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**Agilent Technologies**

**ME5**

**Merging Two Projects into One Report**

*Application Note*

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# Merging Two Projects into One Report

## Application Note

This application note describes how to generate documents from various data sources by taking advantage of the Model Quality Assurance (MQA) reporting function and utilities. As an example, it shows how to merge two MQA project results into one report. **Note:** This document was originally released for MQA V2010.2.0 in April 2011.

### Introduction

MQA offers superb reporting functionality. Basic reporting functions enable it to quickly generate separate documents for each single project. Moreover, by using Lib Explorer and Report Collector, the user can further group, sort and filter various data sources (e.g., different projects) and generate content-rich reports with plots and tables.

Through Lib Explorer, the user can readily select multiple projects and merge them into one report in the order of selection. For a more flexible method of organizing the content, Report Collector can be utilized.

This application note introduces the detailed operational steps for utilizing MQA's Lib Explorer and Report Collector. The user can realize the specific functions by following the steps, one by one. For more information go to [www.agilent.com/find/eesof](http://www.agilent.com/find/eesof) or contact your local Agilent office. The complete list is available at: [www.agilent.com/find/contactus](http://www.agilent.com/find/contactus).

### Basic Reporting Function

First, let's take a look at MQA's basic reporting function. As shown in Figure 1, right-clicking on *Project Node Result* and choosing *Export to Report*, causes the Report Wizard window to pop up (Figure 2).

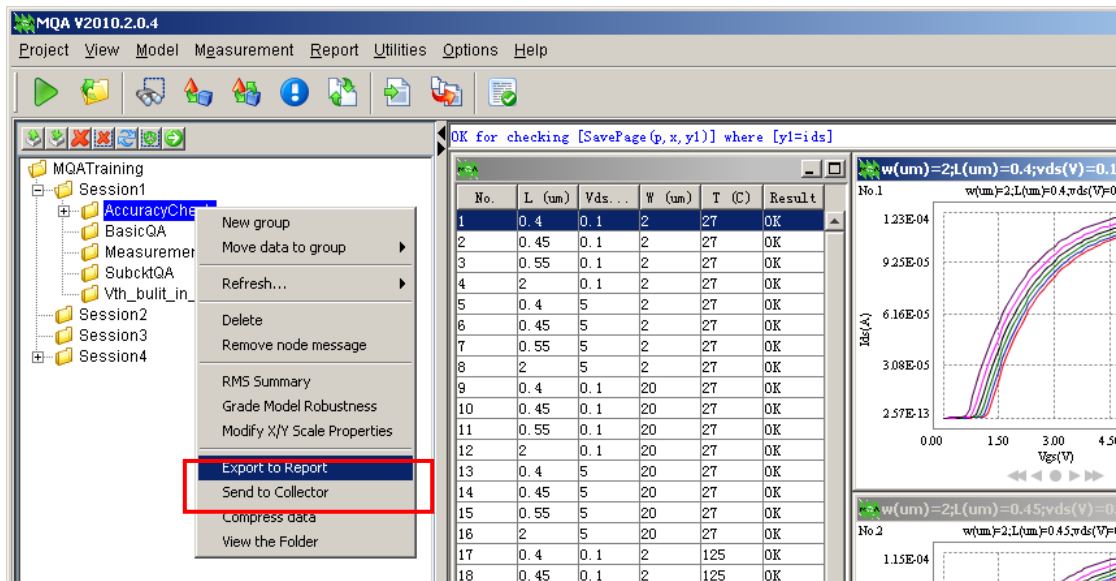


Figure 1. Export to Report

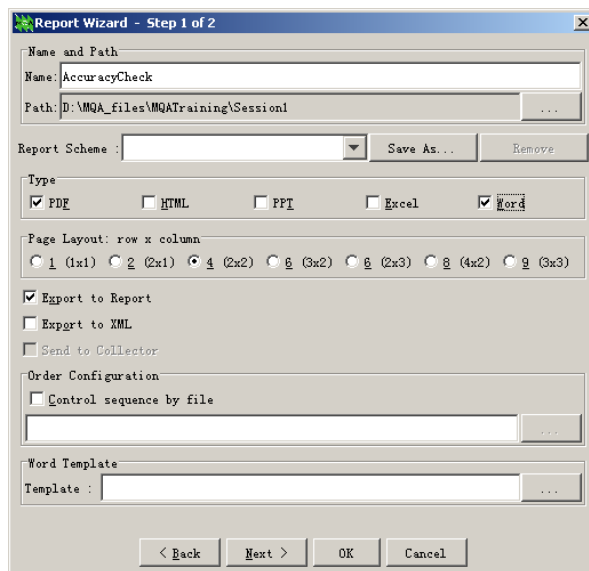


Figure 2. Report Wizard

The user then needs to select *Report Format* type, from a list that includes options like PDF, HTML, PPT, Excel, and Word. Doing so generates a document with a user-specified name (e.g., “AccuracyCheck.pdf” or “AccuracyCheck.doc”) in the folder designated “Path.” For this example, the folder name is given by “D:\MQA\_files\MQATraining\Session1.” The document contains all plots and tables within this project.

