Technical Information

Daqstation DX Report Simulator Operation Guide



TI 04L41B01-04EN



Introduction

Please read through this operation guide carefully before using the software.

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Scope of the Manual

This manual does not explain the basic operations of the operating systems. For information regarding the basic operations of Windows, see the user's guide that came with Windows.

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1. The DX Report Simulator

The DX Report Simulator is a software program for checking report templates used by the DX1000, DX1000N, and DX2000.

1.1 Requirements

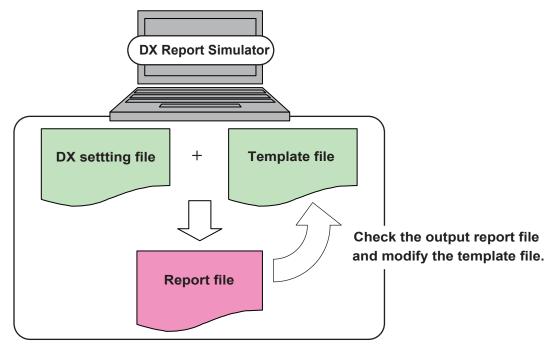
Item	Description
PC	An application (such as Microsoft Excel) associated with the .xml file type must be installed. See below for system requirements.
DX Report Simulator	This program. Download it from the following URL. http://www.yokogawa.com/ns/dxadv/download/
DX setting file	A setting file for the DX1000, DX1000N, or DX2000 with the extension .PDL or PEL.
Report template file	The report template file. The file name extension is .xml.

PC System Requirements

os	Windows XP	Windows Vista	Windows 7
Version	Professional SP2 or SP3 (excluding the Professional ×64 Edition)	Business SP2 (excluding the 64-bit edition) Professional (excluding the 64-bit edition)	
CPU	Pentium II, 333 MHz or faster	Pentium IV, 3 GHz or faster	
Memory	128 MB or more	2 GB or more	
Hard disk	100 MB or more of free space. NTFS is recommended.		

1.2 Functions

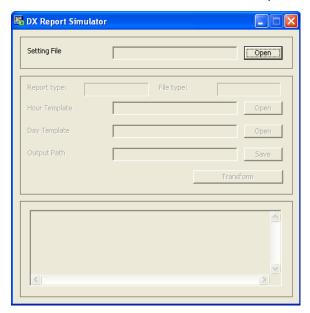
The DX report template function outputs reports based on report templates created in Microsoft Excel. This program outputs a simulated report using a DX setting file and report template file. It enables you to check the form and contents of reports.



2. Outputting Report Files

2.1 Starting DX Report Simulator

Double click **SimulatorEn.exe**. The DX Report Simulator screen is displayed.

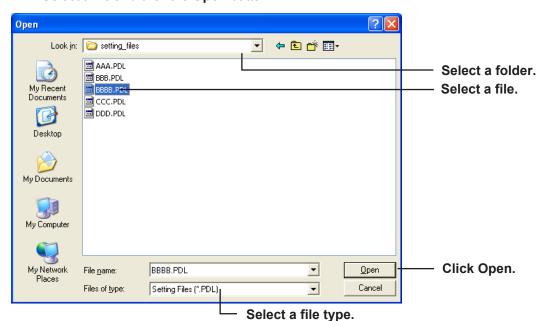


2.2 Specifying a Setting File

1. Under **Setting File**, click the **Open** button.

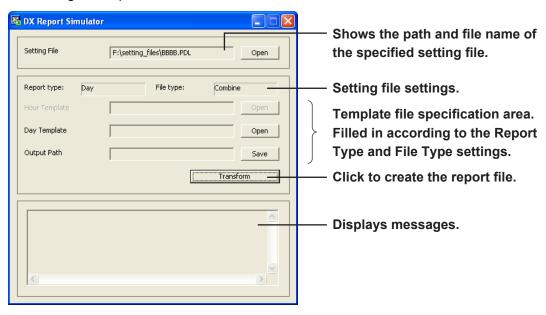
The Open dialog box is displayed.

2. Select a file and click the **Open** button.



- *.PDL: No Advanced Security function (/AS1 option)
- *.PEL: With Advanced Security function (/AS1 option)

The setting file is specified.



