalog imported description text</td>
<td>Imported description text</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>Catalog import source</td>
<td>No longer required</td>
</tr>
<tr>
<td>Catalog external ID</td>
<td>No longer required</td>
</tr>
<tr>
<td>Catalog lineage</td>
<td>Lineage</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>Catalog imported lineage</td>
<td>Imported lineage</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>Catalog import exclusion list</td>
<td>No longer required</td>
</tr>
<tr>
<td>Catalog help text</td>
<td>Help text</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>Catalog imported help text</td>
<td>No longer required</td>
</tr>
<tr>
<td>Catalog steward</td>
<td>Steward</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
</tbody>
</table>
Architect property | Framework Manager property
--- | ---
Schema description text | Description
Schema imported description text | Imported description text
This is a custom property.
Schema import source | No longer required
Schema external ID | No longer required
Schema lineage | Lineage
This is a custom property.
Schema imported lineage | Imported lineage
This is a custom property.
Schema import exclusion list | No longer required
Schema help text | Help text
This is a custom property.
Schema imported help text | No longer required
Schema steward | Steward
This is a custom property.

Tables

Migration maps IBM Cognos Series 7 Architect tables to IBM Cognos Framework Manager as database query subjects.

The parent of an Architect table is a schema object. The mapping of an Architect schema into Framework Manager is a schema namespace.

The children of an Architect table are column, index, or key objects. A column maps to a query item, an index maps to a Framework Manager index, and a key maps to a Framework Manager key.

For information about query subjects, see the Framework Manager User Guide.

To view the query subject properties, in the Project Viewer, in the Data Access Layer namespace, click the query subject you want. A list of the query subject properties displays in the Properties pane.

<table>
<thead>
<tr>
<th>Architect property</th>
<th>Framework Manager property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table name</td>
<td>Name</td>
</tr>
<tr>
<td>Table description text</td>
<td>Description</td>
</tr>
<tr>
<td>Table imported description text</td>
<td>Imported description text</td>
</tr>
<tr>
<td>This is a custom property.</td>
<td></td>
</tr>
<tr>
<td>Table import source</td>
<td>No longer required</td>
</tr>
<tr>
<td>Table external ID</td>
<td>No longer required</td>
</tr>
<tr>
<td>Table lineage</td>
<td>Lineage</td>
</tr>
<tr>
<td>This is a custom property.</td>
<td></td>
</tr>
</tbody>
</table>
Views

Migration maps IBM Cognos Series 7 Architect views to IBM Cognos Framework Manager as database query subjects.

The parent of an Architect view is a schema object. An Architect schema maps to Framework Manager as a schema namespace.

The children of an Architect view are column, index, or key objects. A column maps to a query item, an index maps to a Framework Manager index, and a key maps to a Framework Manager key.

For information about query subjects, see the Framework Manager User Guide.

To view the query subject properties, in the Project Viewer, in the Data Access Layer namespace, click the query subject you want. A list of the query subject properties displays in the Properties pane.

<table>
<thead>
<tr>
<th>Architect property</th>
<th>Framework Manager property</th>
</tr>
</thead>
<tbody>
<tr>
<td>View name</td>
<td>Name</td>
</tr>
<tr>
<td>View description Text</td>
<td>Description</td>
</tr>
<tr>
<td>View imported description Text</td>
<td>Imported description text</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>View import source</td>
<td>No longer required</td>
</tr>
<tr>
<td>View external ID</td>
<td>No longer required</td>
</tr>
<tr>
<td>View lineage</td>
<td>Lineage</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>View imported lineage</td>
<td>Imported lineage</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>View import exclusion List</td>
<td>No longer required</td>
</tr>
<tr>
<td>View help text</td>
<td>Help text</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
</tbody>
</table>
SynonymViews

Migration maps IBM Cognos Series 7 Architect SynonymViews to IBM Cognos Framework Manager as database query subject shortcuts.

The parent of an Architect SynonymView is a schema object. An Architect schema maps to Framework Manager as a schema namespace.

For information about query subjects and shortcuts, see the Framework Manager User Guide.

To view the query subject properties, in the Project Viewer, in the Data Access Layer namespace, click the query subject you want. A list of the query subject properties displays in the Properties pane.

<table>
<thead>
<tr>
<th>Architect property</th>
<th>Framework Manager property</th>
</tr>
</thead>
<tbody>
<tr>
<td>SynonymView name</td>
<td>Name</td>
</tr>
<tr>
<td>SynonymView description text</td>
<td>Description</td>
</tr>
<tr>
<td>SynonymView imported description text</td>
<td>Imported description text</td>
</tr>
<tr>
<td>SynonymView import source</td>
<td>No longer required</td>
</tr>
<tr>
<td>SynonymView external ID</td>
<td>No longer required</td>
</tr>
<tr>
<td>SynonymView lineage</td>
<td>Lineage</td>
</tr>
<tr>
<td>SynonymView imported lineage</td>
<td>Imported lineage</td>
</tr>
<tr>
<td>SynonymView import exclusion list</td>
<td>No longer required</td>
</tr>
<tr>
<td>SynonymView help text</td>
<td>Help text</td>
</tr>
<tr>
<td>SynonymView imported help text</td>
<td>No longer required</td>
</tr>
<tr>
<td>SynonymView steward</td>
<td>Steward</td>
</tr>
<tr>
<td>SynonymView estimated record count</td>
<td>No longer required</td>
</tr>
<tr>
<td>SynonymView last update date time</td>
<td>No longer required</td>
</tr>
<tr>
<td>SynonymView weight (Impromptu)</td>
<td>No longer required</td>
</tr>
</tbody>
</table>
**SynonymTables**

Migration maps IBM Cognos Series 7 Architect SynonymTables to IBM Cognos Framework Manager as database query subject shortcuts.

The parent of an Architect Table is a schema object. An Architect schema maps to Framework Manager as a schema namespace.

For information about query subjects and shortcuts, see the Framework Manager *User Guide*.

To view the query subject properties, in the **Project Viewer**, in the **Data Access Layer** namespace, click the query subject you want. A list of the query subject properties displays in the **Properties** pane.

<table>
<thead>
<tr>
<th>Architect property</th>
<th>Framework Manager property</th>
</tr>
</thead>
<tbody>
<tr>
<td>SynonymTable name</td>
<td>Name</td>
</tr>
<tr>
<td>SynonymTable description text</td>
<td>Description</td>
</tr>
<tr>
<td>SynonymTable imported description text</td>
<td>Imported description text</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>SynonymTable import source</td>
<td>No longer required</td>
</tr>
<tr>
<td>SynonymTable external ID</td>
<td>No longer required</td>
</tr>
<tr>
<td>SynonymTable lineage</td>
<td>Lineage</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>SynonymTable imported lineage</td>
<td>Imported lineage</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>SynonymTable import exclusion list</td>
<td>No longer required</td>
</tr>
<tr>
<td>SynonymTable help text</td>
<td>Help text</td>
</tr>
<tr>
<td>SynonymTable imported help text</td>
<td>No longer required</td>
</tr>
<tr>
<td>SynonymTable steward</td>
<td>Steward</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>SynonymTable estimated record count</td>
<td>No longer required</td>
</tr>
<tr>
<td>SynonymTable last update date time</td>
<td>No longer required</td>
</tr>
<tr>
<td>SynonymTable weight (Impromptu)</td>
<td>No longer required</td>
</tr>
</tbody>
</table>

**Columns**

Migration maps IBM Cognos Series 7 Architect columns to IBM Cognos Framework Manager as query items.

The parent of an Architect column is a table, view, SQL query, or an IBM Cognos Series 7 Impromptu HotFile. Tables, views, and SQL queries map to Framework Manager as database query subjects. Migration does not include Impromptu HotFiles.

To view the query subject properties, in the **Project Viewer**, in the **Data Access Layer** namespace, click the query subject you want. A list of the query subject properties displays in the **Properties** pane.
Architect property | Framework Manager property
--- | ---
Column name | Name
Column description text | Description
Column imported description text | Imported description text
This is a custom property.
Column import source | No longer required
Column external ID | No longer required
Column lineage | Lineage
This is a custom property.
Column imported lineage | Imported lineage
This is a custom property.
Column help text | Help text
This is a custom property.
Column imported help text | No longer required
Column steward | Steward
This is a custom property.
Column null allowed | Nullable
Column data type | Datatype
Column size | Size
Column scale | Scale
Column leading precision | No longer required
Column trailing precision | No longer required
Column MIME type | MIMEType
Column language | No longer required
Column character set | Original encoding name
Column collating sequence | Original collation sequence name
Column expression editor tip | Screen tip

Keys

Migration maps IBM Cognos Series 7 Architect keys to IBM Cognos Framework Manager as determinant keys.

The parent of an Architect determinant key is a table. A table maps to a database query subject.

Architect determinants are used to infer usage and create relationships, and their properties are visible in Framework Manager from the Determinants tab.

Information on the determinant keys that are used to create joins can be found by editing the definition of the query subject and viewing Determinants tab.

For information about relationships, see the Framework Manager User Guide.
### SQL query folders

Migration maps IBM Cognos Series 7 Architect SQL query folders to IBM Cognos Framework Manager as SQL queries namespaces.

The parent of an Architect SQL query folder is the Data Access Layer folder. The children of an Architect SQL Query folder map to Framework Manager as database query subjects.

For information about database query subjects, see the Framework Manager *User Guide*.

To view the SQL queries namespace properties, in the *Project Viewer*, expand the **Data Access Layer** namespace and click the **SQL Queries** namespace. A list of the properties displays in the **Properties** pane.
### SQL queries

Migration maps IBM Cognos Series 7 Architect SQL queries to IBM Cognos Framework Manager as database query subjects.

The parent of an Architect SQL query is the SQL query folder. The SQL query folder maps to Framework Manager as an SQL query namespace.

The child of an SQL query is a column. A column maps to Framework Manager as a query item.

For information about database query subjects, see the Framework Manager *User Guide*.

<table>
<thead>
<tr>
<th>Architect property</th>
<th>Framework Manager property</th>
</tr>
</thead>
<tbody>
<tr>
<td>SQL query name</td>
<td>Name</td>
</tr>
<tr>
<td>SQL query description text</td>
<td>Description</td>
</tr>
<tr>
<td>SQL query imported description text</td>
<td>Imported description text</td>
</tr>
<tr>
<td>SQL query import source</td>
<td>No longer required</td>
</tr>
<tr>
<td>SQL query external ID</td>
<td>No longer required</td>
</tr>
<tr>
<td>SQL query lineage</td>
<td>Lineage</td>
</tr>
<tr>
<td>SQL query imported lineage</td>
<td>Imported lineage</td>
</tr>
<tr>
<td>SQL query import exclusion list</td>
<td>No longer required</td>
</tr>
<tr>
<td>SQL query help text</td>
<td>Help text</td>
</tr>
<tr>
<td>SQL query imported help text</td>
<td>No longer required</td>
</tr>
<tr>
<td>SQL query steward</td>
<td>Steward</td>
</tr>
<tr>
<td>SQL</td>
<td>Query subject SQL property</td>
</tr>
<tr>
<td>SQL query estimated record count</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
Stored procedures

Migration maps IBM Cognos Series 7 Architect stored procedures to IBM Cognos Framework Manager as model functions. Stored procedures are visible only in the Object Explorer view in Framework Manager.

The parent of an Architect stored procedure is a schema object. An Architect schema maps to Framework Manager as a schema namespace.

For information about stored procedure query subjects, see the Framework Manager User Guide.

To view the stored procedure properties, in the **Object Explorer View**, under the database schema folder in the Data Access namespace, click the stored procedure. A list of the stored procedure properties displays in the **Properties** pane.

<table>
<thead>
<tr>
<th>Architect property</th>
<th>Framework Manager property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stored procedure name</td>
<td>Name</td>
</tr>
<tr>
<td>Stored procedure description text</td>
<td>Description</td>
</tr>
<tr>
<td>Stored procedure imported description text</td>
<td>Imported description text</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>Stored procedure import source</td>
<td>No longer required</td>
</tr>
<tr>
<td>Stored procedure external ID</td>
<td>No longer required</td>
</tr>
<tr>
<td>Stored procedure lineage</td>
<td>Lineage</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>Stored procedure imported lineage</td>
<td>Imported lineage</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>Stored procedure import exclusion list</td>
<td>No longer required</td>
</tr>
<tr>
<td>Stored procedure help text</td>
<td>Help text</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>Stored procedure imported help text</td>
<td>No longer required</td>
</tr>
<tr>
<td>Stored procedure steward</td>
<td>Steward</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>Stored procedure SQL label</td>
<td>canonicalName</td>
</tr>
<tr>
<td>Stored procedure expression editor tip</td>
<td>syntaxTip</td>
</tr>
<tr>
<td>Stored procedure parameters tab</td>
<td>+ procParameters</td>
</tr>
<tr>
<td>Stored procedure results tab</td>
<td>+ result</td>
</tr>
</tbody>
</table>

Stored procedure parameters

Migration maps IBM Cognos Series 7 Architect stored procedure parameters to IBM Cognos Framework Manager as stored procedure parameters. Stored procedure parameters are visible only in the Object Explorer view in Framework Manager.

For information about stored procedure query subjects, see the Framework Manager User Guide.
To view the stored procedure parameter properties, in the **Object Explorer View**, click the stored procedure. Expand the **+procParameters** tab in the **Properties** pane to view the parameters.

<table>
<thead>
<tr>
<th>Architect property</th>
<th>Framework Manager property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stored procedure parameter name</td>
<td>Name</td>
</tr>
<tr>
<td>Stored procedure parameter description text</td>
<td>Description</td>
</tr>
<tr>
<td>Stored procedure parameter data type</td>
<td>Datatype</td>
</tr>
<tr>
<td>Stored procedure parameter size</td>
<td>Size</td>
</tr>
<tr>
<td>Stored procedure parameter null allowed</td>
<td>Nullable</td>
</tr>
</tbody>
</table>

**Stored procedure return parameters**

Migration maps IBM Cognos Series 7 Architect stored procedure return parameters to IBM Cognos Framework Manager as model function results. Stored procedures are visible only in the Object Explorer view in Framework Manager.

For information about stored procedure query subjects, see the Framework Manager **User Guide**.

To view the stored procedure parameter properties, in the **Object Explorer View**, click the stored procedure. Expand the **+result** tab in the **Properties** pane to view the properties.

<table>
<thead>
<tr>
<th>Architect property</th>
<th>Framework Manager property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stored procedure return parameter name</td>
<td>Name</td>
</tr>
<tr>
<td>Stored procedure return parameter description text</td>
<td>Description</td>
</tr>
<tr>
<td>Stored procedure return parameter imported description text</td>
<td>Imported description text</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>Stored procedure return parameter import source</td>
<td>No longer required</td>
</tr>
<tr>
<td>Stored procedure return parameter external ID</td>
<td>No longer required</td>
</tr>
<tr>
<td>Stored procedure return parameter lineage</td>
<td>Lineage</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>Stored procedure return parameter imported lineage</td>
<td>Imported lineage</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>Stored procedure return parameter import exclusion list</td>
<td>No longer required</td>
</tr>
<tr>
<td>Stored procedure return parameter help text</td>
<td>Help text</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>Stored procedure return parameter imported help text</td>
<td>No longer required</td>
</tr>
<tr>
<td>Stored procedure return parameter steward</td>
<td>Steward</td>
</tr>
<tr>
<td></td>
<td>This is a custom property.</td>
</tr>
<tr>
<td>Stored procedure return parameter data type</td>
<td>DataType</td>
</tr>
<tr>
<td>Architect property</td>
<td>Framework Manager property</td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>----------------------------</td>
</tr>
<tr>
<td>Stored procedure return parameter size</td>
<td>Size</td>
</tr>
<tr>
<td>Stored procedure return parameter scale</td>
<td>Scale</td>
</tr>
<tr>
<td>Stored procedure return parameter null allowed</td>
<td>Nullable</td>
</tr>
<tr>
<td>Stored procedure return parameter leading precision</td>
<td>No longer required</td>
</tr>
<tr>
<td>Stored procedure return parameter trailing precision</td>
<td>No longer required</td>
</tr>
<tr>
<td>Stored procedure return parameter language</td>
<td>No longer required</td>
</tr>
<tr>
<td>Stored procedure return parameter character set</td>
<td>No longer required</td>
</tr>
</tbody>
</table>

**Indexes**

The migration process uses IBM Cognos Series 7 Architect indexes to infer usage and create relationships.

The parent of an Architect index is a table. Tables map to IBM Cognos Framework Manager as a database query subject.

<table>
<thead>
<tr>
<th>Architect property</th>
<th>Framework Manager property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Index name</td>
<td>Name</td>
</tr>
<tr>
<td>Index description text</td>
<td>Description</td>
</tr>
<tr>
<td>Index imported description text</td>
<td>Imported description text</td>
</tr>
<tr>
<td>Index lineage</td>
<td>Lineage</td>
</tr>
<tr>
<td>Index imported lineage</td>
<td>Imported lineage</td>
</tr>
<tr>
<td>Index import exclusion list</td>
<td>No longer required</td>
</tr>
<tr>
<td>Index help text</td>
<td>Help text</td>
</tr>
<tr>
<td>Index imported help text</td>
<td>No longer required</td>
</tr>
<tr>
<td>Index steward</td>
<td>Steward</td>
</tr>
<tr>
<td>Index null allowed</td>
<td>No longer required</td>
</tr>
</tbody>
</table>

**Physical joins**

Migration maps IBM Cognos Series 7 Architect physical joins to IBM Cognos Framework Manager as relationships between database query subjects.

The parent of an Architect physical join is the model root.
Architect package layer metadata mapping

After you import an IBM Cognos Series 7 Architect XML file to IBM Cognos Framework Manager, namespaces that correspond to layers in an Architect model display in the Project Viewer.

The namespaces are
- Data Access Layer
- Business Layer
- Package Layer

These namespaces contain the migrated metadata from each of the corresponding layers in Architect. The namespaces are organized hierarchically in the Project Viewer. For information about namespaces, see the Framework Manager User Guide.

Migration maps Architect packages to the Packages Layer namespace and the Packages folder in Framework Manager. The packages in the Package Layer
namespace are shortcuts to the objects in the Business Layer namespace. If you delete the Package Layer namespace, you invalidate the packages in the Packages folder.

In Framework Manager, create a new package using the objects from the Business Layer or Data Access Layer namespaces. For information about packages, see the Framework Manager User Guide.

Migration maps object properties that are set in Architect, unless the properties do not apply to Framework Manager objects. The migration process uses some objects, such as steward and lineage, for informational purposes.

For information about object properties, see the Framework Manager User Guide.

**Package folders**

Migration maps a user-defined IBM Cognos Series 7 Architect package folder to IBM Cognos Framework Manager as a Package Layer namespace.

The parent of an Architect package folder is the root package folder. The root package folder is not migrated to Framework Manager. Children of a user defined Architect package folder are other package folders or packages. Architect packages map to Framework Manager as two objects, a package namespace and a package.

To view the Package Layer namespace properties, in the Project Viewer, click the Package Layer namespace. A list of the properties displays in the Properties pane.

<table>
<thead>
<tr>
<th>Architect property</th>
<th>Framework Manager property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Package folder name</td>
<td>Name</td>
</tr>
<tr>
<td>Package folder description text</td>
<td>Description</td>
</tr>
<tr>
<td>Package folder imported description text</td>
<td>Imported description text</td>
</tr>
<tr>
<td>Package folder import source</td>
<td>No longer required</td>
</tr>
<tr>
<td>Package folder external ID</td>
<td>No longer required</td>
</tr>
<tr>
<td>Package folder lineage</td>
<td>Lineage</td>
</tr>
<tr>
<td>Package folder imported lineage</td>
<td>Imported lineage</td>
</tr>
<tr>
<td>Package folder import exclusion list</td>
<td>No longer required</td>
</tr>
<tr>
<td>Package folder help text</td>
<td>Help text</td>
</tr>
<tr>
<td>Package folder imported help text</td>
<td>No longer required</td>
</tr>
<tr>
<td>Package folder steward</td>
<td>Steward</td>
</tr>
</tbody>
</table>

**Packages**

Migration maps IBM Cognos Series 7 Architect packages to IBM Cognos Framework Manager as two objects, a package namespace and a package object.

A package is also created for each Architect user class. For more information, see "Architect model security" on page 61.

The parent of an Architect package is the package folder. The package folder maps to Framework Manager as a Package Layer namespace.

The children of an Architect package are subject folders, subject entities, subject attributes, subject filters, or subject prompts.
When you expand the Package Layer namespace, a list of the migrated packages displays. Each package has its own set of properties that can be viewed in the Properties pane.

To view the properties for a specific package, in the Project Viewer, expand the Package Layer namespace, and click the package you want. A list of the properties displays in the Properties pane.

<table>
<thead>
<tr>
<th>Architect property</th>
<th>Framework Manager property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject folder</td>
<td>Namespace</td>
</tr>
<tr>
<td>Subject entity</td>
<td>Shortcut or model query subject</td>
</tr>
<tr>
<td>Subject attribute</td>
<td>Query item</td>
</tr>
<tr>
<td>Subject filter</td>
<td>Embedded filter or filter shortcut</td>
</tr>
<tr>
<td>Subject prompt</td>
<td>Query item or a shortcut to a calculation</td>
</tr>
</tbody>
</table>

### Subject folders

Migration maps IBM Cognos Series 7 Architect subject folders to IBM Cognos Framework Manager as model query subjects or namespaces.

If the children of the Architect subject folder are all subject attributes, subject filters, or subject prompts, the subject folder maps to Framework Manager as a model query subject. Otherwise, the subject folder maps to Framework Manager as a namespace.

If the Architect subject folder maps to Framework Manager as a namespace, the following mappings occur:

- All children subject attributes map as embedded calculations
- All children subject filters map as filter shortcuts pointing to corresponding model filters in the Business Layer namespace
- All subject prompts map as model calculation shortcuts
### Subject filters

Migration maps IBM Cognos Series 7 Architect subject filters to IBM Cognos Framework Manager as embedded filters or filter shortcuts.

If the parent of the subject filter maps to Framework Manager as a query subject, the subject filter maps as an embedded filter that references the corresponding model filter in the Business Layer namespace.

If the parent of the subject filter maps to Framework Manager as a namespace, the subject filter maps as a filter shortcut that points to the corresponding model filter in the Business Layer namespace.

### Subject prompts

Migration maps IBM Cognos Series 7 Architect subject prompts to IBM Cognos Framework Manager as query items or shortcuts to model calculations.

If the parent of the subject prompt maps to Framework Manager as a query subject, the subject prompt maps as a query item referencing the corresponding model calculation in the Business Layer namespace.

If the parent of the subject prompt maps to Framework Manager as a namespace, the subject prompt maps as a model calculation pointing to the corresponding model calculation in the Business Layer namespace.

### Subject entities

Migration maps IBM Cognos Series 7 Architect subject entities to IBM Cognos Framework Manager as a shortcut or model query subject. The subject entity is a copy of an entity in the Business Layer.

The subject entity maps as a query subject shortcut if all children of the subject entity reference the attributes of the entity specified in the Based On property. Otherwise, the subject entity maps as a model query subject.

The parent of a subject entity is a package folder, package, or subject folder. A package folder maps as a Package Layer namespace. A package maps as both a Framework Manager namespace and a Framework Manager package. A subject folder maps as either a model query subject or a namespace.

The children of an Architect subject entity are subject attributes, subject filters, or subject prompts.

<table>
<thead>
<tr>
<th>Architect property</th>
<th>Framework Manager property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject attribute</td>
<td>Query item or model calculation, depending on its parent</td>
</tr>
<tr>
<td>Subject filter</td>
<td>Embedded filter or filter shortcut</td>
</tr>
<tr>
<td>Subject prompt</td>
<td>Query item or a shortcut to a calculation</td>
</tr>
</tbody>
</table>

To view the properties for a specific subject, in the Project Viewer, expand the Package Layer namespace, expand a package, and click the subject you want. A list of the properties displays in the Properties pane.
The following are the mapped properties if the subject entity maps to Framework Manager as a model query subject. Otherwise, the subject entity has the properties of a shortcut.

<table>
<thead>
<tr>
<th>Architect property</th>
<th>Framework Manager property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject entity name</td>
<td>Name</td>
</tr>
<tr>
<td>Subject entity description text</td>
<td>Description</td>
</tr>
<tr>
<td>Subject entity imported description text</td>
<td>Imported description text</td>
</tr>
<tr>
<td>Subject entity import source</td>
<td>No longer required</td>
</tr>
<tr>
<td>Subject entity external ID</td>
<td>No longer required</td>
</tr>
<tr>
<td>Subject entity lineage</td>
<td>Lineage</td>
</tr>
<tr>
<td>Subject entity imported lineage</td>
<td>Imported lineage</td>
</tr>
<tr>
<td>Subject entity import exclusion list</td>
<td>No longer required</td>
</tr>
<tr>
<td>Subject entity help text</td>
<td>Help text</td>
</tr>
<tr>
<td>Subject entity imported help text</td>
<td>No longer required</td>
</tr>
<tr>
<td>Subject entity steward</td>
<td>Steward</td>
</tr>
<tr>
<td>Subject entity list of references</td>
<td>No longer required</td>
</tr>
</tbody>
</table>

**Subject attributes**

Migration maps IBM Cognos Series 7 Architect subject attributes to IBM Cognos Framework Manager as query items or model calculations.

The parent of a subject attribute is a package folder, subject folder, package, or a subject entity.

<table>
<thead>
<tr>
<th>Architect property</th>
<th>Framework Manager property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Package folder</td>
<td>Package namespace</td>
</tr>
<tr>
<td>Subject folder</td>
<td>Model query subjects or namespaces</td>
</tr>
<tr>
<td>Package</td>
<td>Package namespace and a package object</td>
</tr>
<tr>
<td>Subject entity</td>
<td>Shortcut or a model query subject</td>
</tr>
</tbody>
</table>

To ensure that migration was successful, in Framework Manager, in the **Package Layer** namespace, right-click a subject name, and click **Go To Target**. The equivalent Business Layer object displays in the Object Explorer view.

<table>
<thead>
<tr>
<th>Architect property</th>
<th>Framework Manager property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject attribute name</td>
<td>Name</td>
</tr>
<tr>
<td>Subject attribute description text</td>
<td>Description</td>
</tr>
<tr>
<td>Subject attribute imported description text</td>
<td>Imported description text</td>
</tr>
<tr>
<td>Subject attribute import source</td>
<td>No longer required</td>
</tr>
<tr>
<td>Subject attribute external ID</td>
<td>No longer required</td>
</tr>
<tr>
<td>Subject attribute lineage</td>
<td>Lineage</td>
</tr>
<tr>
<td>Subject attribute imported lineage</td>
<td>Imported lineage</td>
</tr>
<tr>
<td>Subject attribute import exclusion list</td>
<td>No longer required</td>
</tr>
<tr>
<td>Subject attribute help text</td>
<td>Help text</td>
</tr>
<tr>
<td>Architect property</td>
<td>Framework Manager property</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>----------------------------</td>
</tr>
<tr>
<td>Subject attribute imported help text</td>
<td>No longer required</td>
</tr>
<tr>
<td>Subject attribute steward</td>
<td>Steward</td>
</tr>
<tr>
<td>Subject attribute list of references</td>
<td>No longer required</td>
</tr>
</tbody>
</table>
Chapter 8. Impromptu catalog mapping

The information in this section will help you understand the mapping of objects when migrating IBM Cognos Series 7 Impromptu metadata models (catalogs) from IBM Cognos Series 7 to IBM Cognos Business Intelligence.

Security

You apply user class filters at run time to give user classes access to specific data.

You can create filter expressions using security metadata such as user classes, user roles, and user names.

Migration replaces the references in expressions to user-name with references to the session parameter #sq($account.personalInfo.userName)#. Also, migration replaces the references in expressions to user-classes with #CSVIdentityName(%ImportedUserClasses)#, where ImportedUserClasses is a hard-coded parameter map. During the import, the expression is loaded with the currently available roles, both as map keys and as map values.

You can secure an Impromptu catalog using IBM Cognos Series 7 Access Manager, or define the security in the catalog itself. If you secure the catalog using Access Manager, the user-name and user-class tokens are exposed. If you secure the catalog using its internal security, the catalog-user-profile() tokens are mapped to #CSVIdentityName(%ImportedUserClasses)#.