### Create Combined Report using Lib Explorer

One function of Lib Explorer is to create a combined report project that merges the results of multiple projects into one document in the order of selection (Figure 3).

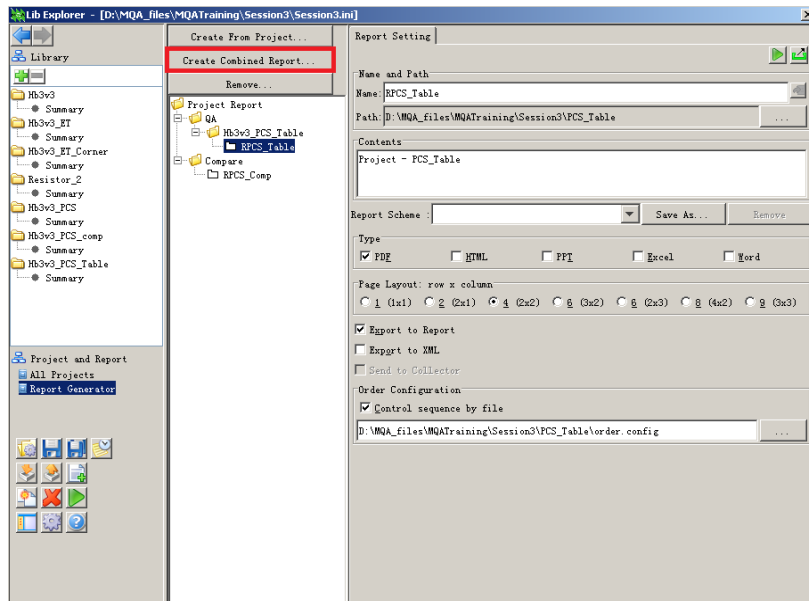


Figure 3. Lib Explorer

To access this function, the user clicks the button *Create Combined Report* to open the window shown in Figure 4. Here, multiple projects can be selected by clicking the corresponding checkboxes. The user can also adjust the result order by clicking the *Move Up* or *Move Down* buttons.

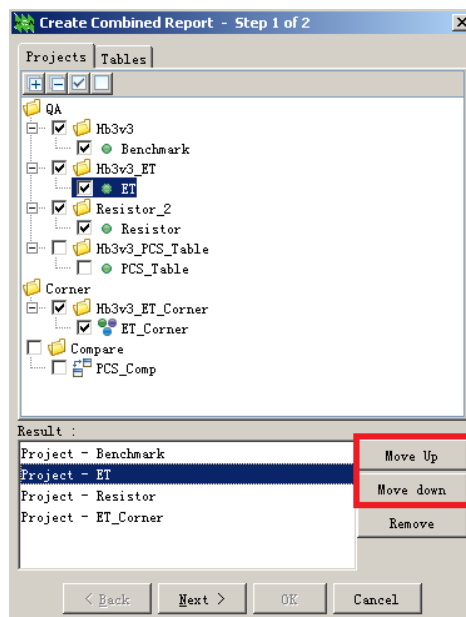


Figure 4. Create combined report, step 1of 2

In the example shown in Figure 4, the resulting report document contains results from the following projects: Benchmark, ET, Resistor, and ET\_Corner.

Clicking *Next* in the window shown in Figure 4, causes the report generation wizard window in Figure 5 to appear. After clicking the *OK* button, one combined report project named “*Report1*” is created in

Lib Explorer's Report Generator panel (Figure 6).