Setting file settings

Setting	Display	Description
Report type	Hour, Day, Hour + Day, Day + Week, Day + Month	The types of reports created. On the DX, this is set in Basic Setting mode under Menu tab > Report > Basic settings > Report type .
File type	Combine, Separate	Combine: When creating two kinds of reports, report data is saved to a single file. Separate: When creating two kinds of reports, a separate file is created for each report. On the DX, this is set in Basic Setting mode under Environment tab > Report > File type.
Use template	This item must be set to Use to use the report template function. If set to Not , a message is displayed and the setting file cannot be specified. On the DX, this is set in Basic Setting mode under Environment tab > Report > Use Template .	

The boxes in the template specification area are filled in as follows depending on the report type and file type.

Hour template, Day template, Week template, Month template, Hour + Day template, Day + Week template, Day + Month template.

Here we describe the operation with the following settings as an example:

Report type: Day (Daily report)

File type: Combine

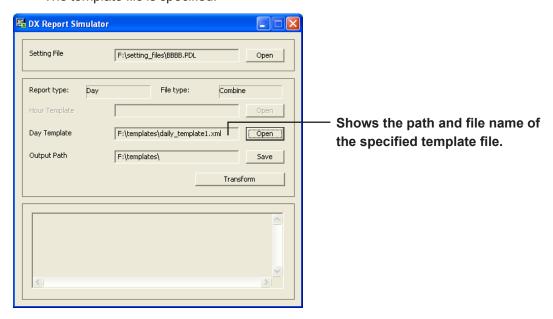
2.3 Specifying a Template File

1. Under Day Template, click the Open button.

The **Open** dialog box is displayed.

2. Select a file and click the **Open** button.

The template file is specified.



2.4 Specifying a Report File Save Destination

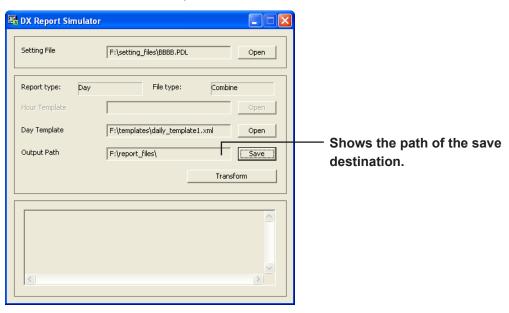
When specifying a template, the template folder is automatically set as the save destination for report files. To change the save destination, perform the following steps.

1. Under Output Path, click the Save button.

The Browse for Folder dialog box appears.

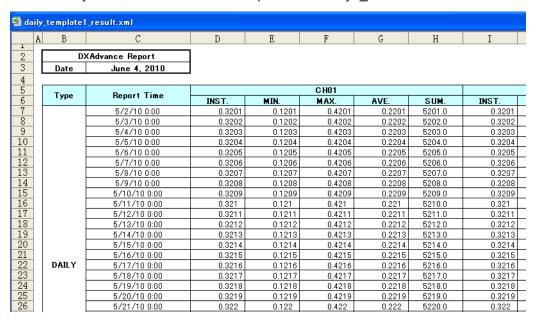
Select a folder and click the **OK** button.

The save destination is specified.

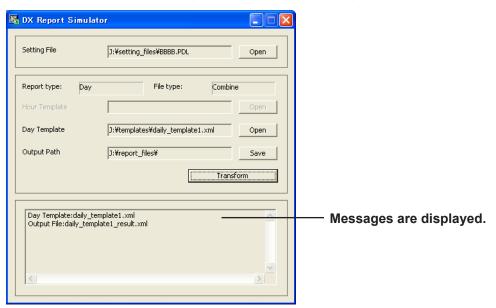


2.5 Creating Report Files

Click the **Transform** button. The created report file is saved and displayed. The file name of the report is the file name of the template appended by "_result." For example, if the template file name is daily1.xml, the file name of the report will be daily1 result.xml.



Messages are displayed. If no report file is created, check for messages and troubleshoot accordingly. For a list of messages see chapter 4, "Messages and Corrective Action."



As with hourly and daily reports, when one each of two types of reports are created (when the file type is Separate), two report files are created and displayed.

