

EXO4 Web Server 2010

User Guide



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What is EXO4 Web Server

EXO system EXO4 Web Server is used to get access to an EXO system via the Internet. Real-time values from controllers as well as alarms and logged data can be inspected. The EXO system includes stations, controllers (systems).

Access An EXO4 Web Server user must identify himself with login name and password, and is thereafter given access to the parts of the EXO system that he has permission to. The permissions are defined by the administrator of the system and can also include the right to change values, e.g. setpoint values

User Categories

Access level Every user must belong to a user category which defines the user's access level.

There are six user categories in EXO4 Web Server:

- □ System installer is a user that have full access to the system, including permission to configure EXO4 Web Server.
- □ **Operator group** is a group of users, e.g. a company, that has access to one or more stations and their controllers (systems).
- □ Administration groups have the same permission as Operator groups, but they have also permission to add, change, and remove users. User administration is described in the chapter *User Administration*.
- □ Station users have access to <u>one</u> station with its controllers.
- **System** users have access to one system (controller).
- □ Variable level users have access to some variables in a system.

Concepts

User categories

	In this manual a number of concepts are used.
System	A system corresponds normally to a controller.
Station	A station contains one or more controllers, whereof one is the station master.

Requirements for Accessing EXO4 Web Server

Web browser	A Web browser is used to access EXO4 Web Server. You should use Internet Explorer 7.0 or later.
Flash	Normally the pictures that are displayed are made in Flash, which means that Flash player plug-in 7.0 or later must be installed. On the main window of EXO4 Web Server, there is a link that you can use to download Adobe Flash Player.
Settings	For settings in web browsers, see the chapter Settings.

Security Settings in the Web Browser

Function well

For the EXO4 Web Server to function well, you have to make some security settings in the web browser.

Security settings

Security settings in Internet Explorer is made in the following way:

- □ Select the menu command Tools Internet Options in Internet Explorer and select the Security tab.
- □ Select the zone for which you want to check and maybe change security settings. The zone depends on from where you are to access the EXO4 Web Server. Note that the export function in the historical window requires that the zone is Internet.
- Click on the button **Custom level...**



Blocking of pop-up windows must be disabled

Disable

One important function that can be activated is blocking of pop-up windows. Inactivate the function **Use Pop-up Blocker**.



The web pages split into different windows

Disable

Make sure that the setting **Navigate windows and frames across different domains** is disabled in the web browser that will surf to the EXO4 Web Server. Otherwise, the web pages may be split into different windows.

Security Sett	tings - Trusted Sites Zone	×
 Settings 		_
	unching programs and files in an IFRAME) Disable) Enable) Prompt avigate windows and frames across different domains) Disable) Enable) Prompt pen files based on content, not file extension) Disable) Enable dmit non-encrypted form data) Disable Enable	
_ 0	Prompt	
*Takes effe	ect after you restart Internet Explorer	
Reset custom	n settings	
<u>R</u> eset to:	Medium (default)	
	OK Cancel	

Export Function in the Historical Chart window

Allow For the export function in the historical chart window to function, you have to allow automatic file download on the computer.

Enable This is done in the security settings for downloads by enabling Automatic prompting for file downloads.

Security Settings - Internet Zone
Settings
O Prompt
Downloads
Automatic prompting for file downloads
Disable
Enable
🛃 File download
🔵 Disable
 Enable
🛃 Font download
🔘 Disable
💽 Enable
O Prompt
Enable .NET Framework setup
A Microsoft VM
*Takes effect after you restart Internet Explorer
Reset custom settings
Reset to: Medium-high (default)
OK Cancel

Updated measured values are not displayed

Shut off

To ensure that measured values and pictures are not displayed in the web browser, you should shut off the cache storing of the web browser.

- □ Select the menu command Tools Internet Options in Internet Explorer.
- **O** on the **General** tab, click on the button **Settings** in **Browsing history**.
- □ Select Automatically.