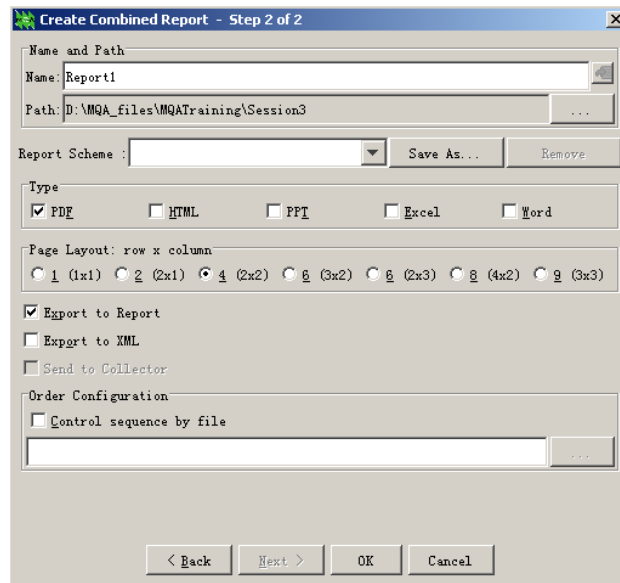



Figure 5. Create combined report, step 2 of 2

Click the  button to execute the report generation. Finally a file named “*Report1.pdf*” is created under the Path “*D:\MQA\_files\MQATraining\Session3.*”

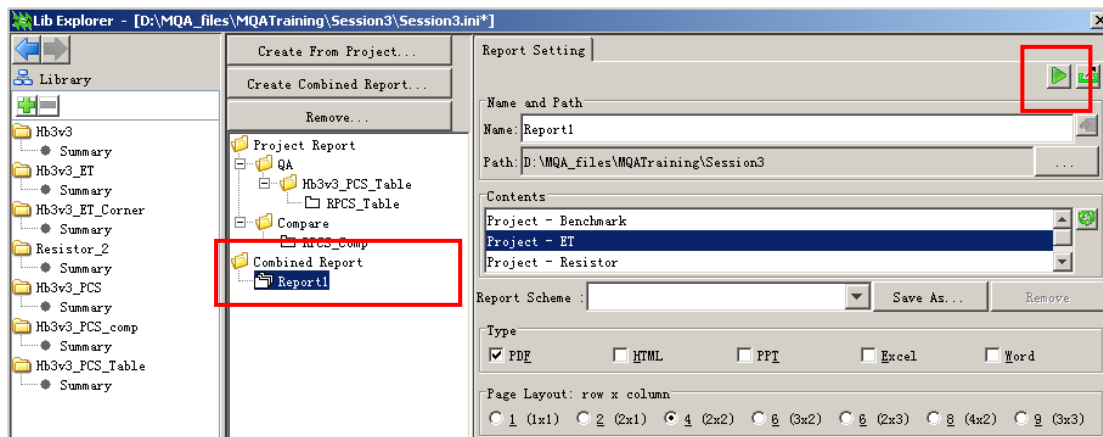


Figure 6. Combined Report 1

## Report Collector

Report Collector allows the user to accomplish the same job previously discussed, but with more flexibility in organizing the report content. The user can send results from various sources to Report Collector, such as different projects or any plots or tables from anywhere within MQA. This content can then be organized in Report Collector to dump to report documents according to the following steps.

## Send Results to Report Collector

The user must first right-click on any level of project node. The popup menu will appear showing one item named “*Send to Collector*” that sends the selected node to Report Collector. Besides the project level window shown in Figure 7, the “*Send to Collector*” item can also be chosen by right-clicking on one of the following:

- any rule level node, as shown in Figure 8;
- any plot, as shown in Figure 9; or
- any table, as shown in Figure 10.

