SAP BusinessObjects Business Intelligence (BI) platform
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Report Conversion Tool Guide

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1 Document History

Table 1:

Version	Date	Changes
SAP BusinessObjects Business Intelligence platform 4.1 Support Package 5	October, 2014	To known on how to handle Free-Hand SQL, see Handling Free-Hand SQL Report Conversion [page 9] • Added a note in Report Conversion Tool Connected Mode [page 9] • Added a note in To Convert the Reports [page 14]
SAP BusinessObjects Business Intelligence platform 4.1 Support Package 6	May, 2015	In Desktop Intelligence feature conversion main section, under the "Features and Their Conversion Status" section updated the table's content.
SAP BusinessObjects Business Intelligence platform 4.2	November, 2015	In "Converting Local (Secured) Desktop Intelligence Documents", removed "to the audit database" phrase

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2 Report Conversion Tool™ Overview

You use the Report Conversion Tool™ to convert SAP BusinessObjects Desktop Intelligence(.rep) XI R2 and XI 3.x™reports to Web Intelligence(.wid)™4.1 format in the SAP BusinessObjects Business Intelligence (BI) platform 4.1™.

Before commencing the conversion of Desktop Intelligence™ reports, you first need to install and configure SAP BusinessObjects BI platform 4.1 ™ client tools.

It is recommended to use the Upgrade Management Tool before you convert your Desktop Intelligence report to Web Intelligence report, to migrate the report dependencies (such as folders and objects, Universes and other application objects) to the target CMS location, so that you can refresh the reports after conversion.

> **Note**
>
> If you do not use the Upgrade Management Tool for your Desktop Intelligence report, then you may not be able to refresh the converted (Web Intelligence) report.

2.1 What is the Report Conversion Tool™?

The Report Conversion Tool™ converts SAP BusinessObjects Desktop Intelligence XI R2 and XI 3.x ™ reports to Web Intelligence 4.1™ format and publishes the converted reports to the 4.1 CMS.

The tool may not convert all the Desktop Intelligence™ features, as some features may prevent the report from being converted. The level of conversion depends on the features in the original report. Some features may be modified, re-implemented, or removed by the tool during conversion.

The tool assigns one of three statuses to each report:

- Fully Converted
- Partially Converted
- Not Converted

The Report Conversion Tool™ also lets you audit your converted reports. This enables you to identify reports that cannot be fully converted by the Report Conversion Tool™ and helps you understand why.

> **Note**
>
> The Report Conversion Tool can have BI 4.1 as the source CMS for Desktop Intelligence(.rep) documents, as a 4.1 CMS can host Desktop Intelligence documents. Below is the version support matrix for source and target CMS systems

Source CMS Version	Target CMS Version
XI R2	BI 4.1
XI 3.0 or XI 3.1	BI 4.1

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Source CMS Version	Target CMS Version
BI 4.1	BI 4.1
BI 4.1	BI 4.1

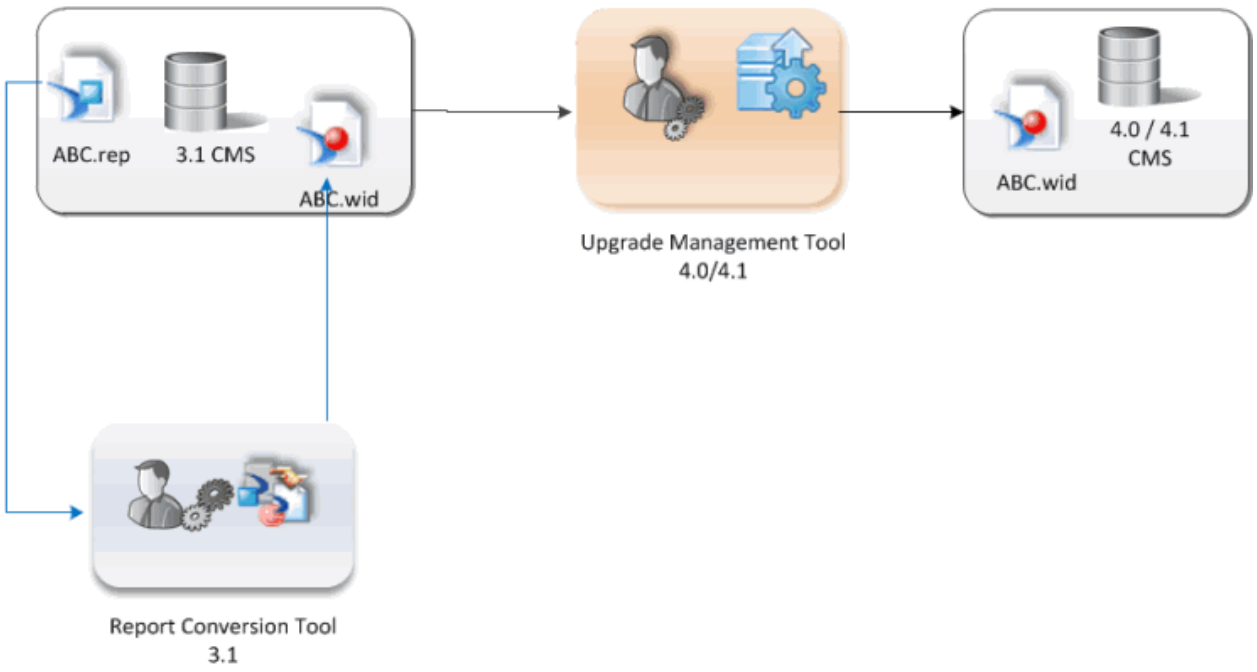
- When the source CMS is a BI 4.1 version machine, the same system should be the target as well. If the target 4.1 CMS is a different machine, the conversion does not work.
- A BI 4.0 versioned CMS cannot be the source CMS for conversion.

2.2 Workflows for Conversion from Desktop Intelligence to Web Intelligence

This chapter explains the paths you can adopt to convert your Desktop Intelligence reports to Web Intelligence, based on the version of your source and target CMS systems:

First Path (indicated in the first two figures below)

1. You convert the Desktop Intelligence (.rep) reports from the XI 3.x or XI R2 CMS systems to Web Intelligence (.wid) on the same stack using the XI 3.x or XI R2 Report Conversion Tool.
2. Next, you use the Upgrade Management tool to upgrade the Web Intelligence reports and publish them to a BI 4.0 or BI 4.1 CMS.