You must replicate security information stored directly in an Impromptu catalog in the namespace that contains the security information used by IBM Cognos BI.

The following are examples of the migration mapping for Impromptu filter expressions that use internal catalog security.

<table>
<thead>
<tr>
<th>Impromptu filter expression</th>
<th>Framework Manager expression</th>
</tr>
</thead>
<tbody>
<tr>
<td>user-name='Bob'</td>
<td>#sq($account.personalInfo.userName)#='Bob'</td>
</tr>
<tr>
<td>'Sales' in catalog-user-profile()</td>
<td>'Sales' in #CSVIdentityName(%ImportedUserClasses)#</td>
</tr>
</tbody>
</table>

In addition to these expressions, the migration process creates an empty parameter map named ImportedUserClasses that the IBM Cognos BI modeler can modify.

Client-server balancing options

Limited local and database-only processing options are supported in IBM Cognos BI. The flexible processing option is not supported. Use the limited local processing option instead.
Related concepts

Chapter 11, “Impromptu functions mapping,” on page 117

Functions are predefined calculations that you use to define expressions in reports for calculating data, filtering data, or adding conditional formatting.

Related tasks

“Exporting Impromptu catalogs” on page 25

You can export IBM Cognos Series 7 Impromptu catalogs for use as a metadata source in IBM Cognos Framework Manager. If you are migrating Impromptu reports, you must first migrate the corresponding catalogs to support the report migration.

Physical view object mapping

Each object in the physical view of IBM Cognos Series 7 Impromptu catalogs is mapped to IBM Cognos Framework Manager as a model object in the Tables namespace. Entries of the Tables namespace are namespaces that have the same name as the logical database that the catalog is based on.

When you expand the Tables namespace, you see query subjects and query items in a structure that is similar to tables and columns in the physical view of catalogs. Each of these objects has its own set of properties that you can view in the properties pane.

To preserve a user experience close to that in IBM Cognos Series 7, the objects created from the physical layer of the catalog are normally hidden from report authors in the IBM Cognos Business Intelligence authoring tools that use the Framework Manager model.

The Impromptu catalog physical view objects are mapped to Framework Manager model objects as follows.

<table>
<thead>
<tr>
<th>Impromptu object</th>
<th>Framework Manager object</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalog</td>
<td>Model</td>
</tr>
<tr>
<td>Table and Table Alias</td>
<td>Query subject</td>
</tr>
<tr>
<td></td>
<td>Note: Security filters for table aliases are not migrated.</td>
</tr>
<tr>
<td>Table column</td>
<td>Query item</td>
</tr>
<tr>
<td>Join</td>
<td>Relationship between database query subjects</td>
</tr>
</tbody>
</table>

The catalog

The properties of an IBM Cognos Series 7 Impromptu catalog are migrated to properties of an IBM Cognos Framework Manager namespace. Migration creates a single default object-based package for every user profile and user class in this namespace.

<table>
<thead>
<tr>
<th>Impromptu catalog property</th>
<th>Framework Manager model property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Name</td>
</tr>
<tr>
<td>Description</td>
<td>Description</td>
</tr>
<tr>
<td>Access Manager namespace</td>
<td>Access Manager namespace</td>
</tr>
</tbody>
</table>
Impromptu catalog property | Framework Manager model property
--- | ---
Is distributed | Is distributed
Path to the catalog | Catalog path
Unique ID | Unique ID

**Note:** IBM Cognos Series 7 Access Manager namespace, Is distributed, Path to the catalog, and Unique ID are custom properties.

### Tables and table aliases

The properties of IBM Cognos Series 7 Impromptu catalog tables and table aliases are migrated to properties of IBM Cognos Framework Manager query subjects.

The following table shows how Impromptu table properties are migrated to Framework Manager query subject properties.

<table>
<thead>
<tr>
<th>Impromptu table property</th>
<th>Framework Manager query subject property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Name</td>
</tr>
<tr>
<td>Qualification level</td>
<td>Not supported in IBM Cognos Business Intelligence, so not migrated</td>
</tr>
<tr>
<td>Weight</td>
<td>Not supported in IBM Cognos BI, so not migrated</td>
</tr>
<tr>
<td>Master table reference (for table aliases)</td>
<td>Not migrated</td>
</tr>
</tbody>
</table>

### Table columns

The properties of IBM Cognos Series 7 Impromptu catalog table columns are migrated to properties of IBM Cognos Framework Manager query items.

The following table shows how Impromptu column properties are migrated to Framework Manager query item properties.

<table>
<thead>
<tr>
<th>Impromptu column property</th>
<th>Framework Manager query item property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Name</td>
</tr>
<tr>
<td>Data type</td>
<td>Datatype</td>
</tr>
<tr>
<td>IsKey</td>
<td>Impromptu table columns with the IsKey attribute set to true become query items with the Usage attribute set to Identifier. In the model, the determinant is created with query items created from Impromptu table columns with IsKey set to true. These query items become determinant keys.</td>
</tr>
</tbody>
</table>

### Joins

Migration migrates IBM Cognos Series 7 Impromptu joins to the IBM Cognos Framework Manager model as relationships between query subjects.
The name of the relationship is as follows:

[LeftTableName] <--> [RightTableName]

Migration creates left and right cardinality based on the following rules:

- Left minimum cardinality is equal to 1 if the join type is either inner or right outer.
- Left minimum cardinality is equal to 0 if the join type is either full outer or left outer.
- Left maximum cardinality is always equal to 1.
- Right minimum cardinality is equal to 1 if the join type is either inner or left outer.
- Right minimum cardinality is equal to 0 if the join type is either full outer or right outer.
- Right maximum cardinality is always equal to 1.

<table>
<thead>
<tr>
<th>Impromptu join property</th>
<th>Framework Manager relationship property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left table reference</td>
<td>left refobject</td>
</tr>
<tr>
<td>Right table reference</td>
<td>right refobject</td>
</tr>
<tr>
<td>Expression</td>
<td>Expression</td>
</tr>
<tr>
<td></td>
<td>For more information, see “Expressions” on page 96.</td>
</tr>
<tr>
<td>Join type</td>
<td>Not migrated</td>
</tr>
</tbody>
</table>

**Business view object mapping**

Migration maps objects in the business view of IBM Cognos Series 7 Impromptu catalogs to IBM Cognos Framework Manager as model objects in the Folders namespace.

When you expand the Tables namespace, you see query subjects and query items in a structure that is similar to tables and columns in the business view of catalogs. Each of these objects has its own set of properties that you can view in the properties pane.

<table>
<thead>
<tr>
<th>Impromptu business view object property</th>
<th>Framework Manager model property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Folder</td>
<td>Namespace or model query subject</td>
</tr>
<tr>
<td>Folder column</td>
<td>Simple reference to a query item, calculation, or filter</td>
</tr>
<tr>
<td>Calculation</td>
<td>Embedded calculation or standalone calculation</td>
</tr>
<tr>
<td>Condition</td>
<td>Filter</td>
</tr>
<tr>
<td>Prompt</td>
<td>Model prompt</td>
</tr>
</tbody>
</table>

**Folders**

Migration maps IBM Cognos Series 7 Impromptu catalog folders to an IBM Cognos Framework Manager model as namespaces or model query subjects.
If all the children of the folder are folder columns or calculations, the folder is migrated as a model query subject. Otherwise, the folder is migrated to a Framework Manager model namespace.

Empty folders and empty folder structures are not migrated.

The Impromptu catalog folder name is mapped to the Framework Manager namespace or model query subject name.

**Duplicate folder names**

Framework Manager does not allow duplicate object names in any namespace. When you migrate a catalog that has folders with duplicate names, the migration process modifies duplicate names to ensure each migrated object has a unique name. For example, if Country or Region was used as a folder name more than once in the catalog business view, the migration process adds a unique postfix to the name: Country or Region~1, Country or Region~2, and so on. The modified names do not affect the functionality of migrated Impromptu reports.

You can change object names in Framework Manager after migrating a catalog. However, you should make the changes before you publish the metadata package to the IBM Cognos Business Intelligence content store and before you use the deployfroms7 tool to migrate reports that use the catalog. If you change names after you migrate Impromptu reports, you must repeat the IBM Cognos BI migration part of the report migration process.

**Folder columns**

Migration maps IBM Cognos Series 7 Impromptu catalog folder names to IBM Cognos Framework Manager as either model query items or model calculations.

If the parent folder is migrated as a namespace, the folder columns are migrated to model calculations containing a simple reference to a query item. Otherwise, the folder columns are migrated to model query items.

Impromptu catalog folder column names are mapped to Framework Manager query item names or model calculation names.

**Calculations**

Migration maps IBM Cognos Series 7 Impromptu calculations to IBM Cognos Framework Manager as either embedded calculations or model calculations.

If the parent folder maps to Framework Manager as a namespace, the calculation maps to a model calculation. Otherwise, the calculation maps to an embedded calculation.

<table>
<thead>
<tr>
<th>Impromptu calculation property</th>
<th>Framework Manager calculation property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Name</td>
</tr>
<tr>
<td>Expression</td>
<td>Expression</td>
</tr>
</tbody>
</table>

For more information, see "Expressions" on page 96.
Conditions

Migration maps IBM Cognos Series 7 Impromptu conditions to IBM Cognos Framework Manager as model filters.

<table>
<thead>
<tr>
<th>Impromptu condition property</th>
<th>Framework Manager model filter property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Name</td>
</tr>
<tr>
<td>Expression</td>
<td>Expression</td>
</tr>
<tr>
<td></td>
<td>For more information, see “Expressions.”</td>
</tr>
</tbody>
</table>

Prompts

Migration maps IBM Cognos Series 7 Impromptu prompts stored in the catalog to IBM Cognos Framework Manager as model prompts (model calculations).

Model prompts have the following syntax:

```
#prompt(promptName,datatype)#
```

An example is `#prompt('Country or Region','string')#`.

The model prompts are placed in the namespace created from the folder that contains these prompt definitions in the Impromptu catalog. The Impromptu prompt definition string, as returned by the Impromptu Catalog Automation Interface, is placed in the model as the Prompt Definition property in the Impromptu Properties property set of the model prompt.

The following types of prompts are migrated:

- Type-in prompts. The data type in the prompt value determines the mapping for type-in prompts. Possible IBM Cognos Business Intelligence mappings are text box prompt, date prompt, time prompt, date and time prompt, or interval prompt.
- Catalog picklist prompts are migrated to value prompts.
- Report picklist prompts are migrated to value prompts.

File picklist prompts are not migrated.

A list of migrated prompts displays in the folder namespace.

Impromptu prompt properties that do not have a corresponding property in Framework Manager become custom properties. In the Framework Manager expression, a reference to the model prompt replaces the prompt reference in the Impromptu expression.

Expressions

Migration migrates IBM Cognos Series 7 Impromptu expressions to IBM Cognos Framework Manager expressions.

The following table describes how components in expressions are migrated.

<table>
<thead>
<tr>
<th>Impromptu catalog expression</th>
<th>Framework Manager expression</th>
</tr>
</thead>
<tbody>
<tr>
<td>Folder item references</td>
<td>Reference to query item reference</td>
</tr>
</tbody>
</table>
### Impromptu catalog expression | Framework Manager expression
--- | ---
Stored procedure references | Model function references
Prompt references | Model calculation references representing prompts
Security by value tokens | Equivalent Framework Manager tokens
References to external User Defined Functions (UDFs) | Replicated literally in the Framework Manager expressions. Expressions containing this type of reference may require editing after the migration is complete.
Calls to database built-in functions | Calls to IBM Cognos Business Intelligence database functions or constructs using these functions. For more information, see Chapter 11, “Impromptu functions mapping,” on page 117.
Database UDFs | References to model function

After you migrate, verify the functions and expressions in Framework Manager before publishing the package from the model. If an expression is not valid in Framework Manager, check whether the expression is valid in the original Impromptu catalog.

Calculations in Impromptu catalogs may contain constructs that are not supported in IBM Cognos BI. In such cases, you may need to manually edit the expressions using the Framework Manager Expression Editor to achieve the expected results.

You can also test the expressions in Framework Manager. For more information, see the Framework Manager *User Guide*.

### User defined functions

The migration process does not migrate external user defined functions (UDFs). If an IBM Cognos Series 7 Impromptu expression references an external UDF, the IBM Cognos Framework Manager expression includes a literal copy of the Impromptu reference syntax.

Database UDFs are migrated to Framework Manager as model functions in the Folders namespace. As long as the function still exists in the database schema, the expressions referencing the database UDF are valid.

For more information about expressions, see the Framework Manager *User Guide*.

### Governors

Governors are not migrated. Similar functionality exists in IBM Cognos Business Intelligence.

The following table describes how you can specify the equivalent of governors in IBM Cognos BI.

<table>
<thead>
<tr>
<th>Impromptu governor</th>
<th>IBM Cognos BI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sorting on non indexed columns</td>
<td>No equivalent setting.</td>
</tr>
<tr>
<td>Impromptu governor</td>
<td>IBM Cognos BI</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>--------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Outer joins</td>
<td>Available in IBM Cognos Framework Manager as a governor setting, and in Report Studio as a query property.</td>
</tr>
<tr>
<td>Eliminate duplicate rows</td>
<td>Can specify in Framework Manager in the query subject. For example, you can use a SELECT DISTINCT statement. In IBM Cognos Report Studio, a query property exists to control the number of rows returned.</td>
</tr>
<tr>
<td>Cross-product query</td>
<td>Available in Framework Manager as a governor setting, and in Report Studio as a query property.</td>
</tr>
<tr>
<td>Create edit reports</td>
<td>Can specify a capability in IBM Cognos Connection to restrict access to Report Studio. For more information, see the IBM Cognos Administration and Security Guide.</td>
</tr>
<tr>
<td>Edit folders</td>
<td>Can secure objects in Framework Manager models.</td>
</tr>
<tr>
<td>Add modify user classes</td>
<td>Can be specified in IBM Cognos Connection or Framework Manager.</td>
</tr>
<tr>
<td>Direct entry SQL</td>
<td>Can specify a capability in IBM Cognos Connection to restrict adding user defined SQL in reports.</td>
</tr>
<tr>
<td>Max number of characters for large text</td>
<td>Available in Framework Manager as a governor setting, and in Report Studio as a query property.</td>
</tr>
<tr>
<td>Report table limits</td>
<td>Available in Framework Manager as a governor setting, and in Report Studio as a query property.</td>
</tr>
<tr>
<td>Data retrieval limits</td>
<td>Available in Framework Manager as a governor setting, and in Report Studio as a query property.</td>
</tr>
<tr>
<td>Query execution</td>
<td>Available in Framework Manager as a governor setting, and in Report Studio as a query property.</td>
</tr>
</tbody>
</table>

**Objects not migrated**

Migration does not process some IBM Cognos Series 7 Impromptu catalog objects.

The following list describes catalog objects that are not migrated to IBM Cognos Business Intelligence.

- External user-defined functions (UDFs)
- HotFiles and snapshots
Impromptu hotfiles are used in different ways. If you used hotfiles in report prompts, in IBM Cognos Business Intelligence, you can copy and paste key values into a report prompt. For more information about pasting values into report prompts, see the IBM developerWorks® Web site [http://www.ibm.com/developerworks/](http://www.ibm.com/developerworks/). Perform a search using the keywords **cognos** and **proven practices**.

If you used hotfiles as a second data source in Impromptu, you can link a report to multiple data sources in IBM Cognos BI. For more information, see the Framework Manager *User Guide* and the Report Studio *User Guide*.

- Table weighting
- Client-server settings

Client-server settings are not required. The settings are for Impromptu client and are not applicable to a Web environment.
Chapter 9. Impromptu reports mapping

The information in this section will help you understand the mapping of objects when migrating IBM Cognos Series 7 Impromptu reports to IBM Cognos Business Intelligence. You can migrate Impromptu reports to IBM Cognos Report Studio only.

Related concepts
Chapter 11, “Impromptu functions mapping,” on page 117
Functions are predefined calculations that you use to define expressions in reports for calculating data, filtering data, or adding conditional formatting.
Chapter 10, “Impromptu Web Reports mapping,” on page 113
The information in this section will help you understand the mapping of objects when migrating IBM Cognos Series 7 Impromptu Web Reports applications to IBM Cognos Business Intelligence.
“Reports look different in IBM Cognos BI than in Impromptu” on page 189
After you open a migrated report in IBM Cognos Business Intelligence, some style elements may be different from what they were in IBM Cognos Series 7 Impromptu.

Report functionality mapping

IBM Cognos Series 7 Impromptu report functionality is preserved when equivalent or similar functionality is available in IBM Cognos Business Intelligence.

If report functionality does not map to IBM Cognos BI, the specific functionality is dropped from the migrated report. Depending on the structure of the report, dropping a specific functionality can have a significant impact on how the report displays in IBM Report Studio. The migration log file will include information about changes or errors in report functionality.

Report layout

The layout of an IBM Cognos Series 7 Impromptu report is migrated to a collection of layout objects in IBM Cognos Business Intelligence.

The layout objects are in a single report page with the default name Page1. Page1 represents the top level report frame in the Impromptu report. Page1 has a page header, page footer, and page body that represent the migrated report header, report footer, and report body frames respectively.

Note: In IBM Cognos BI, the page header and page footer are always present even if they are not selected for display in Impromptu. In IBM Cognos Report Studio, you can remove page headers and page footers in reports.

The type of layout object created in IBM Cognos BI depends on the type of Impromptu frame. Additional layout objects may be inserted to help position migrated objects so that the rendered report resembles the Impromptu report as much as possible. The additional layout objects are most often tables and blocks.

Primary frame designation

The primary frame designation is not migrated. It is not required in IBM Cognos Business Intelligence reports.
Report frames

The following sections describe how the migration tools migrate the different types of IBM Cognos Series 7 Impromptu report frames.

Form frames

Form frames that do not contain other frames are migrated to blocks. Form frames that do contain other frames are migrated to tables with the required structure to position the objects in the table in the same way as the Impromptu frame.

Text frames

Text frames that show static text are migrated to text items with the Source Type property set to Text. Text frames that show the data values are migrated to text items with the Source Type property set to Data Item Value.

Report variables

The following report variables are migrated to block objects containing a text item that is set to a report expression. The report expression is an IBM Cognos Business Intelligence function that returns the same type of information as the variable.

- System date
- System time
- Catalog file name
  The ModelPath() function returns the search path to the model.
- Report file name
  The ReportPath() function returns the search path to a report.
  A search path uses expressions to specify a path through the content store hierarchy to find objects. The search path is similar to a path in an operating system such as Microsoft DOS or UNIX in that the search path is constructed through parent-child relationships from the root object.
- Page number
- Total pages
- Report description

Static text

Static text are migrated to block objects containing text item objects.

List frames

List frames are migrated to list objects with the required structure to correspond with the structure of the Impromptu list frame.

Depending on the structure of the Impromptu list frame, some objects that a list object can contain may or may not be created. For example, the list header and list footer are not created if the Impromptu list frame does not include list or group headers and footers. List column titles are always created even if the layout of the Impromptu frame does not include them. The visibility of columns in the migrated list is controlled by the Column Titles property of the list.

Crosstab frames

Crosstab frames are migrated to crosstab objects with the required structure to correspond to the layout of the Impromptu crosstab frames.
Chart frames
Chart frames are migrated to chart objects of the appropriate type.

The supported chart types are
- Bar
- Pie
- Column
- Line
- Area
- Scatter
- Radar
- Bubble

The following chart types are not migrated. A warning is written to the migration log file when an unsupported chart type is found in the Impromptu report.
- Gantt
- Hi-lo-close
- Hi-lo-open
- Log line
- Correlation
- Quadrant
- Stock
- Candlestick
- Box and whisper

Note: Legends do not display in Impromptu charts migrated to IBM Cognos BI unless the chart associated with the legend is a bar chart.

Display options
The following display options are not migrated:
- Autofit labels for axis labels and values on bars
- Picture background style
- Trendlines
- 3D views

Picture frames
Picture frames are migrated to image objects.

All image files in the migration source are copied to IBM Cognos BI and installed in the IBM_Cognos_BI_install/webcontent/migration directory. The URL Source group of properties of each image object refers to the migrated image file.

For image files that are added to picture frames using the Load from File option, the Source Type property of the image in IBM Cognos BI is set to Text and the URL property is set to the relative path of the image file installation location.

For images that are stored in the report (a copy of each image is stored in the report), the migration process extracts the images from the report into separate bitmap files. The bitmap files are installed and referred to as image files that were loaded from a file.
When dynamic pictures are migrated, the **Source Type** property of the image in IBM Cognos BI is set to **Report Expression** and the **Report Expression** property specifies the expression that defines the URL where the image file is installed.

**Report insertable objects**

Report insertable objects are migrated with some exceptions.

The following objects are not migrated:
- OLE objects
- Running page totals
- Catalog file name
- Database name
- Database user ID
- Snapshot timestamp
- Filter text (detail, summary, and drill-through)
- Catalog user profile
- User classes
- User name

The following sections provide more information on how the migration tools migrate some report insertable objects.

**Rectangles**

Rectangles are migrated as blocks in IBM Cognos Business Intelligence. Formatting applied to a rectangle is migrated to various style properties of the block.

**Column spacers**

Column spacers are migrated as additional columns in list reports. No data displays in these columns and the column titles are taken from the column title property of the column spacers.

**Report queries**

IBM Cognos Series 7 Impromptu queries are migrated to IBM Cognos Business Intelligence queries.

Depending on the type of query and relationships between queries in the Impromptu report, the number of queries in IBM Cognos BI may be greater than in Impromptu. For example,
- Impromptu crosstab queries are migrated to two queries in IBM Cognos BI, where the data from the first query is the data source for the second query. The second query produces the values in the crosstab cells.
- For Impromptu form frames that have the scope of data set on a grouped data item, IBM Cognos BI creates a sectioned list with additional queries to provide values for the section header.

The main query in Impromptu reports is migrated to an IBM Cognos BI query named Query5. When present, the migration process generates names for other migrated queries, and IBM Cognos BI query expressions links them to the main query and, possibly to other queries.
Impromptu type-in SQL queries are migrated to IBM Cognos BI queries containing a SQL object. The SQL property of the SQL object contains the SQL query text copied exactly from the Impromptu query.

Impromptu query items are migrated to projected data items in the main query of the migrated report. Impromptu query grouping information creates dimensional information in the main query of the migrated report. Specifically, the query property Override Dimension Info is set to Yes and the following displays in the Dimension Info tab:

- Levels are named after grouped data items.
- Keys are created for each grouped data item.
- Member properties are created for each associated data item.

Impromptu query sorting information sets the Pre-Sort property for the projected data items in the migrated query.

Impromptu query filter expressions are migrated to IBM Cognos BI filter expressions in the migrated queries. If Impromptu suspends a filter, the Usage property of the migrated filter is set to Disabled.

**Calculated columns in crosstabs**
Calculated columns that are based on other columns in a crosstab are not migrated.

For example, a calculated column that is the sum of two other columns in the crosstab will not be migrated. Other calculations are migrated.

**Crosstab detail and summary filters**
Crosstab detail and summary filters are not migrated. Such filters are removed from the crosstab query.

A warning message is generated in the log file.

**Data Items not referenced in a query**
If an Impromptu report contains data items that are not in the scope of a query, a report validation error may occur when you open the migrated report in IBM Cognos Report Studio.

This error occurs when Report Studio cannot determine the query reference for a data item. The migration process is unable to associate such data items to an existing query when the data items are in the report header, footer, or body. To correct the error, drag the data items into a container. If the container is a list, drag the data items into the list page header or footer, or the overall header or footer. If you want to see the first row of the item on each page or in the overall report, drag the item to the list page header or overall header. If you want to see the item's last row on each page or in the overall report, drag the item to the list page footer or overall footer.

**Queries that run but are not valid**
In Impromptu, you can create queries that are not valid but will return data when they are run. In IBM Cognos BI, all queries must be valid before they can run.

Consequently, such queries will not work after migration.

**Sorting**
Sorting in Impromptu reports is migrated to IBM Cognos BI.
However, you may notice differences between the source and migrated report outputs.
• When you group an item in Impromptu, the item is automatically sorted even if you do not specify a sort order. After migration, the item is grouped and sorted.
• If an item is not sorted in Impromptu, it may appear to be sorted in the migrated report, even though no sorting is specified in the migrated report specification. This is caused by the underlying database.

Tip: The data may even appear differently if you run the report against a different database system.

Data formats
Data formats are migrated with some exceptions.

The following formatting types are not migrated:
• String formatting. For example, if a report uses the format Aa* for a string, the string displays as unformatted in IBM Cognos Business Intelligence.
• Mixed-type formatting. For example, if a number is formatted as a date in an IBM Cognos Series 7 Impromptu report, the number displays as unformatted in IBM Cognos BI.

Suppression of zero values
Suppression of zero values is not migrated. You can use filters in IBM Cognos Report Studio to achieve similar results.

Drill-through associations
Drill-through associations between IBM Cognos Series 7 Impromptu reports are migrated to IBM Cognos Business Intelligence if you migrate all related reports at the same time.

Report query governors
Report query governors are not migrated except for the query processing strategy setting.

When the query processing strategy is set to Database only in IBM Cognos Series 7 Impromptu, the query hint Processing is set to Database only in migrated reports. For all other options for this governor, the query hint is set to Limited Local in migrated reports.

Report output formats
Output options for various output formats, such as save as HTML, are not migrated. In IBM Cognos Report Studio, you can set output options for the report output formats available.

Page count
Page count is provided in PDF report output. Total page count in HTML report output is replaced with a question mark (?).
Report navigation

Table of contents for HTML reports is not migrated. Similar functionality exists in IBM Cognos Business Intelligence.

Placeholders

Placeholders are not migrated.

Prompts

Several prompt types are migrated.

The types of prompts that are migrated include

- Type-in prompts. The data type in the prompt value determines the mapping for type-in prompts. Possible IBM Cognos Business Intelligence mappings are text box prompt, date prompt, time prompt, date and time prompt, or interval prompt.
- Catalog picklist prompts are migrated to value prompts.
- Report picklist prompts are migrated to value prompts.

File picklist prompts are not migrated.

Report description

The report description is not migrated. In IBM Cognos Connection, you can specify a description and an online screen tip for a report by accessing its properties page.

Report properties

The following sections provide more information on how the migration tools migrate some report properties.

Catalog and report paths

Instead of a path to the catalog, IBM Cognos Business Intelligence uses a model path. The `ModelPath()` function returns the search path to the model. The `ReportPath()` function returns the search path to a report.

A search path uses expressions to specify a path through the content store hierarchy to find objects. The search path is similar to a path in an operating system such as Microsoft DOS or UNIX in that the search path is constructed through parent-child relationships from the root object.

Preview

Preview is not migrated.

Report templates

Report templates are not migrated. Similar functionality exists in IBM Cognos Business Intelligence.

Impromptu macros

Migration does not process IBM Cognos Series 7 Impromptu macros. You can implement similar functionality in IBM Cognos Business Intelligence using the IBM Cognos Software Development Kit.
Impromptu Query Definition (.iqd) files

IBM Cognos Series 7 Impromptu query definition files are not migrated.

You can create IQD files in IBM Cognos Framework Manager. Alternatively, you can use IBM Cognos Business Intelligence packages. Keep a backup of your IQD files until you have completed the migration and your cubes build successfully.

IQD files are valid data sources for IBM Cognos BI Transformer. However, there are advantages and disadvantages of using IQD files in Transformer. For more information, see the Transformer User Guide.

Snapshots

Snapshots are not migrated. There is no equivalent in IBM Cognos Business Intelligence. IBM Cognos BI requires a database connection to run.

Impromptu report formatting mappings

When you view your reports in IBM Cognos Business Intelligence, you may see a difference in their appearance.

The way that reports are formatted for presentation differs between IBM Cognos Series 7 Impromptu, a Microsoft Windows operating system-based product, and IBM Cognos BI, a Web-based product. For example, layout elements such as the lines used in headers and footers, may display differently in IBM Cognos BI.

If a report uses Impromptu default data formatting, the report may display differently because Impromptu and IBM Cognos BI use different formatting defaults. For example, the default format for numeric values in a report column in IBM Cognos BI includes a comma, where the default format in Impromptu does not.

You can use IBM Cognos Report Studio to change the appearance of a migrated report. For more information, see the Report Studio User Guide.