Internet Options	
General Security Privacy Content Connections Programs Advance	d
To create home page tabs, type each address on its own line.	
http://ruby/default.aspx	Temporary Internet Files and History Settings
	Temporary Internet Files
Use <u>c</u> urrent Use de <u>f</u> ault Use <u>b</u> lank	Internet Explorer stores copies of webpages, images, and media for faster viewing later.
Browsing history	Check for newer versions of stored pages:
Delete temporary files, history, cookies, saved passwords,	Every time I visit the webpage
and web form information.	O Every time I start Internet Explorer
Delete browsing history on exit	<u>Automatically</u>
Delete Settings	<u>N</u> ever <u>Disk space to use (8-1024MB)</u> (Recommended: 50-250MB)
Change search defaults. Settings	Current location:
Tabs	C:\Documents and Settings\ann.REGNET\Local Settings\Temporary Internet Files\
Change how webpages are displayed in Settings tabs.	Move folder View objects View files
Appearance	
Colors Languages Fonts Accessibility	History Specify how many days Internet Explorer should save the list of websites you have visited.
OK Cancel Apply	Days to keep pages in history:
	OK Cancel

Surf to EXO4 Web Server

Login page

You may be able to surf to the login page of EXO4 Web Server in the following ways:

- □ The integrator may have created a shortcut on the desktop.
- □ You can enter the IP address given by the integrator in the address field of the web browser.
- □ The EXO4 Web Server may be incorporated with the web site of your company with, for example, a button or a hyperlink, which you can use to open the login page.

Logging in

EXO4 Web Server 2010 Edition 3 - Microsoft Int		
🕞 🕞 🔻 🚳 http://192.168.149.53/Develop/EXO4web/	fs.asp 💌 🗃 🐓 🎽	K Koogle
<u>File Edit View Favorites Tools Help</u>	× 🍖 -	
× Google	Search 🔹 🖓 Search 🔹	🌙 Sign In 🔌 🕇
🚖 Favorites 🛛 🚕 🥩 Skåne Blocket 🚻 Startsidan - hd 🧜	🥖 Suggested Sites 🔹 🔊 Get More Add-ons 🔹	
S EXO4 Web Server 2010 Edition 3	â •	🛯 🛸 🚍 🖶 👻 Page - Safety - Tgols - 🔞 - 🍾
<i>≈REGIN</i> TH	E CHALLENGER IN BUILDING AUTOMATION	
Licenced to MAGNUS		
Login		
User Password	EXO4 Web Server 2010	Edition 3
Language English V Cogin E		
Change password Only (a-6,A-Ö,0-9)		a constant
Enter new password	EXO4 Web Server gives access to the automation system	b
Confirm new password	from any Internet-connected computer with a web browser.	
Change		5.1-1-30
< · · · · · · · · · · · · · · · · · · ·		
		😜 Internet 🦓 🕶 🍕 100% 🔹

User and password Logging in is done using **User** and **Password** so that the information shown about the EXO system is filtered depending on the user's access level.

ö, A-Ö) and digits. It can contain a maximum of 10 characters.

Password

i)

User names and passwords are case-sensitive, which means that they should always be entered exactly as they were registered.

In EXO4 Web Server 2010 edition 1 and later, the password may only contain characters (a-

Three tries

A user has three tries when logging in. If the wrong login name and/or password are entered three times in a row, the attempt is interrupted and the user gets an error message. Then a new attempt to log in can only be done after 20 minutes or after restarting the web browser.

Language	In the Language list, the available installed languages are shown. The chosen language is stored in a so-called cookie on the user's computer, and at the next login, the chosen language will automatically be selected.	
Change password	The user can change his password. Enter the user name and the current password. Then enter the new password and confirm it in the corresponding fields. Enter the user name and the new password to log in.	
Main window opens	When a log-in has been accepted, the main window for the logged-in user is opened.	

Chapter 4 Main Window

Select

The first window that opens after logging in is the main window of EXO4 Web Server where you can select the stations and systems that are available for the logged-in user.

Functions

In the toolbar, there are links to the functions available for the user. If a specific station or system is selected, the functions available for that station or system are displayed.





The function key F11 can be used to make the EXO4 Web Server run in full screen mode in the web browser. There are also buttons in the toolbar for this function. See the section *Toolbar* below.

Left part

The left part of the window shows Stations, System and Message.

- □ Stations and System show the stations and systems that are available for the logged in user.
- □ Message shows the logged-in user and any system message that the system administrator has configured. This can e.g. be a message concerning run-time disturbances or such things.

Toolbar

Buttons

The toolbar contains several "buttons". The availability of these buttons depends on the user's access level and the selections that have been made in the left part of the main window. They are grayed if they are unavailable.

Descriptions



Alarm shows the current status of the selected system.



Descriptions of the toolbar buttons:

Status shows the connection status of the station.



Value table opens a table with values when the system has established contact with the controller. This button is available only if display of value table has been configured for the selected system.



Alarm status opens a window for handling of the system's alarms.



Alarm panel opens a panel that shows the 10 latest active alarms, i.e. alarms that do not have the status normal.



Historical Chart shows historical curves for selected signals.



Reports opens a simple report generator where you can create reports.



