AASHTOWare Bridge Rating and Design Training

RPT3 – Report Tool Using Crystal Reports (BrR/BrD 6.4)

This example describes how to generate report with Report Tool using user defined Crystal Reports RPT file. It also shows user the difference between the Report Tool in 6.3 and 6.4. This example assumes you have access to TrainingBridge1 (BID1) in the teaching database from the installation.
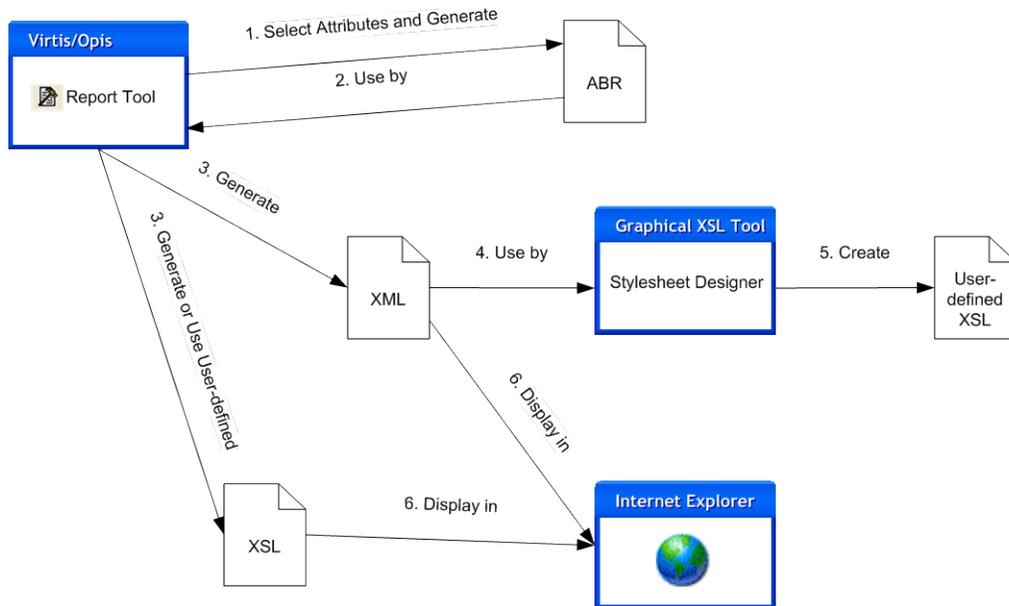
Topics Covered
- Difference between the Report Tool in 6.3 and 6.4
- How to use Crystal Report help
- How to generate Crystal Report with Report Tool using user defined XSL/RPT file

Difference between the Report Tool in 6.3 and 6.4

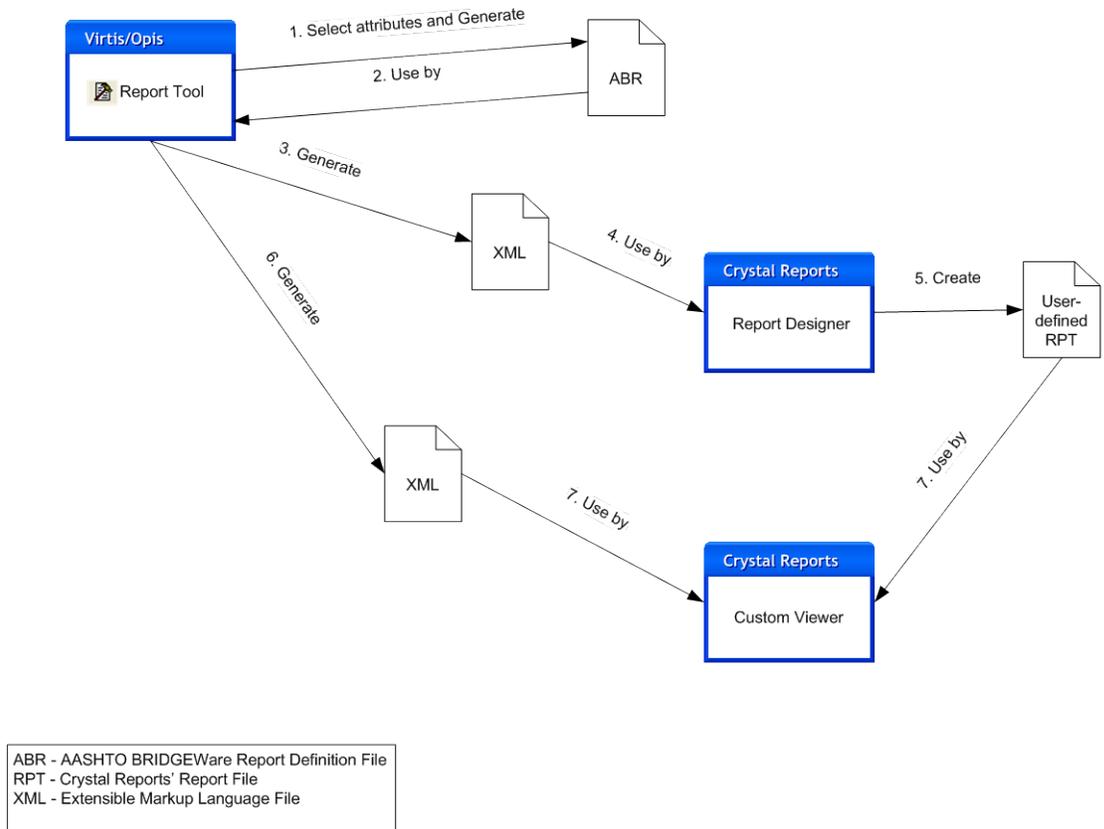The chart below shows how Report Tool works in VirtisOpis6.3.