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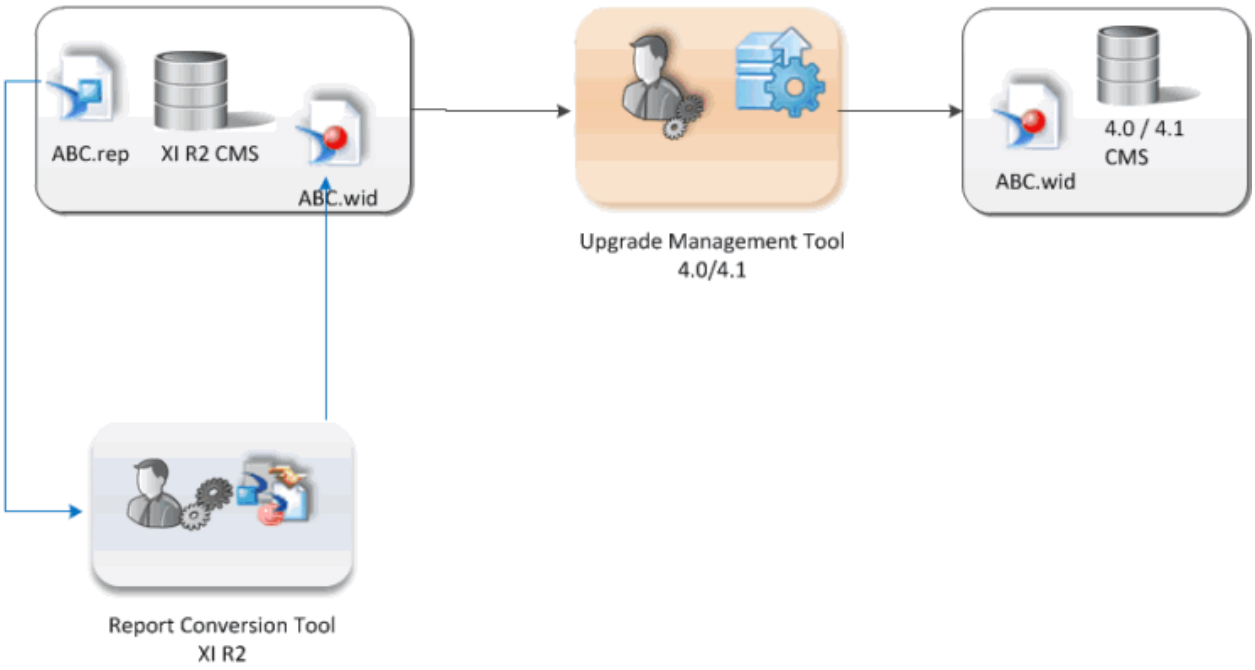

Second Path (indicated in the figure below)

You convert the Desktop Intelligence (.rep) reports from the XI 3.x or XI R2 CMS systems to Web Intelligence (.wid) using the Report Conversion Tool (4.0 or 4.1), and publish them to a BI 4.0 or BI 4.1 CMS system (target) without moving the dependencies of source report to the target. In this path, you do not use the Upgrade Management Tool.

> **Note**
>
> When the personal documents of administrator are converted from an XI R2 source, it is recommended to migrate the user and personal folders using the Upgrade Management Tool prior to conversion.

Note: In this conversion scenario, the converted report (ABC.wid) cannot be refreshed because the dependencies are not migrated to target CMS using the Upgrade Management Tool.

Third Path (indicated in the figure below)

1. You first migrate the XI 3.x or XI R2 Desktop Intelligence reports with their dependencies (such as folders, objects, Universes and Connections) to the BI 4.1 CMS using the 4.1 Upgrade Management Tool.

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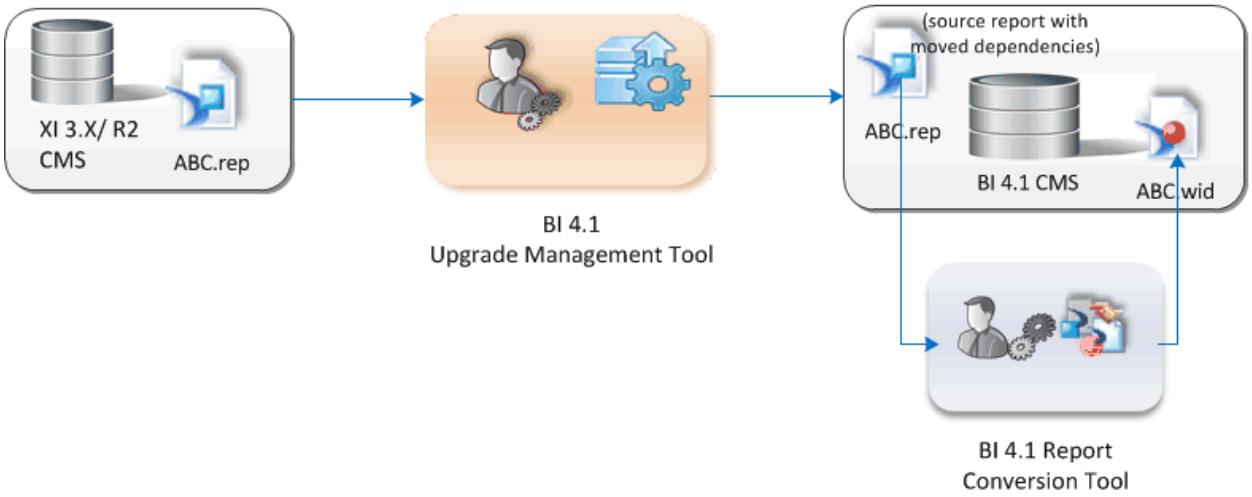
2. Next, you use the 4.1 Report Conversion Tool to convert the Desktop Intelligence reports (.rep) to Web Intelligence (.wid) and publish them to the 4.1 CMS.



Note: Source Desktop Intelligence reports can reside on a BI 4.1 CMS system. In the above conversion approach, you can have both Desktop Intelligence (source) and Web Intelligence (converted) reports on the same target CMS, and can take advantage of using Desktop Intelligence features that are not yet available in Web Intelligence.

Note

All information that applies to the BI 4.1 CMS and the BI 4.1 tools in the above figures applies likewise to BI 4.1.

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3 Report Conversion Tool™ Working Modes

You can work with the Report Conversion Tool™ in two modes: Connected or Standalone.

3.1 Report Conversion Tool Connected Mode

In Connected mode, the Report Conversion Tool™ is connected to the source CMS (where the Desktop Intelligence documents are located) and the destination CMS (where the Web Intelligence documents are to be published).

- You can convert Desktop Intelligence™ documents that are stored in the source CMS to Web Intelligence™ format.
- You can publish converted documents to the 4.1 CMS.
- If a universe needs to be created on-the-fly during the conversion session, it is created in the destination CMS.

> **Note**
>
> 1. If your Desktop Intelligence report was created on Stored Procedures, then Report conversion tool creates a universe on-the-fly as Web Intelligence currently does not support Stored Procedures.
> 2. For free-hand SQL , If you want to create the universe, set the Registry value “FHSQL_CreateUniverse “ to 1.

Security in Connected mode

When you work in Connected mode, the security rights of your user account are applied by the CMS.

3.1.1 Handling Free-Hand SQL Report Conversion

The WEBI Free-Hand SQL(FHSQL) data provider is a feature that enables advanced users to build documents directly from SQL scripts on the top of RDBMS databases without using relational universes. Because of this new feature support in WEBI, Report Conversion Tool does not create universe by default.

