

Reports for DavNet

User Guide

v2.01 Sept 2014



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Introduction

Reports for DavNet is a custom reporting solution for Davicom's DavNet Multi-Site Alarm Management Software¹ on Microsoft Windows². Information is gathered using the Custom Log feature in your Davicom unit and then downloaded to DavNet on a periodic basis so that continuous connectivity is not required to each site.

Create one-off or regular customised reports for all your sites, units and inputs and have them emailed straight to your inbox.

Available Charts:

- Metering Input Level Line Charts
- Alarm Status Percentage Pie Charts
- Alarm Status Percentage Stacked Bar Charts
- Virtual Gate, Relay, Input Status Pie Charts
- Virtual Gate, Relay, Input Status Stacked Bar Charts
- Data Table Charts (with data zooming)

Charts are combined into a single report **PDF** and can be run on scheduled interval. Reports can also be optionally accompanied with the raw data export **CSV** file.

Changes in this version

- **Reports for DavNet** no longer requires access to the internet.
- Reports can now contain inputs from multiple sites.
- Create new pages in the report with page breaks.
- Half-width charts.
- Zoomable tables.

Footnotes

-
1. Optimised for DavNet v5.4 or greater [↩](#)
 2. Optimised for Windows 7 or greater [↩](#)

Installation and Uninstallation

If you have an earlier version of DavNet reports:

Using the Windows Control Panel > Programs and Features, uninstall the following programs:

BullZip

Xampp

this should remove the installed applications

Look at the windows scheduled tasks (Start > Accessories > System Tools > Task Scheduler) and remove anything with "davnet" in the name.

On the target Windows computer, double-click on the provided installer file. Modern versions of Windows will display a User Access Control dialog asking for permission for the installer to make changes to the computer. Ensure you select "Yes" to continue.

Installing Version 2.1

You will then be shown the End User Licence Agreement. Read through this licence, and if you are satisfied with these terms, select "I Agree" to continue installation.

You can now select the file destination for **Reports for DavNet**. You can install the software anywhere you wish as long as it is on a disk device permanently accessible to the Windows machine as it starts up. When you are happy with your chosen destination, select "Next".

The required files will be copied over automatically and set up for your target computer. When installation is complete you will be presented with a link to open up a browser window to start using **Reports for DavNet**. If this window doesn't appear open your web browser and navigate to <http://localhost:3286/>.

To Uninstall **Reports for DavNet**, there is a file uninstall.exe in your install directory after installation. Double click this file and follow the instructions to remove the software from your computer.

Gathering the Information

At each site information about Davicom inputs and outputs can be logged periodically into the Custom Log.

Log in to your Davicom with as Administrator or higher and go to:

Unit > Unit Configuration > Status & Log Transfers > Custom Log

and set the sampling period, transfer time and transfer address (the address or phone number of your DavNet). See the note below about the sampling period and transfer time.

Transfers: Name: Test Site ID: 1001

System Status System Log Custom Log EAS Log

Transfer Time (HH:MM): 00:10

Transfer every 1 ☒ Days ☐ Hours

Transfer at X% (50 to 90%): 90

Number of attempts: 5

Delay between attempts: 1 Minute(s)

Telephone Number/Address: 192.168.0.80

Transfer Type:
(0) Disable
(1) Terminal
(2) Fax
(3) DavNet Dial-Up
(4) E-Mail
(5) DavNet IP
(6) Serial

Callout Device: Ethernet

Sampling Period: 1 ☐ Sec ☐ Min ☒ Hours

Mass Storage Device: Disable

☐ Overwrite Data

Clear Custom Selections

OK Cancel

Now go to the inputs or outputs you want to log and check the Custom Log checkbox.