ABR - AASHTO BRIDGEWare Report Definition File
XML - Extensible Markup Language File
XSL - Extensible Stylesheet Language File

The Report Tool provides access to more than 30,000 attributes in the Bridge Workspace.
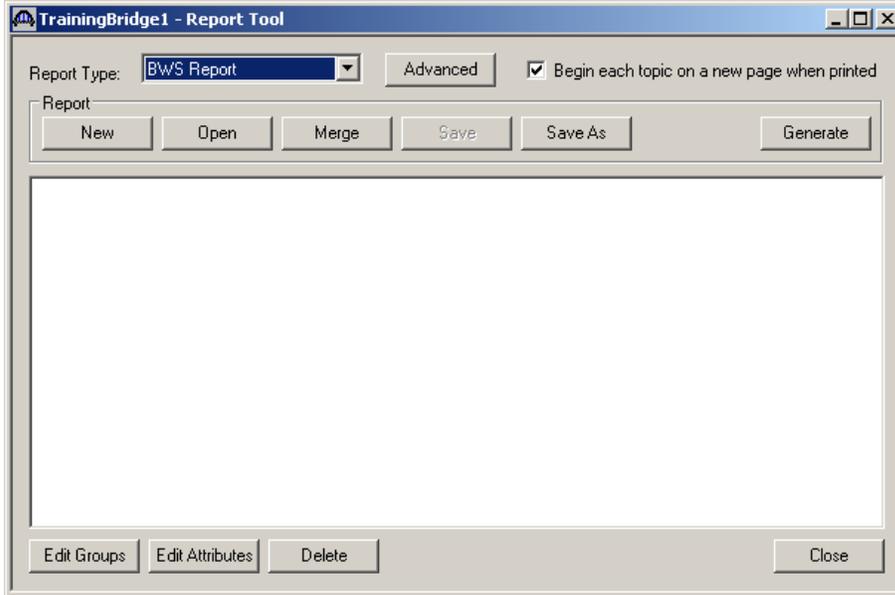
The chart below shows how Report Tool works in BrR6.4. Now BrR6.4 allows user to choose between the existing XSL report formatting and Crystal Reports formatting. The existing report generation process in VirtisOpis6.3 remains unchanged if XSL formatting is selected. If Crystal Reports is selected the Report Tool will generate and XML file containing the data to be reported (just like the XSL formatting option) and will open the custom Crystal Reports RPT file viewer to display the report. The file viewer merges the XML data file with a user-defined RPT file. The formatting files, a Crystal Reports RPT file, must be prepared by the user and associated with the report definition using the "Advanced" button on the Report Tool window. The RPT files can be prepared using Crystal Reports Designer software.

Additional Process: Report Tool using Crystal Reports

ABR - AASHTO BRIDGEWare Report Definition File
RPT - Crystal Reports' Report File
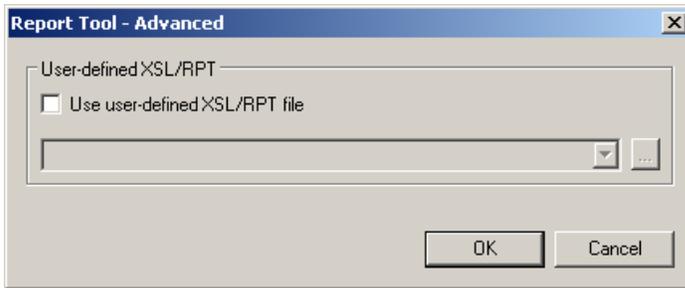XML - Extensible Markup Language File
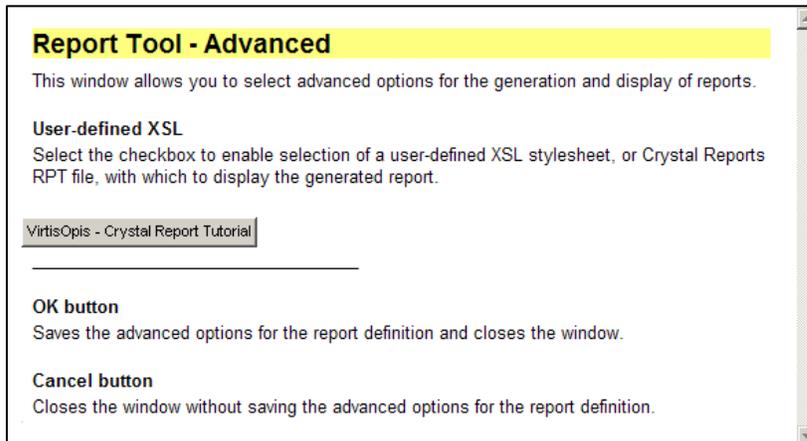
How to use Crystal Report help