For DeskI documents created on free-hand SQL, creating universe on-the-fly is based on the Registry value of the key “FHSQL_CreateUniverse” located at the Registry path below:

- Registry path for 64 bit: HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\SAP BusinessObjects\Suite XI 4.0\default\BusinessObjects\BusObj Configuration \BusinessReporter\RCT Conversion Mode
- Registry path for 32 bit: HKEY_LOCAL_MACHINE\SOFTWARE\SAP BusinessObjects\Suite XI 4.0\default \BusinessObjects\BusObj Configuration\BusinessReporter\RCT Conversion Mode

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Description

If the key “FHSQL_CreateUniverse” is not present in the registry or, if the key “FHSQL_CreateUniverse” is present in the registry and its value is set to 0, Report Conversion Tool directly converts the DeskI free-hand SQL to WEBI free-hand SQL without creating UNV universes on-the-fly with derived tables. If the registry key “FHSQL_CreateUniverse” is present in the registry, and its value is set to 1, Report Conversion Tool converts the DeskI free-hand SQL to WEBI documents in creating UNV universes on-the-fly with derived tables. By default, the Registry value of the key “FHSQL_CreateUniverse” is set to 0.

3.2 Report Conversion Tool™ Standalone Mode

In Standalone mode, the Report Conversion Tool™ is not connected to a CMS and no security is enforced. You can work with local, unsecured documents and universes only. Local means saved to the computer's hard disk. This does not include network servers.

You cannot import documents to or export documents from a CMS when you are in Standalone mode.

The middleware required to create and refresh local, unsecured documents with local, unsecured universes must be installed on the computer with the Report Conversion Tool™.

You can convert Desktop Intelligence documents to Web Intelligence. You can convert documents created with earlier versions of Desktop Intelligence XI R2, 3.0 or 3.1 to Web Intelligence 4.1 provided the universes they are based on have been copied to the local 4.1 Universe folder (`C:\Users\<USER NAME>\AppData\Roaming\SAP BusinessObjects\SAP BusinessObjects Enterprise XI 4.0\Universes`) and are unsecured (saved for all users).

You cannot convert documents based on free-hand SQL or stored procedures to Web Intelligence 4.1 in standalone mode.

> **Note**
>
> You must install the Universe Designer if you want to create an audit log or if you want to detect "Free-Hand SQL"and "Stored Procedure" reports.

When to use Standalone mode

You use Standalone mode when you want to work with neither CMS security nor a CMS connection. This allows you to convert any number of locally stored, unsecured documents in a single operation without affecting CMS performance.

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4 Using the Report Conversion Tool

4.1 Installing the Report Conversion Tool™

The Report Conversion Tool™ runs on Microsoft Windows platforms. It is installed by default when you run a Client installation of SAP BusinessObjects 4.1™. When you run a Custom installation, you must select Report Conversion Tool™ to install it.

> **Note**
>
> You must install Designer™ if you want to create an audit log or if you want to detect Free-Hand SQL and Stored Procedure reports.

4.2 Editing User Settings for the Report Conversion Tool™

By default, users in the Administrators group or the Report Conversion Tool Users group have the appropriate rights to use the Report Conversion Tool™.

You can edit the user rights through the Central Management Console™ in the *SAP Business Objects Enterprise Applications* > *Report Conversion Tool* section.

4.3 Launching the Report Conversion Tool

You can launch the Report Conversion Tool™ in either of its working modes:

- Connected
- Standalone

4.3.1 To launch the Report Conversion Tool™ in Connected mode

In Connected mode, security is handled by the CMS.

When you launch the Report Conversion Tool™ in Connected mode, you have a client-server connection to the CMS.

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1. Click *Start* > *Programs* > *SAP BusinessObjects Business Intelligence* > *SAP BusinessObjects BI platform 4 Client Tools* > *Report Conversion Tool*.
   The Report Conversion Tool™ login page opens.
2. In the *Source* fields, enter a valid user name and password, select the source CMS in the *System* list, and then select the Enterprise authentication mode.
3. In the *Destination* fields, enter a valid user name and password, select the destination CMS in the *System* list, and then select the Enterprise authentication mode.
4. Click *Available Languages* and select a language if you want to change the Report Conversion Tool™ interface language.
5. Click *Log In*.

The Report Conversion Tool™ is launched in Connected mode.

> **Note**
>
> If your source CMS is a BI 4.1 system, the *same 4.1 CMS* should be the target as well. If the target 4.1 CMS is a different machine, the conversion does not work.

4.3.2 To launch the Report Conversion Tool™ in Standalone mode

In the Standalone mode, you cannot work with documents or universes that have been secured by a CMS.

To work with the universe, ensure that the universe is located at: `C:\Documents and Settings\<User name>\Application Data\SAP Business Objects\SAP Business Objects 4.0\Universes`. The mapped network drives are available in the Standalone mode.

1. Click *Start* > *Programs* > *SAP BusinessObjects Business Intelligence* > *SAP BusinessObjects BI platform 4 Client Tools* > *Report Conversion Tool*.
2. Select *Standalone* in the *Authentication* list.
   The *System*, *User Name*, and *Password* fields are disabled.
3. Click *Available Languages* and select a language if you want to change the Report Conversion Tool™ interface language.
4. Click *Log In*.

The Report Conversion Tool™ is launched in Standalone mode.

4.4 Selecting Reports

You use the first screen in the Report Conversion Tool™ wizard to select reports for conversion. In Connected mode, the pane on the left shows the CMS repository in tree format. You select reports from the repository and move them to the list on the right for conversion.

You can work with folders or categories when exploring the repository.

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4.4.1 To Explore the Repository

To explore the repository, complete the following steps:

1. Click *Folder* to view the repository by folder, or click *Category* to view the repository by category.
2. To view the properties of a folder or category, right-click it and click *Properties*.
3. To refresh the contents of a folder or category, right-click it and click *Refresh*.
4. To view unconverted reports only, select *Show unconverted documents only* at the bottom of the screen.

Related Information

Report conversion status icons [page 15]

4.4.2 To Search for the Reports with the Report Conversion Tool™

If you know the name of a report you want to convert, perform the following steps for searching:

1. Type the name of the report in the search box below the list of folders or categories.
2. Click the *Search* icon to the right of the search box.

   You can also search on partial report names. If you search on "Sales2," the search finds all reports whose name begins with "Sales2," for example: "Sales2006" or "Sales 2007."

   The Report Conversion Tool™ highlights the reports that correspond to your search.

4.4.3 To Select the Individual Reports for Conversion

On the *Select Reports* screen of the Report Conversion Tool™ wizard, select reports in the left pane and either click >> or right-click the reports, and click *Add documents to batch list* to copy them to the list of reports for conversion.

4.4.4 To Select the Reports by Folder for Conversion

1. Click *Folder* to view the repository by folder.
2. Right-click the folder that contains the reports that you want to convert.
3. Choose either all documents in the folder or all documents in the folder and its subfolders:
   - Click *Select folder only* to add all the documents in the folder to the list of reports for conversion.
   - Click *Select folder and subfolders* to add all the documents in the folder and its subfolders to the list of reports for conversion.