Metering Inputs: Name: Test Site ID: 1001

Input Number: 1A01 ☒ Enable Qualifier State ☐ Auto Read

Descriptions
 Default: Forward Power
 Alternate: Forward Power

Voltage Range: 10
 Measurement Unit: W
 Normal Value: 1000

Sensor Coefficients
 A: 0 B: 100 C: 0 D: 0
 $y = A x^2 + B x + C$ for $D = 0$, or
 $y = D \log(A x^2 + B x + C)$

Actions:

Level 1
 Action Type: CMD Alarm List: 1
 Limits: (*=don't care) Low: * Hysteresis: 0 High: * Hysteresis: 0
 Controlled Relays: 1 2 3 4 5 6

Level 2
 Action Type: CMD Alarm List: 1
 Limits: (*=don't care) Low: * Hysteresis: 0 High: * Hysteresis: 0
 Controlled Relays: 1 2 3 4 5 6

Automatic Limit Change
 Qualifier: Multiplier: 1
 Meter Window
 Low: High:

Signaling On
☒ Alarm
☒ Return to Normal

Delays
 Before Action (sec): 0
 Before Return to Normal: 0

Logging
☒ Custom Log

Sampling period and transfer time

The Custom Log holds 1,024 events so the more items you log and the shorter the sampling period the more often you will have to download it to DavNet.

For example if you log 4 inputs/outputs every hour you will need to download the log every $1024/4 = 256$ hours or every 10 days.

It doesn't matter if you download more often – the Davicom will only send entries that have not been sent before. As a failsafe the Davicom will also download the file when it gets to 90% full since the last download (the default value but you can change this).

You will need to repeat the process for every site which you want to produce reports.

Getting Started In DavNet Reports

Reports for DavNet will only display regions, sites and ID for sites that have downloaded custom logs already, so make sure that you have some valid Custom Logs with DavNet.

If you are not sure log in to DavNet and click on

View > Database > Archived History Log

and change Log Type: to Custom Log from the drop-down menu. Then click Submit to see available Custom Logs.

The screenshot shows a web application window titled "Archived History Log". It contains a "Query Criteria" section with several input fields and a "Log Type" dropdown menu set to "Custom Log". Below the criteria are buttons for "Submit", "Advanced Query", "View Log...", "Print", and "Clear Screen". A table displays a list of log entries with columns for "#", "Site Name", "Date-Time", and "Site ID". The table contains 15 rows of data. At the bottom of the window are "OK" and "Maintenance" buttons.

#	Site Name	Date-Time	Site ID
1	...	2013-08-12 00:20:43	148
2	...	2013-08-12 00:15:04	149
3	...	2013-08-12 00:10:53	67555
4	...	2013-08-12 00:10:05	306
5	...	2013-08-11 00:20:49	148
6	...	2013-08-11 00:15:05	149
7	...	2013-08-11 00:10:53	67555
8	...	2013-08-11 00:10:08	306
9	...	2013-08-10 00:15:05	149
10	...	2013-08-10 00:10:52	67555
11	...	2013-08-10 00:10:09	306
12	...	2013-08-09 00:15:06	149
13	...	2013-08-09 00:10:51	67555
14	...	2013-08-09 00:10:10	306
15

Reports for DavNet runs in a web browser. If you are on the machine where Reports for DavNet is installed navigate to:

<http://localhost:3286/>

If on another computer type in the IP address of the host computer with the **Reports for DavNet** port 3286.

<http://xxx.xxx.xxx.xxx:3286/>

Make sure that port 3286 is open between the two computers and allowed in firewall and antivirus software.

Footnotes

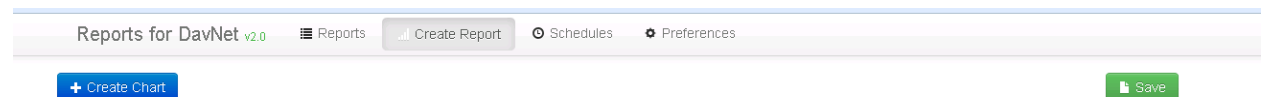
1. Optimised for Firefox v30 or greater [↩](#)

Creating A Report

Your opening screen will be **Reports**, but there won't be any saved reports yet so to get started go to the **Create Report** tab.