3. Checking Report Files

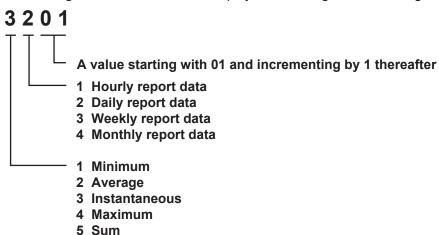
3.1 Date and Time Display

The date and time are displayed according to the following rules.

```
Hourly report
 yyyy/mm/dd hh:00:00
  Daily report
 yyyy/mm/dd hh:00:00
  L Year/month
                  One month of dates, up to the [Date] closest to but not including
    on the PC
                  the PC date.
Hourly + daily report
 <Date/time of hourly report>
 yyyy/mm/dd hh:00:00
                  L 24-hour time up to the [Time (hour)]
  L Date on the PC
 <Date/time of daily report>
 yyyy/mm/dd hh:00:00
  Date on the PC [Time (hour)]
Daily + weekly report
 <Date/time of daily report>
 yyyy/mm/dd hh:00:00
  L Year/month
                  7 days of dates up to the [Day of the week] closest to but not including
    on the PC
                  the date on the PC
 <Date/time of weekly report>
 yyyy/mm/dd hh:00:00
  L Year/month
                    L [Time (hour)]
                  Year of dates, up to the [Day of the week] closest to but not including
    on the PC
                  the date on the PC
Daily + monthly report
 <Date/time of daily report>
 yyyy/mm/dd hh:00:00
  L Year/month
                    L [Time (hour)]
                  One month of dates, up to the [Date] closest to but not including the date
    on the PC
                  on the PC
 <Date/time of monthly report>
 vvvv/mm/dd hh:00:00
                    L [Time (hour)]
                L [Date]
    on the PC
```

3.2 Number Display

The average and other values are displayed according to the following rules.



Decimal places

The decimal places for the minimum, average, instantaneous, and maximum values are the same as those of the input range for their channel.

Example

If there are four digits after the decimal point, the instantaneous values of a daily report correspond to the following keywords.

Keyword	Report Output
\$ReportDataInst(Day)\$	0.3201
\$Repeat\$	0.3202
\$Repeat\$	0.3203

The sum value is displayed as an exponent with six digits after the decimal point.

Example

The sum value of a daily report is displayed as: 5.201000E+3.

Decimal point

The symbol for the decimal point (period " . " or comma " , ") depends on the formatting of the cell. However, if the data in a template-based report file are strings, the decimal point symbol matches the type specified in the setting file. The decimal point type is set in Basic Setting mode under **Environment** tab > **Operating environment**.

3.3 Examples of Error Displays

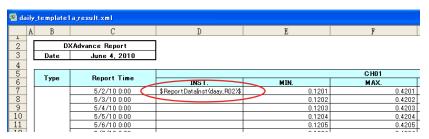
Keyword itself displayed

Cause

The keyword description is not correct. There are typographical or formatting errors.

Example

In \$ReportDataInst(daay,R01)\$, "daay" is misspelled.



Explanation

A formatting error results if even the font used for a keyword does not match. For information on keyword formatting, see section 9.6 in the DX1000/DX1000N User's Manual or the DX2000 User's Manual.

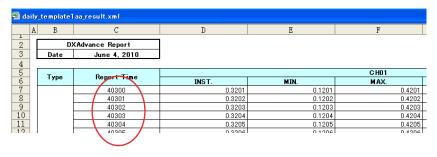
Date not displayed correctly

Cause

The template format was not set correctly.

Example

The format of the corresponding cell in the template is "General."



Explanation

The date/time display and decimal place alignment for numbers are also set in the cell format.

The template format was not set correctly.

4. Messages and Corrective Actions

The following messages may appear on the DX Report Simulator.

Message	Explanation (Corrective Action)
There is no setting file.	The file cannot be saved. Check whether the file and folder names are correct.
The setting file is incorrect.	The setting file is corrupt, or its format is incorrect.
Report type has not been set.	In Basic Setting mode, Menu tab > Report > Basic settings > Report type is turned OFF. Specify a setting file whose report type is set to something other than OFF.
Report template has not been used.	In Basic Setting mode, Environment tab > Report > Use Template is set to Not. Specify a setting file whose Use Template setting is set to Use.
The template file is incorrect.	The size of the template file exceeds 400 KB, or the template file format is not correct.
There is no template file.	This file cannot be saved. Check whether the file and folder names are correct.
Not enough free space on disk.	Ensure that there is sufficient free space.
XX Report file already exists. Do you want to overwrite it?	Determine whether or not to overwrite the existing file.
Fail to save file.	The output path cannot be saved. Check whether the specified output path is correct.

Revision Information

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