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4.4.5 To Select the Reports by category for Conversion

1. Click *Category* to view the repository by category.
2. Right-click the category that contains the reports that you want to convert.
3. Choose either all documents in the category or all documents in the category and its subcategories:
   - Click *Select category only* to add all the documents in the category to the list of reports for conversion.
   - Click *Select category and subcategories* to add all the documents in the category and its subcategories to the list of reports for conversion.

4.4.6 To Save and Open the lists of Reports for Conversion

To save a list of reports for conversion, you must first have launched the Report Conversion Tool™ and moved one or more reports to the list of files for conversion.

You can save the list of reports selected for conversion to a file (in XML format) and open this file later to populate the list.

1. With one or more reports present in the list of files for conversion, click *Save List*.
2. Type the name of the list you want to create in the *Save* dialog box, and then click *OK*.
3. To open the list later, on the *Select and Convert Reports* screen of the wizard, click *Open List*.
4. Select the file you want to open and validate.
   The documents in the file appear in the list of documents for conversion.

4.4.7 To Convert the Reports

On the *Select reports* screen of the Report Conversion Tool™ wizard, you have placed the list of reports to be converted.

1. To convert the data in the reports to text format, select *Read all Cell Contents as Text*.
   The Report Conversion Tool™ converts the data to text format. The checkbox is selected by default. If you unselect this option, the data is converted to hyperlinks.
2. If the list of reports to be converted includes one or more reports containing free-hand SQL, select *Convert documents containing free-hand SQL / Stored Procedures*.
   The Report Conversion Tool™ will convert all reports, including those containing free-hand SQL. If you do not select this option, documents containing free-hand SQL will not get converted.

   > **Note**
   >
   > For free-hand SQL , If you want to create the universe, set the Registry value “FHSQL_CreateUniverse “ to 1.

3. Click *Next*.

The *Converting* screen appears as the documents are converted. This screen lists all the documents being converted, along with their conversion status.

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4.4.7.1 Report conversion status icons

In the *Select reports* and *Conversion in Progress* screens of the Report Conversion Tool™ wizard, the conversion status of reports is given by means of icons.

Icon	Status	Description
	Fully Converted	The report structure and format are the same in SAP BusinessObjects Desktop Intelligence™ and Web Intelligence™. **Note** Although the converted report structure is the same as the original report structure, the report might still return different values in certain circumstances because the Web Intelligence™ calculation engine does not always interpret this structure in the same way as the SAP BusinessObjects Desktop Intelligence™ calculation engine.
	Partially Converted	Some report features were converted to Web Intelligence™, but not all.
	Not Converted	The SAP BusinessObjects Desktop Intelligence™ report was not converted because it contains critical features that have no *Web Intelligence* equivalent.

4.4.7.2 Report Conversion Restrictions

Restrictions in Converting Reports Containing Free-hand SQL and Stored Procedures

Using the *Report Conversion Tool*, you can convert SAP BusinessObjects Desktop Intelligence™ reports with free-hand SQL or stored procedures, subject to the following restrictions:

- Designer™ must be installed on the local machine.
- Conversion of reports with free-hand SQL or stored procedures is only possible in Connected mode, since the Report Conversion Tool™ needs to use the secured connection to the database that is saved in the CMS.
- The stored procedure is converted to a universe whose name is the name of the free-hand SQL or stored procedure.
- The universe uses the same connection that the SAP BusinessObjects Desktop Intelligence™ report used for the free-hand SQL or stored procedure.

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- For stored procedures that require parameter prompts, the generated universe, depending on how it is set up in the SAP BusinessObjects Desktop Intelligence™ report, may handle it in one of two ways:

  by setting the same parameters that were set in the SAP BusinessObjects Desktop Intelligence™ report to be sent to the free-hand SQL or stored procedure

  by prompting on refresh of the Web Intelligence™ report

> **Note**
>
> For free-hand SQL , If you want to create the universe, set the Registry value “FHSQL_CreateUniverse “ to 1.

Restriction in Converting a Report Containing Multiple Contexts

Using the *Report Conversion Tool*, you can convert SAP BusinessObjects Desktop Intelligence™ reports with multiple contexts. However, it is subject to the following restriction:

If a Desktop Intelligence document has multiple contexts with one context selected, the conversion does not maintain the selected context. The user needs to select the required context later in the converted Web Intelligence document (on Refresh).

4.5 Viewing the Conversion Results and Selecting the Audit Database

When you have started the Report Conversion Tool™ and followed the steps in the wizard to select and convert reports, the *Audit Conversion Session* screen appears.

The screen shows the converted reports by conversion status (fully converted, partially converted, or not converted). The percentage of reports that are converted in each category is shown.

You also use this screen to select an audit database connection in which the Report Conversion Tool™ writes the details of conversion so that if some reports are not fully converted, you can analyze why. To do this you must first create an audit database connection in Designer™ and assign it to the Report Conversion Tool™ through the CMS or you can also use an existing default connection *Conversion Audit Connection*.

> **Note**
>
> Ensure that you edit the default connection with the correct connection parameters and test it to successfully run the report.

The *Report conversion Tool audit statistics report* is created using the *Report Conversion Tool audit universe* which is linked to the *Conversion Audit Connection*. The *Report Conversion Tool audit statistics report* is the default report, you may create your own report as well.

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> **Note**
>
> If you do not select the default connection, you must make sure that the connection selected is linked to the *Report Conversion Tool audit universe*.

Related Information

Report conversion status icons [page 15]

4.5.1 To create an audit connection and assign it to the Report Conversion Tool™

Before publishing converted reports, you can have the Report Conversion Tool™ write the conversion results to an audit database that you choose. If some reports are not fully converted, you can use this data to analyze why. To use an audit database you must first create a connection in Designer™ and then assign it to the Report Conversion Tool™.

1. Launch the SAP BusinessObjects Universe Designer™ and log in.
2. Select *Tools* > *Connection*.
3. Click *Add*.
4. Follow the steps in the New Connection Wizard to create the connection. For more information, see the *Designer's Guide*.

   Report Conversion Tool™ auditing supports Oracle, SQL Server, DB2, Sybase, and mysql databases only. Auditing is not guaranteed to function with other RDBMSs.
5. Log into CMC, click *Applications* > *Report Conversion Tool* > *Properties*, select a connection for auditing and click *Update*.
6. In the *Save Conversion Results in Audit Database* screen of the Report Conversion Tool™, under *Audit Settings*, select the *Save conversion results into audit database* option and select the audit connection from the list.

   If the connection you just created does not appear in the list, click *Refresh*.

   You can also choose how to add data to the table:

Option	Description
Delete the existing audit table before inserting new rows	Select this if you want to clear existing data in the audit table before auditing the current conversion. Only the rows you have previously written to the audit table are deleted. Rows written by other users remain in the table.
Append new rows to the audit table	Select this if you want to add the current conversion data to the existing audit data.

   Finally, you can add a comment to each row in the table.