Open TrainingBridge1, click Report Tool button on the tool bar. Report Tool window will open as shown below.
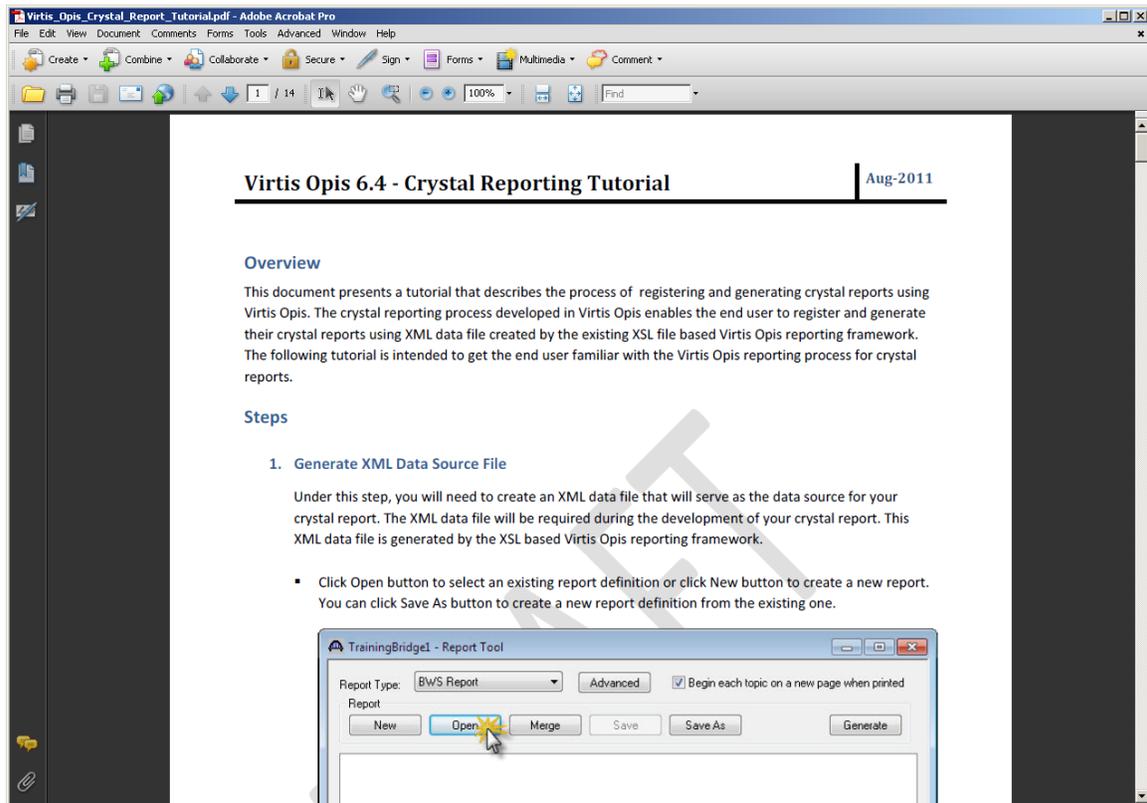

Click Advance button, Report Tool –Advanced dialog will open as shown below.

Click F1 to view Crystal Report help.