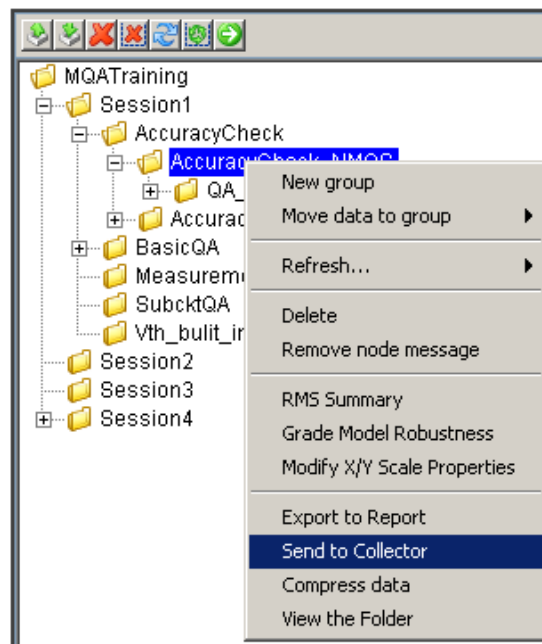


Figure 7. Project level, Send to Collector



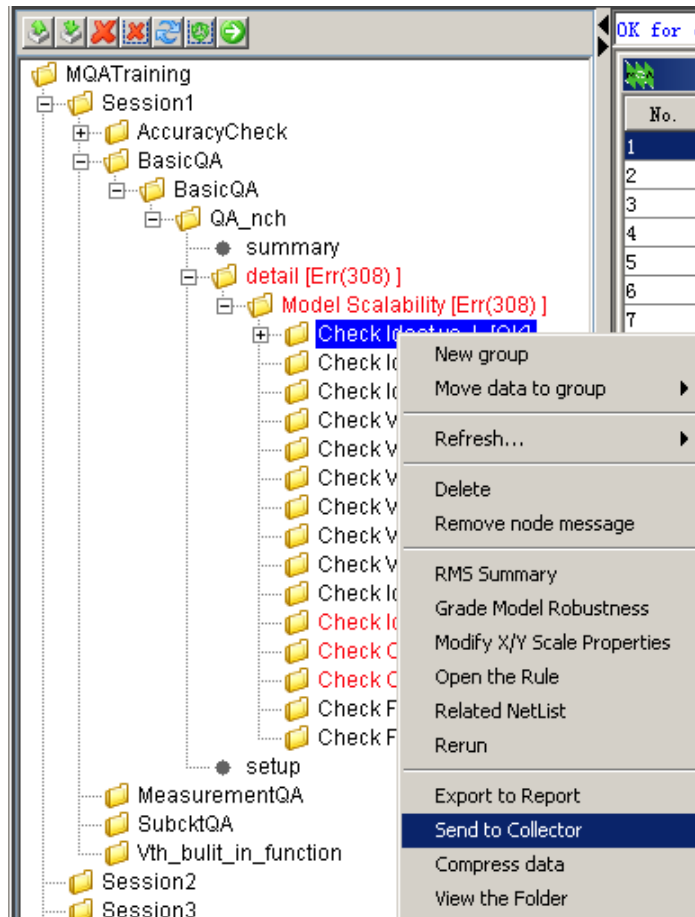


Figure 8. Rule level, Send to Collector

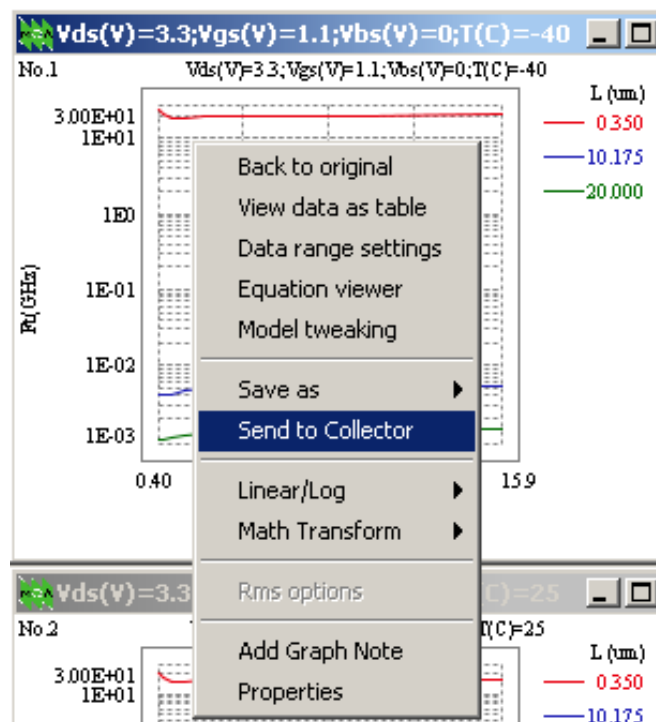





Figure 9. Plot, Send to Collector

No.	V <sub>gs</sub> (V)	T (C)
1	1.1	-40
2	1.1	25
3		
4		
5		
6		
7		
8		
9		

Figure 10. Table, Send to Collector

**Edit Items in Report Collector**

After opening the Report Collector window, the user will find all items that have been collected via the Collector tab (Figure 11). Here the user can preview plots or tables, adjust a node's order by clicking

the   buttons, or remove the node by clicking the  button.