Related concepts

“Reports look different in IBM Cognos BI than in Impromptu” on page 189
After you open a migrated report in IBM Cognos Business Intelligence, some style elements may be different from what they were in IBM Cognos Series 7 Impromptu.

Styles

Styles applied to objects in a report are stored in the report specification and are migrated.

Style information stored in the impromptu.ini file rather than in the report is not migrated to any object in IBM Cognos Business Intelligence.

In IBM Cognos Report Studio, you can replicate IBM Cognos Series 7 Impromptu styles by defining local and global classes. Local classes are applied to individual reports while global classes are applied to all reports.

Default formatting

In IBM Cognos Series 7 Impromptu, you can use default formatting in a report, such as the default format for column titles and the list grid.
For example,

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Product Line</th>
<th>Product</th>
<th>Product Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Line</td>
<td>Alert Devices</td>
<td>Pocket U.V. Alerter</td>
<td>9.0000E0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Microwave Detecive</td>
<td>1.2000E1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pocket Radon Alerter</td>
<td>3.9000E1</td>
</tr>
<tr>
<td>Bio-Friendly Soaps</td>
<td>RiverKind Shampoo</td>
<td>9.0000E0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RiverKind Soap</td>
<td>1.1000E1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RiverKind Detergent</td>
<td>6.0000E0</td>
<td></td>
</tr>
<tr>
<td>Recycled Products</td>
<td>EnviroSak</td>
<td>6.0000E0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Enviro-Kit</td>
<td>1.2000E1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Enviro-T</td>
<td>3.0000E1</td>
<td></td>
</tr>
<tr>
<td>Sunblock</td>
<td>Sun Shelter-8</td>
<td>6.0000E0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sun Shelter-30</td>
<td>9.0000E0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sun Shelter-15</td>
<td>9.0000E0</td>
<td></td>
</tr>
<tr>
<td>Water Runners</td>
<td>Pro-Life Water Filter</td>
<td>165.00E0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pocket Water Filter</td>
<td>270.00E0</td>
<td></td>
</tr>
<tr>
<td>GO Sport Line</td>
<td>Carry-Bags</td>
<td>GO Sport Bag</td>
<td>2.0000E1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GO Ski Gear Bag</td>
<td>3.2000E1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GO Duffel Bag</td>
<td>5.0000E1</td>
</tr>
<tr>
<td></td>
<td>Sport Wear</td>
<td>GO Headband</td>
<td>1.0000E1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GO Wristband</td>
<td>8.0000E0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GO Water Bottle</td>
<td>0.0000E0</td>
</tr>
</tbody>
</table>

In IBM Cognos Business Intelligence, the report uses the IBM Cognos BI default formatting as shown in the following example.
If an Impromptu report contains formatting that overrides the default formatting, the formatting is migrated if it is supported in IBM Cognos BI. But default formats in Impromptu are mapped to default formats in IBM Cognos BI, even if they are different.

**Number formatting**

In IBM Cognos Series 7 Impromptu, if you set the formatting for a numeric column to 0, the values display as numbers without a separator, such as 40102.

In IBM Cognos Business Intelligence, the values display with a separator, such as 40,102.

**Crosstab headers**

In IBM Cognos Series 7 Impromptu, a crosstab report can include a column header or report header.

In IBM Cognos Business Intelligence, the headers do not display.

To update the migrated report to match the original format, open the report in IBM Cognos Report Studio and add the headers by inserting a text item.

**Borders**

In IBM Cognos Series 7 Impromptu, you can specify a border for a text frame, such as a column header. Borders are migrated to IBM Cognos Business Intelligence to the **Border** property of the block or table cell that represents the frame.

You can change border information by accessing the property in IBM Cognos Report Studio.

However, in IBM Cognos BI, the default formatting may not provide enough space for the borders. Therefore, the borders may not display.

To make the borders display, open Report Studio and change the height and width of the items in the text item.

**Font**

Font information for all text frames is migrated to the **Font** property of the blocks that represent the frames in migrated reports.

The font family and other font attributes such as style, size, and effects are set exactly as in the IBM Cognos Series 7 Impromptu report. This is true even if there is no identical option in the IBM Cognos Business Intelligence **Font** dialog box. The information is stored in the report specification.

The following font properties are not migrated:
- Character set
- Out precision
- Clip precision
- Quality
- Pitch and family
Alignment
The alignment property of a frame in IBM Cognos Series 7 Impromptu is partially migrated. The relative positioning of Impromptu report frames cannot always be replicated in IBM Cognos Business Intelligence because of different technologies in which reports are rendered.

Impromptu uses form frames, rendered as bitmap images, to organize the graphical layout of a report. Each frame can have an arbitrary size and position relative to other form frames in the report.

IBM Cognos BI uses HTML flow to organize the graphical layout of reports. Because of this, some graphical features in Impromptu, such as partially overlapping form frames, are not migrated. This avoids creating complex layouts which are difficult to use and modify.

In IBM Cognos Report Studio, you can manually adjust the layout of a migrated report in the page design view.

Justification of text frames
In IBM Cognos Series 7 Impromptu, when you specify justification for a text item, the text aligns with the text frame as defined.

In IBM Cognos Business Intelligence, a text item that is not wide enough to show all text expands to show all text. As a result, the text may have a different horizontal and vertical position on the page.

To make the text display in a similar location on the page as it does in Impromptu, open IBM Cognos Report Studio and change the properties of the text item or the block item that contains the text item.

Patterns
Patterns specified for frames in IBM Cognos Series 7 Impromptu are not migrated.

In IBM Cognos Business Intelligence, the block or table cell that represents a migrated frame has the background color set to the color value that is calculated from the foreground and background colors of the pattern, taking into account the proportion of the two colors. In IBM Cognos Report Studio, you can specify the background image of the block or table cell to obtain the same formatting effect as with the pattern in Impromptu.

Page width
In IBM Cognos Series 7 Impromptu, when you insert a text frame without specifying word wrap, text is truncated if it overflows the frame.

In IBM Cognos Business Intelligence, the text causes the report to widen to show all of the text on one line.

To adjust the report width, change the size and overflow settings for the block that contains the text item.

Conditional formats
Conditional formats are migrated to the Conditional group of properties for an object.
Use the Condition Explorer in IBM Cognos Report Studio to view and modify conditional formatting.
Chapter 10. Impromptu Web Reports mapping

The information in this section will help you understand the mapping of objects when migrating IBM Cognos Series 7 Impromptu Web Reports applications to IBM Cognos Business Intelligence.

The source for an Impromptu Web Reports migration is an IBM Cognos Series 7 Deployment Manager package.

You must migrate Impromptu catalogs before migrating Impromptu Web Reports.

Related concepts
Chapter 9, “Impromptu reports mapping,” on page 101
The information in this section will help you understand the mapping of objects when migrating IBM Cognos Series 7 Impromptu reports to IBM Cognos Business Intelligence. You can migrate Impromptu reports to IBM Cognos Report Studio only.

Related tasks
Chapter 4, “Migrating metadata,” on page 19
This chapter discusses migrating metadata from IBM Cognos Series 7 Architect and IBM Cognos Series 7 Impromptu. You can skip this chapter if you are only migrating IBM Cognos Series 7 PowerPlay content.

Report set mappings

There is no equivalent concept in IBM Cognos Business Intelligence for creating and managing a report set. However, the migration tools preserve the report set concept by grouping reports in an IBM Cognos Connection folder that uses the original report set name in the IBM Cognos Series 7 Impromptu Web Reports package.

Many report set properties in Impromptu Web Reports are mapped to equivalent IBM Cognos BI properties.

<table>
<thead>
<tr>
<th>Report set property</th>
<th>Mapping</th>
</tr>
</thead>
<tbody>
<tr>
<td>Report set name</td>
<td>Name of the IBM Cognos Connection folder that contains the reports from the report set</td>
</tr>
<tr>
<td>Description</td>
<td>Folder description</td>
</tr>
<tr>
<td>Contact email address</td>
<td>Folder email contact</td>
</tr>
<tr>
<td>Report list</td>
<td>Determines the reports that display in the IBM Cognos Connection folder that represents the report set</td>
</tr>
</tbody>
</table>

Migration does not include report set security settings. For more information, see “Security” on page 166.

Report mappings

Report properties in IBM Cognos Series 7 Impromptu Web Reports are mapped to equivalent or similar features in IBM Cognos Business Intelligence.
The following table shows the report properties that are migrated to IBM Cognos BI.

<table>
<thead>
<tr>
<th>Report property</th>
<th>Mapping</th>
</tr>
</thead>
<tbody>
<tr>
<td>NewsItem name</td>
<td>Entry name in IBM Cognos Connection</td>
</tr>
<tr>
<td>NewsItem description</td>
<td>Entry description</td>
</tr>
<tr>
<td>Contact information</td>
<td>If you configure IBM Cognos BI to use the same namespace as IBM Cognos Series 7, and you specify the namespace using the -N parameter with the migratefroms7 command, contact information from the user profile migrates if the user exists in the namespace. Otherwise, the email address from the NewsItem migrates as the contact email address.</td>
</tr>
<tr>
<td>Prompt settings</td>
<td>Saved prompt values</td>
</tr>
<tr>
<td>Report format settings</td>
<td>Report output formats</td>
</tr>
<tr>
<td>Number of versions setting</td>
<td>Number of report output versions to be maintained in Content Manager</td>
</tr>
<tr>
<td>Default show action setting</td>
<td>Default report output format settings</td>
</tr>
<tr>
<td>Default run action setting</td>
<td>Saved prompt value settings</td>
</tr>
<tr>
<td>Custom view</td>
<td>Report view</td>
</tr>
</tbody>
</table>

Migration does not include the following report features in Impromptu Web Reports:

- Report versions
  IBM Cognos BI includes similar functionality called report output versions.
- Burst settings
  You can implement similar functionality using IBM Cognos BI bursting options. For more information, see the Report Studio User Guide.
- Report dependency settings
- Governor settings
- Priority setting
- Security settings
  For more information about the options for migration security settings, see “Security” on page 166.

**Schedule mappings**

IBM Cognos Business Intelligence includes schedule features similar to report and event schedules. Most schedule settings are fully supported.

The following table shows schedule properties in IBM Cognos Series 7 Impromptu Web Reports that are mapped to IBM Cognos BI.
Schedule property | Mapping
---|---
Schedule type | Compared to Impromptu Web Reports, the daily schedule type in IBM Cognos BI includes more options, including the ability to specify frequency by hours. Therefore, mapping hourly schedules to daily schedules provides equivalent functionality. The last day of the month schedule type is not supported in IBM Cognos BI.
End date | In Impromptu Web Reports, an end date setting includes year, month, and day. In IBM Cognos BI, an end date setting also includes hours and minutes. When mapping end dates, hours and minutes are set to the time used in the start date.

If the Impromptu Web Reports environment and the IBM Cognos BI environment use different date and time settings, you must update schedules after migration to use the IBM Cognos BI settings.

Migration does not include cleanup and audit data collection schedules.

**Event mappings**

Events map to equivalent functionality in IBM Cognos Business Intelligence. The migration tools create an IBM Cognos Connection folder named Events to contain the migrated events.

Many event properties are mapped to equivalent IBM Cognos BI properties.

| Event property | Mapping |
---|---|
Event | Job |
Event name | Job name |
Schedule | Job schedule |
Dependant reports | jobStepDefinition |
Event list | Determines the contents of the Events folder in IBM Cognos Connection |

**Mappings of other Impromptu Web Reports objects**

IBM Cognos Series 7 Impromptu Web Reports applications include related objects and information.

Migration does not include the following objects:

- PowerPrompts
  You can implement similar functionality using the IBM Cognos Software Development Kit.
- Impromptu Web Reports data store
  IBM Cognos Business Intelligence uses a single content store. A separate data store is not required for migrated Impromptu Web Reports objects.
- Configuration information, such as server performance settings
Similar functionality is available in IBM Cognos Connection.

- HotFiles
Chapter 11. Impromptu functions mapping

Functions are predefined calculations that you use to define expressions in reports for calculating data, filtering data, or adding conditional formatting.

The migration process maps IBM Cognos Series 7 functions to a syntax supported by IBM Cognos Business Intelligence. If errors occur for functions mapping, view the log file to see details about the error and make changes to correct the error.

In IBM Cognos BI, database functions are organized in two folders, Common Functions and Vendor Specific Functions. IBM Cognos Series 7 Impromptu functions are migrated as follows:

- If a corresponding IBM Cognos BI common function exists, it is used to map the Impromptu function for all databases.
- If no corresponding common function exists, the migration process tries to find a corresponding function in Vendor Specific Functions.

The following tables describe how Impromptu functions are processed by database system.

The parameter names that you see in the IBM Cognos BI expressions are placeholders for parameter names in the Impromptu expression editor. Consult the IBM Cognos Series 7 Expression Editor User Guide to obtain the actual parameter names for each function.

- **parameters**
  Indicates that all parameter values from the Impromptu function are copied to the IBM Cognos BI expression. The number and order of parameters in the Impromptu function is maintained in the IBM Cognos BI expression.

- **paramx**
  Indicates that the \( x \) parameter in the list of parameters in the Impromptu function is copied to the IBM Cognos BI expression into the location where it displays in the expression. For example, \( \text{param1} \) means that the first parameter in the list of parameters is copied to the IBM Cognos BI expression in the location where \( \text{param1} \) displays in the expression.

Some parameters in the Impromptu function may be ignored when the IBM Cognos BI expression takes less parameters than the function. There are also IBM Cognos BI expressions that have more parameters than the corresponding Impromptu function. These additional parameters include keywords such as timestamp, string literals such as 'DAY', and numeric values such as 10.

**Note:** In some cases, the order of parameters in the IBM Cognos BI expression is different than in the Impromptu function. For example, the function `or_months-between (param1, param2)` is mapped to IBM Cognos BI as `months-between (param2, param1)`.

In IBM Cognos BI expressions, commas (,) separate parameters in the list of parameters. The list separator is locale-specific. In your migrated reports you may see a different list separator, such as a semi-colon (;).
### IBM DB/2

<table>
<thead>
<tr>
<th>Impromptu function</th>
<th>IBM Cognos BI expression</th>
</tr>
</thead>
<tbody>
<tr>
<td>ascii</td>
<td>ascii (param1)</td>
</tr>
<tr>
<td>cast_char</td>
<td>cast_char (parameters)</td>
</tr>
<tr>
<td>cast_date</td>
<td>cast (param1, date)</td>
</tr>
<tr>
<td>cast_decimal</td>
<td>cast_decimal (parameters)</td>
</tr>
<tr>
<td>cast_double</td>
<td>cast_double_precision (param1)</td>
</tr>
<tr>
<td>cast_float</td>
<td>cast_float (param1)</td>
</tr>
<tr>
<td>cast_integer</td>
<td>cast_integer (param1)</td>
</tr>
<tr>
<td>cast_smallint</td>
<td>cast_smallint (param1)</td>
</tr>
<tr>
<td>cast_timestamp</td>
<td>cast_timestamp (param1)</td>
</tr>
<tr>
<td>cast_varchar</td>
<td>cast_varchar (param1, param2)</td>
</tr>
<tr>
<td>char</td>
<td>chr (param1)</td>
</tr>
<tr>
<td>char2</td>
<td>cast_char (param1, param2)</td>
</tr>
<tr>
<td>char_db2</td>
<td>CHAR (param1)</td>
</tr>
<tr>
<td>char_length</td>
<td>length (param1)</td>
</tr>
<tr>
<td>cinteger</td>
<td>cast_integer (param1)</td>
</tr>
<tr>
<td>coalesce</td>
<td>coalesce (parameters)</td>
</tr>
<tr>
<td>d2_decimal</td>
<td>DECIMAL (param1, param2, param3)</td>
</tr>
<tr>
<td>date</td>
<td>d2_date (param1)</td>
</tr>
<tr>
<td>date-to-datetime</td>
<td>timestamp_iso (param1)</td>
</tr>
<tr>
<td>date-to-string</td>
<td>char (param1)</td>
</tr>
<tr>
<td>datetime-to-date</td>
<td>cast (param1, date)</td>
</tr>
<tr>
<td>day-of-ymd-interval</td>
<td>extract (day, cast (param1, date))</td>
</tr>
<tr>
<td>days</td>
<td>days (param1)</td>
</tr>
<tr>
<td>decimal</td>
<td>d2_decimal (param1, param2, param3, param4)</td>
</tr>
<tr>
<td>digits</td>
<td>digits (param1)</td>
</tr>
<tr>
<td>double</td>
<td>d2_double (param1)</td>
</tr>
<tr>
<td>event_mon_state</td>
<td>event_mon_state (param1)</td>
</tr>
<tr>
<td>float</td>
<td>d2_float (param1)</td>
</tr>
<tr>
<td>hex</td>
<td>hex (param1)</td>
</tr>
<tr>
<td>insert</td>
<td>d2_insert (param1, param2, param3, param4)</td>
</tr>
<tr>
<td>integer</td>
<td>d2_integer (param1)</td>
</tr>
<tr>
<td>integer-divide</td>
<td>floor (param1 / param2)</td>
</tr>
<tr>
<td>julian_day</td>
<td>julian_day (param1)</td>
</tr>
<tr>
<td>lcase</td>
<td>lcase (param1)</td>
</tr>
<tr>
<td>left</td>
<td>left (param1, param2)</td>
</tr>
<tr>
<td>length</td>
<td>length (param1)</td>
</tr>
<tr>
<td>ln</td>
<td>ln (param1)</td>
</tr>
<tr>
<td>locate</td>
<td>locate (param1, param2, param3)</td>
</tr>
<tr>
<td>long_varchar</td>
<td>long_varchar (param1)</td>
</tr>
<tr>
<td>Impromptu function</td>
<td>IBM Cognos BI expression</td>
</tr>
<tr>
<td>--------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>microsecond</td>
<td>microsecond (param1)</td>
</tr>
<tr>
<td>midnight_seconds</td>
<td>midnight_seconds (param1)</td>
</tr>
<tr>
<td>month-of-ymd-interval</td>
<td>extract (month, cast (param1, date))</td>
</tr>
<tr>
<td>monthname</td>
<td>monthname (param1)</td>
</tr>
<tr>
<td>nodenumber</td>
<td>nodenumber (param1)</td>
</tr>
<tr>
<td>nullif</td>
<td>nullif (param1, param2)</td>
</tr>
<tr>
<td>number-to-datetime</td>
<td>_make_timestamp (extract (year, cast (param1, date)) , extract (month, cast (param1, date)) , extract (day, cast (param1, date)))</td>
</tr>
<tr>
<td>number-to-string-real</td>
<td>cast_char (cast_integer (param1))</td>
</tr>
<tr>
<td>octet_length</td>
<td>length (param1)</td>
</tr>
<tr>
<td>position</td>
<td>locate (param1, param2)</td>
</tr>
<tr>
<td>rand</td>
<td>rand (param1)</td>
</tr>
<tr>
<td>repeat</td>
<td>repeat (param1, param2)</td>
</tr>
<tr>
<td>right</td>
<td>right (param1, param2)</td>
</tr>
<tr>
<td>round-down</td>
<td>truncate (parameters)</td>
</tr>
<tr>
<td>smallint</td>
<td>smallint (param1)</td>
</tr>
<tr>
<td>sqrt</td>
<td>sqrt (param1)</td>
</tr>
<tr>
<td>string-to-number</td>
<td>d2_double (param1)</td>
</tr>
<tr>
<td>strip</td>
<td>strip (parameters)</td>
</tr>
<tr>
<td>table_name</td>
<td>table_name (parameters)</td>
</tr>
<tr>
<td>table_schema</td>
<td>table_schema (parameters)</td>
</tr>
<tr>
<td>time</td>
<td>d2_time (param1)</td>
</tr>
<tr>
<td>timestamp</td>
<td>d2_timestamp (param1, param2)</td>
</tr>
<tr>
<td>timestamp_iso</td>
<td>timestamp_iso (param1)</td>
</tr>
<tr>
<td>timestampdiff</td>
<td>timestampdiff (param1, param2)</td>
</tr>
<tr>
<td>translate1</td>
<td>translate (param1)</td>
</tr>
<tr>
<td>translate3</td>
<td>translate (param1, param2, param3)</td>
</tr>
<tr>
<td>translate4</td>
<td>translate (param1, param2, param3, param4)</td>
</tr>
<tr>
<td>trim-leading</td>
<td>ltrim (param1)</td>
</tr>
<tr>
<td>trim-trailing</td>
<td>rtrim (param1)</td>
</tr>
<tr>
<td>truncate</td>
<td>d2_truncate (param1, param2)</td>
</tr>
<tr>
<td>ucase</td>
<td>ucase (param1)</td>
</tr>
<tr>
<td>upshift</td>
<td>upper (param1)</td>
</tr>
<tr>
<td>value</td>
<td>value (parameters)</td>
</tr>
<tr>
<td>varchar</td>
<td>d2_varchar (parameters)</td>
</tr>
<tr>
<td>varchar_AS400</td>
<td>d2400_varchar (parameters)</td>
</tr>
<tr>
<td>year-of-ymd-interval</td>
<td>extract (year, cast (param1, date))</td>
</tr>
<tr>
<td>Impromptu function</td>
<td>IBM Cognos BI expression</td>
</tr>
<tr>
<td>--------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>arccos</td>
<td>ACOS( param1 )</td>
</tr>
<tr>
<td>arcsin</td>
<td>ASIN( param1 )</td>
</tr>
<tr>
<td>arctan</td>
<td>ATAN( param1 )</td>
</tr>
<tr>
<td>arctan2</td>
<td>ATAN2( param2, param1 )</td>
</tr>
<tr>
<td>char_length</td>
<td>CHAR_LENGTH( param1 )</td>
</tr>
<tr>
<td>cos</td>
<td>COS( param1 )</td>
</tr>
<tr>
<td>date-to-datetime</td>
<td>EXTEND( param1 )</td>
</tr>
<tr>
<td>date-to-string</td>
<td>to_char( param1, '%Y-%m-%d' )</td>
</tr>
<tr>
<td>datetime-to-date</td>
<td>DATE( param1 )</td>
</tr>
<tr>
<td>dayofweek</td>
<td>WEEKDAY( param1 ) + 1</td>
</tr>
<tr>
<td>decode</td>
<td>decode( parameters )</td>
</tr>
<tr>
<td>exp</td>
<td>EXP( param1 )</td>
</tr>
<tr>
<td>if_dayofweek</td>
<td>WEEKDAY( param1 )</td>
</tr>
<tr>
<td>if_length</td>
<td>LENGTH( param1 )</td>
</tr>
<tr>
<td>if_substring</td>
<td>ARRAY_SUBSTR( param1, param2, param3 )</td>
</tr>
<tr>
<td>if_truncate</td>
<td>trunc( param1, param2 )</td>
</tr>
<tr>
<td>ifnull-date</td>
<td>nvl( param1, param2 )</td>
</tr>
<tr>
<td>ifnull-datetime</td>
<td>nvl( param1, param2 )</td>
</tr>
<tr>
<td>ifnull-numeric</td>
<td>nvl( param1, param2 )</td>
</tr>
<tr>
<td>ifnull-string</td>
<td>nvl( param1, param2 )</td>
</tr>
<tr>
<td>ifnull-time</td>
<td>nvl( param1, param2 )</td>
</tr>
<tr>
<td>initcap</td>
<td>initcap( param1 )</td>
</tr>
<tr>
<td>log</td>
<td>LOGN( param1 )</td>
</tr>
<tr>
<td>log10</td>
<td>LOG10( param1 )</td>
</tr>
<tr>
<td>lower</td>
<td>downshift( param1 )</td>
</tr>
<tr>
<td>lpad</td>
<td>lpad( parameters )</td>
</tr>
<tr>
<td>number-to-datetime</td>
<td>EXTEND( MDY( (param1 - trunc( param1, -4)) / 100, param1 - trunc( param1, -2), (param1) / 10000 ) )</td>
</tr>
<tr>
<td>octet_length</td>
<td>OCTET_LENGTH( param1 )</td>
</tr>
<tr>
<td>replace</td>
<td>replace( param1, param2, param3 )</td>
</tr>
<tr>
<td>rpad</td>
<td>rpad( parameters )</td>
</tr>
<tr>
<td>sin</td>
<td>SIN( param1 )</td>
</tr>
<tr>
<td>substring</td>
<td>SUBSTRING( param1, param2, param3 )</td>
</tr>
<tr>
<td>tan</td>
<td>TAN( param1 )</td>
</tr>
<tr>
<td>to_date</td>
<td>to_date( param1, param2 )</td>
</tr>
<tr>
<td>upper</td>
<td>upshift( param1 )</td>
</tr>
</tbody>
</table>
### Microsoft SQL Server

<table>
<thead>
<tr>
<th>Impromptu function</th>
<th>IBM Cognos BI expression</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>arctan2</code></td>
<td><code>atn2 (param2, param1)</code></td>
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<td><code>datepart (weekday, param1)</code></td>
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<td><code>degrees (convert (param1))</code></td>
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<td><code>stuff (param1, param2, param3, param4)</code></td>
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### ODBC

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## Impromptu function

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## OLE/DB

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<td>IBM Cognos BI expression</td>
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**Oracle**

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<td><code>TO_CHAR(param1, 'DAY')</code></td>
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<td>IBM Cognos BI expression</td>
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**Oracle 6.x**

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<tr>
<td>period</td>
<td>FLOOR ( DECODE ( SIGN ( dayofyear ( param1 ) - dayofyear ( param2 ) ), 1, dayofyear ( param1 ) - dayofyear ( param2 ), 0, 0, -1, dayofyear ( param1 ) + 365 - dayofyear ( param2 ) ) / ( 365.25 / param3 ) + 1 )</td>
</tr>
<tr>
<td>quarter</td>
<td>TO_NUMBER ( TO_CHAR ( param1, 'Q' ) )</td>
</tr>
<tr>
<td>round-zero</td>
<td>TRUNC ( param1, param2 )</td>
</tr>
<tr>
<td>rpad</td>
<td>RPAD ( param1, param2, param3 )</td>
</tr>
<tr>
<td>space</td>
<td>RPAD (' ', param1 )</td>
</tr>
<tr>
<td>sqrt</td>
<td>SQRT ( param1 )</td>
</tr>
<tr>
<td>trim-leading</td>
<td>LTRIM ( param1 )</td>
</tr>
<tr>
<td>valueforyear</td>
<td>DECODE ( TO_CHAR ( param1, 'YYYY' ), param2, param3 )</td>
</tr>
</tbody>
</table>

**Sybase CT-library**

<table>
<thead>
<tr>
<th>Impromptu function</th>
<th>IBM Cognos BI expression</th>
</tr>
</thead>
<tbody>
<tr>
<td>arctan2</td>
<td>ATN2 ( param2, param1 )</td>
</tr>
<tr>
<td>char</td>
<td>CHAR ( param1 )</td>
</tr>
<tr>
<td>char_length</td>
<td>CHAR_LENGTH ( param1</td>
</tr>
<tr>
<td>database</td>
<td>DB_NAME ( )</td>
</tr>
<tr>
<td>dayname</td>
<td>DATENAME ( weekday, param1 )</td>
</tr>
<tr>
<td>dayofweek</td>
<td>DATEPART ( weekday, param1 )</td>
</tr>
<tr>
<td>degrees</td>
<td>DEGREES ( CONVERT ( param1 ) )</td>
</tr>
<tr>
<td>ifnull-datetime</td>
<td>ISNULL ( param1, param2 )</td>
</tr>
<tr>
<td>ifnull-numeric</td>
<td>ISNULL ( param1, param2 )</td>
</tr>
<tr>
<td>ifnull-string</td>
<td>ISNULL ( param1, param2 )</td>
</tr>
<tr>
<td>insert</td>
<td>STUFF ( param1, param2, param3, param4 )</td>
</tr>
<tr>
<td>lower</td>
<td>LOWER ( param1 )</td>
</tr>
<tr>
<td>Impromptu function</td>
<td>IBM Cognos BI expression</td>
</tr>
<tr>
<td>----------------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>monthname</td>
<td>datename ( month, param1 )</td>
</tr>
<tr>
<td>number-to-datetime</td>
<td>convert ( datetime, convert ( varchar(8), param1 ) )</td>
</tr>
<tr>
<td>octet_length</td>
<td>OCTET_LENGTH ( param1 )</td>
</tr>
<tr>
<td>position</td>
<td>POSITION ( param1, param2 )</td>
</tr>
<tr>
<td>power</td>
<td>power ( convert ( param1, param2 ) )</td>
</tr>
<tr>
<td>quarter</td>
<td>datepart ( quarter, param1 )</td>
</tr>
<tr>
<td>radians</td>
<td>radians ( convert ( param1 ) )</td>
</tr>
<tr>
<td>rand</td>
<td>rand ( param1 )</td>
</tr>
<tr>
<td>repeat</td>
<td>replicate ( param1, param2 )</td>
</tr>
<tr>
<td>right</td>
<td>right ( param1, param2 )</td>
</tr>
<tr>
<td>sqrt</td>
<td>sqrt ( convert ( param1 ) )</td>
</tr>
<tr>
<td>string-to-number</td>
<td>convert ( float(48), param1 )</td>
</tr>
<tr>
<td>substring</td>
<td>SUBSTRING ( param1, param2, param3 )</td>
</tr>
<tr>
<td>sy_char_length</td>
<td>char_length ( param1 )</td>
</tr>
<tr>
<td>sy_months-between</td>
<td>datediff ( month, param1, param2 )</td>
</tr>
<tr>
<td>sy_number-to-string</td>
<td>str ( param1, param2, param3 )</td>
</tr>
<tr>
<td>sy_soundex</td>
<td>soundex ( param1 )</td>
</tr>
<tr>
<td>trim-leading</td>
<td>ltrim ( param1 )</td>
</tr>
<tr>
<td>upper</td>
<td>UPPER ( param1 )</td>
</tr>
</tbody>
</table>