The conversion results will be written to this audit database for analysis.

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4.5.2 To view the audit report for the Report Conversion Tool

You have selected an audit database connection for the Report Conversion Tool™ and converted reports. You are on the *Select converted documents to publish* screen of the Report Conversion Tool™ wizard.

1. Click *Open Audit Report*.
   The location of the Report Conversion Tool audit statistics report is `Public folder\Report conversion tool\Report conversion tool documents\Report Conversion Tool audit document\`.
2. In the login page that opens, enter your credentials for the BI platform connection.

The audit report opens.

4.6 Publishing the Converted Reports

When you have started the Report Conversion Tool™ and followed the steps in the wizard to select and convert reports, then viewed the conversion results, the *Publish Reports* screen appears.

The *Publish Reports* screen lets you view conversion results.

The wizard step lets you publish both complete and partially converted reports. You can view reports in BI Launchpad™ before publishing.

4.6.1 To publish converted reports

You have selected and converted reports and viewed the conversion results. You are on the *Publish Reports* screen of the Report Conversion Tool™.

1. Optionally, to see the audit report for the converted reports, if you have chosen to store the audit data, click *Open Audit Report* underneath the *Conversion Results* list.
2. Click the check box at the left of a row to select the report for publication. The checkbox is selected by default, if you unselect the checkbox, the report will not be published.
3. Select a report row and right-click to change the publishing details such as target name, target folder, and target categories.

   By default, the target name is the same as the source report name. You can change the target name.
4. Click *Next* to publish the reports.

The converted reports are published. The *Publish Complete* screen appears when publication is complete. It lists the names of the files and their publication status. At the bottom of the window, the status icons give the number of reports in each status. The status includes:

- Fully published – The report is fully published.
- Partially published – The report is partially published because the universe in the destination machine that is linked to your report is not available.
- Not published – The report is not published when a report existing in the destination machine is being published and you select not to replace the existing report.

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- Failed to publish – The report did not get published.

4.6.2 To compare fully converted reports

You have fully converted at least one report from Desktop Intelligence to Web Intelligence format. You are on the *Audit Conversion* screen of the Report Conversion Tool™.

SAP BusinessObjects Desktop Intelligence™ reports and the Web Intelligence™ reports that result from their conversion may have differences in data due to calculation engine differences. From the Report Conversion Tool™, you can call the Delta Viewer of the Report Comparison Tool™ to compare original and converted reports (fully converted reports only) to view data differences, if any.

1. On the *Save Conversion Results in Audit Database* screen of the Report Conversion Tool, select the *Compare fully converted documents* option.
2. Set audit settings as desired.
3. Click *Next*.
4. Click *OK* in the *Comparison* box when comparison of source and converted documents is complete.
   In the *Select the converted documents to publish* screen, use the *View Differences* button to view the data differences between documents.
5. Click the *View Differences* button to open the Delta Viewer of the Report Comparison Tool.

4.6.2.1 Report comparison status icons for fully converted documents

The following table lists icons that indicate the report comparison status for fully converted documents:

Icons	Status	Description
	Identical	Reports are identical.
	Modified	The report is fully converted. However, because of differences in calculation, the converted report is different from the source report.
	Manual Check Required	• Requires manual check for charts/ graphics. • Reports are not fully compared because of errors such as `Report output could not be generated for Source`.

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4.6.2.2 The Report Comparison Tool

4.6.2.2.1 Delta Viewer

Delta Viewer is the main dialog box of the comparison tool. It enables you to view the details of the comparison result.

The Delta Viewer opens, saves, and analyzes Report Output Comparison [`.roc`] files.

It uses the following colour codes to highlight the difference between 2 documents:

- Modified items are displayed in Green
- Removed items are displayed in Red
- Inserted items are displayed in Blue
- Identical items are displayed in Black

You can launch the Delta viewer when you open a [`.roc`] file, or after you have processed for a new comparison.

4.6.2.2.1.1 To analyze result using Delta Viewer

The *Delta Viewer* dialog box displays the details of the comparison between two documents.

The Report Comparision tool option menu includes the following:

- Tree panel.
- Block panel.
- Slice and Dice panel.

Delta Viewer supports the following views:

- Merged view - Enables the user to merge and view the both source and target systems report.
- Source view - Enables the user to view the source system report.
- Target view - Enables the user to view the target system report.
- Split view - Enables the user to view the split reports of both source and destination systems.

When you select a report element in the *Report Panel*, the result is displayed in the *Block Panel* and in the *Slice and Dice Panel* if it is a table.

1. From the *View* menu, select the *Split view* option.
   The description of the report element in the source and in the destination document is displayed on the same tab.
2. Select the report element in the *Report Panel.*
   The high level information of the report element is displayed in the *Block Panel*. Green, Blue or Red text means that changes have been made during the migration. Table structure is displayed in the *Slice and Dice Panel*.

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4.7 Converting Desktop Intelligence Report Instances to Web Intelligence Instances

If you have scheduled your Desktop Intelligence documents, their instances reside within the **document history**. While converting a document to Web Intelligence, you may also want to convert it's **instances** from Desktop Intelligence format to Web intelligence.

To convert document instances, perform the following steps:

1. Launch the Report Conversion Tool in connected mode.
2. In the file explorer view (left pane) of the *Report Conversion Tool* window, select the individual reports that you want to convert, and move them to the right panel by choosing the >> button.

   > **Note**
   >
   > The *Instances* column in the right pane indicates the number of available instances of each Desktop Intelligence document that is selected for conversion.

3. Select a document in the right pane and choose *Convert Inst*.

   > **Note**
   >
   > The *Convert Inst* button is enabled only if the chosen Desktop Intelligence documents have their instances available. By default, it is disabled.

   The Convert document instances window appears displaying all instances of the document, with their names, owner and timestamp values.
4. Select the instances that you want to convert. If you want to convert all instances, select all by using the check-box at the top of last table column.
   If you want to include the partially converted instances in the conversion results, select the check-box that says *Continue conversion when parent is partially converted*.
5. Choose *Ok*. You return to the *Report Conversion Tool* (main view). Choose *Next*.
   The conversion process begins and a *Conversion Completed* window appears on completion of the conversion. The conversion status of documents and of their instances can be seen on this screen.

   > **Note**
   >
   > The *Instance* column displays a 'No' for rows with the converted documents and a 'Yes' for the converted instances. This way you can distinguish between the documents and their instances.

6. Choose *Close* to proceed with the task.
   A screen appears displaying options for comparing the Desktop Intelligence (source) and Web Intelligence (target) documents, and for saving the conversion results in an audit database.

   > **Note**
   >
   > The Report Conversion Tool generates the name of a converted instance (in Web Intelligence format) by appending the instance name with the creation time of the source instance.

7. If you want to compare source and target documents/ instances, choose the relevant options, else, choose *Next*.

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A screen appears displaying the options to publish the converted reports and instances to a target location on the BI 4.1 CMS. (By default all reports are selected for publishing to the target with default properties).