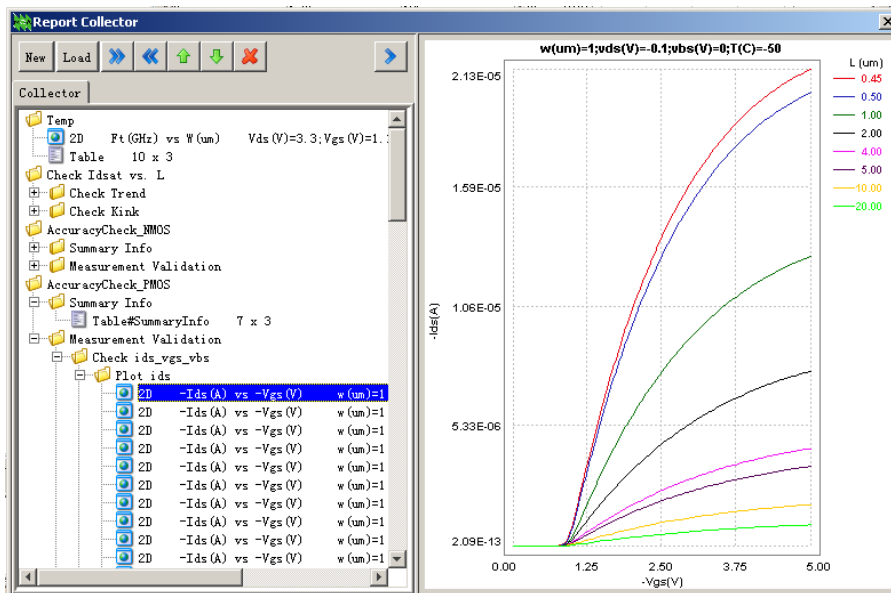


Figure 11. Report Collector

## Organize Content and Dump Out

Normally, the *Collector* tab is just a container to store all sent items. However, sometimes the user may want to sort the items into various documents. To conduct this operation, click the *New* button to create another tab, by default it's called "Report 1." The second one is called "Report 2" and so on. Each new tab is dumped out as a document. Next, in the *Collector* tab, right-click on *Node* and *Send to* → *Report 1*, as shown in Figure 12.

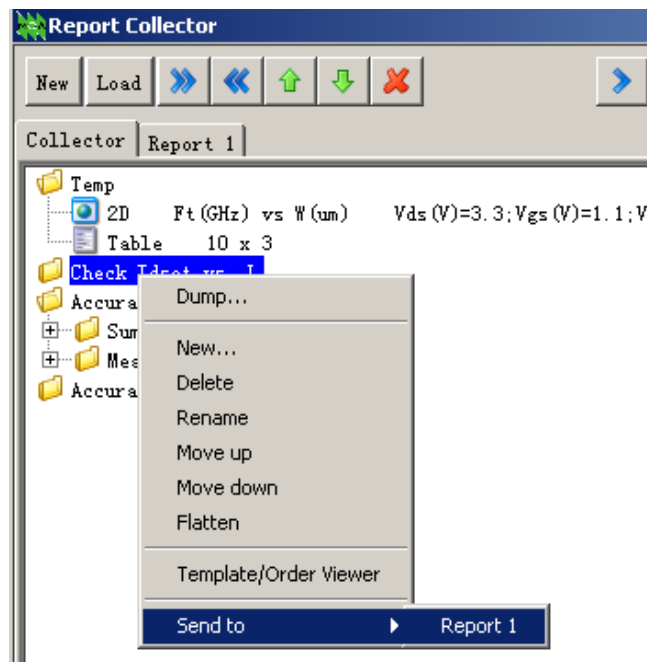


Figure 12. Send to Report 1

The contents in "Report 1" are then shown, as in Figure 13.