Read log now updates the EXO4 database with logs from the selected controller (system).



Real time trend displays real-time values in a chart.



Time Channels shows the status of the time channels, both local and central ones.



Document displays attached documentation of the selected system, if any.



Print prints the process picture.



Configuration opens the configuration part of EXO4 Web Server. This button is only available for users with the access levels *System installer* and *Administration group*.



Update updates (refreshes) the web page.



Used to run full screen.



Used to run normal screen.



Log out logs out the current user.

System Process Pictures

Select system

After selecting Station and System, the process picture and the functions that are available for the selected system are displayed. The station's master controller is always the one that is displayed first in the list with systems, and is shown automatically when the station has been selected. This picture is normally an overview picture.

Process picture

EXO4 Web Server can handle process pictures of different kinds: static pictures in .JPG or .GIF format, as well as dynamic pictures created in Flash (.SWF files). Below is an example of a process picture created in Flash.



Static picture When a static picture (.JPG or .GIF) is used, all variables that are registered for the system are displayed in a value table.

Dynamic picture When a dynamic process picture created in Flash is used, only changeable values are displayed in a value table. If the user has permission to change values of variables, e.g. setpoints, it can be done in the table.

 Value table
 The Value table is opened with the button
 when a system is selected in the main window.

🖉 ValueGrid - Microsoft Internet Explorer provid	led by Regin version 1.0	
http://192.168.149.53/Develop/Exo4web/ASPNET/valueg	rid.aspx?Module=Library1	
Update		^
Description	Value	Change
ComputerSignals.OutdoorLightsTimeChannel.state	1	
ComputerSignals.IndoorLightsTimeChannel.state	1	
Library1.QSystem.Sec	44	
Library1.QSystem.Hour	15	Change
Outdoor temperature	°C	
Outdoor temperature	°C	1
😜 Interi	net 🛛 🖓 🕶	🔍 100% 🔻 🛒

Changeable values A variable that can be changed by the user have a **Change** button. Change the value and click on the button.

Flash Pictures

?

Click areas and menus Normally, process pictures made in Flash have click areas and a menu.



Menu

Above the process picture, there is a menu. When an item in the menu is clicked, a submenu may open.

Setpoints	Runtime meters	Deviation alarm:	Man/Auto	Supply contro
	P1A			
	P1B			

Click area

In the above process picture, there are also click areas, e.g. the one at P1B. When you click on a click area, a window is opened above the main window. In this case, the below window.

P1A/B Pumps	
Off	
P1A	
P1B	
Auto	
	r

Regio System Pictures

Exam	ples

Below are examples of Regio system pictures:

Overview	+ Actual/Setpoint	💈 Input/C	Dutput 🛃 Settings 🕹	Manual/Auto
oom Controller				
Controller state:	Oc	cupied		
Room temperatur	e: °C			
Room setpoint:	24,	0 °C		
Setpoint adjustme	ent: 0,0	°C		Interfecto
Open window:	No		Altria II	
Output heating:	0 %	6		
Output cooling:	0 9	6		
Fan speed:	Of			
Sum alarm status	: Ala	rmed	The second s	and a second
				and the second
Overvie	w 🕂 Actual/Se	tpoint 💈	Input/Output 🛛 🚮 Settings	👃 Manual/Auto
General Change-over temperature:			Actual	
		°C	Controller state:	Occupied
Presence:		No	Room temperature:	°C
Open win		No	Room setpoint:	24,0 °C
Condense		No	Setpoint adjustment:	0,0 °C
Forced ve	ntilation:	Off	Output heating:	0 %
			Output cooling:	0 %
			Fan speed:	Off
			Setpoint	
			Setpoint frostprotection:	<u>10.0 °C</u>
			Deadband Stand-by:	3.0 °C
			Setpoint heating:	25,0 °C
			Setpoint heating Unoccupie	
			Setpoint cooling:	25.0 °C
		Setpoint cooling Unoccupier	d: <u>31,0 °C</u>	

Alarm Classes

Alarm points	Each alarm point belongs to a so-called alarm class, class A, B or C.		
Degree of importance	The class is primarily used to indicate the alarm's degree of importance. The alarm class A is the most important, while class C is the least important.		
Differences	There are also functional differences:		
	□ The alarm classes A and B require that the alarm has returned <u>and</u> is acknowledged to return to the status Normal again. The alarm class C does not require acknowledgement, but can be acknowledged all the same.		
	□ If Nimbus Alarm Server is used, the default is that SMS messages or e-mails are sent when alarms of the alarm class A are triggered. Nimbus Alarm Server can also be used		

for acknowledgements with re-calls.