**Sybase MDI Gateway DBC (Teradata)**

<table>
<thead>
<tr>
<th>Impromptu function</th>
<th>IBM Cognos BI expression</th>
</tr>
</thead>
<tbody>
<tr>
<td>char_length</td>
<td>character_length ( param1 )</td>
</tr>
<tr>
<td>date-to-string</td>
<td>date_to_char ( param1 )</td>
</tr>
<tr>
<td>log</td>
<td>ln ( param1 )</td>
</tr>
<tr>
<td>log10</td>
<td>log ( param1 )</td>
</tr>
<tr>
<td>mod</td>
<td>mod ( param1, param2 )</td>
</tr>
<tr>
<td>monthname</td>
<td>td_month_name ( param1 )</td>
</tr>
<tr>
<td>position</td>
<td>charindex ( param2, param1 )</td>
</tr>
<tr>
<td>power</td>
<td>power ( param1, param2 )</td>
</tr>
<tr>
<td>sign</td>
<td>( param1 ) / abs ( param1 )</td>
</tr>
<tr>
<td>sqrt</td>
<td>sqrt ( param1 )</td>
</tr>
</tbody>
</table>

**Sybase MDI Gateway to DB2®**

<table>
<thead>
<tr>
<th>Impromptu function</th>
<th>IBM Cognos BI expression</th>
</tr>
</thead>
<tbody>
<tr>
<td>char_length</td>
<td>datalength ( param1 )</td>
</tr>
<tr>
<td>date-to-string</td>
<td>d2_char ( param1, ISO )</td>
</tr>
<tr>
<td>sy_months-between</td>
<td>( d2_year ( param2 ) - d2_year ( param1 ) ) * 12 ) + d2_month ( param2 ) - d2_month ( param1 )</td>
</tr>
</tbody>
</table>
Sybase MDI gateway to SQL/400

<table>
<thead>
<tr>
<th>Impromptu function</th>
<th>IBM Cognos BI expression</th>
</tr>
</thead>
<tbody>
<tr>
<td>antilog</td>
<td>as_antilog (param1)</td>
</tr>
<tr>
<td>atanh</td>
<td>as_atanh (param1)</td>
</tr>
<tr>
<td>char_length</td>
<td>datalength (param1)</td>
</tr>
<tr>
<td>cosh</td>
<td>as_cosh (param1)</td>
</tr>
<tr>
<td>database</td>
<td>as_CURRENT_SERVER()</td>
</tr>
<tr>
<td>date-to-datetime</td>
<td>as_date_to_timestamp (param1)</td>
</tr>
<tr>
<td>date-to-string</td>
<td>as_char (param1, ISO)</td>
</tr>
<tr>
<td>sinh</td>
<td>as_sinh (param1)</td>
</tr>
<tr>
<td>sqrt</td>
<td>sqrt (param1)</td>
</tr>
<tr>
<td>sy_months-between</td>
<td>(as_year (param2) - as_year (param1)) * 12 + as_month (param2) - as_month (param1)</td>
</tr>
<tr>
<td>tanh</td>
<td>as_tanh (param1)</td>
</tr>
<tr>
<td>trim-leading</td>
<td>as_trim_leading (param1)</td>
</tr>
</tbody>
</table>

Unsupported functions

The following mappings are used if a database-specific mapping cannot be used because a particular function is specific to Impromptu or is not supported in the current target database.

<table>
<thead>
<tr>
<th>Impromptu function</th>
<th>IBM Cognos BI expression</th>
</tr>
</thead>
<tbody>
<tr>
<td>absolute</td>
<td>abs (parameters)</td>
</tr>
<tr>
<td>add-days</td>
<td>_add_days (parameters)</td>
</tr>
<tr>
<td>add-months</td>
<td>_add_months (parameters)</td>
</tr>
<tr>
<td>add-years</td>
<td>_add_years (parameters)</td>
</tr>
<tr>
<td>age</td>
<td>_age (parameters)</td>
</tr>
<tr>
<td></td>
<td>This function returns a different value than Impromptu. For example, the function returns 40,214 instead of 40 years, 2 months, and 14 days.</td>
</tr>
<tr>
<td>arccos</td>
<td>acos (parameters)</td>
</tr>
<tr>
<td>arcsin</td>
<td>asin (parameters)</td>
</tr>
<tr>
<td>arctan</td>
<td>atan (parameters)</td>
</tr>
<tr>
<td>arctan2</td>
<td>atan (param1 / param2)</td>
</tr>
<tr>
<td>ascii-code</td>
<td>ascii (param1)</td>
</tr>
<tr>
<td>ascii-code</td>
<td>ascii (parameters)</td>
</tr>
<tr>
<td>catalog-user-profile</td>
<td>#CSVIdentityName(%ImportedUserClasses param - 1)#</td>
</tr>
<tr>
<td>char2</td>
<td>cast (parameters, char)</td>
</tr>
<tr>
<td>char_db2</td>
<td>cast (parameters, varchar(40))</td>
</tr>
<tr>
<td>char_length</td>
<td>character_length (parameters)</td>
</tr>
<tr>
<td>characters</td>
<td>cast (parameters, varchar(40))</td>
</tr>
<tr>
<td>characters-to-integer</td>
<td>cast (parameters, integer)</td>
</tr>
<tr>
<td>Impromptu function</td>
<td>IBM Cognos BI expression</td>
</tr>
<tr>
<td>--------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>cinteger</td>
<td>cast ( parameters, integer )</td>
</tr>
<tr>
<td>concat</td>
<td>param1 + param2</td>
</tr>
<tr>
<td>cosh</td>
<td>( 0 )</td>
</tr>
<tr>
<td>cotan</td>
<td>cot ( parameters )</td>
</tr>
<tr>
<td>ctot4</td>
<td>( 805306368 )</td>
</tr>
<tr>
<td>curdate</td>
<td>current_date</td>
</tr>
<tr>
<td>curetime</td>
<td>current_time</td>
</tr>
<tr>
<td>current_timestamp</td>
<td>current_timestamp</td>
</tr>
<tr>
<td>database</td>
<td>( 'database' )</td>
</tr>
<tr>
<td>date-to-datetime</td>
<td>_make_timestamp ( extract (year, param1), extract ( month, param1), extract ( day, param1) )</td>
</tr>
<tr>
<td>date-to-days-from-1900</td>
<td>_days_between ( parameters, 1899-12-31 )</td>
</tr>
<tr>
<td>date-to-string</td>
<td>cast ( parameters, char(10) )</td>
</tr>
<tr>
<td>datedaydiff</td>
<td>_days_between ( param2, param1 )</td>
</tr>
<tr>
<td>datetimeto-date</td>
<td>cast ( parameters, date )</td>
</tr>
<tr>
<td>day</td>
<td>extract ( day, param1 )</td>
</tr>
<tr>
<td>dayofyear</td>
<td>_day_of_year ( param1 )</td>
</tr>
<tr>
<td>days-from-1900-to-datetime</td>
<td>_add_days ( 1899-12-31, param1 )</td>
</tr>
<tr>
<td>days-to-end-of-month</td>
<td>_days_to_end_of_month ( cast ( param1, date ) )</td>
</tr>
<tr>
<td>daysint-to-ymdint</td>
<td>( 0 )</td>
</tr>
<tr>
<td>decimal_MVS</td>
<td>decimal ( parameters )</td>
</tr>
<tr>
<td>decrypt</td>
<td>( param1 )</td>
</tr>
<tr>
<td>downshift</td>
<td>lower ( parameters )</td>
</tr>
<tr>
<td>encrypt</td>
<td>( param1 )</td>
</tr>
<tr>
<td>first-of-month</td>
<td>_first_of_month ( parameters )</td>
</tr>
<tr>
<td>Impromptu and IBM Cognos BI may use different database routines for this function, which may lead to different results.</td>
<td></td>
</tr>
<tr>
<td>first-word</td>
<td>if ( position( ' ', param1 ) &gt; 0 ) then ( substring ( param1, 1, position( ' ', param1 ) - 1 ) ) else ( param1 )</td>
</tr>
<tr>
<td>hour</td>
<td>extract ( hour, param1 )</td>
</tr>
<tr>
<td>ifnull-date</td>
<td>if ( param1 is null ) then ( param2 ) else ( param1 )</td>
</tr>
<tr>
<td>ifnull-datetime</td>
<td>if ( param1 is null ) then ( param2 ) else ( param1 )</td>
</tr>
<tr>
<td>ifnull-numeric</td>
<td>if ( param1 is null ) then ( param2 ) else ( param1 )</td>
</tr>
<tr>
<td>ifnull-string</td>
<td>if ( param1 is null ) then ( param2 ) else ( param1 )</td>
</tr>
<tr>
<td>ifnull-time</td>
<td>if ( param1 is null ) then ( param2 ) else ( param1 )</td>
</tr>
<tr>
<td>integer-divide</td>
<td>floor ( param1 / param2 )</td>
</tr>
<tr>
<td>last-of-month</td>
<td>_last_of_month ( parameters )</td>
</tr>
<tr>
<td>left</td>
<td>substring ( param1, 1, param2 )</td>
</tr>
<tr>
<td>make-datetime</td>
<td>_make_timestamp ( parameters )</td>
</tr>
<tr>
<td>Impromptu function</td>
<td>IBM Cognos BI expression</td>
</tr>
<tr>
<td>----------------------------</td>
<td>----------------------------------------------------------------</td>
</tr>
<tr>
<td>minute</td>
<td>extract ( minute, param1 )</td>
</tr>
<tr>
<td>month</td>
<td>extract ( month, param1 )</td>
</tr>
<tr>
<td>month-of-ymd-interval</td>
<td>( 0 )</td>
</tr>
<tr>
<td>monthname</td>
<td>datename ( month, param1 )</td>
</tr>
<tr>
<td>months-between</td>
<td>_months_between ( param2, param1 )</td>
</tr>
<tr>
<td>moving-average</td>
<td>moving-average</td>
</tr>
<tr>
<td></td>
<td>The function in IBM Cognos BI can return a different result</td>
</tr>
<tr>
<td></td>
<td>than in Impromptu. If you specify more rows than are</td>
</tr>
<tr>
<td></td>
<td>available, Impromptu returns null. IBM Cognos BI returns the</td>
</tr>
<tr>
<td></td>
<td>average of the preceding rows that exist.</td>
</tr>
<tr>
<td>now</td>
<td>current_timestamp</td>
</tr>
<tr>
<td>nullif</td>
<td>if ( param1 = param2 ) then ( null ) else ( param1 )</td>
</tr>
<tr>
<td>number-to-characters</td>
<td>cast ( parameters, varchar ( 40 ) )</td>
</tr>
<tr>
<td>number-to-date</td>
<td>cast ( parameters, date )</td>
</tr>
<tr>
<td>number-to-datetime</td>
<td>cast ( param1, date )</td>
</tr>
<tr>
<td>number-to-string</td>
<td>cast ( param1, varchar ( 40 ) )</td>
</tr>
<tr>
<td>number-to-string-real</td>
<td>cast ( parameters, varchar ( 40 ) )</td>
</tr>
<tr>
<td>octet-length</td>
<td>octet-length ( parameters )</td>
</tr>
<tr>
<td>or_ltrim</td>
<td>ltrim ( parameters )</td>
</tr>
<tr>
<td>or_months_between</td>
<td>_months_between ( parameters )</td>
</tr>
<tr>
<td>or_rtrim</td>
<td>rtrim ( parameters )</td>
</tr>
<tr>
<td>or_substr</td>
<td>substr ( parameters )</td>
</tr>
<tr>
<td>or_translate</td>
<td>translate ( parameters )</td>
</tr>
<tr>
<td>pack</td>
<td>( param1 )</td>
</tr>
<tr>
<td>partition</td>
<td>( 'partition' )</td>
</tr>
<tr>
<td>pi</td>
<td>( 3.141592653589793238462643 )</td>
</tr>
<tr>
<td>pre50-months-between</td>
<td>_months_between ( parameters )</td>
</tr>
<tr>
<td>pre50-years-between</td>
<td>_years_between ( parameters )</td>
</tr>
<tr>
<td>repeat</td>
<td>replicate ( parameters )</td>
</tr>
<tr>
<td>reverse</td>
<td>( param1 )</td>
</tr>
<tr>
<td>right</td>
<td>substring ( param1, character_length ( param1 ) - param2 + 1 , param2 )</td>
</tr>
<tr>
<td>round-down</td>
<td>_round ( parameters )</td>
</tr>
<tr>
<td></td>
<td>Values calculated using the round-down function in Impromptu</td>
</tr>
<tr>
<td></td>
<td>may be different in reports migrated to IBM Cognos BI. Also,</td>
</tr>
<tr>
<td></td>
<td>for the Impromptu function, if the value of the integer_exp</td>
</tr>
<tr>
<td></td>
<td>parameter is negative, the function rounds the digits to the</td>
</tr>
<tr>
<td></td>
<td>left of the decimal point. Because a negative integer is not a</td>
</tr>
<tr>
<td></td>
<td>valid value for the integer_exp parameter of the IBM Cognos BI</td>
</tr>
<tr>
<td></td>
<td>function, an error message displays when the report is run.</td>
</tr>
<tr>
<td>round-near</td>
<td>_round ( parameters )</td>
</tr>
<tr>
<td>Impromptu function</td>
<td>IBM Cognos BI expression</td>
</tr>
<tr>
<td>--------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>round-up</td>
<td>_round ( parameters )</td>
</tr>
<tr>
<td>round-zero</td>
<td>_round ( parameters )</td>
</tr>
<tr>
<td>second</td>
<td>extract ( second, param1 )</td>
</tr>
<tr>
<td>sound-of</td>
<td>soundex ( parameters )</td>
</tr>
<tr>
<td>spread</td>
<td>( param1 )</td>
</tr>
<tr>
<td>string-to-integer</td>
<td>cast ( parameters, integer )</td>
</tr>
<tr>
<td>string-to-number</td>
<td>cast ( parameters, float )</td>
</tr>
<tr>
<td>strip</td>
<td>trim( CASE param2 WHEN 'T' THEN 'TRAILING' ) WHEN 'I' THEN 'LEADING' WHEN 'B' THEN ALL END, param3, param1 )</td>
</tr>
<tr>
<td>substitute</td>
<td>( param1 )</td>
</tr>
<tr>
<td>time-to-zero</td>
<td>cast ( cast ( param1 , date ) , timestamp )</td>
</tr>
<tr>
<td>today</td>
<td>current_date</td>
</tr>
<tr>
<td>translate1</td>
<td>translate ( parameters )</td>
</tr>
<tr>
<td>translate2</td>
<td>translate ( parameters )</td>
</tr>
<tr>
<td>translate3</td>
<td>translate ( parameters )</td>
</tr>
<tr>
<td>trim-leading</td>
<td>trim ( leading , param1 )</td>
</tr>
<tr>
<td>trim-trailing</td>
<td>trim ( trailing , param1 )</td>
</tr>
<tr>
<td>trunc-date</td>
<td>trunc ( parameters )</td>
</tr>
<tr>
<td>user</td>
<td>( 'USER' )</td>
</tr>
<tr>
<td>user-classes</td>
<td>#CSVIdentityName (%ImportedUserClasses param-1)#</td>
</tr>
<tr>
<td>user-name</td>
<td>#sq ($account.personalInfo.userName )#</td>
</tr>
<tr>
<td>varchar_as400</td>
<td>cast ( parameters, varchar( 40 ) )</td>
</tr>
<tr>
<td>week</td>
<td>_week_of_year ( param1 )</td>
</tr>
<tr>
<td>year</td>
<td>extract ( year, param1 )</td>
</tr>
<tr>
<td>year-of-ymd-interval</td>
<td>( 0 )</td>
</tr>
<tr>
<td>years-between</td>
<td>_years_between ( param1, param2 )</td>
</tr>
<tr>
<td>ymdint-between</td>
<td>_ymdint_between ( parameters )</td>
</tr>
<tr>
<td></td>
<td>This function does not return the same result in IBM Cognos BI. Replace instances of this function in migrated reports with the expression datetime_exp1 - (datetime_exp2) and then format the result as interval to show the value in days.</td>
</tr>
<tr>
<td>ymdint-to-daysint</td>
<td>( param1 )</td>
</tr>
</tbody>
</table>

**Tokens not migrated**

The following expression tokens are not migrated.

<table>
<thead>
<tr>
<th>ARGPLACEHOLDER</th>
<th>CEXPRHOLDER</th>
<th>COLUMNREF</th>
<th>CONSTUSERCLASS</th>
</tr>
</thead>
</table>
The migration process does not migrate external user-defined functions (UDFs). If an IBM Cognos Series 7 Impromptu expression references an external UDF, the IBM Cognos Framework Manager expression includes a literal copy of the Impromptu reference syntax.

The information in this section will help you understand the mapping of objects when migrating IBM Cognos Series 7 Impromptu metadata models (catalogs) from IBM Cognos Series 7 to IBM Cognos Business Intelligence.

The information in this section will help you understand the mapping of objects when migrating IBM Cognos Series 7 Impromptu reports to IBM Cognos Business Intelligence. You can migrate Impromptu reports to IBM Cognos Report Studio only.

After you migrate and deploy a report to IBM Cognos Business Intelligence, date/time functions return incorrect results.
Chapter 12. PowerPlay mapping

The information in this section will help you understand the mapping of objects when migrating IBM Cognos Series 7 PowerPlay reports to IBM Cognos Analysis Studio or IBM Cognos Report Studio. If a feature or functionality is not mentioned, an equivalent is available in IBM Cognos Business Intelligence.

PowerPlay Client reports are migrated using the following rules:
- Reporter reports are migrated according to PowerPlay Client behavior.
- Explorer reports are migrated according to PowerPlay Web behavior.

Analysis Studio and Report Studio are different from PowerPlay. To ensure a successful migration, take the time necessary to learn Analysis Studio and Report Studio before migrating PowerPlay reports.

Report Structure Mappings

Most report structure features are preserved or mapped to an equivalent element.

The following tables include information about report structures that are and are not migrated. Some migrated report structures may cause unexpected results. The migration log file includes information about any changes or errors in the report structure.

### Indented Layout for Crosstab Displays

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not migrated</td>
<td>Not migrated</td>
</tr>
<tr>
<td>Users can reproduce the indented layout in Report Studio.</td>
<td></td>
</tr>
</tbody>
</table>

### Layers

<table>
<thead>
<tr>
<th>Report Studio</th>
<th>Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partially migrated</td>
<td>Not migrated including related settings such as Show Values As % of Layer Total</td>
</tr>
</tbody>
</table>

### Nested Charts

<table>
<thead>
<tr>
<th>Report Studio</th>
<th>Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Migrated</td>
<td>Not migrated</td>
</tr>
</tbody>
</table>
Layers

Layers in IBM Cognos PowerPlay Client reports are migrated to IBM Cognos Report Studio with some restrictions. Each layer is migrated to a page group within a page set that has a defined master-detail link. If layers are built by members from nested levels, multiple page groups are created within the page set. For example, the layer “Canada.Toronto” is migrated to two page groups, one for Countries and Regions and the other for Cities.

If layers are built using multiple hierarchies and dimensions, multiple page sets are created. Each page set contains a copy of the report page and its own page groups.

When you run the migrated report, clicking **Page Up** and **Page Down** corresponds to viewing the different layers.

Layers in charts are also migrated. If a chart has layers as well as different displays, the displays appear in each layer in the migrated report. For example, if a chart has three layers and 24 displays, the migrated report contains three pages and each page contains 24 displays.

The following restrictions exist when migrating layers:

- For layers built using members that are from the same dimension but from different hierarchies, and have the same caption in the cube, migration processes only members that are in the primary hierarchy.
- Calculation layers are dropped during migration, because Report Studio page sets do not support a grouping on a calculation.
- Layers built using multilevel subsets are not migrated, because IBM Cognos Business Intelligence does not currently support them.
  
  Only subsets created with a single level and with layers that are later applied to different members of the subset are migrated.
- The order of layers is not always maintained in the migrated report.
  
  It is sometimes necessary to reorganize layers in order to improve performance in the migrated report. This usually applies to Reporter mode reports when there are categories from the same hierarchy. In general, the categories are adjacent to one another.
- Layers built using measures are dropped after migration, because IBM Cognos BI does not support page groups built using measures.
- The current layer is automatically reset to the first layer when you drill up or drill down. To return to the page that you were on, click **Page Up** or **Page Down**.
- Summary layers are dropped if multiple page groups are created.
- If layers and a filter share the same dimension, only layers from the same dimension are migrated. The filter is not migrated.
- Colors used for different layers in charts are not migrated.
  
  The information about colors is stored as default values. PowerPlay default values are not migrated.

**Tip:** You can choose the color of each layer in the migrated report by specifying a conditional palette for the chart.
Related concepts

“Graphical Display Mappings” on page 146
If customized graphical displays are an important component of your IBM Cognos Series 7 PowerPlay report set, we recommend that you migrate the reports to IBM Cognos Report Studio.

“Report Formatting Mappings” on page 143
Report formatting is not available in IBM Cognos Analysis Studio. To preserve report formatting, specify IBM Cognos Report Studio as the target application.

Report Functionality Mappings

IBM Cognos Series 7 PowerPlay report functionality is preserved when equivalent or similar functionality is available in IBM Cognos Report Studio or IBM Cognos Analysis Studio.

The following tables include information about how report functionality is mapped to Report Studio or Analysis Studio. If report functionality does not map to Report Studio or Analysis Studio, the specific functionality is dropped from the migrated report. Depending on the structure of the report, dropping a feature can have a significant impact on how the report appears in Report Studio or Analysis Studio. You may be able to recreate the same or similar functionality using Report Studio or Analysis Studio.

The migration log file will include information about changes or errors in report functionality.

80/20 Suppression

80/20 suppression is not migrated.

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not migrated</td>
<td>Not migrated</td>
</tr>
<tr>
<td></td>
<td>Open the migrated report in Analysis Studio and use top or bottom filtering to achieve similar results.</td>
</tr>
</tbody>
</table>

Bookmarks

Bookmarks are not migrated.

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not migrated</td>
<td>Not migrated</td>
</tr>
<tr>
<td></td>
<td>Bookmarks are encoded URLs, and the migration tools migrate only saved reports. To migrate bookmarked content, open the bookmark, save the target as a PowerPlay Web report, and then migrate the .ppx file.</td>
</tr>
</tbody>
</table>
Automatic Exception Highlighting

Automatic exception highlighting is not migrated.

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not migrated</td>
<td>Not migrated</td>
</tr>
</tbody>
</table>

Custom Exception Definitions and Formatting

Custom exception definitions and formatting are migrated only to IBM Cognos Report Studio.

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Migrated</td>
<td>Not migrated</td>
</tr>
</tbody>
</table>

A single report variable is created that contains all of the information regarding where to apply the exceptions and formatting, the style to be used for each one of them, and the conditions that trigger each style. If an exception and formatting are applied to the same row or column, the exception takes precedence.

The following limitations apply for migrating custom exception definitions and formatting:

- Only solid background patterns are migrated.
- Shared custom exception definitions are not migrated.
- Custom exceptions based on values of another category are not migrated, and a message is generated in the log file. Because these custom exceptions are dropped, any regular formatting applied to the report is shown, unless the formatting is overridden by other exception definitions.
- Formatting applied to nested measures or subsets of measures is lost in migrated reports.
- If three or more different formats are applied to a cell in a report, some of the formats may be lost after migration.
Related concepts

“Shared custom exception definitions not applied in migrated PowerPlay reports” on page 192

In IBM Cognos Series 7 PowerPlay, shared custom exception definitions are applied at runtime. Because the migration process only migrates saved report specifications, shared custom exception definitions are not migrated.

“Report Formatting Mappings” on page 143

Report formatting is not available in IBM Cognos Analysis Studio. To preserve report formatting, specify IBM Cognos Report Studio as the target application.

Zero Suppression

Zero suppression is partially migrated.

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Migrated</td>
<td>Partially migrated</td>
</tr>
</tbody>
</table>

Report Studio

In PowerPlay, a calculation such as a RANK is performed after suppression. This means that only the values remaining after suppression are ranked.

In IBM Cognos Business Intelligence, all calculations, including things such as RANK values, are performed before suppression is applied. The result is that the rank ordinals, which are non-null, effectively disable suppression.

Analysis Studio

Analysis Studio can apply different types of zero or null suppression. For more information, see the Analysis Studio User Guide.

If you migrate a PowerPlay report to Analysis Studio, ensure that the zero and null suppression meets expectations. If necessary, use the zero and null value suppression options in Analysis Studio to achieve the required results. Note that in Analysis Studio, you can turn zero suppression on or off regardless of whether zero suppression was on or off in the original PowerPlay report.

Related concepts

“Extra or missing rows and columns in migrated PowerPlay Reports” on page 186

If you migrate an IBM Cognos Series 7 PowerPlay report that has zero suppression turned on, you may see extra rows and columns or, conversely, some rows and columns in the PowerPlay report do not display in the migrated report.

Advanced Subsets

Advanced subsets are migrated.

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Migrated</td>
<td>Migrated</td>
</tr>
</tbody>
</table>

Advanced subsets in IBM Cognos Series 7 PowerPlay Client reports are migrated with some restrictions. Data items are created for each advanced subset that is
migrated. The number of data items that is created depends on the number of levels in the advanced subset. The following advanced subset features are not migrated:

- Find a name using a wildcard pattern for advanced subset definitions with restriction by name or description.
- Advanced subset as a layer.
- Calculations that reference items that are not in the report.
  The calculations are dropped if the report is migrated to Analysis Studio.
- Find a name across more than one hierarchy.
  Such subsets are removed during migration.

However, custom exceptions applied to an advanced subset that is not migrated may still appear in the migrated report.

Related concepts

“Custom Exception Definitions and Formatting” on page 136
Custom exception definitions and formatting are migrated only to IBM Cognos Report Studio.

Custom Subsets (PowerPlay Web Reports Only)

Custom subsets are migrated.

<table>
<thead>
<tr>
<th></th>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Migrated</td>
<td>Migrated</td>
<td></td>
</tr>
</tbody>
</table>

Parentage Subsets

Parentage subsets are migrated.

<table>
<thead>
<tr>
<th></th>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Migrated</td>
<td>Migrated</td>
<td></td>
</tr>
</tbody>
</table>

The migration process creates one or two data items for each parentage subset, depending on the option clicked in the Qualifier box in the Parentage Subset dialog box.  
**Note:** In multilevel parentage subsets, if all members of a lower level are hidden, the parent remains. For more information, see “Hidden Child Levels” on page 159.

Find Subsets

Find subsets in IBM Cognos Series 7 PowerPlay Client reports are partially migrated.

<table>
<thead>
<tr>
<th></th>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partially migrated</td>
<td>Partially migrated</td>
<td></td>
</tr>
</tbody>
</table>
A data item is created for each find subset that is migrated. The following find subset features are not migrated.