8. Perform either of the following based on requirements :

   To rename a target (Web Intelligence) document or instance, right click the value in Target Name column, choose *Rename* and specify the new name.

   To change the publish location (target location) for a document, right-click the folder seen in the Target Folder column and choose *Change Folder...*

   To specify the non-desktop Intelligence instances of the source document (such as .pdf, .xls or .rtf) that you want to publish along with the Web Intelligence document at the target, choose *select non .rep instances to publish*. In the window that appears, select the non desktop Intelligence instances that you want to publish and choose *Ok*.

   > **Note**
   >
   > The option to change the target folder for publishing the converted instances appears on the screen only for the documents (not the instances). This is because, instances reside as part of document history and are in the same folder as the document itself. Instances cannot have a location other than the document itself.

9. Choose *Next >* on the screen.
   The *Publish status* of the target documents and their instances ('Partly converted'/ 'Fully Converted'/ 'Not converted') appears on a screen.

   > **Note**
   >
   > The table column titled *Instance* displays a 'No' for rows with the documents and a 'Yes' for the instances. This way you can distinguish between the documents and their instances.

10. Choose *Close*.
    The conversion is completed and the summary of conversion results appears on a screen. Choose *Exit* to exit from the tool, or *Return to Start* (if you want to convert more documents/ instances).
    In SAP BusinessObjects Infoview, you can access the target folder (specified in step 8) and open the *History* of the converted document to view the converted instances.

4.8 Converting Local (Secured) Desktop Intelligence Documents

If you consume Desktop Intelligence in 3-tier/ZABO mode ONLY, you will have a large number of secure, personalized reports available locally on your system. You had to (previously) export these documents to the CMS to convert them to Web Intelligence.

You can now convert these secure, personalized **local (.rep) documents** to Web Intelligence (`.wid`) using the Report Conversion Tool, without having to push the source documents to the CMS.

*IMPORTANT NOTE:*When local (secure) Desktop Intelligence documents are selected for conversion, the converted Web Intelligence document does not retain the security of the source desktop intelligence document. The security is retained only when converting the Desktop Intelligence documents that reside in the CMS.

To convert your local (`.rep`) documents to Web Intelligence, follow the below procedure:

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1. Launch the Report Conversion Tool in the Connected mode with the Enterprise (or any other) authentication.
2. In the *Report Conversion Tool* screen, select *Local Documents*.
   The local drives of your system appear in the left panel.

   > **Note**
   >
   > You can either choose the documents *From CMS*, or the *Local documents*. When you select either of them, the other is disabled. You cannot select both the CMS and local documents for conversion at the same time.

3. Expand the drive with the local `.rep` documents (that you want to convert), select the required documents and choose >> to add them to the *Selected Document(s)* list to the right.
4. Choose *Next*.
   The conversion process starts, and you see the Conversion window.
5. Once the conversion completes, you see the conversion results in the *Conversion Completed* window. Choose *Close* to exit from the window.
   The *Save Reports* view appears.
6. The *Save Reports* view displays the source and target attributes (names and folder locations) of the source and converted reports.
   - To change the *Target Name* of the converted report (for publishing), right click on the current value of the target name and choose *Rename*.
   - To change *Target Folder* of the converted report (for publishing), right click on the current values of the target folder location and choose *Change Folder*.

   > **Note**
   >
   > If you want to save the conversion results (converted reports with their respective status values), select the *Save conversion Results into the File* check-box that appears at the bottom left of the *Save Reports* screen. The default logging folder path (with the CSV file name) appears in the adjacent text-box. If the CSV file already exists in the logging folder, the tool appends the current conversion results to the file (by default). If you rather want the current results to overwrite the content of the existing CSV file, choose *Overwrite*.

7. Choose *Next*.
   The converted (`.wid`) file is saved to the specified target folder.
8. Choose *Close* to exit from the window.
   The *Conversion Complete* screen appears displaying the conversion results. Choose *Exit* to exit the Report Conversion Tool; or choose *Return to Start* to return to the first screen of the tool.

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5 Desktop Intelligence feature conversion

5.1 Report Features and Conversion Status

The level of similarity between a converted report and the original Desktop Intelligence report depends on the features in the original report. The Report Conversion Tool cannot convert all Desktop Intelligence features to Web Intelligence because Web Intelligence does not support all Desktop Intelligence features. The Report Conversion Tool marks reports as Fully Converted, Partly Converted or Not Converted depending on the features in the original report.

Each feature in the original report has its own associated conversion status, and the most serious generates the overall status of the conversion. For example, if the original report contains a feature that cannot be converted and generates a Partly Converted status, the whole report is considered to be partly converted and the feature is not present in the Web Intelligence report.

The presence of certain features in the original report means that the Report Conversion Tool cannot generate a Web Intelligence report. In this case the conversion status is Not Converted.

5.1.1 Fully Converted Reports

A fully converted report is structurally identical or almost identical to the original report, although some minor features or properties might have been lost in the conversion.

> **Note**
>
> Although a fully converted report is structurally identical to the initial report, it might still return different figures after conversion in certain situations. This is because the Web Intelligence calculation engine interprets the structure differently.

Some features not supported natively by Web Intelligence are reimplemented by the Report Conversion Tool in the Web Intelligence report. For example, the tool replaces the `countall()` function in Desktop Intelligence by the `count()` function with the ALL parameter .

The re-implemented feature behaves identically in Web Intelligence and does not affect the Fully Converted status.

5.1.2 Partly Converted Reports

Certain features in the original Desktop Intelligence report generate a default status of Partly Converted. If a report contains at least one feature that carries a Partly Converted status, the whole report is flagged as Partly Converted.

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You can modify this behavior by editing the Report Conversion Tool initialization file. This is useful if you have numerous reports containing a feature that generates a Partly Converted status by default, but you do not consider conversion of the feature important. In this case you edit the initialization file to set its associated status to Fully Converted.

5.1.3 Not Converted Reports

If the Desktop Intelligence report contains a key feature that cannot be converted, the report is not converted. For example, if a report contains any data providers other than Universes or free-hand SQL, it cannot be converted.

5.2 Customizing the Feature Conversion Status

The Report Conversion Tool has an initialization file, in XML format, which allows you to determine the status generated by some report features. You can flag these features as Fully Converted or Partly Converted.

The initialization file allows you to customize the conversion process according to your needs. If you have numerous reports containing a feature that generates a Partly Converted status during conversion, but you do not consider conversion of this feature important, you can edit the initialization file so that the feature generates a Fully Converted status.

> **Note**
>
> You cannot control the status generated by all report features with the initialization file. If for some features, the Report Conversion Tool generates a hard-coded conversion status instead of an initialization file setting, you cannot use the initalization file to change the status.