Alarm Status

Alarm status

Alarm status denotes the current status of the alarm. There are five different statuses, which in the Alarm Panel are displayed with the following symbols:

	Normal	The initial state of the alarm point, i.e. no alarm is activated.
1	Alarmed	The status of the alarm point when the alarm has been triggered, i.e. an alarm is activated.
	Returned	Class A and B alarms that have returned (no active alarm), but have not been acknowledged.
✓	Acknowledged	An alarm point of class A or B that is still switched- on, but has been acknowledged.
×	Blocked	A temporarily blocked alarm point. Switch-ons and switch-offs are not registered.

Alarm Events

Alarm event

An alarm event is a change of an alarm point's status. The most basic alarm events are switch-on and switch-off:

□ Switch-on: An alarm is triggered, i.e. the alarm condition is switched on (becomes true), and the status of the alarm point becomes Alarmed.



□ Switch-off: An alarm is returned, i.e. the alarm condition is switched off (becomes false). When an alarm is switched off, the class of the alarm point determines what will happen:

- Class C alarm points get the status **Normal** as do acknowledged alarms of the classes A and B.
- Unacknowledged alarms of class A or B get the status **Returned**.



Alarm maneuvers There are three types of alarm maneuvers: acknowledgement, blocking and unblocking. All three maneuvers are performed by the user, either on the controller's display, in EXO4 or in EXO4 Web Server. These three different maneuver types are also considered to be alarm events.

- **Acknowledgement**: When an alarm is acknowledged, the following will happen:
 - Not yet returned alarms get the status Acknowledged.
 - Returned alarms get the status Normal.



- □ **Blocking**: When an alarm is blocked, it will get the status **Blocked**. Switch-ons, switch-offs and acknowledgements will be ignored. The only alarm event that will be registered is unblocking.
- □ **Unblocking**: When a blocked alarm is unblocked it will get the status **Normal**. If the alarm is still switched on, it will get the status **Alarmed** (after the configured alarm delay time).



Alarm Panel

Open

The *Alarm panel* is opened with the button when a system is selected in the main window.

🖉 Alarm panel Microso 🔳 🗖 🗙
http://192.168.149.53/Develop/Exo4we
C http://192.100.149.55/Develop/Ex04we
SEXO4 Web Server
No of alarms
A B C
Not acknowleged 11 122 13
Active 5 42 17
Latest alarms
Alarm time Class Status
2011-04-27 12:21:10 A 🔢
Munkagårdskolan, HUS10-FF1 Dri
2011-04-27 10:50:32 A 🔳
Munkagårdskolan, B1KC Hus10-FD
2011-04-27 07:00:10 B 🔳
Munkagårdskolan, A1KB TA6-VVX
2011-04-27 01:26:16 A
Munkagårdskolan, HUS10-FF8 Dri
2011-04-26 20:26:19 A
Munkagårdskolan, HUS10-FF2 Dri
2011-04-25 07:40:42 A
Munkagårdskolan, B1KC Hus10-FF
<u>AB Regin</u>
😌 Internet 🛛 🖓 🔹 🍕 100% 🔹 💡

No of alarms The number of alarms in the alarm panel shows always the total number of alarms in the system in EXO4 Web Server 2010 edition 2 and later. Earlier, only alarms from the controllers that the user had access to were counted.
 Active alarms The panel shows also the 10 latest active alarms with alarm status symbols for the stations and systems that the user has access to. Active alarms are alarm points that do not have the status *Normal*, The alarm status is displayed with symbols, which are described in the above section *Alarm Status*.
 Alarm status window When an alarm text in the alarm panel is clicked, the alarm status window opens.

Buttons

The following buttons are available in the alarm panel:

Update is used to get the latest alarms.

49
J

Setup opens a window where the properties of the alarm panel can be set.

🗘 Settings - Microso	ft Int 🔳 🗖 🔀
🔊 http://192.168.149.50	3/Develop/Exo4we 🔯
Show alarm clas	55
Class A	
Class B	
Class C	
Show alarm stat	tus
Normal	
Blocked	
Acknowleged	
Returned	
Alarm	
Update	10 seconds 💌
Save Close	
😜 Internet 🛛 🦂	🔹 🔍 100% 🔹 💡

Alarm Status Window

EXO4 Database

The *Alarm status window* shows the current information from the EXO4 alarm database for every alarm point in the selected system, alternatively for all systems the user has access to.

Open

The window is opened with the button **Alarm status** in the main window **or** by clicking on an alarm in the alarm panel.