- Find a string from all dimensions and from a report.
  Such find subsets are removed during migration.
- Find a string from all measures or one measure.
  Such find subsets are removed during migration.
- Find a string using a wildcard pattern.
  The long name of the category is searched instead.
- Calculations that have find subsets may be dropped.
- If the data source is Oracle Essbase, find a string using the category description is not migrated.
  IBM Cognos Business Intelligence studios use the member comment field as the description. PowerPlay uses the member name field as the description. The member name field is used in IBM Cognos BI as the member caption property.

### Forecast Calculations

Forecast calculations are not migrated.

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not migrated</td>
<td>Not migrated</td>
</tr>
</tbody>
</table>

### Cumulative Percent of Base Calculations

Cumulative percent of base calculations are not migrated.

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not migrated</td>
<td>Not migrated</td>
</tr>
</tbody>
</table>

### Percent of Base Calculations

Percent of base calculations are not migrated.

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not migrated</td>
<td>Not migrated</td>
</tr>
</tbody>
</table>

### Accumulate Calculations

Accumulate calculations are not migrated.

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not migrated</td>
<td>Not migrated</td>
</tr>
</tbody>
</table>
### Median Calculations (PowerPlay Web Reports Only)
Median calculations are migrated.

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Migrated</td>
<td>Migrated</td>
</tr>
</tbody>
</table>

### Percentile Calculations (PowerPlay Web Reports Only)
Percentile calculations are migrated.

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Migrated</td>
<td>Migrated</td>
</tr>
</tbody>
</table>

### Calculations Across Dimensions or Hierarchies
In IBM Cognos Series 7 PowerPlay, you can create a calculation based on categories from different dimensions, or from different hierarchies of the same dimension. Such calculations are not migrated.

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not migrated</td>
<td>Not migrated</td>
</tr>
<tr>
<td>You cannot create calculations between dimensions in Report Studio.</td>
<td>You cannot create calculations between hierarchies or dimensions in Analysis Studio. You may be able to achieve the desired results using an alternate hierarchy.</td>
</tr>
</tbody>
</table>

### Ranking Across Dimensions or Hierarchies
Ranking across dimensions or hierarchies is not migrated.

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not migrated</td>
<td>Not migrated</td>
</tr>
</tbody>
</table>
When you migrate an IBM Cognos Series 7 PowerPlay for Windows report that contains ranking, the rank values may be different in IBM Cognos Business Intelligence.

### Rank Calculations

Rank calculations are migrated.

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Migrated</td>
<td>Migrated</td>
</tr>
<tr>
<td>All rank values are migrated, even if a rank is defined to show only the top or bottom ordinals.</td>
<td>All rank values are migrated, even if a rank is defined to show only the top or bottom ordinals.</td>
</tr>
<tr>
<td>Zeros appear when ranking measures that have the currency set to a currency other than the default currency.</td>
<td>Zeros appear when ranking measures that have the currency set to a currency other than the default currency.</td>
</tr>
</tbody>
</table>

### Calculations Based on Hidden Categories

In IBM Cognos Series 7 PowerPlay, a report can show the results of a calculation based on categories that are hidden. Such calculations are migrated.

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Migrated</td>
<td>Migrated</td>
</tr>
</tbody>
</table>

### Calculations in Lower Levels of Single Dimension Nesting

In IBM Cognos Series 7 PowerPlay, you can create a calculation using nested levels in the same dimension. The calculation will appear in the same dimension. Such calculations are migrated only to IBM Cognos Report Studio.

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Migrated</td>
<td>Not migrated</td>
</tr>
<tr>
<td>The calculation will appear nested at the same level in all dimensions.</td>
<td></td>
</tr>
</tbody>
</table>

### Calculations with Operands from Ragged Hierarchies

Calculations with operands from ragged hierarchies are not migrated.

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not migrated</td>
<td>Not migrated</td>
</tr>
</tbody>
</table>
Calculation Override Precedence

Calculation override precedence is not migrated.

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not migrated</td>
<td>Not migrated</td>
</tr>
<tr>
<td>To specify calculation override precedence in a migrated report, set the Solve Order property.</td>
<td></td>
</tr>
</tbody>
</table>

Show Values as % Settings

Show values as % settings are partially migrated.

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Migrated except for Show Values as % of Layer Total and Show Values as % setting applied to measures used in row or column axis.</td>
<td>Migrated except for Show Values as % of Layer Total and Show Values as % setting applied to measures used in row or column axis.</td>
</tr>
</tbody>
</table>

Prompts

Prompts are partially migrated to IBM Cognos Report Studio. The prompt options zero suppression, swap rows and columns, long/short category names, and currency are not supported.

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partially migrated</td>
<td>Not migrated</td>
</tr>
</tbody>
</table>

Dimension prompts, with the exception of the Measures dimension, are supported. They are migrated to tree prompts in Report Studio. Because IBM Cognos Business Intelligence does not support prompts on measures, when the report is run, data is returned for the default measure specified in the IBM Cognos Series 7 PowerPlay report. The following limitations exist with tree prompts.

- You can browse only one hierarchy.
- There is no default selection for an unfiltered dimension. Consequently, users will often have to select one or more prompt values when they run the report.
- In IBM Cognos BI, prompt values may not affect the report edges in the same manner as in PowerPlay. The extent of the effect depends on the content of the report and the prompt values selected.

Prompts for Alternate Drill Paths

Prompts for alternate drill paths are not migrated.

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not migrated</td>
<td>Not migrated</td>
</tr>
</tbody>
</table>
**Intersect Categories**

Intersect categories are migrated only to IBM Cognos Report Studio.

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Migrated</td>
<td>Not migrated</td>
</tr>
<tr>
<td>The migration process creates data items that use the tuple function.</td>
<td></td>
</tr>
</tbody>
</table>

**Hidden Members from Ragged Hierarchies**

Hidden members from ragged hierarchies are migrated.

<table>
<thead>
<tr>
<th>IBM Cognos Report Studio</th>
<th>IBM Cognos Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Migrated</td>
<td>Migrated</td>
</tr>
<tr>
<td>Hidden members are visible following migration.</td>
<td>Hidden members are visible following migration.</td>
</tr>
</tbody>
</table>

**Time-state Rollup Values**

In IBM Cognos 8 version 8.3 and later versions, time-state rollup values are computed differently than in IBM Cognos Series 7 and previous versions of IBM Cognos 8. Consequently, reports migrated to IBM Cognos 8 version 8.4 or IBM Cognos Business Intelligence 10.1.0 show different values for time-state rollups.

For example, an IBM Cognos Series 7 PowerPlay report has Quarters in the rows and Product line in the columns. The report has a time-state measure with SUM as the regular rollup function and with MINIMUM as the time-state rollup function.

In IBM Cognos Series 7 and IBM Cognos 8 version 8.2 and earlier, for each quarter, the time-state rollup is computed by calculating each column’s minimum value among the three months of the quarter, and then calculating the sum of those minimum values.

In IBM Cognos 8 version 8.3 and later versions, for each quarter, the time-state rollup is computed by calculating the sum of all columns in each month of the quarter, and then calculating the minimum value among those sums.

**Report Formatting Mappings**

Report formatting is not available in IBM Cognos Analysis Studio. To preserve report formatting, specify IBM Cognos Report Studio as the target application.

Report Studio supports many of the report formats used in IBM Cognos Series 7 PowerPlay reports, as well as providing many more formatting options. The migration log file includes information about any changes or errors in report formatting.

PowerPlay default values are not migrated to IBM Cognos Business Intelligence. Instead, PowerPlay default values are substituted with IBM Cognos BI default values in migrated reports. If you want to migrate a PowerPlay default value,
apply the default value to the object that you want in the report before migrating. For example, if you migrate a report that contains currency values, the default currency format is not migrated. If you want the values in the migrated report to have the default currency format, apply the currency format to the values in the PowerPlay report.

Tip: You can also set default values in IBM Cognos BI. Consequently, you can specify the same default values in IBM Cognos BI that exist in PowerPlay.

Fonts and Colors

Font and color information is not migrated to Analysis Studio.

Long and Short Names

Only long names are migrated to Report Studio and Analysis Studio.

Titles, Headers, and Footers

Report Studio supports most title, header, and footer formats, including font, alignment, and color options. If Analysis Studio is the target application, titles appear in plain text and other formatting is dropped.

When possible, migration processing maps a variable to an equivalent Report Studio report expression.

In PowerPlay, a report can have only one cube associated to it at a time. In IBM Cognos BI, a report can reference multiple packages. As a result, some report expressions have a parameter named dimension. In these expressions, migration processing takes one of the non-measure dimensions queried from IBM Cognos BI as the dimension parameter.

<table>
<thead>
<tr>
<th>PowerPlay variable</th>
<th>Report Studio report expression</th>
</tr>
</thead>
<tbody>
<tr>
<td>report file name</td>
<td>ReportName()</td>
</tr>
<tr>
<td>report file date</td>
<td>ReportSaveDate()</td>
</tr>
<tr>
<td>report file time</td>
<td>AsOfTime()</td>
</tr>
<tr>
<td>MDC file name</td>
<td>ModelPath()</td>
</tr>
<tr>
<td>MDC file date</td>
<td>timestamp2date(CubeDataUpdatedOn(dimension))</td>
</tr>
</tbody>
</table>

In PowerPlay, MDC file date and time can have different formats, such as m/d/yyyy, dd-mmm-yyyy, h:mm:ss, and h:mm:ss. In IBM Cognos BI, the default format for date is Sep 30, 2004 and for time HH:MM:SS.FFFFFF. If you use a format other than the default when you migrate this variable, you will be notified that the specific format may not be migrated and that the default IBM Cognos BI format will be used.
<table>
<thead>
<tr>
<th>PowerPlay variable</th>
<th>Report Studio report expression</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDC file time</td>
<td>substring(timestamp2string(CubeDataUpdatedOn(dimension)), 11,-1)</td>
</tr>
<tr>
<td></td>
<td>In PowerPlay, MDC file date and time can have different formats, such as m/d/yyyy, dd-mmm-yyyy, h:mm:ss, and hh:mm:ss. In IBM Cognos BI, the default format for date is Sep 30, 2004 and for time HH:MM:SS.FFFFFF. If you use a format other than the default when you migrate this variable, you will be notified that the specific format may not be migrated and that the default IBM Cognos BI format will be used.</td>
</tr>
<tr>
<td>MDC description</td>
<td>CubeDescription(dimension)</td>
</tr>
<tr>
<td>current default measure</td>
<td>CubeDefaultMeasure(dimension)</td>
</tr>
<tr>
<td></td>
<td>In PowerPlay, the current default measure variable returns the current default measure of the crosstab report. In IBM Cognos BI, the CubeDefaultMeasure(dimension) expression returns the default measure of the cube. Consequently, the results in IBM Cognos BI may be different. In such cases, a warning message is generated in the log file.</td>
</tr>
<tr>
<td>current default period</td>
<td>Current Period(dimension)</td>
</tr>
<tr>
<td>current default row</td>
<td>RowNumber()</td>
</tr>
<tr>
<td>current default column</td>
<td>no equivalent report expression</td>
</tr>
<tr>
<td>current default layer</td>
<td>no equivalent report expression</td>
</tr>
<tr>
<td>user name</td>
<td>migrated as text</td>
</tr>
<tr>
<td>company name</td>
<td>migrated as text</td>
</tr>
<tr>
<td>current date</td>
<td>Today()</td>
</tr>
<tr>
<td>current time</td>
<td>Now()</td>
</tr>
<tr>
<td>page number</td>
<td>PageNumber()</td>
</tr>
<tr>
<td>layer display reference</td>
<td>no equivalent report expression</td>
</tr>
<tr>
<td>report layer reference</td>
<td>no equivalent report expression</td>
</tr>
<tr>
<td>dimension line</td>
<td>no equivalent report expression</td>
</tr>
<tr>
<td>individual dimensions</td>
<td>no equivalent report expression</td>
</tr>
</tbody>
</table>

If a variable is not migrated, when you open the report, the report may include text that indicates that a title, header, or footer object was not migrated.
Pictures (Linked or Embedded)

Because of differences between source and target applications, pictures are not migrated.

Report Studio supports the use of pictures in reports. You can add pictures to the migrated report in Report Studio.

Analysis Studio does not support the use of pictures in reports.

Background Patterns

Analysis Studio does not support background patterns. Report Studio supports only solid background patterns. All patterns are migrated to solid background colors. If both a background and foreground pattern are specified, the background pattern is migrated as the background color. If only a background or foreground pattern is specified, the pattern is migrated as the background color.

Row and Column Sizes

Because of differences between the source and target applications, specific row and column sizes are not migrated. If necessary, you can adjust row and column sizes in the target applications after the migration.

PowerPlay Client Display Options

The display options available from the Format, Display Options, and General tabs in PowerPlay Client are not migrated. This includes settings for summary options, gridline options, and word wrap.

Missing Values

In PowerPlay, you can specify 'na', 0, or default value for missing values, where default value can be set to either 'na' or 0. In migrated reports that use default value for missing values, only 0 is used.

Tip: In Report Studio, you can specify the characters used for missing values in the Missing Value Characters property in the Default Data Formats dialog box.

Related concepts

"Migrated PowerPlay report error message: Using generic mapping for variable" on page 187
This message indicates that a variable in a title, header, or footer in a migrated report may not retain its original meaning because of generic mapping. Consequently, the results may not be correct.

"Migrated PowerPlay report error message: The following variable is not supported" on page 188
This message indicates that a variable in a title, header, or footer in a migrated report may not retain its original meaning because it is not supported. Consequently, the results may not be correct.

Graphical Display Mappings

If customized graphical displays are an important component of your IBM Cognos Series 7 PowerPlay report set, we recommend that you migrate the reports to IBM Cognos Report Studio.
Report Studio is designed to help you create standard and complex reports and includes more report formatting options than IBM Cognos Analysis Studio. Analysis Studio is designed to help you explore and analyze data. You will not be able to replicate many graphical display formatting options if you migrate the reports to Analysis Studio.

All types of PowerPlay graphical displays map to IBM Cognos Business Intelligence charts. Because IBM Cognos BI supports a larger variety of chart types, there are some differences in terminology for the same chart between IBM Cognos Series 7 and IBM Cognos BI. For example, an IBM Cognos Series 7 simple bar chart maps to an IBM Cognos BI standard column chart. Both charts use vertical data markers. In IBM Cognos BI, a bar chart refers to a chart with horizontal data markers.

After you migrate reports that include charts, you may have to adjust some objects in the report. Common adjustments include chart size and font size for labels.

In addition, in PowerPlay, statistical lines for minimum, maximum, and mean apply to a single data item in the legend. Consequently, you can show these statistical lines for other data items. In IBM Cognos BI charts, statistical lines apply to all data items in the chart legend.

Like layers, graphical displays are migrated to page groups and page sets. When you run the migrated report, click the Page Up and Page Down links to view the different displays. For example, if a chart has 24 displays, you must click Page Down 24 times to view all displays.

However, if both layers and graphical displays exist in a chart report, the layers are migrated to page groups and page sets, and the displays are migrated to each layer. For example, if a chart has three layers and 24 displays, the migrated report contains three pages and each page contains 24 displays.

The following differences exist when migrating graphical displays:
- Displays built using measures, calculations, or subsets are not migrated.
- For displays built using alternative hierarchies of members, migration only processes displays in the primary hierarchy.

Related concepts
“Differences Between PowerPlay and IBM Cognos Analysis Studio” on page 154
This section describes differences when IBM Cognos Series 7 PowerPlay Web or PowerPlay client reports are migrated to Analysis Studio.

Graphical Display Options
The following tables describe how graphical display options map from IBM Cognos Series 7 PowerPlay to IBM Cognos Report Studio or IBM Cognos Analysis Studio.

If a graphical display option does not map to IBM Cognos Business Intelligence, the option is dropped from the migrated report and a warning message is added to the log file.

In migrated charts, there may be slight differences in axis label values. PowerPlay calculates axis values by rounding each individual value. In Report Studio, the Scale Interval property is used to calculate axis values. The migration process
calculates the scale interval and then rounds it. For example, 3777.77 is rounded to 3778. Starting with the minimum value, all axis values are then increased by 3778.

### Pie Charts

<table>
<thead>
<tr>
<th>Report Studio</th>
<th>Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>All display options except tilt angle and rotation direction and angle are migrated.</td>
<td>Display options are not migrated.</td>
</tr>
<tr>
<td>For pie charts created in IBM Cognos Series 7 PowerPlay Web 7.4, labels and values are migrated if both are specified, and they will appear on or outside the slices.</td>
<td></td>
</tr>
</tbody>
</table>

### 3D Bar Charts

<table>
<thead>
<tr>
<th>Report Studio</th>
<th>Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>All display options except the following are migrated:</td>
<td>Display options are not migrated.</td>
</tr>
<tr>
<td>3D View Tool settings.</td>
<td></td>
</tr>
<tr>
<td>There may be slight differences in the primary axis if the axis scale is set to From the lowest value.</td>
<td></td>
</tr>
<tr>
<td>The picture background style and related settings.</td>
<td></td>
</tr>
<tr>
<td>Autofit labels settings for axis titles.</td>
<td></td>
</tr>
</tbody>
</table>

### Simple Bar Charts

<table>
<thead>
<tr>
<th>Report Studio</th>
<th>Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simple bar charts are migrated to standard column charts.</td>
<td>Simple bar charts are migrated to standard column chart</td>
</tr>
<tr>
<td>Simple bar charts with the Horizontal orientation setting are migrated to standard bar charts.</td>
<td>Simple bar charts with the Horizontal orientation setting are migrated to standard bar charts.</td>
</tr>
</tbody>
</table>
### Report Studio

All display options except the following are migrated:
- The **Autofit labels** setting for axis titles.
- The **Autofit labels** setting for values on bars.
- Font settings for values on bars.
- The **Bar spacing** setting.
- The picture background style and related settings.
- The **Show ties** setting. You cannot hide ties in Report Studio.
- There may be slight differences in the primary axis if the axis scale is set to *From the lowest value*.
- The **Word wrap** setting for column labels.
- All scrolling options.
- Standard deviation, logarithmic regression, and linear regression statistical lines.

### Analysis Studio

The **Depth** setting, and the **Show** setting for **Values on bars** are migrated. Other display options are not migrated.

### Clustered Bar Charts

<table>
<thead>
<tr>
<th>Report Studio</th>
<th>Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>All display options except the following are migrated:</td>
<td>The <strong>Depth</strong> setting, and the <strong>Show</strong> setting for <strong>Values on bars</strong> are migrated. Other display options are not migrated.</td>
</tr>
<tr>
<td>The <strong>Autofit labels</strong> setting for column labels.</td>
<td></td>
</tr>
<tr>
<td><strong>Autofit labels</strong> settings for axis titles.</td>
<td></td>
</tr>
<tr>
<td>Font settings for values on bars.</td>
<td></td>
</tr>
<tr>
<td>The picture background style and related settings.</td>
<td></td>
</tr>
<tr>
<td>There may be slight differences in the primary axis if the axis scale is set to <em>From the lowest value</em>.</td>
<td></td>
</tr>
<tr>
<td>The spacing setting for bars and clusters.</td>
<td></td>
</tr>
<tr>
<td>All scrolling options.</td>
<td></td>
</tr>
<tr>
<td>The <strong>Show ties</strong> setting. You cannot hide ties in Report Studio.</td>
<td></td>
</tr>
<tr>
<td>Standard deviation, logarithmic regression, and linear regression statistical lines.</td>
<td></td>
</tr>
</tbody>
</table>
### Stacked Bar Charts

<table>
<thead>
<tr>
<th>Report Studio</th>
<th>Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>All display options except the following are migrated: The <code>Show ties</code> setting. You cannot hide ties in Report Studio. All scrolling options. There may be slight differences in the primary axis if the axis scale is set to <strong>From the lowest value</strong>. The <code>Word wrap</code> setting for column labels. The picture background style and related settings.</td>
<td>The <code>Depth</code> setting is migrated. Other display options are not migrated.</td>
</tr>
</tbody>
</table>

### Single Line Charts

<table>
<thead>
<tr>
<th>Report Studio</th>
<th>Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>All display options except the following are migrated: The <code>Show ties</code> setting. You cannot hide ties in Report Studio. The picture background style and related settings. Font settings for values above markers. There may be slight differences in the primary axis if the axis scale is set to <strong>From the lowest value</strong>.</td>
<td>Display options are not migrated.</td>
</tr>
</tbody>
</table>
## Multiline Charts

<table>
<thead>
<tr>
<th>Report Studio</th>
<th>Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>All display options except the following are migrated:</td>
<td>Display options are not migrated.</td>
</tr>
<tr>
<td><strong>Show ties</strong> setting. You cannot hide ties in Report Studio.</td>
<td></td>
</tr>
<tr>
<td>The <strong>Autofit labels</strong> settings for axis titles.</td>
<td></td>
</tr>
<tr>
<td>The picture background style and related settings.</td>
<td></td>
</tr>
<tr>
<td>Font settings for labels.</td>
<td></td>
</tr>
<tr>
<td>There may be slight differences in the primary axis if the axis scale is set to <strong>From the lowest value.</strong></td>
<td></td>
</tr>
<tr>
<td>The <strong>Word wrap</strong> setting for column labels.</td>
<td></td>
</tr>
<tr>
<td>All scrolling options.</td>
<td></td>
</tr>
<tr>
<td>Standard deviation, logarithmic regression, and linear regression statistical lines.</td>
<td></td>
</tr>
</tbody>
</table>

## Scatter Charts

<table>
<thead>
<tr>
<th>Report Studio</th>
<th>Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>All display options except the following are migrate:</td>
<td>Scatter charts are migrated to standard line charts.</td>
</tr>
<tr>
<td>There may be slight differences in the primary axis if the axis scale is set to <strong>From the lowest value.</strong></td>
<td>Display options are not migrated.</td>
</tr>
<tr>
<td><strong>Autofit labels</strong> settings.</td>
<td></td>
</tr>
<tr>
<td>Font settings for labels.</td>
<td></td>
</tr>
<tr>
<td>The picture background style and related settings.</td>
<td></td>
</tr>
<tr>
<td>Standard deviation and logarithmic regression statistical lines.</td>
<td></td>
</tr>
</tbody>
</table>
Correlation Charts

<table>
<thead>
<tr>
<th>Report Studio</th>
<th>Analysis Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td>All display options except the following are migrated:</td>
<td>Correlation charts are migrated to single line charts.</td>
</tr>
<tr>
<td>There may be slight differences in the primary axis if the axis scale is set</td>
<td>Display options are not migrated.</td>
</tr>
<tr>
<td>to From the lowest value.</td>
<td></td>
</tr>
<tr>
<td>The Show ties setting. You cannot hide ties in Report Studio.</td>
<td></td>
</tr>
<tr>
<td>The Bar spacing setting.</td>
<td></td>
</tr>
<tr>
<td>The picture background style and related settings.</td>
<td></td>
</tr>
<tr>
<td>The Word wrap setting for column labels.</td>
<td></td>
</tr>
<tr>
<td>All scrolling options.</td>
<td></td>
</tr>
<tr>
<td>Autofit labels settings for axis titles.</td>
<td></td>
</tr>
<tr>
<td>Autofit labels settings for values on bars.</td>
<td></td>
</tr>
<tr>
<td>Font settings for values on bar.</td>
<td></td>
</tr>
<tr>
<td>Standard deviation, logarithmic regression, and linear regression statistical lines.</td>
<td></td>
</tr>
</tbody>
</table>

Mappings of other PowerPlay objects

In addition to cubes and reports, an IBM Cognos PowerPlay application includes related objects and information, such as style sheets and configuration information.

The following objects are not migrated to IBM Cognos Business Intelligence by the migration tools:
- Cascading style sheets used by PowerPlay Enterprise Server
  IBM Cognos BI includes customization options that you can use to achieve similar results.
- PowerPlay for Microsoft Windows styles
- Performance settings related to PowerPlay Enterprise Server, such as mirroring, failover, and load balancing
  You can replicate most of these settings in IBM Cognos Administration.
- Drill-through settings in PowerPlay Enterprise Server
  Drill-through options must be reconfigured in IBM Cognos BI after the migration. For more information, see the Administration and Security Guide.
- Page size and page orientation settings for reports
- Namespace information for cubes

Differences When Migrating PowerPlay Web Reports

Some differences exist when migrating IBM Cognos Series 7 PowerPlay Web reports to IBM Cognos Report Studio or IBM Cognos Analysis Studio.
Calculation Labels and Values in Italics

In PowerPlay Web, calculation labels and values are displayed in italics. In PowerPlay Client reports, italics formatting information is stored in the .ppx file and is migrated. In PowerPlay Web reports, italics formatting is not stored in the report. Consequently, this information is not migrated. You can however format the calculations manually in Report Studio.

Percentile Calculations Intersecting With Ranks

In PowerPlay Web, when a percentile calculation intersects with a rank, the percentile calculation is hidden. In Report Studio or Analysis Studio, percentile calculations are never hidden. As a result, percentile calculations are shown after migration.

Averages

In PowerPlay Web, if you have a calculation that is the average of an integer and a percentage value with two decimals, the result is an integer. After migration to Report Studio or Analysis Studio, the result is a value with two decimal places.

Percentile Values of a Leaf Category

In PowerPlay Web, percentile values of a leaf category show 'NA' or 100%. In Analysis Studio, blanks appear instead.

Calculations That Use Calculated Measures

Calculations that use calculated measures such as average or count may appear as '--' or empty cells in Analysis Studio.

In addition, '--' appears in cells when calculations that use calculated measures intersect with rollup calculations. For example, the intersection of the calculation (Minimum(Camping Equipment, Mountaineering Equipment))+50000 and Rollup(2005, 2006) shows '--' instead of a value. This occurs in PowerPlay Client reports as well.

Percentile Calculations

For calculations that involve another calculation that has percent values, the calculated values do not show the percent symbol (%) when migrating reports to Analysis Studio. For example, the calculation (Percentile(2005))/25 returns values such as 0.80% in PowerPlay Web. In Analysis Studio, 0.008 is returned.

In addition, if a report has percentage values with decimals, the decimals are not migrated to Analysis Studio. For example, 60.00% appears as 60% in Analysis Studio.

Tip: In Report Studio, you can format values to show the percent symbol and two decimal places.

Parent Summaries

In PowerPlay Web reports, when you have measures or calculations of measures nested under a parent category, summaries for the parent category show 'NA'. After migration, the actual values for the parent category appear in the summary.
Note: A PowerPlay Client Reporter report shows the same summary values before and after migration.

**Movable Calculations**

Analysis Studio does not support movable calculations. If you have movable calculations in a report, clear the **Movable** check box for these calculations before migrating the report to Analysis Studio. Alternatively, migrate the report to Report Studio instead.

---

**Differences Between PowerPlay and IBM Cognos Analysis Studio**

This section describes differences when IBM Cognos Series 7 PowerPlay Web or PowerPlay client reports are migrated to Analysis Studio.

**Position of Calculated Categories**

If a report contains calculated categories, the relative position of the rows or columns that show the calculated categories may be different between PowerPlay and Analysis Studio. This formatting difference does not affect the data.

The following examples show the difference in the position of a calculated column, 2005 + 2006. The first image shows the original PowerPlay report. The second image shows the same report after migration to Analysis Studio.

**Charting of Summary Data**

Analysis Studio does not show summary values in charts. If the original PowerPlay report included charts that showed summary values, this level of detail will not appear in the charts in Analysis Studio.
Default Display Format for Bar Charts

In PowerPlay, a simple bar chart can combine the components of a summary in one bar. Analysis Studio always shows a bar for each component of the summary.

The following examples show the differences in the display of bar charts. The first image shows the original PowerPlay report. The second image shows the same report after migration to Analysis Studio.
Default Display Format for Pie Charts

In PowerPlay, a pie chart can combine the components of a summary in one chart. Analysis Studio always shows a separate chart for each component of the summary. If there is no data for a component of the summary, an empty pie chart is included for that component. In addition, axis titles defined in PowerPlay pie charts are not migrated.