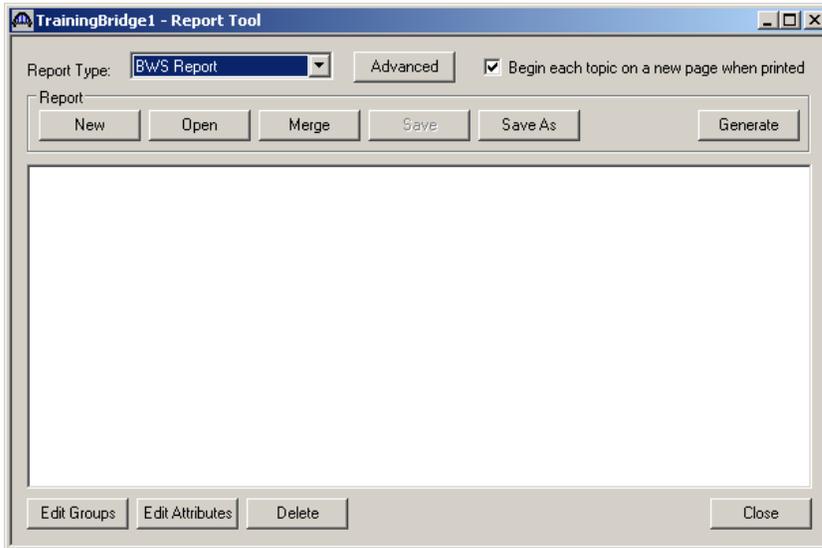Click Crystal Report Tutorial button in help window to view tutorial.

The tutorial will guide user through step by step on how to generate XML data source, Crystal Report and how to explore Crystal Report.

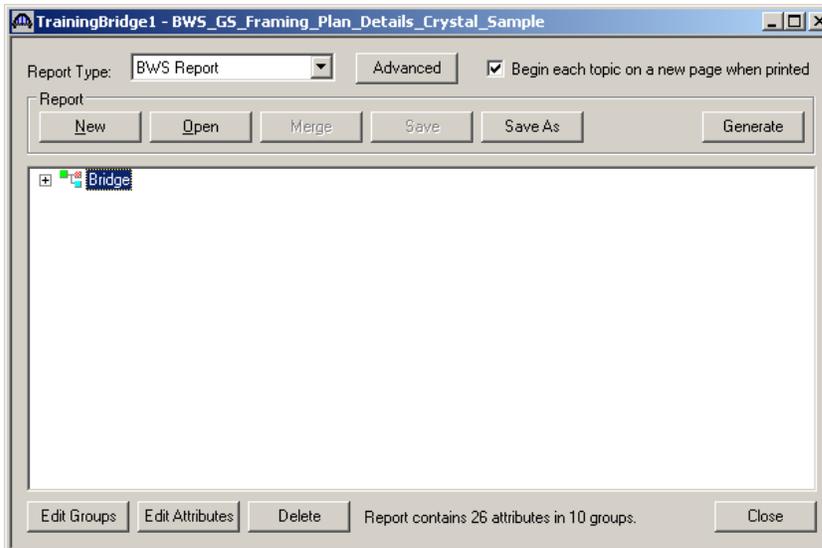## Generate Crystal Report with report tool using user defined XSL/RPT file

In this example we will use the sample abr and RPT files came from installation to generate Crystal Report. These reports are delivered with BrR/BrD 6.4release and can also be found under %InstallDir%\AASHTOWare\VirtisOpis64\Help\CrystalReportHelp folder.

Copy the sample Crystal Report abr and XML files to AASHTOWare\VirtisOpis64\Reports folder under your My Documents folder on your local drive. Copy the sample Crystal Report RPT file to a location of your choice.
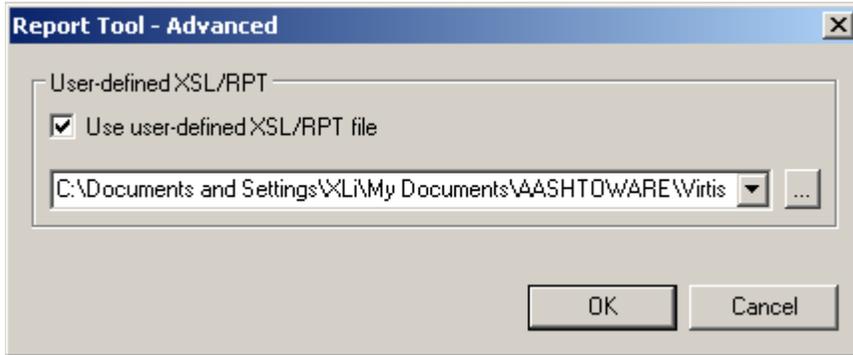
Open TrainingBridge1, click Report Tool button on the tool bar. Report Tool window will open as shown below.

Click Open button and locate your sample abr file (BWS_GS_Framing_Plan_Details_Crystal_Sample.abr). After abr file is loaded Report Tool window will look like the following.

Click Advance button, Report Tool –Advanced dialog will open as shown below, browse to RPT file (BWS_GS_Framing_Plan_Details_Crystal_Sample.rpt) , click Ok button to link abr file with sample RPT file at the location you selected before.

Click Generate button to generate Crystal Report.