Related Information

Features and Their Conversion Status [page 27]

5.2.1 Understanding the Initialization File

The initialization file is called `errorlogsettings.xml` and is stored in the `$INSTALLDIR/win32_x86` folder. The file looks like this:

```
<LOGMANAGER>
<ERRORLOGS TARGET="FULLYCONVERTED">
<!-- FILTER -->
<ERROR TYPE="Filter/FilterFormula"/>
<!-- BREAK -->
<ERROR TYPE="Breaks/ValueBasedBreaks"/>
```


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```
<!-- DRILL -->
<ERROR TYPE="Drill/QueryDrill"/>
<ERROR TYPE="Drill/MissingeRef"/>
<!-- GRAPH -->
<ERROR TYPE="Graph/3DChart"/>
<ERROR TYPE="Graph/PieChart"/>
<ERROR TYPE="Graph/ElementPosition"/>
<ERROR TYPE="Graph/Pie3DChart"/>
<ERROR TYPE="Graph/General"/>
</ERRORLOGS>
<ERRORLOGS TARGET="PARTLYCONVERTED">
<!-- QUERY -->
<ERROR TYPE="Query/Query"/>
<ERROR TYPE="Query/Keyword"/>
<ERROR TYPE="Query/QueryProp"/>
<ERROR TYPE="Query/QueryCond"/>
<ERROR TYPE="Query/Grouping"/>
...
```

Note

Use the table provided in the following chapter to determine which entries to edit in the initialization file to customize the conversion process to your needs:

Features and Their Conversion Status [page 27]

5.2.2 Editing the Initialization File

By default, the file generates a Fully Converted status for some features (the errors listed in the `<ERRORLOGS TARGET="FULLYCONVERTED">` section) and a Partly Converted status for others (listed in the the `<ERRORLOGS TARGET="PARTLYCONVERTED">` section).

To change the status generated by a feature, move it to the appropriate section. For example, if you do not want a filter on a measure in a block to generate a Partly Converted status, move the corresponding element to the FULLYCONVERTED section as follows:

```
<LOGMANAGER>
<ERRORLOGS TARGET="FULLYCONVERTED">
<ERROR TYPE="Filter/BlockMeasureFilter/>
</ERRORLOGS>
...
...
</LOGMANAGER>
```

Note

If an error is included in both sections, it generates a Fully Converted status. If an error is not included in either section, it generates a Partly Converted status.

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5.3 Features and Their Conversion Status

When you launch the conversion process, some documents are fully converted, while others are Partially converted. The table below shows the Desktop Intelligence ™documents or reports that cannot be fully converted to Web Intelligence™.

In some cases, the entire report cannot be converted when a certain feature is present.

Table 2:

SAP BusinessObjects Desktop Intelligence feature	Result in the Web Intelligence report	Conversion status or initialization file setting
Data providers		
OLAP data provider	Report not converted	Not converted
XML data provider	Report not converted	Not converted
Universe data provider, where the Universe is not found in 4.1	The report is converted". Conversion status or initialization file setting should be "Fully converted".	Fully converted
Universe connection, where the Universe is not found in 4.1	The report is converted	Fully converted
Queries		
Filter with a Calculation operand	Report not converted	Not converted
Filter with a Query Results operand(query on a query).	The report is converted.	Fully converted `Query/Query`
Query Drill	The report is converted.	Fully converted `Query/QueryDrill`
Query Condition	The report is converted.	Fully converted `Query/QueryCond`
Grouping	The report is converted.	Fully converted `Query/Grouping`
Object SQL	The report is converted.	Fully converted `Query/ObjectSQL`
User Object	Report not converted	Not converted
Automatic refresh setting	Setting is lost	Partially converted `Query/QueryProp`

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SAP BusinessObjects Desktop Intelligence feature	Result in the Web Intelligence report	Conversion status or initialization file setting
Scope of analysis with filter on a measure	Scope of analysis objects becomes result objects	Partially converted **Note** If you apply an Aggregate filter and set Scope of Analysis on a measure object, the SQL generated for SAP BusinessObjects Desktop Intelligence report and Web Intelligence report is different.
An object whose definition includes the Designer *@script* function	The report cannot be refreshed	Partially converted
Sort in a query	The sort is lost	Fully converted `Query/SortQuery`
Delete Trailing Blanks option set	Option is lost	Fully converted `Query/QueryProp`
Do Not Retrieve Data option set	Option is lost	Fully converted `Query/QueryProp`
Document Properties		
Enhanced Viewing setting does not exist in SAP BusinessObjects Desktop Intelligence	The Enhanced Viewing setting is enabled	Fully converted
Filters		
Complex global or block filter	The filter is lost in some cases	`Filter/ComplexGlobalFilter or Filter/ComplexBlockFilter`
Filter on a formula	A variable is created and the filter is applied to the variable	Fully converted `Filter/FilterFormula`
Filter in a block is applied on a measure	Filter is lost	`Filter/BlockMeasureFilter`
Sections		
Show/Hide Section Header formula	The section header is shown or hidden if the formula is true.	Fully converted `SectionFormat/HideHeader`

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SAP BusinessObjects Desktop Intelligence feature	Result in the Web Intelligence report	Conversion status or initialization file setting
Show/Hide Section Footer formula	The section footer is shown or hidden if the formula is true.	Fully converted `SectionFormat/HideFooter`
Fold/Unfold		
Sections	The report is converted.	Fully converted
Tables, crosstabs, and breaks	The report is converted.	Fully converted
Special report contents		
Windows OLE object (static only)	Converted to GIF format	Fully converted `SpecialContent/Ole`
Picture (TIFF) (static only)	Converted to GIF format	Fully converted `SpecialContent/Picture`
Picture or OLE object when dynamic (for example, path computed at runtime or using "Read as pictures" properties)	The picture or object is lost	Picture or object is deleted
Blocks		
Hide Block formula	The report is converted.	Fully converted `Block/Appearance`
Folded Block	The report is converted.	Fully converted `Block/FoldedBlock`
Across Edge Display settings in crosstabs.	The settings are lost	Partially converted `Block/General`
Page break header after page break setting	Setting is lost	Partially converted `Block/PageLayout`
Page break footer after page break setting	Setting is lost	Partially converted `Block/PageLayout`
Hide object (in the Block Pivot settings)	Object is fully converted if the object is of measurable type.	Fully converted `BlockPivot/HiddenObject`
Breaks		

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SAP BusinessObjects Desktop Intelligence feature	Result in the Web Intelligence report	Conversion status or initialization file setting
Break on multiple dimensions **Note** This refers to a break defined on more than one dimension, not a block that has multiple breaks on single dimensions.	The report is converted.	Fully converted `Breaks/BreakOnMultipleDimension`
Break on an object not in the block	The report is converted.	Fully converted `Breaks/BreakObjectNotInBlock`
Folded Break	The report is converted.	Fully converted `Breaks/FoldedBreak`
Value-based break	The report is converted.	Fully converted `Breaks/ValueBasedBreaks`
Variance Breaks	Not Supported	Not converted `Breaks/VarianceBreaks`
Pages		
Page setup options	The report is converted.	Fully converted `PageSetup/PageSetup`
Drill		
Drill	The report is partially converted.	Partially converted `Drill/MissingeRef`
Functions		
ApplicationValue	Appears as RepFormula ("original_syntax")	`Formula/UnsupportedFunction`
BlockNumber		
CurrentPage		
GetProfileNumber		
GetProfileString		
Hyperlink		
OLAPQueryDescription		

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SAP BusinessObjects Desktop Intelligence feature	Result in the Web Intelligence report	Conversion status or initialization file setting
PageInSection		
CountAll	Converted to Web Intelligence syntax.	Partially converted
Date formats		
All date formats	Changed to an equivalent Web Intelligence format according to the mappings	Fully converted
Cell format		
Fill character	The fill character is lost	Fully converted `FormatCell/FillCharacter`
Hide cell formula (free-standing cells)	The hide cell formula is lost and the cell is always visible	`FormatCell/Appearance`
Border styles	Converted according to the mappings	Fully converted
Variables		
All variables	The variable description is lost	Fully converted
Variable that references another variable that cannot be converted.	Report is not converted	Not converted `Variable/UnsupportedFunction`
Grouped variables	The grouped variable is converted into a Web Intelligence grouped variable.	Fully converted
Formula		
Keyword	The report is converted.	Fully converted `Formula/Keyword`
Sorts		
A block is sorted on an object not included in the block	The report is converted.	Fully converted
Charts and Graphs		
Multiple groups	Only the first group appears	`Graph/MultiGroupChart`
3D Pie Charts	There is no plot area in Web Intelligence 3D Pie charts	`Graph/Pie3DChart`
PieChart	There is no plot area in Web Intelligence Pie charts	`Graph/PieChart`

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SAP BusinessObjects Desktop Intelligence feature	Result in the Web Intelligence report	Conversion status or initialization file setting
3D Charts	There is no plot area in Web Intelligence 3D charts	`Graph/3DChart`
Scatter Chart	• ScatterChart can appear differently in Web Intelligence • ScatterChart must have only Measure in the X-axis for Web Intelligence	Fully converted `Graph/ScatterChart`
Element Position	Chart legend position cannot be maintained in Web Intelligence charts	Fully converted `Graph/ElementPosition`
Series color	The original relationship between a series and its color is lost	Fully converted
Rotation, elevation and start angle	These settings are lost in Web Intelligence.	Fully converted
Plot area	The plot area does not exist in Web Intelligence pie charts and 3D charts	Fully converted
Wall color	All walls have the same color in Web Intelligence	Fully converted
General	The report is converted.	Fully converted `Graph/General`
Save options		
Write password or protection password set	Report is not converted	Not converted
Fonts		
Font mapping	Fonts are mapped between SAP BusinessObjects Desktop Intelligence and Web Intelligence according to customizable rules.	Fully converted
VBA		
Vba	Not supported	Not converted `Vba/Vba`

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5.4 Formula Conversion in the Report Conversion Tool™

The following formulas used in Desktop Intelligence™ reports are now converted by the Report Conversion Tool™:

MultiCube (renamed in the Web Intelligence™ report to ForceMerge)
DataProviderType
Product

5.5 Converting Desktop Intelligence Report Instances to Web Intelligence Instances

If you have scheduled your Desktop Intelligence documents, their instances reside within the **document history**. While converting a document to Web Intelligence, you may also want to convert it's **instances** from Desktop Intelligence format to Web intelligence.

To convert document instances, perform the following steps:

1. Launch the Report Conversion Tool in connected mode.
2. In the file explorer view (left pane) of the *Report Conversion Tool* window, select the individual reports that you want to convert, and move them to the right panel by choosing the >> button.

   > **Note**
   >
   > The *Instances* column in the right pane indicates the number of available instances of each Desktop Intelligence document that is selected for conversion.

3. Select a document in the right pane and choose *Convert Inst*.

   > **Note**
   >
   > The *Convert Inst* button is enabled only if the chosen Desktop Intelligence documents have their instances available. By default, it is disabled.

   The Convert document instances window appears displaying all instances of the document, with their names, owner and timestamp values.
4. Select the instances that you want to convert. If you want to convert all instances, select all by using the check-box at the top of last table column.
   If you want to include the partially converted instances in the conversion results, select the check-box that says *Continue conversion when parent is partially converted*.
5. Choose *Ok*. You return to the *Report Conversion Tool* (main view). Choose *Next*.
   The conversion process begins and a *Conversion Completed* window appears on completion of the conversion. The conversion status of documents and of their instances can be seen on this screen.

   > **Note**
   >
   > The *Instance* column displays a 'No' for rows with the converted documents and a 'Yes' for the converted instances. This way you can distinguish between the documents and their instances.

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6. Choose *Close* to proceed with the task.
   A screen appears displaying options for comparing the Desktop Intelligence (source) and Web Intelligence (target) documents, and for saving the conversion results in an audit database.

   > **Note**
   >
   > The Report Conversion Tool generates the name of a converted instance (in Web Intelligence format) by appending the instance name with the creation time of the source instance.

7. If you want to compare source and target documents/ instances, choose the relevant options, else, choose *Next*.
   A screen appears displaying the options to publish the converted reports and instances to a target location on the BI 4.1 CMS. (By default all reports are selected for publishing to the target with default properties).
8. Perform either of the following based on requirements :

   To rename a target (Web Intelligence) document or instance, right click the value in Target Name column, choose *Rename* and specify the new name.

   To change the publish location (target location) for a document, right-click the folder seen in the Target Folder column and choose *Change Folder...*

   To specify the non-desktop Intelligence instances of the source document (such as .pdf, .xls or .rtf) that you want to publish along with the Web Intelligence document at the target, choose *select non .rep instances to publish*. In the window that appears, select the non desktop Intelligence instances that you want to publish and choose *Ok*.

   > **Note**
   >
   > The option to change the target folder for publishing the converted instances appears on the screen only for the documents (not the instances). This is because, instances reside as part of document history and are in the same folder as the document itself. Instances cannot have a location other than the document itself.

9. Choose *Next >* on the screen.
   The *Publish status* of the target documents and their instances ('Partly converted'/ 'Fully Converted'/ 'Not converted') appears on a screen.

   > **Note**
   >
   > The table column titled *Instance* displays a 'No' for rows with the documents and a 'Yes' for the instances. This way you can distinguish between the documents and their instances.

10. Choose *Close*.
    The conversion is completed and the summary of conversion results appears on a screen. Choose *Exit* to exit from the tool, or *Return to Start* (if you want to convert more documents/ instances).
    In SAP BusinessObjects Infoview, you can access the target folder (specified in step 8) and open the *History* of the converted document to view the converted instances.

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6 Configuring the Report Conversion Tool for Windows AD Authentication

When you upgrade the Report Conversion Tool using a Support Package, you need to create an initialization file (`RCT.ini`) at the following directory location for Windows AD authentication:

`<Install_dir>\SAP BusinessObjects Enterprise XI 4.0\win32_x86\config`.

The `RCT.ini` file should have the following content:

```
# For windows AD Configuration for RCT
 -Djava.security.krb5.conf=C:\winnt\krb5.ini
 -Djava.security.auth.login.config=C:\winnt\bscLogin.conf
```


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