You will be asked to provide a name for this new report. You can rename a report later by clicking the **Rename** button on the top right.

Click on the **+Create Chart** button.



And you will be presented with the following dialogue box.

A screenshot of the 'Create Chart' dialog box. It has a title bar with a close button. The dialog is divided into three main sections: 'Input', 'Date', and 'Chart'. The 'Input' section has a dropdown menu 'Input Favourites' and four input fields: '1. Region', '2. Site', '3. Input Type', and '4. Input'. The 'Date' section has a dropdown menu 'Dynamic Dates' and two date/time pickers. The 'Chart' section has three tabs: 'State' (selected), 'Pie Chart', and 'Data Table'. Below the tabs is a text input field for 'Chart Description' and a 'Width' section with 'Full' (selected) and 'Half' options. At the bottom right are 'Cancel' and 'Create' buttons.

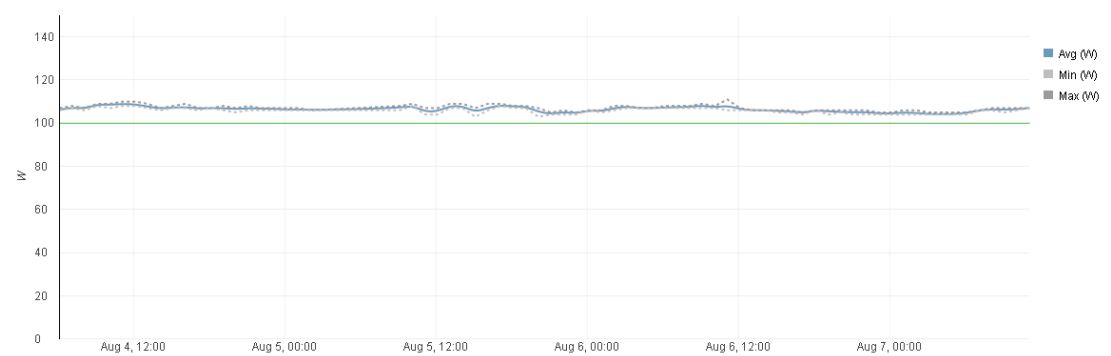
Select the region, Site, Input Type and Input. You can either select a date range within the date boxes or under Dynamic Dates you can select relative dates such as yesterday or Last Week.

Whenever the report is run the same relative date will be used, so if you run the report every Monday it will produce a report for the previous week.

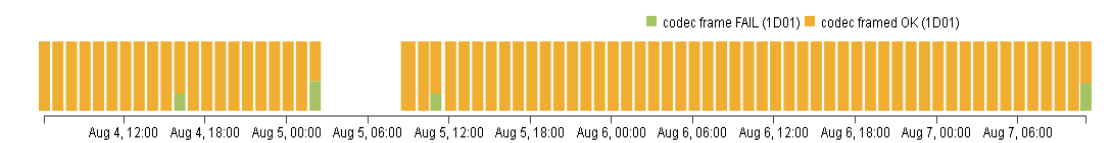
If you select dates directly in the date windows the report will always be for those same dates.

Depending on the Input Type chosen you will now chose what type of Chart you want:

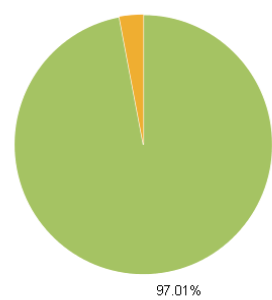
Level Chart is a conventional graph of Value vs. Time. This is best suited for analog inputs.



State Chart is suitable for Analog Inputs, Status Inputs or Virtual Logic Gates and shows amount of time in Major, Minor, Active or Normal during time periods. The time periods are not necessarily weeks, days or hours, but are dependent on the scale of the X-Axis. This chart is good for showing when problems occurred and is particularly useful if you position it below a Level Chart.



