



Description: Quick Start for configuring and running the Iconics TrendWorX Reporter application.

OS Requirement: The operating system required is Win XP/2000/NT.

General Requirement:

The TrendWorX32 product collects process data and logs this into standard databases (Access, MSDE, MS-SQL, Oracle). TrendWorX32 serves this data for reporting purposes or for live presentation on the screen. The following table shows the specific trending tasks and the TrendWorX32 module performing the task. The highlighted task is described in this application note.

Functionality	TrendWorX32 Module
Trend Logging to RAM Trend logging to databases	Persistent Trending TrendWorX32 SQL Data Logger
Realtime/Historical Trend presentation	Trend Viewer ActiveX
Trend Reporting Trend container application	TrendWorX32 Reporter TrendWorX32

Capabilities:

- The TrendWorX32 Reporter creates one or more trend reports and is triggered periodically or by process conditions.
- The historical trend data may be available in Access, MSDE, SQL Server databases.
- The trend report is provided in Text, MS-Excel or Database format.

The Trend Reporter needs historical trend data on which it can base its report(s). This example expects that you completed the **TrendWorX32 SQL Data Logger Quick Start** and that a Machine Data Source called **myTrendData** is available.

Configure the Trend Reporter

To configure the Trend reporter, the following steps have to be completed.

1. Start the TrendWorX32 Reporter. Click **Start, Programs, ICONICS GENESIS-32, TrendWorX32, TrendWorX32 Reporting**.
2. Select the **File, New** from the menu.
3. Select **Edit, Add Report** from the menu and specify a name for the report configuration **myReport** as well as a target name for the report **myReport** as shown in figure 1.
4. Select the **Enabled** checkbox and click the **Next** button.

General

Report Name: myReport [Enabled]

Target Name: myReport [Expr...]

Fig.1 Report Name Configuration

5. Click the **DSN** button and select the Machine Data Source Tab. In the list you will find **myTrendData**. Select it and click **OK**. When it asks for a username and password, click **OK** again.
6. Click the **DBase Group** button, select **myDB** and click **OK**.
7. Click the **Group** button, select **Boiler** and click **OK**.
8. Click the **Tags** button, select the three trend pens and click **OK**.

Tags

D... myTrendData MS Access

User ID: admin Password: [password]

DBase Group... myDB

Group... Boiler

Tag Name	DSN Name	Type
PLC.BOILER.PRESSURE	myTrendData	MS Acc
PLC.BOILER.SETPOINT	myTrendData	MS Acc
PLC.BOILER.TEMPERATURE	myTrendData	MS Acc

Delete

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Fig.2 Report Tags Configuration

9. Click the **Next** button.
10. Select the Filter **Last** and Process Data Every **15** seconds. See figure 3.



Report

Data Filter: **Last** ☐ Backfill Empty Cells

Filter Order: **8** ☐ Include Qualities

Process Data Every

Days	Hours	Min	Secs	Msec
0	0	0	15	0

Input Signal is:

- ☐ Amount per sec
- ☐ Amount per min
- ☐ Amount per hour
- ☐ Amount per day

Totalizer Type:

- ☐ Continuous
- ☐ Preload
- ☐ Preset

Counting Options

Initial value: **0**

AutoReset Level: **2000**

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Fig. 3 Report Filter Configuration

11. Click the **Next** button.
12. Select **Text File** as the format for your report.
13. Select the **Report Path** button and specify where the reports need to be created. e.g. C:\TEMP

Target

☐ Database Table ☒ Text File ☐ Excel File

Report Path: **C:\TEMP**

Number Format: **xxxx.xx** ☒ Add Header

☒ Create Report with Date ☐ Overwrite Report

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Fig. 4 Location of the reports.

14. Click the **Next** button.
15. Select **Immediately** for the schedule of the report.

Schedule

☒ **Immediately**

☐ One Time

Date: **4/1/2003**

At Time: **10:42:30 PM**

☐ Periodic

Occurs weekly on Sunday at time 08:00:00

☐ On Event

Change Expi...

Fig. 5 Report Schedule.

16. Click the **Next** button.
17. Verify that the Range of the report data is correct.
18. Click **Finish**

Range

Single execution

Set Start... **Tuesday, April 01, 2003 21:30:00**

Set End... **Tuesday, April 01, 2003 22:30:00**

On Event/Periodic

Report Time Span: Days **0** Hours **1** Min **0** Secs **0**

Start From Last Time Run: ☐ Enable time span: ☐

Fig. 5 Data range for report

19. Select **File, Save As... Reports.rtw**
20. Click the traffic light to start the report(s).

Reports.rtw - TrendWorX Report Application by ICONICS

Report	Enabled	Report Type	Status	Last Run
myReport	No	Immediate	Normal	4/1/2003 10:54:45 PM

For Help, press F1

Started Reports 1 Report 1/04/2003 22:55:50

Fig. 6 Trend Reporter in Runtime

The C:\TEMP directory will contain the report that was just created. This report can be opened with Notepad or as shown below with MS-Excel.

Date	Time	Msecs	PLC.Boiler.Pre	PLC.Boiler.S	PLC.Boiler.Temperature
3/8/2002	1:14:26 PM	0	9	234	64.04
3/8/2002	1:14:41 PM	0	24	236	35
3/8/2002	1:14:56 PM	0	39	238	65.96
3/8/2002	1:15:11 PM	0	54	240	33.42
3/8/2002	1:15:26 PM	0	69	242	67.23
3/8/2002	1:15:41 PM	0	84	244	32.15
3/8/2002	1:15:56 PM	0	99	246	68.49
3/8/2002	1:16:11 PM	0	14	248	30.87
3/8/2002	1:16:26 PM	0	29	250	69.74
3/8/2002	1:16:41 PM	0	43	252	60.42
3/8/2002	1:16:56 PM	0	58	254	40.26
3/8/2002	1:17:11 PM	0	73	256	58.75

Fig. 7 An example of a Trend Report