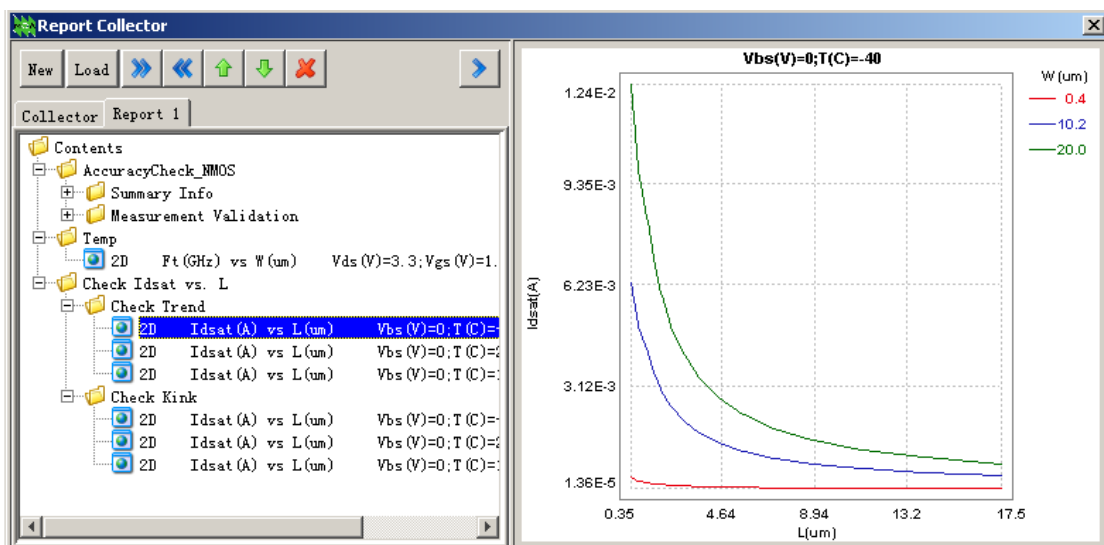


Figure 13. Report 1

The user can right-click on the *Contents* node and dump out all items in “*Report 1*” to a document (Figure 14).

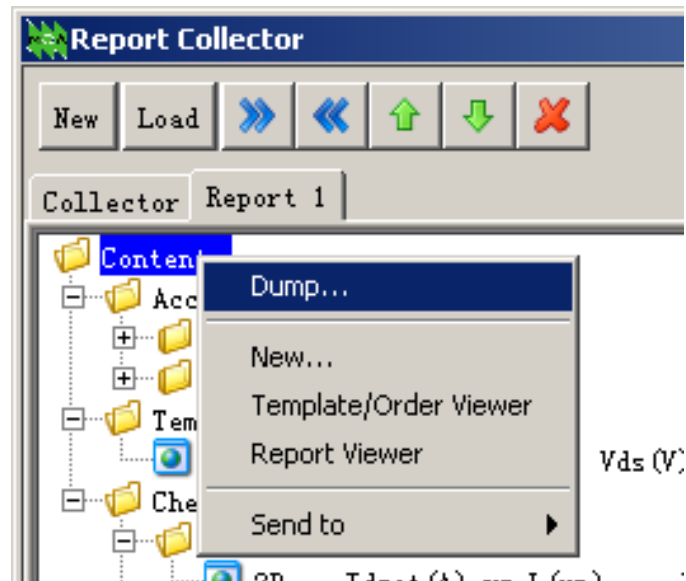


Figure 14. Dump Report 1

Finally, the uniform report generation wizard window pops up, as shown in Figure 15. By clicking the *OK* button, a file named “*Report2.pdf*” is created under the folder “*D:\MQA\_files\MQATraining\Session3.*”

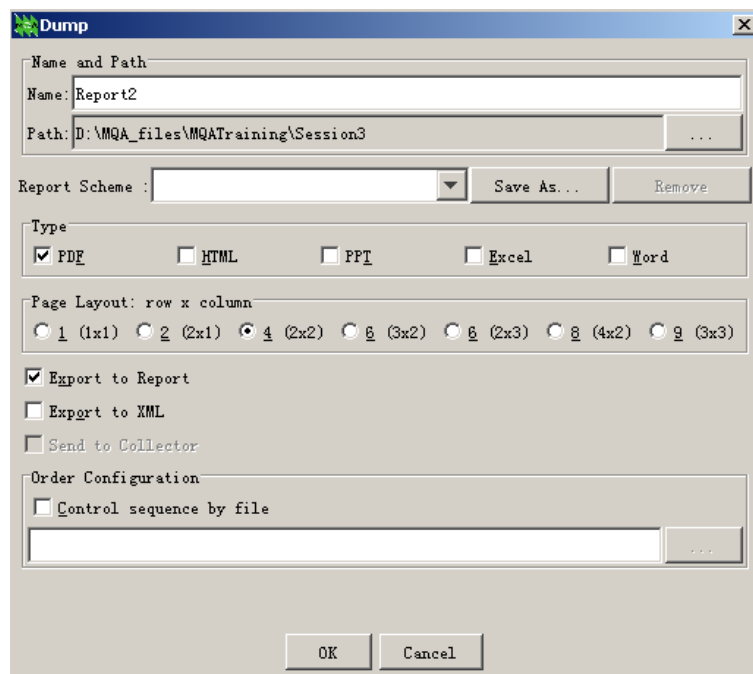


Figure 15. Dump window