Pie Chart is suitable for all inputs and outputs and shows the percentage of time in Major, Minor, Active or Normal during the whole time period of the chart.



Data Table is suitable for all inputs and outputs and shows a list of data points and values. These data points can be expanded to look into further detail exact times when changes took place. Simply hover over a date and wait for a magnifying to appear then click to expand.

Time Range: . Using: 11 hour intervals

Date / Time▲	Description	Status
Aug 4, 06:22	codec framed OK (1D01)	NORMAL
Aug 4, 19:07	codec framed OK (1D01)	MINOR
Aug 5, 00:37	codec framed OK (1D01)	MINOR
Aug 5, 09:22	codec framed OK (1D01)	MINOR
Aug 6, 02:52	codec framed OK (1D01)	NORMAL
Aug 6, 08:22	codec framed OK (1D01)	NORMAL
Aug 6, 18:52	codec framed OK (1D01)	NORMAL
Aug 7, 09:22	codec framed OK (1D01)	MINOR

Whichever type of chart you have chosen you will be asked for a Description. This should be relevant to the chart and will be shown above it on the page.

You will then be asked whether you want the chart full or half width on the page. Half width is useful when producing many charts on a page.

If you have chosen a Level Chart you also have the opportunity to put in a Normal Value. This could, for example, be the normal forward power of a transmitter and it will draw a line on the chart for your reference. You will also be asked to put in a Maximum and Minimum value for the vertical axis. If left blank the chart will just show the range from the minimum to maximum values during the time period.

Finally press the **Create** button to create your chart. You will be presented by your report and the report will be automatically saved. To rename the report click the **Rename** button on the top right.

More than one chart can be created on a page. To create another chart below the current one simply press **+Create Chart** and follow the procedure above, or if you are creating multiple charts that share site or time features you can press **+Duplicate** to duplicate the chart and then **+Edit** to change the input, timescale or other parameter.

You can mix and match site, inputs, chart types, date ranges, full and half width charts as you want. To start a new page click the **+Insert Page Break** button. Charts can be moved up or down within the report as required.

Once you have finished creating your report return to the **Reports Tab** at the top of the page to View, Schedule, Rename or Delete your report.

Working With Saved Reports

Once a report has been saved it will appear in the **Reports** tab at the top of the page.

The screenshot shows the 'Reports for DavNet v2.0' interface. At the top, there is a navigation bar with tabs: 'Reports' (selected), '+ Create Report', 'Schedules', and 'Preferences'. Below the navigation bar, there are two sections: 'Filters' and 'Sorting'. The 'Filters' section has a 'Show All' button. The 'Sorting' section has buttons for 'Name', 'Date Created', 'Last Update' (selected), and two arrows for sorting order. Below these sections is a 'Reports' section displaying a grid of report cards. Each card has a report icon and a name, with a dropdown arrow on the right. The reports shown are: Table Test, Test schedule, Untitled Report, Last Week, Page Break Test, Half Width Test, SNMP Get, Virtual Gate, Metering, and Input Status.

Reports can be filtered by **Region** or **Site** by clicking on any of the filter buttons and can be sorted by **Name**, **Date Created** or **Last Updated**.

Clicking on any of the reports will give you the option of **View**, **Schedule** or **Delete**.

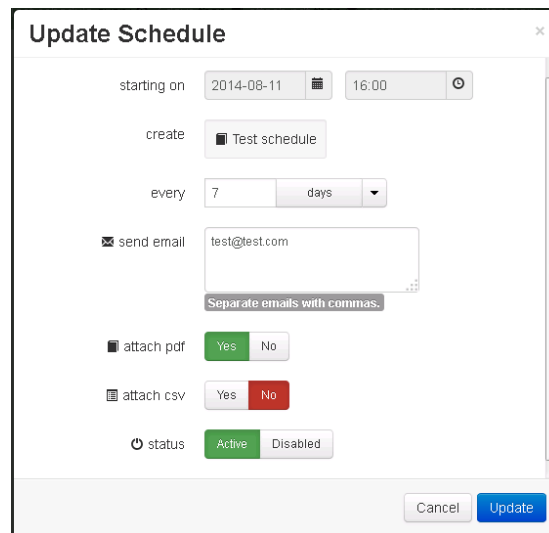
If you view the report will appear (using relative or absolute dates as described above) and you will be taken to the **Create Report** tab so that you can customise the report further if required.