The following examples show the differences in the display of pie charts. The first image shows the original PowerPlay report. The second image shows the same report after migration to Analysis Studio.
Reports with Calculated Measures

In PowerPlay, a report can show only calculated measures, with the measures used by the calculations hidden. In Analysis Studio, a report must show at least one measure. If the original PowerPlay report shows only calculated measures, a measure will appear on the same axis as the calculation in the Analysis Studio report. If there are no measures, visible, hidden, or deleted after the calculation was created, the calculation is not migrated and a warning message appears in the log file stating that an orphaned measure calculation was not migrated.

In the following Analysis Studio report, which was migrated from PowerPlay, the revenue column did not appear in the original report.
Calculations in Nested Levels of the Same Dimension

If a PowerPlay report includes a calculated column in a nested level of the same dimension, the column is not migrated to Analysis Studio. For example, a PowerPlay report contain Years as rows and Quarters as nested rows. You insert the calculation 2006 Q1 + 2006 Q2 as a nested row for 2006. After migration to Analysis Studio, this calculation does not appear in the report.

Tip: You can manually add this calculation in Analysis Studio.

Default View in Analysis Studio

You can change the default view for an analysis by changing the package configuration properties. This allows you to create a default view similar to PowerPlay, where the order of dimensions and measures determines the default rows, columns, and measure when you open the cube.

For more information about administering packages, see the IBM Cognos Administration and Security Guide.

Hidden Child Levels

In PowerPlay reports, when all child levels of a parent level are hidden, the parent level is also hidden. The parent level appears in reports migrated to Analysis Studio. For example, a PowerPlay report contains the levels Products and Outdoor Protection. Products is the parent of Outdoor Protection. If you hide Outdoor Protection and all of its child levels, no data appears for Products or Outdoor Protection. If you migrate this report to Analysis Studio, Products appears.

Hidden Measures

In PowerPlay reports, you can hide measures. Analysis Studio does not support hiding measures.
Measures and Dimensions Nested Along the Same Axis

In PowerPlay reports, you can nest measures and dimensions on one axis. Analysis Studio does not support nesting items under a measure. When migrated to Analysis Studio, the following occurs:

- If there are multiple measures on the same axis, the outermost measures are dropped.
- If the axis still contains nested items and the remaining measure is not the lowest or, innermost, level, it is moved to the lowest level.

The following examples show what happens when a PowerPlay report with nested measures is migrated to Analysis Studio. The first image shows the original PowerPlay report. The second image shows the same report after migration to Analysis Studio.

Drilling Down on Calculations

In PowerPlay, you can drill down on a category that is a calculation until it is the only object showing. Analysis Studio does not support this type of structure for calculations. When migrated to Analysis Studio, the next level appears, as if you had drilled up once.

The following example shows a multiline chart in PowerPlay where the category "2006" - 9000, a calculation, is drilled down until it is the only object showing.
When this report is migrated to Analysis Studio, the chart shows lines as if you had drilled up once on "2006" - 9000.
Tip: If you want to avoid this behavior, migrate the report to IBM Cognos Report Studio instead of Analysis Studio.

Calculations in Parentage Subsets

In PowerPlay, you can define calculations in the lower level of a two-level parentage subset. Analysis Studio does not support calculations in the lower level. For example, if you define a parentage subset as the next two levels of Years/2006, you get the first level Quarters and the second level Months beneath it. If you define a calculation that adds two of the months together, this calculation is not migrated.

Secure Cubes

When using a secure cube as your data source, reports migrated to Analysis Studio do not show the same results as the PowerPlay reports if you do not have access to the data in the report. In such cases, PowerPlay replaces the data that you cannot access. Analysis Studio does not replace missing data. As a result, migrated reports may be missing data or the reports may not run if the missing data produces invalid report specifications.

Measures and Currencies

Reports with multiple measures that have the same or different currencies are migrated to Analysis Studio without setting a specific currency, or the currency of the default measure is used.
Chapter 13. Upfront mapping

The information in this section will help you understand the mapping of objects when migrating IBM Cognos Series 7 Upfront content to IBM Cognos Business Intelligence.

Content mapping

The IBM Cognos Series 7 Upfront portal can contain a variety of content, including both content created by IBM Cognos products such as IBM Cognos Series 7 Impromptu Web Reports, and non-IBM Cognos content. Only some Upfront content is included in a migration.

You can migrate Upfront content created by IBM Cognos Series 7 PowerPlay, IBM Cognos Series 7 Impromptu, and Impromptu Web Reports. Migration also includes URL NewsItems. For more information, see the other product mapping chapters.

The following types of Upfront content are not included in migration:
- IBM Cognos Query
- IBM Cognos Visualizer
- IBM Cognos NoticeCast
- IBM Cognos Planning
- IBM Cognos Finance
- IBM Cognos Metrics Manager
- Non-IBM Cognos content

Related concepts

“IBM Cognos Series 7 products and components not migrated with tools” on page 13

The IBM Cognos Migration Assistant tools do not migrate the following IBM Cognos Series 7 products and components. However, you can duplicate most content or functionality in IBM Cognos Business Intelligence.

NewsBox mapping

Migration maps NewsBoxes to IBM Cognos Connection folders. Migration includes both public and personal NewsBoxes.

In IBM Cognos Series 7 Upfront, personal NewsBoxes are subfolders that give users access so that they can get to their own NewsBox. Each user’s personal NewsBox has an access control list that prevents anyone other than a NewsIndex administrator and the user to whom the NewsBox belongs from accessing it. Personal NewsBox content is migrated to IBM Cognos Business Intelligence as My Folders content for the user. Each user in IBM Cognos BI will have their own My Folders location which other users cannot access.

The migration process creates an account in IBM Cognos BI for users that have already logged on. For more information about users and accounts in IBM Cognos BI, see the IBM Cognos Administration and Security Guide.

The following table shows the mapping for NewsBox properties.
NewsBox property | Mapping
---|---
Name | Folder name
Description | Folder description
Hide this entry | Disable entry

When disable this entry is selected, only users with write access see the object.
For more information about disabling entries, see the IBM Cognos Administration and Security Guide.

Migration does not include the following NewsBox properties:
- Duplicate NewsBox names at the same level
  To prevent unexpected migration results, ensure that NewsBoxes at the same level use unique names.
- Creation date

**NewsBox shortcut mapping**

A NewsBox shortcut is mapped to an IBM Cognos Connection folder shortcut.

The following table shows the NewsBox shortcut properties that are mapped.

| NewsBox shortcut property | Mapping |
---|---|
Name | Folder shortcut name
Description | Folder shortcut description
Source NewsBox ID | Source folder search path

**NewsItem mapping**

A NewsItem is mapped to an IBM Cognos Connection entry.

The following table shows the NewsItem properties that are mapped.

| NewsItem property | Mapping |
---|---|
Name | Entry name
Description | Entry description
Hide this entry | Disable entry

When disable this entry is selected, only users with write access see the object.
For more information about disabling entries, see the IBM Cognos Administration and Security Guide.

Default run action and default show action settings (not applicable to all types of NewsItems)

See Chapter 10, "Impromptu Web Reports mapping," on page 115 for details about default run action mapping.
Contact information

If you configure IBM Cognos Business Intelligence to use the same namespace as IBM Cognos Series 7, and you use the acl option with the migratefroms7 command to migrate access control list (ACL) definitions, the user profile is the source of contact information. If the user does not exist in the namespace, the email address from the NewsItem is the contact in IBM Cognos BI.

The following NewsItem properties are not migrated:

- Duplicate NewsItem names
  duplicate entry names at the same level are not supported in IBM Cognos BI. To prevent unexpected migration results, ensure that NewsItems at the same level use unique names.
- Security settings
  The migratefroms7 tool includes options for taking advantage of existing security information.
- Create and update dates

**NewsItem shortcut mapping**

Migration maps NewsItem shortcuts to IBM Cognos Connection entry shortcuts.

The following table shows the mapping for NewsItem shortcut properties.

<table>
<thead>
<tr>
<th>NewsItem shortcut property</th>
<th>Mapping</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Entry shortcut name</td>
</tr>
<tr>
<td>Description</td>
<td>Entry shortcut description</td>
</tr>
<tr>
<td>Source NewsItem ID</td>
<td>Source entry search path</td>
</tr>
</tbody>
</table>

**NewsIndex**

The NewsIndex is migrated to an IBM Cognos Connection entry. If the NewsIndex contains objects other than folders, such as cubes or reports, a folder named Additional Upfront NewsItems is created for these objects.

**Note:** The Additional Upfront NewsItems folder will be empty if the non-folder objects in Upfront are not supported by the migration process. For example, documentation objects such as Guide to Documentation are not migrated.

**Mappings of other Upfront objects**

Migration does not include the following objects:

- User settings, such as Personalize settings
- Themes

Standard and custom themes are not migrated. IBM Cognos Business Intelligence includes customization options that you can use to achieve similar results.
Security

In IBM Cognos Series 7 Upfront, the access control list (ACL) contains information about which users or user classes can read or write to a particular object, such as a report or a URL. To help you implement security when you migrate IBM Cognos Series 7 Web-based content to IBM Cognos Business Intelligence, the migratefroms7 command includes three processing options for ACL information when you create a migration deployment package.

Generate ACL report

By default, the migratefroms7 process generates an ACL report that shows the security settings by user class for all Upfront objects. This report can help you replicate the IBM Cognos Series 7 security in IBM Cognos BI.

Generate ACL Report and migrate ACL definitions

If IBM Cognos BI is configured to use the same namespace as IBM Cognos Series 7, you can migrate ACL definitions to maintain the IBM Cognos Series 7 security settings in IBM Cognos BI. You must include the namespace ID as recorded in IBM Cognos Configuration in the migratefroms7 command.

Changes to security settings in Upfront after migration are not applied to the migrated Upfront objects in IBM Cognos BI. You must manage Upfront and IBM Cognos BI security settings separately.

Exclude ACL information

If you plan to apply security settings manually in IBM Cognos BI, or you do not want to use the IBM Cognos Series 7 namespace in IBM Cognos BI, you can choose to not generate an ACL report or migrate ACL definitions.
Appendix A. Troubleshooting

Use this troubleshooting reference information and solutions as a resource to help you solve specific problems you may encounter when using the IBM Cognos Migration Assistant.

Problems are characterized by their symptoms. Each symptom can be traced to one or more causes by using specific troubleshooting tools and techniques. After being identified, each problem can be fixed by implementing a series of actions.

When you are troubleshooting, log files can help you. Another valuable troubleshooting tool are IBM Technotes, which are available at the Cognos Customer Center [http://www.ibm.com/software/data/cognos/customercenter].

When you cannot resolve a problem, the final resource is your IBM Cognos technical support representative. To analyze a problem, your technical support representative requires information about the situation and the symptoms that you are experiencing. To help isolate the problem, collect the necessary data before you contact your representative.

Log files

Log files can help you troubleshoot problems by recording the activities that take place when you work with a product.

Operations performed by the migration tools are recorded in various log files for tracking purposes. For example, if you experienced problems installing the tools, consult the transfer log file to learn what activities the installation wizard performed while transferring files.

Note: It is important that you regularly monitor the log files and maintain the folders in which they are created. For example, if you are migrating many reports, the size of the folders may grow quickly.

Installation log files

The installation wizard creates two log files in the \installation_location\instlog directory. The log file names include the product name, version, build number, and time stamp.

The transfer log file records the activities that the installation wizard performed while transferring files. The transfer log file is in the \installation_location\instlog directory. The file name identifies the product name, version, and build number, and includes a time stamp. The following is an example of the file name format:

```
tl-MIGRATION-10.1-41.10-20100223_1550.txt
```

The transfer summary-error log file records the components you installed, disk space information, the selections you made in the transfer dialogs, and any errors the installation wizard encountered while transferring components. The transfer summary-error log file is in the \installation_location/instlog directory. The file name identifies the product name, version, and build number, and includes a time stamp. The following is an example of the file name format:

```
tl-MIGRATION-10.1-41.10-20100223_1550.error.txt
```

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The uninstallation log file records the activities that the Uninstall wizard performed while uninstalling files. The log file is named cognos_uninst_log.htm and is located in the Temp directory. You can use the log file to troubleshoot problems related to uninstalling the migration tools.

**migratefroms7 log file**

The migratefroms7 tool creates a log file named migratefroms7.htm in target\_LOG.

**deployfroms7 log file**

The deployfroms7 tool creates a log file named viewMigrationLog.html in target\_LOG. This log file includes information about the deployfroms7 process and the content from the migratefroms7 log file.

**Published PowerPlay reports migrated to IBM Cognos BI log files**

Any errors encountered when migrating IBM Cognos PowerPlay reports published to IBM Cognos Connection are logged in c10_location\temp\migrsvp.

### Problems with the command line tools

This section describes problems you may encounter when running the command line tools.

**Special characters in file path**

If the source or target file path includes the special characters ampersand (&), pipe (|), or parentheses ( ), the migration command will fail to run.

To use these special characters in a file path, the special characters must be XML encoded. For example, the following commands will run properly:

```
migratefroms7 "e:\IS&T\reports" "e:\IS&T\migrate"
migratefroms7 e:\IS^&T e:\IS^&T\migrate
```

### Problems migrating metadata

This section describes problems you may encounter when migrating metadata.

**Missing metadata objects after migration**

Objects may not display as expected or may be missing after you migrate an IBM Cognos Series 7 Architect model or IBM Cognos Series 7 Impromptu catalog to IBM Cognos Framework Manager.

You can probably determine why by answering the following questions in the given order:

- Does the object exist in the Architect model or Impromptu catalog that you migrated?
- Do you have access to the object that did not migrate?

You must have appropriate privileges to access the metadata to perform the migration. For example, you must have Creator access to export a catalog using the migratefroms7 tool.
• Does the object exist in the Framework Manager project?
   
   If you cannot find the object, check the migration log file for information about how the migration process handled the object.
   
   Some objects may be hidden by default in Framework Manager. For example, check the package definition to determine if an object is selected or not.
   
   If the Framework Manager import did not include the object, you can achieve similar functionality using Framework Manager. For more information, see the Framework Manager User Guide.

Exceptions raised

These errors occur if the command line syntax is incorrect.

Ensure that you specified the appropriate parameters on the command line. If you still encounter the error, test the parameters individually. For example, enter only mandatory parameters and see if the problem still occurs. If the migration is successful, gradually add the optional parameters back.

Prompts to log on during metadata export

If an IBM Cognos Series 7 Architect model or IBM Cognos Series 7 Impromptu catalog is secured and you do not provide namespace authentication information in the command line, the migration process prompts you for the user ID and password. You can still export the model if you log on interactively.

If you want to do a silent or batch export, ensure that you include the user ID and password on the command line.

Failure to open model, XML generation termination

This error can occur if the IBM Cognos Series 7 Architect model is open or if the Progress ObjectStore services are not running when you run the arch2xml74 tool.

Ensure that the model is not currently open in Architect, and that the ObjectStore services are running.

If you still encounter the migration error, open the model in Architect and ensure that the model does not include errors.

Logon prompts while migrating catalogs

The migration process prompts you to log on when you attempt to export an IBM Cognos Series 7 Impromptu catalog.

This can occur if you changed the password for the Creator user name and you did not enter the new password properly. The default authentication credentials are a user name of Creator, and no password.

Problems migrating a non-English Impromptu catalog

If you export catalogs using a non-English version of IBM Cognos Series 7 Impromptu, you must specify the Creator name for the language of Impromptu that you use. If you do not specify the localized Creator name, the tool defaults to the English name Creator.

For example, if you use the German version of Impromptu, type the following:
migratefroms7 -n Ersteller c:\testcatalogs\gosales.cat c:\xmlcats\gosales.xml

If you use the French version of Impromptu, type the following:

migratefroms7 -n Auteur c:\testcatalogs\gosales.cat c:\xmlcats\gosales.xml

**Inability to start the Impromptu automation server**

You attempt to migrate a catalog, and the IBM Cognos Series 7 Impromptu automation server does not start.

This error can occur if the impadmin server is not registered, possibly because Impromptu was installed without applying the configuration using Configuration Manager. This error can also occur when you uninstall a previous version of Impromptu after installing a more recent version.

To correct this error you need to reapply the configuration settings for Impromptu Administrator. In IBM Cognos Series 7 Configuration Manager, select **IBM Cognos Impromptu Impromptu Administrator**, and then click **Actions, Apply Selection**. Close Configuration Manager and then run the migratefroms7 tool.

**Inability to open Impromptu catalogs**

When you run the migratefroms7 tool, you get an error message indicating that the migration process was unable to find a catalog.

To fix this problem, ensure that the following statements are true:

- The catalog path is correct.
- You can open the catalog interactively using the version of IBM Cognos Series 7 Impromptu Administrator that the commands use during migration.
  
  **Tip:** If Impromptu is open, and a dialog box is waiting for input, the migratefroms7 tool may not run successfully.
- You have sufficient security credentials to open the catalog.

If all the statements are true, open the IBM Cognos Series 7 Configuration Manager, reapply the settings for Impromptu Administrator, and run the command again.

This error can also occur when you use the migratefroms7 tool for Impromptu report migration.

**Related concepts**

“*Inability to open catalogs for the following Impromptu report*” on page 172

A message displays during export indicating that the migration process was unable to find a catalog.

**Inability to open catalogs as Creator when running user version of Impromptu**

If you have both IBM Cognos Series 7 Impromptu User and Impromptu Administrator installed on the computer where you run the migratefroms7 tool, you may receive an error stating that you cannot open a catalog as Creator when running Impromptu User.

To correct this error you need to reapply the configuration settings for Impromptu Administrator. In IBM Cognos Series 7 Configuration Manager, select **IBM Cognos**
**Impromptu Administrator**, and then click Actions, Apply Selection. Close Configuration Manager and then run the migratefroms7 tool.

---

**Problems importing metadata into Framework Manager**

This section describes problems you may encounter when importing migrated metadata into Framework Manager.

**Related tasks**

“Testing the imported metadata” on page 33

After you import the metadata into IBM Cognos Framework Manager, you must ensure that the metadata migrated successfully.

**XML Validation errors when importing XML Files into Framework Manager**

In IBM Cognos Framework Manager, if you import an XML file that is not of the metadata type that you selected, an XML validation error message displays.

For example, you try to import the XML file for an exported IBM Cognos Series 7 Architect model using the IBM Cognos Series 7 Impromptu XML option.

Try the import again, specifying the correct metadata type.

This error can also occur if the XML file was modified after export. If this is the case, delete the file and run the appropriate migration tool again to create a new XML file.

**Query items in Impromptu subfolders represented by calculation icons in Framework Manager**

You migrate an IBM Cognos Series 7 Impromptu folder that has a subfolder and subfolder items. The subfolder items display as calculations in IBM Cognos Framework Manager.

This does not affect the functionality of the object.

**Unexpected Results with filters after migrating Architect models**

Because IBM Cognos Series 7 Architect and IBM Cognos Framework Manager support different filter types, you may have to update filter properties to achieve the expected results.

For example, you want to use an optional filter. Because Architect does not support optional filters, you must change the filter properties in Framework Manager. For more information about working with filters, see the Framework Manager User Guide.

**Incorrect decimal separators after importing Architect model metadata**

After importing IBM Cognos Series 7 Architect model metadata into IBM Cognos Framework Manager, the decimal separators do not match the format in the original Architect model.
This can be caused by differences between regional settings on the IBM Cognos Series 7 computer and the Framework Manager design language.

To correct the problem, change the regional settings on the Architect computer to use the same decimal separator as the Framework Manager design language and then repeat the export process using the Architect model migration tool. When you import the metadata, the correct decimal separator should display. After exporting the model, change the regional settings back to the original format.

Related tasks

“Temporarily changing the locale settings on the Architect computer” on page 21

If the IBM Cognos Framework Manager design language is different from the locale settings on the IBM Cognos Series 7 Architect computer, locale specific data formats, such as list and decimal separators, may be invalid after you import the migrated metadata into Framework Manager.

Problems migrating applications

This section describes problems you may encounter when migrating applications.

Inability to open catalogs for the following Impromptu report

A message displays during export indicating that the migration process was unable to find a catalog.

Because each report is opened in the background during migratefroms7 processing, the catalog must be accessible, either by preserving the report and catalog folder structure from the original working location, or by placing a copy of the catalog in the migration source folder with the reports.

Try the following to correct the error:

- Check the command line syntax for errors.
- Open a report from the migration source location to ensure that the catalog is available.
- Move the catalog to the same location as the reports and repeat the export.

Related concepts

“Inability to open Impromptu catalogs” on page 170

When you run the migratefroms7 tool, you get an error message indicating that the migration process was unable to find a catalog.

“Migrated Impromptu report error message: Unable to open the catalog” on page 181

This error message appears when the migration process is unable to find a catalog.

Errors migrating large applications

It can be difficult to troubleshoot errors when migrating large applications.

If possible, migrate the application in parts. Test each part before completing the migration process for the remainder of the application.

Same problems occurring when migrating reports

When you migrate many or all of your reports, you see the same problems occur.
This can happen when many reports in an application are set up as clones or copies of a few original reports, so they are very similar in structure. If you encounter a problem or defect, the same problem can affect many or all of your reports.

Try migrating reports from a different application.

**Error message: Unable to find the source folder containing the images to be migrated**

If you know that the reports do not use any images, you can ignore this message.

**Related concepts**

[“Missing images in migrated reports” on page 178](#)

Images are not rendered after you migrate and deploy a report to IBM Cognos Business Intelligence.

**Inaccessible Impromptu reports**

Migration fails because the migratefroms7 process cannot access a report.

This can occur if the IBM Cognos Series 7 Impromptu report generates errors or interactive messages, other than prompts, when run in Impromptu.

Check whether you can open the Impromptu report without any errors or interactive messages. If there are errors, fix them and run the migratefroms7 tool again.

**Packlets cannot be found**

If you use an IBM Cognos Series 7 Deployment Manager package created in a distributed IBM Cognos Series 7 environment, the package and packlet files you want to use as the migration source may be on different computers.

For example, the Deployment Manager package file (.dmp) can be on a Microsoft Windows computer and the packlets can be on one or more UNIX computers. If the package and packlet files are not on the same computer, you get an error when you run the migratefroms7 tool indicating the migration process cannot find a packlet.

Before running the migratefroms7 tool, the package and packlet files must be located on the computer where you will run the migratefroms7 tool. Also, you must modify the .dmp file to show the correct location of the packlet files.

**Related tasks**

[“Creating the migration source using a Deployment Manager package” on page 40](#)

To migrate IBM Cognos Series 7 Web-based content, you use an IBM Cognos Series 7 Deployment Manager package as the migration source.

**Suppressed categories replaced by children categories or dropped in migrated PowerPlay Explorer reports**

If a category is suppressed in IBM Cognos Business Intelligence, the category is replaced by its children in reports migrated to IBM Cognos Report Studio. In reports migrated to Analysis Studio, the suppressed category is dropped.
A suppressed category is present in the cube but has been implicitly suppressed, and therefore cannot be referenced by the IBM Cognos BI model. An example of a category that would be suppressed in IBM Cognos BI is Relative Time.

The migration log file will include a message for this report indicating that a category is suppressed from the package.

**Opening migrated reports in Japanese locale**

When opening a migrated report in Japanese locale in IBM Cognos Report Studio, an error message displays.

The error message is similar to the following:

*RSV-SRV-0005 The report specification is missing the 'report' root element.*

The error message displays only on the Solaris and HPUX platforms. The problem occurs when the report file or path name contains special Japanese characters, such as the full width not sign or horizontal bar. Such characters have different code point values in the Microsoft Windows and UNIX operating systems. Because the IBM Cognos Series 7 migration tools are available only on Windows, if you deploy reports to IBM Cognos Business Intelligence running on Solaris or HPUX, and the reports contain special characters, this problem will occur.

To fix the problem, before migrating, rename the report file or path names that have special Japanese characters. Alternatively, you can enable the special characters map file so that the code point values for the special characters are mapped correctly.

**Procedure**

1. Open the specialchardict.py file located in the *Series 7_location/migs7* directory.
2. To enable the mapping, remove the comment characters (#) in the mapping section.
3. If you are aware of other code point values that cause this problem to occur, add them to the mapping section.
4. Save the file.

**Problems Migrating Reports with Internal Path Names Exceeding 255 Characters**

When migrating IBM Cognos Series 7 Upfront content, if the number of characters used for the folder name and report name exceeds 255 characters, the migration fails. The following error appears:

*S7S-err-0813 Exception encountered parsing IBM Cognos Deployment Manager errors and warning from file: UNEXPECTED INTERNAL ERROR: CDM dump is missing the 'PPES.packetLocation' property.*

IBM Cognos Series 7 PowerPlay Enterprise Server may also generate a core file in the *S7_install/bin/ directory.*

When path names exceed 255 bytes in length, the PowerPlay Enterprise Server process may overflow a buffer. In particular, you may want to check the length of your paths in the PPSRoot directory. For example, *S7_install/ppserver/PPSRoot/...*

You are most likely to encounter this problem.
• on the UNIX operating system
  UNIX usually permits path names of 1023 or more bytes. Windows limits path
  names to 260 bytes when using the APIs that PPES uses.
• when using a multi-byte language such as Japanese
  A single character can occupy two or more bytes. Consequently, path names can
  reach the 255 byte limit with fewer characters.

To work around the problem, contact the Cognos Customer Center
update to address the issue.

Alternatively, you can avoid the problem by selecting to migrate only NewsBoxes
containing reports with path names that are less than 255 characters in length. Or
rename the report and NewsBox names so that they use less than 255 bytes.

**Ranking Applied to an Axis having a Custom Subset and One or More Categories not Migrated to Analysis Studio**

Ranking applied to an axis having a custom subset and one or more categories,
even if the categories are from the same dimension, is not migrated to IBM Cognos
Analysis Studio. After migration, the rank cells are empty for the subset.

To work around the problem, do one of the following:
• Migrate the report to IBM Cognos Report Studio instead.
• In the original report, leave only the custom subset on the axis and remove the
  other categories.

**Problems deploying migrated applications**

This section describes problems you may encounter when deploying applications
to IBM Cognos Business Intelligence.

**Problems logging onto IBM Cognos BI**

If anonymous access is disabled in IBM Cognos Business Intelligence and you do
not provide the correct user and namespace information with the deployfroms7
tool, the deployfroms7 process fails.

The migration log file includes the following error:

*Login to IBM Cognos BI failed. Please verify credential information.*

To correct the error, run the deployfroms7 tool again providing the correct user
and namespace information.

**CM-REQ-4024 name conflict**

You attempt to deploy a migrated report set, but IBM Cognos Business Intelligence
returns an error message.

The error message is similar to the following:

*The name [time_date_stamp] conflicts with the names of existing object(s)
/Import/time_date_stamp]. Your application may not display all objects that exist at this
location.*
This occurs when you attempt to deploy a migrated report set that was previously deployed.

The specification that was created by the original migration was named according to the time and date stamp of the migratefroms7 tool. If you run the deployfroms7 tool on the same migrated report set, IBM Cognos BI attempts to create a new import specification using the same time stamp. You will get an error message indicating a name conflict. You cannot deploy a migrated report set twice.

To update a report set that was already deployed, do one of the following:

- Run the migratefroms7 tool on the report set again, and run the deployfroms7 tool on the newly migrated report set.
- In IBM Cognos Connection, click Tools, Deployment. Click the Import tab, find the import specification, and click Update Import.
- In IBM Cognos Connection, click Tools, Deployment. Click the Import tab, delete the old import specification, and run the deployfroms7 tool.

**JRE errors**

When you run the deployfroms7 tool, you receive a JRE error. This can happen if you have installed the deployfroms7 tool in a different location than where IBM Cognos Business Intelligence is installed.

The deployfroms7 tool must be installed in the IBM Cognos BI directory. For more information, see the Migration Assistant Installation and Configuration Guide.

**Packages listed in the nameMap.xml file not found in the Content Store**

When you run the deployfroms7 tool, you receive an error indicating the migration process did not find a required package in the IBM Cognos Business Intelligence content store.

Review the following possible causes for this error to identify a solution that applies to your situation.

**Package name in nameMap.xml file does not match name of published package**

The migratefroms7 process creates a nameMap.xml file that contains a default package name for each package expected in IBM Cognos BI. The nameMap.xml file is located in _SUPPORT\maps in the migratefroms7 target location.

Open the nameMap.xml file in an XML or text editor and verify that the name in each <packageName> element matches a published package in IBM Cognos BI. If the package names do not match, edit the nameMap.xml to make the package name the same as the name of the published package and then run the deployfroms7 tool again.

**Package does not exist in IBM Cognos Connection**

Verify that the required metadata is available. Each migrated report must map to an existing package in IBM Cognos BI. For IBM Cognos Series 7 Impromptu reports, you must create and publish a package using a migrated catalog. For IBM Cognos Series 7 PowerPlay reports, you must create a data source connection in
IBM Cognos BI to required cubes and then create and publish a package. For more information about using cubes in IBM Cognos BI, see the IBM Cognos Administration and Security Guide.

If the package was not available when you ran the deployfroms7 tool, you must create and publish a package from Framework Manager to IBM Cognos Connection and then run the deployfroms7 tool again.

**Wrong namespace ID specified in the deployfroms7 tool**

Verify that you specified the correct namespace ID, and that there was not a typing error in the namespace ID, in the deployfroms7 tool.

If there was a problem with the namespace ID, run the deployfroms7 tool again specifying the correct namespace ID.

**Related tasks**

- [“Checking the package mapping” on page 50](#)

The migration process assumes the IBM Cognos Business Intelligence package name for the required metadata is the same as the file name of the IBM Cognos Series 7 metadata.

- [“Publishing a Framework Manager package” on page 34](#)

To make the migrated metadata available to report authors and to support the migration of IBM Cognos Series 7 Impromptu reports, you must publish an IBM Cognos Framework Manager package to IBM Cognos Connection.

**Failed deployments on Windows 2008 servers**

When running the deployfroms7 command on a Microsoft Windows 2008 server, the deployment fails.

The following error messages display:

- **CNC-BAL-0503 The server has failed.**
- **CM-REQ-4136 The deployment archive <archive> does not exist.**
- **Failed to deploy the following deployment archive: <archive>.**
- **MGD-msg-0488 Failed to start the deployment process.**

This problem occurs when you do not have the appropriate permissions to add the deployment archive to the deployment folder in IBM Cognos Business Intelligence. Windows 2008 may copy the archive to a different location.

To resolve the problem, configure a user account or network service account for the IBM Cognos service. Then rerun the deployfroms7 command using this account.

For information about configuring a user account or network service account for the IBM Cognos service, see the IBM Cognos BI Installation and Configuration Guide.

**Problems running migrated reports**

This section describes problems you may encounter when running reports after migration.
Migrated Impromptu reports fail to run or run with errors

When you attempt to run a migrated report, the report fails to run or runs with errors.

These errors may be caused by problems that existed before migration. For example, the following error is related to a problem that existed in the original report and is not caused by an error in the migration process.

Error: UDA-SQL-0196 The table or view “identifier” was not found in the dictionary.

The first step in troubleshooting errors in migrated reports is to ensure that the original report works correctly in IBM Cognos Series 7. Open the original report in IBM Cognos Series 7 Impromptu. If there are errors, complete the changes necessary to make the report run successfully and then repeat the migration process.

Automatic summary for entire Impromptu reports do not display in migrated reports

In IBM Cognos Series 7 Impromptu, when you use the total function in an expression and you select Automatic in the Association box, the calculated total for the entire report displays, such as Total Sales for 2004: $1,057,202.88.

In IBM Cognos Business Intelligence, the total is not calculated for the entire report because automatic association is not supported.

To make the total display for the entire report, open IBM Cognos Report Studio and change the expression so that it uses the report component as follows:

total(Sales04 for report)

Reports not migrated

When you try to open a migrated report in IBM Cognos Report Studio, an error message displays stating that the report was not migrated.

This can occur if your reports use encoding rules that are different than those of the operating system. The migration tool uses the operating system settings to determine which encoding rules to use. If you need different settings, use -e encoding_name as an optional parameter with the migratefroms7 command to specify the correct encoding name.

For example, to set the encoding value to UTF-8, use the following optional parameter in your migratefroms7 command:

migratefroms7 -e utf_8 source target

Missing images in migrated reports

Images are not rendered after you migrate and deploy a report to IBM Cognos Business Intelligence.

This can occur for the following reasons:

• The image files are in a different location than the report files.

When you run the migratefroms7 tool, all graphic files used by reports must be present in the source directory or subdirectory. Otherwise, the images are not included in the deployment package. For images to be properly referenced in
migrated reports, you must migrate the images with their respective reports. You
cannot migrate the images using a different migration session.

- In the IBM Cognos Series 7 Impromptu report, the image loads using the file
  name in column, and the value of the associated data item has trailing spaces.
  Switch the data item’s data type to varchar, and update the values so that there
  are no trailing spaces.

- In the Impromptu report, the column references image files that are stored in the
database with the .jpg extension.
  The migration process adds the .jpg extension to the data item’s report
  expression. Delete the .jpg extension from the report expression and the images
  will display when you run the report.

- You deploy reports to a UNIX computer, and there are type case differences
  between the database image reference and the actual file name.
  Ensure that the database image reference and the file name are exactly the same,
  including type case.

Related concepts

“Error message: Unable to find the source folder containing the images to be
migrated” on page 173

If you know that the reports do not use any images, you can ignore this message.

Migrated Impromptu report error message: Using generic
mapping for function

This message indicates that a function in a migrated report may not retain its
original meaning because of generic mapping. Consequently, the results may not
be correct.

This can occur if the IBM Cognos Series 7 Impromptu function cannot map directly
to an IBM Cognos Business Intelligence function.

To ensure that the function provides correct results, use IBM Cognos Report Studio
to review the function in the IBM Cognos BI report specification, and make
changes if appropriate.

Migrated Impromptu report error message: The following
function is not supported

This message indicates that a function in a migrated report may not retain its
original meaning because it is not supported.

Consequently, the results may not be correct. This can occur if the IBM Cognos
Series 7 Impromptu function cannot map directly to an IBM Cognos Business
Intelligence function.

To ensure that the function provides correct results, use IBM Cognos Report Studio
to review the function in the IBM Cognos BI report specification, and make
changes if appropriate.

Migrated Impromptu report error message: The following
function is mapped as an expression using the Cast operation

This message indicates that a function in a migrated report may not conserve its
original objective because it maps to IBM Cognos Business Intelligence as a cast
operation.
As a result, the results may not be correct. This can happen if the IBM Cognos Series 7 Impromptu function cannot map directly to an IBM Cognos BI function.

To ensure that the function provides correct results, use IBM Cognos Report Studio to review the function in the IBM Cognos BI report specification, and make changes if appropriate.

**Migrated Impromptu report error message: The following function is mapped as a no-operation**

This message indicates that a function in a migrated report may not conserve its original objective because it maps to IBM Cognos Business Intelligence as a no-operation.

As a result, the results may not be correct. This can happen if the IBM Cognos Series 7 Impromptu function cannot map directly to an IBM Cognos BI function.

To ensure that the function provides correct results, use IBM Cognos Report Studio to review the function in the IBM Cognos BI report specification, and make changes if appropriate.

**Migrated Impromptu report error message: The following function is mapped as a no-operation on the first argument**

This message indicates that a function in a migrated report may not conserve its original objective because it maps to IBM Cognos Business Intelligence as a no-operation on the first argument.

As a result, the results may not be correct. This can happen if the IBM Cognos Series 7 Impromptu function cannot map directly to an IBM Cognos BI function.

To ensure that the function provides correct results, use IBM Cognos Report Studio to review the function in the IBM Cognos BI report specification, and make changes if appropriate.

**Migrated Impromptu report error message: The following function is mapped as a constant value of zero**

This message indicates that a function in a migrated report may not conserve its original objective because it maps to IBM Cognos Business Intelligence as a constant value of zero. As a result, the results may not be correct.

This can happen if the IBM Cognos Series 7 Impromptu function cannot map directly to an IBM Cognos BI function.

To ensure that the function provides correct results, use IBM Cognos Report Studio to review the function in the IBM Cognos BI report specification, and make changes if appropriate.

**Migrated Impromptu report error message: The following function is mapped as a constant number**

This message indicates that a function in a migrated report may not conserve its original objective because it maps to IBM Cognos Business Intelligence as a constant number. As a result, the results may not be correct.
This can happen if the Impromptu function cannot map directly to an IBM Cognos BI function.

To ensure that the function provides correct results, use IBM Cognos Report Studio to review the function in the IBM Cognos BI report specification, and make changes if appropriate.

**Migrated Impromptu report error message: Unable to open the catalog**

This error message appears when the migration process is unable to find a catalog.

**Related concepts**

"Inability to open catalogs for the following Impromptu report" on page 172

A message displays during export indicating that the migration process was unable to find a catalog.

**Report objects not found when running reports**

When you try to run a report, an error message indicates that report objects were not found.

This situation can occur for the following reasons:

- The package name does not match the catalog name.
  Change the package name so that it is exactly the same as the catalog name, including the extension. For example, if the catalog name is catalog_name.cat, then ensure that the package name is also catalog_name.cat.
- You ran the deployfroms7 tool before you published a package.
  Ensure that the package is published before you run the deployfroms7 tool.

**Related concepts**

"Migrated Impromptu error message: The following package was not found in the Content Store" on page 183

This message displays when you try to run a migrated report and the package specified for the report was not found.

**Receiving parsing error message when migrated Impromptu report fails to run**

After you import a report into IBM Cognos Business Intelligence, it fails to run, and you receive a parsing error.

This situation can happen for the following reasons:

- You used the same location as a source and target directory when you ran the deployfroms7 tool. Use a different source and target directory.
- You did not use the correct `<target>` parameter syntax.
- You are using reports initially created in a pre-6.0 version of IBM Cognos Series 7 Impromptu.

If the report was migrated from a version of Impromptu earlier than 6.0, you must unhide the tables in the IBM Cognos Framework Manager package that supports the migrated reports. Also, use the **Verify Selected Object** tool to ensure that there are no invalid objects that can break queries in the published package. If necessary, correct errors, republish the package, and run the report again.
Procedure
1. In Framework Manager, right-click the package, and then click Edit Definition.
2. If the hide icon displays beside any component, click the menu for the model, and then click Select Component and Children.
3. If any components were hidden, republish the package and run the report again.

Related concepts
“Common post-migration tasks” on page 32

Incorrect results from date/time functions for migrated Impromptu reports
After you migrate and deploy a report to IBM Cognos Business Intelligence, date/time functions return incorrect results.

For example, the _age function returns 40,214 when it should return 4 years, 02 months, 14 days. This is an example of a function that does not migrate properly to IBM Cognos BI.

To fix this problem, open the report in IBM Cognos Report Studio and modify the function directly in the report specification.

Related concepts
Chapter 11, “Impromptu functions mapping,” on page 117

Function expression errors in migrated Impromptu reports
If a report fails to run because of function expression errors, it is possible that the migration process did not correctly identify the expression.

Open the report in IBM Cognos Report Studio, correct the expression syntax or create an equivalent expression, and run the report again.

Missing information in IBM Cognos BI error messages
IBM Cognos Business Intelligence fails when you try to run migrated reports, but the error message does not contain any details.

This happens if IBM Cognos Application Firewall (CAF) in IBM Cognos BI is enabled, which is the default setting. In this case, you can obtain error message details by accessing crnserver.log, the IBM Cognos BI server log file. For more information about the IBM Cognos BI server log file, see the IBM Cognos Configuration User Guide.

If you are in a test environment, and you need to view error details without going to the log file, you must disable CAF validation in IBM Cognos BI.

The IBM Cognos Application Firewall is an essential component of IBM Cognos BI security helping to provide protection against penetration vulnerabilities. Disabling the IBM Cognos Application Firewall removes this protection.
For information about changing the IBM Cognos BI CAF setting, see the IBM Cognos BI Installation and Configuration Guide.

**Migrated Impromptu error message: The following package was not found in the Content Store**

This message displays when you try to run a migrated report and the package specified for the report was not found.

**Related concepts**

- "Report objects not found when running reports” on page 181

When you try to run a report, an error message indicates that report objects were not found.

**Correcting missing referenced data items in master query**

When you try to run a migrated report, a runtime error displays.

The error is similar to the following:

Referenced data item \(<name>\) is not found in the query Master_Section_Query_5

This problem occurs when a query item in the page layout of the source report is not referenced in the master query. To resolve the problem, copy the data item from the detail query to the master query.

**Procedure**

1. Open the report specification in IBM Cognos Report Studio.
2. Copy the missing query items from the detail query (Query5) to the master query (Master_Section_Query5).
3. Validate the report.
4. If additional errors display, continue to modify the queries until the report validates without errors.

**Related concepts**

- "Incorrect page breaks or blank pages in migrated Impromptu reports” on page 190

An IBM Cognos Series 7 Impromptu report may include filters to limit the data that is displayed on the report. The same report may also include scope settings to break pages at a specific control break.

**Correcting runtime errors in conditional formatting expressions in migrated Impromptu reports**

When you try to run a migrated report, a runtime error displays.

The error is similar to the following:

*An error on or around the position <position>. The variable named <name> is invalid.*

This problem occurs when a layout element that contains query items in the page layout of the source report is not referenced in a query. To resolve the problem, associate the element with a query.
**Procedure**
1. Open the report specification in IBM Cognos Report Studio.
2. Create a new query.
3. Associate the new query with the layout element that contains the invalid expression.
   The layout element is usually Page Body.
4. Add the query items reported in the runtime error message to the new query.
5. Validate the report.
6. If additional errors display, continue to modify the queries until the report validates without errors.

**Correcting unhandled application errors**
When you try to run a migrated report, a runtime error displays if a query item is missing or invalid.

The error is similar to the following:

```
An unhandled application error has occurred. Please contact your Administrator.
CCLAssertError:0:Fatal: CCL_ASSERT(pRDINode);
```

This problem occurs when a query item in the page layout in the source report is not referenced in the master query. To resolve the problem, copy the query item from the detail query to the master query.

**Procedure**
1. Open the report specification in IBM Cognos Report Studio.
2. Copy the missing query items from the detail query (Query5) to the master query (Master_Section_Query5).
3. If the query items do not display in the layout, add them to the **Properties** property of the list.
4. Validate the report.
5. If additional errors display, continue to modify the queries until the report validates without errors.

**Related concepts**

“Incorrect page breaks or blank pages in migrated Impromptu reports” on page 190

An IBM Cognos Series 7 Impromptu report may include filters to limit the data that is displayed on the report. The same report may also include scope settings to break pages at a specific control break.

**Report server not responding**
After attempting to run a report, you receive an error message that states the report server is not responding.

To correct the problem, validate the report and correct errors. For example, you may have to update unresolved query references. If necessary, verify the model in IBM Cognos Framework Manager and correct errors in the model and package used by the report.

For more information, see the IBM Cognos Administration and Security Guide.
Inability to run reports against a migrated Architect model

You cannot run migrated reports against a package that was created in IBM Cognos Framework Manager from a migrated IBM Cognos Series 7 Architect model. This is because you cannot author IBM Cognos Series 7 Impromptu reports directly against an Architect model.

To author Impromptu reports against an Architect model, you must first export the Architect model to an Impromptu catalog. This catalog must then be migrated using the migratefroms7 tool.

Related tasks

Chapter 4, “Migrating metadata,” on page 19
This chapter discusses migrating metadata from IBM Cognos Series 7 Architect and IBM Cognos Series 7 Impromptu. You can skip this chapter if you are only migrating IBM Cognos Series 7 PowerPlay content.

QFS-ERR-0140 referenced data item 'Not Found' errors for migrated Impromptu reports

If you migrate an IBM Cognos Series 7 Impromptu report that uses a catalog prompt, you may get an error when you attempt to run the migrated report in IBM Cognos Business Intelligence. Catalog prompts cannot be migrated using the IBM Cognos Migration Assistant.

Before migrating Impromptu reports, review catalog prompts from the reports and create report prompts to duplicate the same functionality.

Migrated Impromptu reports take longer than expected to execute

When you attempt to run a migrated report, the report takes significantly longer to run than the original IBM Cognos Series 7 Impromptu report, or the report does not return any results and there is no error to indicate the report failed to run.

Changing the Auto Group & Summarize property to no for the Query5 object may reduce the amount of time it takes to run the report.

Correcting data in migrated Impromptu report that is not filtered

If you migrate an IBM Cognos Series 7 Impromptu report to IBM Cognos Report Studio that contains a master/detail query with a filter in the detail query, the data is not filtered when you run the report.

In the migrated report, copy the same filter to the master query.

Procedure

1. Open the report in Report Studio.

2. Pause the pointer over the query explorer button and click the detail query.

3. Click the filter that you want to copy and then click the copy button in the toolbar.

4. Pause the pointer over the query explorer button and click the master query.

5. In the toolbar, click the paste button.
Invalid operands in calculations in migrated PowerPlay reports

A message in the log file indicates that an operand for a calculation was not found in the package.

The message is similar to the following:

*The category with the code <parameter> was not found in the package named <parameter>.*

The calculation is still migrated. However, you have to modify or recreate the calculation in IBM Cognos Report Studio or IBM Cognos Analysis Studio to achieve the same results as the original report.

Cells containing -- or #!Error in migrated PowerPlay reports

If an IBM Cognos Series 7 PowerPlay report uses an alternate hierarchy on both axes, and the Show Values As % of Grand Total setting is applied to the data, the correct data may not display in the cells after you migrate the report.

You may see the following instead:

- -- may display in the cells if you migrated the reports to IBM Cognos Report Studio
- #!Error may display in the cells if you migrated the report to IBM Cognos Analysis Studio

Extra or missing rows and columns in migrated PowerPlay Reports

If you migrate an IBM Cognos Series 7 PowerPlay report that has zero suppression turned on, you may see extra rows and columns or, conversely, some rows and columns in the PowerPlay report do not display in the migrated report.

Zero suppression is implemented differently in PowerPlay and in IBM Cognos Business Intelligence.

Related concepts

"Zero Suppression" on page 137
Zero suppression is partially migrated.

PowerPlay reports that reference missing categories migrate improperly or will not run

The problem occurs when you migrate an IBM Cognos Series 7 PowerPlay report which references categories that do not exist in the cube.

This can happen when a report was created with a version of the cube that is different from the cube used in IBM Cognos Business Intelligence. For example, a category with a code of Toasters existed in the cube when the report was authored. In the cube used for the migration to IBM Cognos BI, the category Toasters was removed and replaced with a new category, Super Toasters. This means that when IBM Cognos BI queries the cube for Toasters, it is unable to find a category matching that code.

Reports which exhibit this problem often continue to work in IBM Cognos Series 7 because PowerPlay can resolve changes to categories in some cases.
PowerPlay is notified that Toasters does not exist, it will examine the usage of this category in the report. It could discover that the category is a member of the second level of the Products dimension. PowerPlay then asks the cube to provide the root category of the second level of the Products dimension, which, in this case, would be Super Toasters. After it identifies this new category, it substitutes the old category at runtime and the report, if the new category is semantically equivalent, renders correctly.

The IBM Cognos Migration Assistant does not have the context available to PowerPlay to resolve missing categories. Therefore, Toasters comes back as missing. The Migration Assistant writes the following message to the log:

*The category with code 'Toasters' was not found in the package named 'My Package'.*

To correct the problem, open and save the report in PowerPlay against the same cube used in IBM Cognos BI. This updates the report and removes any categories that no longer exist in the cube. In some cases you must manually update the report to ensure it contains the correct categories. After updating the report in PowerPlay, repeat the migration to IBM Cognos BI process and then test the migrated report to verify the report opens and runs correctly.

**Different rank values in migrated reports**

When you migrate an IBM Cognos Series 7 PowerPlay for Windows report that contains ranking, the rank values may be different in IBM Cognos Business Intelligence.

The IBM Cognos Migration Assistant migrates ranking using the PowerPlay Web method to rank data. If you create the same report in PowerPlay Web, rank values in PowerPlay Web and IBM Cognos BI match.

Related concepts

[*Ranking Across Dimensions or Hierarchies* on page 140]

Ranking across dimensions or hierarchies is not migrated.

**Additional summary rows in migrated PowerPlay Web reports**

When migrating IBM Cognos Series 7 PowerPlay Web reports that contain nested rows under a summary row, a nested row displays for each summary row in the migrated report.

For example, a PowerPlay Web report has Years and Locations as rows, with Locations nested, and a summary row for Years. In the migrated report, nested rows display under the summary rows for Years. Although this behavior is different than PowerPlay Web, it is consistent with PowerPlay for Windows.

There is no workaround.

**Migrated PowerPlay report error message: Using generic mapping for variable**

This message indicates that a variable in a title, header, or footer in a migrated report may not retain its original meaning because of generic mapping. Consequently, the results may not be correct.

This can occur if the IBM Cognos Series 7 PowerPlay variable cannot map directly to an IBM Cognos Business Intelligence function.
To ensure that the function provides correct results, use IBM Cognos Report Studio to review the function in the IBM Cognos BI report specification, and make changes if appropriate.

Related concepts

"Report Formatting Mappings" on page 143

Report formatting is not available in IBM Cognos Analysis Studio. To preserve report formatting, specify IBM Cognos Report Studio as the target application.

**Migrated PowerPlay report error message: The following variable is not supported**

This message indicates that a variable in a title, header, or footer in a migrated report may not retain its original meaning because it is not supported. Consequently, the results may not be correct.

This can occur if the IBM Cognos Series 7 PowerPlay variable cannot map directly to an IBM Cognos Business Intelligence function.

To ensure that the function provides correct results, use IBM Cognos Report Studio to review the function in the IBM Cognos BI report specification, and make changes if appropriate.

Related concepts

"Report Formatting Mappings" on page 143

Report formatting is not available in IBM Cognos Analysis Studio. To preserve report formatting, specify IBM Cognos Report Studio as the target application.

**Calculations using Average return different values in migrated PowerPlay report**

An IBM Cognos Series 7 PowerPlay report containing a calculation that is the average of 'na' and a constant returns 'na'. After migration to IBM Cognos Report Studio, the calculation returns the constant.

For example, a PowerPlay report has Years as rows, Product lines as columns, and Revenue as the measure. For the year 2004, the value 'na' displays for Mountaineering Equipment. You add the calculation Average(Mountaineering Equipment, 3) as a column in the report. For the year 2004, the value 'na' displays for this calculation because in PowerPlay, Average('na', 3) returns 'na'. In the migrated report, the value 3 displays.

In IBM Cognos Business Intelligence, the Average function ignores empty values and returns the average of non-empty values. Consequently, Average('na', 3) returns 3.

**No data in migrated PowerPlay pie, bar, and line charts**

If you migrate a pie, bar, or line chart with displays/layers and summaries to IBM Cognos Report Studio, you see an empty chart or incorrect values in the chart when you run the report.

To correct the problem, remove the summaries in the migrated report.

**Procedure**

1. Open the migrated report in Report Studio.
2. In the chart layout, delete the summaries from categories or from series slices.
For categories, an example of a summary is <#{Sales Territory_Summary#}>

3. Right-click the chart and click Go to Query.

4. Double-click a data item that has a name that starts with PageSet1_layers_.
   For example, PageSet1_layers_Year.

5. Remove summaries from the data item expression.
   For example, if you have the expression `union([Year],[Year_Summary])`, change it to `[Year]`

6. Repeat steps 4 and 5 to modify all data items that start with PageSet1_layers_.

**Results**

When you run the report, data is rendered in the chart.

### Migrated reports with a single measure on X or Y Axis do not run in Report Studio

When migrating an IBM Cognos Series 7 PowerPlay Web report that has a single measure on the x or y axis to IBM Cognos Report Studio, the report is not valid and does not run.

The following error displays:

`RSV-VAL-0003 Unable to find the item <measure name>_Summary in the query <query name>`.

In Report Studio, a new node `<measure name>_Summary` is created in the crosstab. A red x displays on the node indicating a problem.

To resolve the problem, delete the new node from the report.

### Problems with Report Formatting

This section describes report formatting problems you may encounter after migration.

**Reports look different in IBM Cognos BI than in Impromptu**

After you open a migrated report in IBM Cognos Business Intelligence, some style elements may be different from what they were in IBM Cognos Series 7 Impromptu.

This is because IBM Cognos Series 7 and IBM Cognos BI have different default style settings. For example, the list grid that was visible in Impromptu is not visible in IBM Cognos BI.

To set the styles to match default settings that existed in Impromptu, modify the report specification in IBM Cognos Report Studio. For more information, see the Report Studio User Guide.
When you view your reports in IBM Cognos Business Intelligence, you may see a difference in their appearance.

Chapter 9, “Impromptu reports mapping,” on page 101

The information in this section will help you understand the mapping of objects when migrating IBM Cognos Series 7 Impromptu reports to IBM Cognos Business Intelligence. You can migrate Impromptu reports to IBM Cognos Report Studio only.

Missing headers or footers

After you migrate and deploy a list report to IBM Cognos Business Intelligence, headers or footers that contain no text seem to be missing.

The header or footer object is still present in the report specification, but the height is set to zero.

To make the header or footer visible in the report output, add a text value to the object in IBM Cognos Report Studio. For more information, see the Report Studio User Guide.

Charts or images not displaying correctly

After you migrate a report that contains charts or images, the charts or images do not display correctly. For example, a chart in a table cell may not display or may be difficult to read.

This display problem may be related to incompatible sizing settings for the chart or image.

To correct the display, in IBM Cognos Report Studio, check the Size and Overflow property for the chart or image object and, if necessary, delete or change the migrated settings.

Incorrect page breaks or blank pages in migrated Impromptu reports

An IBM Cognos Series 7 Impromptu report may include filters to limit the data that is displayed on the report. The same report may also include scope settings to break pages at a specific control break.

For this type of report, the migration tool must create two queries: a master query that manages the page control breaks, and a detail query that renders the results as with the original Impromptu query. When you run the report after migration, some of the pages are blank or incomplete.

The problem is incorrect filter settings in the master and detail queries. In the original Impromptu report, there is usually a filter on the control break item. In the migrated report, the detail query has this filter, but the master does not. Therefore, the master query returns results for control break values that are filtered out by the detail query. For example, the master query would return a row for Product X, the detail query would return no rows for Product X because it is filtered out, resulting in a rendered page that is mostly blank.
To correct the problem, copy the portion of the detail query filter that affects the control break item into the master query filter. This change means both queries are filtered the same way with respect to the control break item.

Related tasks
- “Correcting missing referenced data items in master query” on page 183
- “Correcting unhandled application errors” on page 184

When you try to run a migrated report, a runtime error displays if a query item is missing or invalid.

**Pie charts not showing any segments in migrated PowerPlay reports**

Because of differences in the way IBM Cognos Series 7 and IBM Cognos Business Intelligence handle summaries when creating pie charts, a pie chart in a migrated report may display with no data in IBM Cognos BI.

To correct the display in IBM Cognos BI, unhide the details rows or use a different chart type.

**Duplicate categories in migrated PowerPlay reports that contain custom subsets**

An IBM Cognos Series 7 PowerPlay custom subset can include both a search condition and a picklist. When you migrate a report that includes this type of custom subset to Analysis Studio, the migrated report may contain duplicate categories.

For example, if your custom subset includes a search condition that adds children of years beginning with 2, and you explicitly include the year 2005, the migrated report will contain two instances of 2005.

This problem does not occur if you migrate the report from PowerPlay to IBM Cognos Report Studio.

To correct the duplication in IBM Cognos Analysis Studio, delete the duplicate category.

**Row of data missing in Analysis Studio for migrated PowerPlay reports**

In IBM Cognos Series 7 PowerPlay, a report may use an unbalanced hierarchy. An unbalanced hierarchy is a subdimension that provides different levels of detail for specific categories.

For example, some branch offices may report product sales down to the item level, whereas others may report only to the product level. You can create a subdimension for those branches that report to the item level.

When you migrate a report that uses an unbalanced hierarchy to IBM Cognos Analysis Studio, one or more of the original rows may not display in the migrated report.
Charts not displaying correctly
After you migrate a report that contains a chart, some objects may not display correctly. For example, the chart may be larger than expected, or labels may overlap.

To correct the display, manually adjust the size of the chart or related objects, such as the font size used in labels.

Extra columns in migrated PowerPlay reports
Because of differences between IBM Cognos Series 7 PowerPlay for Windows and PowerPlay Web, there can be differences in the display of the same report. For example, a ranking column that displays in PowerPlay for Windows does not display when you open the report in PowerPlay Web.

Depending on where the report was originally authored, a migrated report may show features that displayed only in PowerPlay for Windows. For example, the ranking category that did not display in PowerPlay Web does display in the report after migration.