Clicking on Delete will remove the report from system. Deletes are destructive and final; all related charts and schedules will also be deleted.

Clicking on Schedule will take you to **Create Schedule** screen, you can Schedule the report to start on a particular date and time and to recur on a regular basis. Go to [Working With Scheduled Reports](#) to learn more.

Working With Scheduled Reports

Test3You can Schedule the report to start on a particular date and time and to recur on a regular basis. Complete this page to schedule the report. Separate email addresses with commas if you want the report emailed to more than one place. You can chose to send the .pdf report and/or a .csv file containing all of the data points used for the report. Finally you can activate or deactivate the schedule with the buttons at the bottom.



The 'Update Schedule' dialog box contains the following fields and controls:

- starting on:** A date picker set to 2014-08-11 and a time picker set to 16:00.
- create:** A dropdown menu showing 'Test schedule'.
- every:** A text input with '7' and a dropdown menu with 'days'.
- send email:** A checkbox that is checked, followed by a text input containing 'test@test.com' and a small tooltip that says 'Separate emails with commas.'
- attach pdf:** Two buttons, 'Yes' (green) and 'No' (grey), with 'Yes' selected.
- attach csv:** Two buttons, 'Yes' (red) and 'No' (grey), with 'Yes' selected.
- status:** Two buttons, 'Active' (green) and 'Disabled' (grey), with 'Active' selected.
- Buttons:** 'Cancel' and 'Update' buttons at the bottom right.

By clicking on the Schedules tab at the top of the page you will be able to see all Reports that are scheduled.

Schedules

starting on 2014-08-11 16:00 create Test schedule every 7 days then attach pdf then send email to test@test.com

The green bar shows a summary of the report and schedule. You can edit or delete the schedule (this doesn't delete the report) by using the drop-down arrow to the right of the bar.

Scheduled Reports can be sorted and filtered by clicking on the relevant buttons near the top of the page.

Filters

Show All Active Disabled PDF CSV Email

Sorting

Report Name Start Date Date Created Last Update ↓ ↑

Preferences

The **Preferences** tab will take you this screen:

You should have a Gmail or other SMTP server account to use and should enter the details here.

The Database and DSN should be preset at installation and should not be changed unless you are experiencing connection issues.

Date presets should only be changed if you know what you are doing! See [PHP strtotime Documentation](#) for help.

Email Preferences

Save

Sender Email Address

✉

test@test.com

Sender Name

👤

Davnet Report Demo

Use SMTP

Yes

No

SMTP Server

🌐

smtp.gmail.com

SMTP Port

🔌

465

SMTP User Name

👤

test@test.com

SMTP User Password

🔒

Use SSL

Yes

No

Database DSN

User Database DSN

👤

DavNet SitesUsers

Custom Entries DSN

👤

DavNet ArchHisto

Save

Date Presets

Create

📅 Yesterday

📅 Last Week

📅 Last 24 Hours

📅 Last Hour

📅 Last Month

📅 Last 3 Months

📅 Last Year

Input Colour Presets

Create

Sometimes the system colours might not be appropriate for a particular input (for example an OK status being orange). Here the user can globally assign a particular colour to an input. **All charts** will now use this colour for this input.

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Create Input Colour Preset

Input

1. Region

▼

2. Site

▼

3. Input Type

▼

4. Input

▼

Colour

Cancel

Create

Once finished press **Save** to save the preferences.