Shared custom exception definitions not applied in migrated PowerPlay reports
In IBM Cognos Series 7 PowerPlay, shared custom exception definitions are applied at runtime. Because the migration process only migrates saved report specifications, shared custom exception definitions are not migrated.

To apply shared custom definitions in a migrated report, save the report. The shared custom definitions are saved in the ppx file, and as a result they will be migrated when you migrate the report.

Related concepts
“Custom Exception Definitions and Formatting” on page 136
Custom exception definitions and formatting are migrated only to IBM Cognos Report Studio.

Problems with security
This section describes problems with migrating security.

Access control list not migrated as expected
After deploying IBM Cognos Series 7 Web-based content from IBM Cognos Series 7 Upfront to IBM Cognos Business Intelligence, security settings are not as expected.

Confirm that you completed the following tasks:
- IBM Cognos BI is configured to use the same namespace as IBM Cognos Series 7.
- The migratefroms7 command included the --acl 2 parameter.
- The deployfroms7 command included the correct namespace ID.
  This must be the namespace ID for the Series 7 namespace in IBM Cognos Configuration.
If you did not complete all of the tasks correctly, you must repeat the migration process, or manually apply the required security in IBM Cognos BI. For more information about configuring security in IBM Cognos BI, see the IBM Cognos Administration and Security Guide.
Appendix B. Samples

The samples provided demonstrate how IBM Cognos Series 7 content is migrated to IBM Cognos Business Intelligence using the IBM Cognos Migration Assistant.

In addition, the migrated reports were modified after migration to highlight features that are available only in IBM Cognos BI or features that are improvements over IBM Cognos Series 7. Consequently, there are two sets of samples provided, migrated samples and modified samples.

The samples included with the Migration Assistant are in English only. Migration samples in other languages are available from the Cognos Customer Center [http://www.ibm.com/software/data/cognos/customercenter](http://www.ibm.com/software/data/cognos/customercenter).

For information about how to set up the samples, see the Migration Assistant Installation and Configuration Guide.

IBM Cognos Series 7 content

In addition to the migrated content, the source IBM Cognos Series 7 content is provided so that you can compare source applications with migrated applications.

The IBM Cognos Series 7 content includes a PowerCube, IBM Cognos Series 7 PowerPlay reports, an IBM Cognos Series 7 Impromptu catalog, and IBM Cognos Series 7 Impromptu Web Report reports.

PowerCube sample

The Great Outdoors PowerCube sample is used as the data source for the migrated PowerPlay reports.

The PowerCube is located in the `c10_location/webcontent/samples/reports/PowerPlay/EN` directory.

PowerPlay report samples

The IBM Cognos Series 7 PowerPlay report samples are located in the `c10_location/webcontent/samples/reports/PowerPlay/EN` directory.

Impromptu catalog sample

The IBM Cognos Series 7 Impromptu catalog sample gosales.cat is used as the data source for the migrated Impromptu Web Reports reports.

The catalog is located in the `c10_location/webcontent/samples/reports/IWR/EN` directory.

Impromptu Web Reports report samples

The IBM Cognos Series 7 Impromptu Web Reports report samples that are provided use the gosales.cat catalog sample.

The reports are located in the `c10_location/webcontent/samples/reports/IWR/EN` directory.
Migrated content

The migrated content is organized in IBM Cognos Connection in several packages. These packages are located in the Samples/Migration folder in Public Folders.

The Great Outdoors package contains IBM Cognos Series 7 PowerPlay reports that were migrated to both IBM Cognos Analysis Studio and IBM Cognos Report Studio. In this package, there are two folders. The PowerPlay reports (Migrated) folder contains the PowerPlay reports after migration. The PowerPlay reports (Modified) folder contains the PowerPlay reports that were modified in Analysis Studio and Report Studio after migration. Some reports were modified to replicate PowerPlay functionality that is not migrated or is different in IBM Cognos Business Intelligence.

The gosales.cat package contains the IBM Cognos Series 7 Impromptu Web Reports reports that were migrated to Report Studio. No modifications were made to these reports.

Sample Framework Manager model and publishing packages

You can use the sample IBM Cognos Framework Manager model located in the $c10_location/webcontent/samples/Models/PowerCubes_Migrated/EN/Great Outdoors directory to publish the package required to run the migrated reports.

Alternatively, you can create the package when you create the data source connection to the sample PowerCube. For more information about creating the data source connection to the sample PowerCube, see the Migration Assistant Installation and Configuration Guide.

PowerPlay report samples

The following sections describe the source IBM Cognos Series 7 PowerPlay report samples and the features that each one contains.

Charting options sample
Bar chart with background, header with the report file name, report file date, company name, and customer name.

In the migrated IBM Cognos Report Studio report, the Mean value is included. The Mean value and the background were not migrated to IBM Cognos Analysis Studio.

In addition, the Products layers were not migrated to Analysis Studio. The Products dimension was added as a context filter in the modified Analysis Studio report.

Currency (Reporter) sample
Report showing currencies converted in different rates. IBM Cognos Business Intelligence does not support currency conversion, so the migrated reports show data with the default currency symbol.

External rollup sample
Report showing the External Rollup Customer Count calculation. The External Rollup function summarizes measure values in the PowerCube.
To match the IBM Cognos Series 7 PowerPlay report, the data in the modified IBM Cognos Report Studio report is aligned to center and the subtotals are formatted in bold and in blue.

The following is the source PowerPlay report.

<table>
<thead>
<tr>
<th></th>
<th>2004 Q 1</th>
<th>2004 Q 2</th>
<th>2004 Q 3</th>
<th>2004 Q 4</th>
<th>2004</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2004 Q 1</td>
<td>2004 Q 2</td>
<td>2004 Q 3</td>
<td>2004 Q 4</td>
<td>2004</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Customer Count (External Rollup)</th>
<th>69</th>
<th>102</th>
<th>163</th>
<th>258</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>70</td>
<td>112</td>
<td>141</td>
<td>102</td>
</tr>
<tr>
<td></td>
<td></td>
<td>132</td>
<td>160</td>
<td>88</td>
<td>88</td>
</tr>
<tr>
<td></td>
<td></td>
<td>221</td>
<td>311</td>
<td>303</td>
<td>318</td>
</tr>
<tr>
<td></td>
<td></td>
<td>349</td>
<td>349</td>
<td>349</td>
<td>349</td>
</tr>
</tbody>
</table>

The following is the report migrated to IBM Cognos Analysis Studio.
Forecasting sample
Report showing a forecasting calculation in a crosstab with indented levels.

The following modifications and enhancements were made to the report in IBM Cognos Report Studio after migration. The modifications simulate forecasting in IBM Cognos Series 7 PowerPlay:
- Added two calculations, named Target and Tolerance, to simulate forecasting calculations which are not supported in IBM Cognos Business Intelligence.
- Added filters for prompting and drill-through.
- Added zero suppression.
- Added a Pareto stacked column with a 3-D visual effect chart.

The following is the source PowerPlay report.

<table>
<thead>
<tr>
<th></th>
<th>Customer Count (External Rollup)</th>
</tr>
</thead>
</table>
| 2004 Q 1 | 2004/Q1  
2004/Q1/Jan | 639 |
|         | 2004/Q1/Feb | 70  |
|         | 2004/Q1/Mar | 132 |
|         | 2004/Q1/Jul | 321 |
| 2004 Q 2 | 2004/Q2  
2004/Q2/Apr | 182 |
|         | 2004/Q2/May | 112 |
|         | 2004/Q2/Jun | 160 |
|         | 2004/Q2/Jul | 163 |
| 2004 Q 3 | 2004/Q3  
2004/Q3/Aug | 113 |
|         | 2004/Q3/Sep | 141 |
|         | 2004/Q3/Oct | 303 |
|         | 2004/Q3/Nov | 258 |
|         | 2004/Q3/Dec | 102 |
|         | 2004/Q3/Jan | 88  |
|         | 2004/Q3/Jul | 316 |
| 2004 Q 4 | 2004/Q4  
2004/Q4/Jan | 349 |
<table>
<thead>
<tr>
<th></th>
<th>Campign Equipment</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
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<td>2006</td>
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<td>Forecast</td>
<td>Years</td>
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<tr>
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</tr>
<tr>
<td></td>
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<td>2006</td>
<td>2006</td>
<td>Forecast</td>
<td>Years</td>
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<tr>
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<td>1,702,350</td>
<td>2,937,207</td>
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<tr>
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<td></td>
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</tr>
<tr>
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<td>2006</td>
<td>2006</td>
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<td>Years</td>
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</tr>
</tbody>
</table>

The following is the report modified in Report Studio.
### Nested crosstab 1 sample

Crosstab with title showing the report file name, MDC file name, MDC file date, MDC file time, MDC description, user name, company name, and current period.

The IBM Cognos Series 7 PowerPlay report is formatted with the Indented crosstab layout. To replicate this feature, child rows were indented in the modified IBM Cognos Report Studio report. The title was also aligned. The title does not display in the migrated IBM Cognos Analysis Studio report.

The following is the source PowerPlay report.

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<tr>
<th></th>
<th>2004</th>
<th>Target</th>
<th>Tolerance</th>
<th>Years</th>
</tr>
</thead>
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<td></td>
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<td>19,960</td>
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<td>8,585,680</td>
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<td>4,093,671</td>
<td>61,707,654</td>
</tr>
<tr>
<td><strong>Mountaineering Equipment</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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<td>0</td>
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<tr>
<td>Southern Europe</td>
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<td>3,587,505</td>
</tr>
<tr>
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<td>0</td>
<td>20,688,651</td>
</tr>
<tr>
<td><strong>Personal Accessories</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Americas</td>
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<td>500,765</td>
<td>8,934,509</td>
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<tr>
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<td>475,424</td>
<td>9,817,997</td>
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<td>162,927</td>
<td>5,460,678</td>
</tr>
<tr>
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<tr>
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<td>31,681,002</td>
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<tr>
<td><strong>Outdoor Protection</strong></td>
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<td></td>
</tr>
<tr>
<td>Americas</td>
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<td>936,627</td>
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<tr>
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</tbody>
</table>
The following is the report modified in Report Studio.

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<th>Year</th>
<th>Belgium</th>
<th>France</th>
<th>Germany</th>
<th>Italy</th>
<th>Spain</th>
<th>Sweden</th>
<th>United Kingdom</th>
</tr>
</thead>
<tbody>
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<td></td>
<td></td>
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<td>903943</td>
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<td>3789592</td>
<td></td>
</tr>
<tr>
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<td>131944</td>
<td>90516</td>
<td>268604</td>
<td>628509</td>
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</tr>
<tr>
<td>2004 Q 3</td>
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<td>784473</td>
<td>760657</td>
<td>234605</td>
<td>566610</td>
<td>1111020</td>
<td></td>
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<td>918148</td>
<td>464648</td>
<td>279072</td>
<td>420224</td>
<td>820961</td>
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<td>2005</td>
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<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>2005 Q 1</td>
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<td>3793569</td>
<td>6421256</td>
<td>1644557</td>
<td>483805</td>
<td>4095216</td>
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</tr>
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<td>2005 Q 2</td>
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<td>529543</td>
<td>1743144</td>
<td>331327</td>
<td>197208</td>
<td>288531</td>
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</tr>
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<tr>
<td>2006</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>2006 Q 1</td>
<td>2146395</td>
<td>4443860</td>
<td>7004854</td>
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<td>1698722</td>
<td>5482424</td>
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</tr>
<tr>
<td>2006 Q 2</td>
<td>209940</td>
<td>825304</td>
<td>1952462</td>
<td>144509</td>
<td>544342</td>
<td>978388</td>
<td>615487</td>
</tr>
</tbody>
</table>
Nested Crosstab 2 sample
Report showing nested crosstab with subtotals and dimension formatting, and two nested measures in the column. To replicate zero suppression, the filter Revenue > 0 was added to the modified IBM Cognos Report Studio report.

Tip: The Zero Suppression Sample is an example of migrated zero suppression.

Parentage subset sample
Report containing a parentage subset definition using the qualifier Next level children for the Years dimension.

In the modified IBM Cognos Analysis Studio report, the default number of visible items is set to 28 and rows are sorted by labels in ascending order.

Pie chart sample
Chart showing multiple pies.

The migrated IBM Cognos Report Studio is similar to the source IBM Cognos Series 7 PowerPlay report, while the migrated IBM Cognos Analysis Studio report shows all pies in a single page.

The following is the source PowerPlay report.
The following is the report migrated to Report Studio.

<table>
<thead>
<tr>
<th>Products</th>
<th>2004</th>
<th>2005</th>
<th>2008</th>
<th>Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camping Equipment</td>
<td>20,469,356</td>
<td>31,370,878</td>
<td>37,867,420</td>
<td>89,707,654</td>
</tr>
<tr>
<td>Golf Equipment</td>
<td>5,597,412</td>
<td>9,597,303</td>
<td>10,708,570</td>
<td>25,803,285</td>
</tr>
<tr>
<td>Mountaineering</td>
<td>0</td>
<td>9,640,993</td>
<td>11,247,858</td>
<td>20,888,851</td>
</tr>
<tr>
<td>Outdoor Protection</td>
<td>1,535,468</td>
<td>987,353</td>
<td>646,227</td>
<td>3,169,043</td>
</tr>
<tr>
<td>Personal Accessories</td>
<td>7,143,737</td>
<td>10,954,225</td>
<td>13,793,040</td>
<td>31,891,002</td>
</tr>
<tr>
<td><strong>Products</strong></td>
<td><strong>34,745,973</strong></td>
<td><strong>62,550,752</strong></td>
<td><strong>74,263,115</strong></td>
<td><strong>171,559,840</strong></td>
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</tbody>
</table>
The following is the report migrated to Analysis Studio.

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<tr>
<th>Revenue</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>Years</th>
</tr>
</thead>
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<td>Camping Equipment</td>
<td>20,469,356</td>
<td>31,370,879</td>
<td>37,867,420</td>
<td>69,707,654</td>
</tr>
<tr>
<td>Golf Equipment</td>
<td>5,597,412</td>
<td>9,597,303</td>
<td>10,706,570</td>
<td>25,903,285</td>
</tr>
<tr>
<td>Mountaineering</td>
<td>0</td>
<td>9,540,993</td>
<td>11,247,658</td>
<td>20,888,651</td>
</tr>
<tr>
<td>Outdoor Protection</td>
<td>1,535,468</td>
<td>987,353</td>
<td>646,227</td>
<td>3,169,048</td>
</tr>
<tr>
<td>Personal Accessories</td>
<td>7,143,737</td>
<td>10,954,225</td>
<td>13,793,040</td>
<td>31,991,002</td>
</tr>
<tr>
<td>Products</td>
<td>34,745,973</td>
<td>62,553,752</td>
<td>74,263,115</td>
<td>171,559,840</td>
</tr>
</tbody>
</table>
Ranking sample
Report showing rank.

The color of the rank row in the source IBM Cognos Series 7 PowerPlay report is not migrated to IBM Cognos Analysis Studio.

The following is the source PowerPlay report.
The following is the report migrated to IBM Cognos Report Studio.

<table>
<thead>
<tr>
<th></th>
<th>Central Europe</th>
<th>Asia Pacific</th>
<th>Americas</th>
<th>Northern Europe</th>
<th>Southern Europe</th>
</tr>
</thead>
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</tr>
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<td>Department Store</td>
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<td>243,960</td>
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<td>626,424</td>
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<td>198,379</td>
<td>232,057</td>
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<td>Equipment Rental Store</td>
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</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Outdoors Shop</td>
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<tr>
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<td>911,249</td>
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<td>654,067</td>
</tr>
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</tr>
<tr>
<td>Department Store</td>
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<td>592,440</td>
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<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
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<td>1,147,803</td>
<td>1,162,923</td>
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<tr>
<td>Warehouse Store</td>
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<td>0</td>
<td>1,780,843</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>2006</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department Store</td>
<td>2,121,110</td>
<td>1,267,083</td>
<td>5,677,205</td>
<td>1,174,334</td>
<td>1,127,572</td>
</tr>
<tr>
<td>Direct Marketing</td>
<td>1,802,523</td>
<td>464,439</td>
<td>459,772</td>
<td>639,573</td>
<td>0</td>
</tr>
<tr>
<td>Equipment Rental Store</td>
<td>111,914</td>
<td>15,244</td>
<td>170,724</td>
<td>244,956</td>
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</tr>
<tr>
<td>Eyewear Store</td>
<td>50,555</td>
<td>40,565</td>
<td>74,080</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
The following is the report migrated to Analysis Studio.

<table>
<thead>
<tr>
<th>Year</th>
<th>Revenue</th>
<th>Central Europe</th>
<th>Asia Pacific</th>
<th>Americas</th>
<th>Northern Europe</th>
<th>Southern Europe</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>Department Store</td>
<td>1,215,511</td>
<td>243,980</td>
<td>4,299,900</td>
<td>534,445</td>
<td>652,263</td>
</tr>
<tr>
<td></td>
<td>Direct Marketing</td>
<td>526,424</td>
<td>198,834</td>
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<td>232,057</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Equipment Rental Store</td>
<td>82,199</td>
<td>0</td>
<td>220,663</td>
<td>42,724</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Eyewear Store</td>
<td>60,766</td>
<td>1,461</td>
<td>73,113</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Golf Shop</td>
<td>1,101,202</td>
<td>803,053</td>
<td>495,779</td>
<td>276,717</td>
<td>205,812</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rank (Golf Shop)</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outdoors Shop</td>
<td>4,895,268</td>
<td>149,696</td>
<td>5,611,253</td>
<td>1,639,240</td>
<td>2,269,355</td>
</tr>
<tr>
<td>Sports Store</td>
<td>1,231,342</td>
<td>611,240</td>
<td>2,909,059</td>
<td>612,104</td>
<td>654,067</td>
</tr>
<tr>
<td>Warehouse Store</td>
<td>1,093,757</td>
<td>0</td>
<td>1,601,120</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>Revenue</th>
<th>Central Europe</th>
<th>Asia Pacific</th>
<th>Americas</th>
<th>Northern Europe</th>
<th>Southern Europe</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>Department Store</td>
<td>2,075,157</td>
<td>941,458</td>
<td>3,360,577</td>
<td>1,211,724</td>
<td>990,291</td>
</tr>
<tr>
<td></td>
<td>Direct Marketing</td>
<td>1,620,379</td>
<td>314,483</td>
<td>341,464</td>
<td>647,566</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Equipment Rental Store</td>
<td>40,366</td>
<td>20,600</td>
<td>126,135</td>
<td>174,135</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Eyewear Store</td>
<td>43,913</td>
<td>35,188</td>
<td>63,334</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Golf Shop</td>
<td>1,835,632</td>
<td>2,101,736</td>
<td>697,942</td>
<td>392,758</td>
<td>592,448</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rank (Golf Shop)</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outdoors Shop</td>
<td>9,092,006</td>
<td>1,948,743</td>
<td>8,101,804</td>
<td>8,924,237</td>
<td>1,264,297</td>
</tr>
<tr>
<td>Sports Store</td>
<td>3,102,337</td>
<td>1,179,140</td>
<td>3,499,334</td>
<td>1,147,803</td>
<td>1,152,529</td>
</tr>
<tr>
<td>Warehouse Store</td>
<td>1,311,917</td>
<td>0</td>
<td>1,780,848</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>Revenue</th>
<th>Central Europe</th>
<th>Asia Pacific</th>
<th>Americas</th>
<th>Northern Europe</th>
<th>Southern Europe</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>Department Store</td>
<td>2,121,119</td>
<td>1,297,053</td>
<td>5,617,205</td>
<td>1,174,334</td>
<td>1,127,572</td>
</tr>
<tr>
<td></td>
<td>Direct Marketing</td>
<td>1,802,523</td>
<td>494,439</td>
<td>459,772</td>
<td>639,573</td>
<td>0</td>
</tr>
</tbody>
</table>
Sales plan correlation sample

Report showing a crosstab and correlation chart. The chart is a correlation between Quantity sold and Product plan.

Correlation charts are migrated to standard line charts in IBM Cognos Analysis Studio. The modified Analysis Studio report has the following changes:

- The measures Quantity sold and Product plan were added as columns.
- The chart type was changed to stacked column chart to compare values for the two measures.

The following is the source IBM Cognos Series 7 PowerPlay report.

<table>
<thead>
<tr>
<th></th>
<th>Central Europe</th>
<th>Asia Pacific</th>
<th>Americas</th>
<th>Northern Europe</th>
<th>Southern Europe</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department Store</td>
<td>1,215,511</td>
<td>243,790</td>
<td>1,299,900</td>
<td>534,445</td>
<td>552,363</td>
</tr>
<tr>
<td>Direct Marketing</td>
<td>526,424</td>
<td>198,834</td>
<td>198,379</td>
<td>232,057</td>
<td>0</td>
</tr>
<tr>
<td>Equipment Rental Store</td>
<td>82,199</td>
<td>0</td>
<td>220,563</td>
<td>42,724</td>
<td>0</td>
</tr>
<tr>
<td>Eyewear Store</td>
<td>60,768</td>
<td>1,461</td>
<td>73,113</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Golf Shop</td>
<td>1,101,302</td>
<td>803,953</td>
<td>498,779</td>
<td>275,717</td>
<td>205,812</td>
</tr>
<tr>
<td>Rank (Golf Shop)</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Outdoors Shop</td>
<td>4,895,268</td>
<td>149,696</td>
<td>5,611,253</td>
<td>1,639,240</td>
<td>2,269,355</td>
</tr>
<tr>
<td>Sports Store</td>
<td>1,231,342</td>
<td>611,246</td>
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<tr>
<td>Warehouse Store</td>
<td>1,093,757</td>
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<td>1,601,120</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2005</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Department Store</td>
<td>2,075,197</td>
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<td>4,860,577</td>
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<td>990,291</td>
</tr>
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<td>Direct Marketing</td>
<td>1,620,379</td>
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<td>341,484</td>
<td>647,566</td>
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</tr>
<tr>
<td>Equipment Rental Store</td>
<td>49,666</td>
<td>20,609</td>
<td>126,135</td>
<td>174,135</td>
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</tr>
<tr>
<td>Eyewear Store</td>
<td>43,913</td>
<td>35,188</td>
<td>63,334</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Golf Shop</td>
<td>1,835,632</td>
<td>2,101,738</td>
<td>657,942</td>
<td>392,758</td>
<td>592,448</td>
</tr>
<tr>
<td>Rank (Golf Shop)</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>Outdoors Shop</td>
<td>9,092,000</td>
<td>1,940,743</td>
<td>9,101,004</td>
<td>6,924,237</td>
<td>4,264,297</td>
</tr>
<tr>
<td>Sports Store</td>
<td>3,102,337</td>
<td>1,179,140</td>
<td>3,499,354</td>
<td>1,147,803</td>
<td>1,152,929</td>
</tr>
<tr>
<td>Warehouse Store</td>
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<td>1,760,948</td>
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</tr>
<tr>
<td>2006</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department Store</td>
<td>2,121,119</td>
<td>1,297,053</td>
<td>5,617,205</td>
<td>1,174,334</td>
<td>1,127,572</td>
</tr>
<tr>
<td>Direct Marketing</td>
<td>1,802,523</td>
<td>494,139</td>
<td>459,772</td>
<td>639,573</td>
<td>0</td>
</tr>
</tbody>
</table>
The following is the report migrated to IBM Cognos Report Studio.

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<th>Locations</th>
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<th>2005</th>
<th>2006</th>
</tr>
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<tbody>
<tr>
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<tr>
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<tr>
<td>Northern Europe</td>
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<td>131288</td>
<td>146766</td>
</tr>
<tr>
<td>Southern Europe</td>
<td>72766</td>
<td>93118</td>
<td>100052</td>
</tr>
<tr>
<td><strong>Locations</strong></td>
<td><strong>561706</strong></td>
<td><strong>789730</strong></td>
<td><strong>863918</strong></td>
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</table>
The following is the report migrated to Analysis Studio.

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<th>Locations</th>
<th>Quantity Sold</th>
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<th>2005</th>
<th>2006</th>
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<tbody>
<tr>
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<td>210046</td>
<td>221384</td>
<td>256348</td>
</tr>
<tr>
<td>Asia Pacific</td>
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<td>56532</td>
<td>94252</td>
<td>99314</td>
</tr>
<tr>
<td>Central Europe</td>
<td></td>
<td>154888</td>
<td>249688</td>
<td>261438</td>
</tr>
<tr>
<td>Northern Europe</td>
<td></td>
<td>67474</td>
<td>131288</td>
<td>146766</td>
</tr>
<tr>
<td>Southern Europe</td>
<td></td>
<td>72766</td>
<td>93118</td>
<td>100052</td>
</tr>
</tbody>
</table>
The following is the report modified in Analysis Studio.

<table>
<thead>
<tr>
<th>Quantity Sold</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>Americas</td>
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<tr>
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<td>94252</td>
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<td>Central Europe</td>
<td>154888</td>
<td>249688</td>
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</tr>
<tr>
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<td>67474</td>
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</tr>
<tr>
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<td>93110</td>
<td>100052</td>
</tr>
<tr>
<td>Locations</td>
<td>561706</td>
<td>789730</td>
<td>863918</td>
</tr>
</tbody>
</table>
**Stacked bar depth sample**

Report showing a crosstab and a stacked bar (depth) chart.

The report migrates well to IBM Cognos Report Studio. When migrated to IBM Cognos Analysis Studio, depth visibility is lost. In the modified Analysis Studio report, the chart type is set to 3-D visual effect to view the bar in depth.

The following is the source IBM Cognos Series 7 PowerPlay report.
The following is the report migrated to Analysis Studio.

The following is the report modified in Analysis Studio.
Zero suppression sample
Crosstab report formatted as Indented 2 crosstab layout and with zero suppression applied.

When zero suppression is not applied, there are seven rows having all zero values. This report is successfully migrated to both IBM Cognos Report Studio and IBM Cognos Analysis Studio.

Impromptu Web Reports report samples
The following sections describe the source IBM Cognos Series 7 Impromptu Web Reports report samples. No modifications were made to these reports after migration.

Customer satisfaction sample
Report demonstrating conditional formats.

Income from customers sample
Report showing a list of retailers ranked by income.

Products sample
Report showing all products.

Sales staff report sample
Report demonstrating grouped lists. Members of the sales staff are grouped by position and sorted by last name.

Simple crosstab report sample
Report showing annual revenue totals for each product line.
Appendix C. Migration worksheet

Before you use the IBM Cognos Migration Assistant, record the information you need for the command line tools and for other tasks such as checking package mapping. You may need to contact your administrator for some of the information.

**Information for the arch2xml74 tool**
- Source location and name of the IBM Cognos Series 7 Architect models

- Target location for the XML output. Create the target location before you run the arch2xml74 command.

- IBM Cognos Series 7 Access Manager user ID

- User password

- Name of the published IBM Cognos Framework Manager package

**Information for the migratefroms7 tool to migrate Impromptu catalogs**
- Source location and name of the IBM Cognos Series 7 Impromptu catalogs

- Target location for the XML output. Create the target location before you run the migratefroms7 tool.

- User class ID

- User ID

- User password

- Access Manager user ID

- User password

- Name of the published Framework Manager package. Use the catalog name for the package name.
**Information for the migratefroms7 tool to migrate applications**

- Source location of the reports

  _______________________________________________________
  _______________________________________________________
  _______________________________________________________
  _______________________________________________________

- Source location and name of the IBM Cognos Series 7 Deployment Manager package files (.dmp)

  _______________________________________________________
  _______________________________________________________
  _______________________________________________________
  _______________________________________________________

- Source location of the Deployment Manager packlets folders

  _______________________________________________________
  _______________________________________________________
  _______________________________________________________
  _______________________________________________________

- Target location for the intermediate migration files output. Create the target location before you run the migratefroms7 tool.

  _______________________________________________________

- User class ID for catalogs

  _______________________________________________________

- User password

  _______________________________________________________

- Access Manager user ID

  _______________________________________________________

- User password

  _______________________________________________________

- Name of the published Framework Manager package

  _______________________________________________________

**Information for the deployfroms7 tool**

- Source location of the intermediate migration files

  _______________________________________________________

- Target location for the deployment package

  _______________________________________________________

- User ID for the IBM Cognos namespace

  _______________________________________________________

- User password

  _______________________________________________________

- Namespace ID

  _______________________________________________________

- Data source connections
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Kanagawa 242-8502 Japan

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Ottawa, ON K1V 1B7
Canada

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