≈REG	1/1/	Sta	tions/Sy	stem		¥ 4
	<i></i>	Munkagårdskolan			🔽 ok 🚺 🚺 🔛 🗄	· · ·
		Page: 1				
Show alarm o	lass				Alarm	
All classes		Alarm time	<u>Class</u>	† <u>Status</u>	Alarm text	No.
Class A	V	0 2011-04-27 12:21:10	A	Alarm	Munkagårdskolan, HUS10-FF1 Driftfel	4
Class B		0 2011-04-27 10:50:32	A	Returned	Munkagårdskolan, B1KC Hus10-FD1 Larm Foderdator	13
Class C		2011-04-27 07:00:10	в	Returned	Munkagårdskolan, A1KB TA6-VVX L.Verkngr.	21
Show alarm s	tatus	0 2011-04-27 01:26:16	A	Returned	Munkagårdskolan, HUS10-FF8 Driftfel	15
All alarm status Normal		0 2011-04-26 20:26:19	A	Returned	Munkagårdskolan, HUS10-FF2 Driftfel	10
Blocked		0 2011-04-25 07:40:42	A	Acknowleged	Munkagårdskolan, B1KC Hus10-FF6 G2 Driftfel	1
Acknowleged						

Filter and sort

Received alarms can be selected based on class and status, and be sorted on alarm time, class, status, alarm text or number by clicking on the desired title.

SelectAn alarm is selected by checking the radio button in front of the alarm in the list.Alarm maneuversTo be able to acknowledge, block and unblock alarms, the user must have the access least the access leas

aneuvers To be able to acknowledge, block and unblock alarms, the user must have the access level Operator group or higher.

Buttons

The following buttons are displayed for a selected alarm when a connection to the physical controller exists:

J	

Setup opens a window with more information about a selected alarm.

Ć	Information -	Microsoft Interne	et Exp	lo 💶 🕻	JX
e	http://192.168.1	49.53/Develop/EXO4	web/ala	arminfo.asp?I	
Γ					
		Setup			
	Alarm text:	Munkagårdskolan Driftfel	n, HUS	10-FF1	
	Class:	A			
	Category:	Standard			
		2011-04-27 12:2:	1:10		
		Alarm			
	No of alarms:	4		Reset	
	Description				
				~	
				~	
	Information				
				~	
	L			<u> </u>	
			ſ	Update	
	😜 Interne	t 🗸	A -	🔍 100%	• ,;

The button Reset is used to set No of alarms to zero.



Alarm Events opens the window Alarm Events.



Acknowledge is used to acknowledge a selected alarm with the status alarmed or returned.



Block is used to block an alarm point.



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Unblock is used to unblock a blocked alarm point.

Update is used for getting the current alarm status.

Alarm Events

Detailed information Detailed information about alarm events, i.e. times for switch-ons, switch-offs, acknowledgements, blockings, and unblockings, is given in the Alarm Events window.

Open

Filter

Buttons

h The window is opened with the button Alarm events in the Alarm Status window Alarm events - Microsoft Internet Explorer provided by Regin version 1.0 http://192.168.149.53/Develop/EXO4web/lw.asp?signalID=A&aladate=2010-03-02.14:19:46 e) Show alarm events Show alarm events All alarm events All classes × 4 2010-03-01 1 day(s back 💿 \bigcirc All alarms ¥ All alarms : 2010-03-01 14:24:26 - 2010-03-02 14:24:26 Alarm time Alarm text Class Information Munkagårdskolan, A1AB FA3 Driftfel går ifrån. 2010-03-02 13:56:17 2010-03-02 13:56:13 Munkagårdskolan, A1AB FA3 Driftfel utlöses. в 2010-03-02 12:35:04 Munkagårdskolan, A1KB GP11-P50 Hög Avv. utlöses. 2010-03-02 12:03:05 Munkagårdskolan, A1KB Duc22 Svarar ej går ifrån. С 2010-03-02 11:55:21 Munkagårdskolan, A1KB Duc10 Svarar ej går ifrån. C 2010-03-02 11:53:29 С Munkagårdskolan, A1KB Duc22 Svarar ej utlöses. Munkagårdskolan, A1KB Duc10 Svarar ej utlöses. 2010-03-02 11:53:26 c 2010-03-02 08:02:18 в Munkagårdskolan, B1JC TA11 Driftfel går ifrån. 2010-03-02 08:02:13 Munkagårdskolan, B1JC TA11 Driftfel utlöses B 🔍 100% 😜 Internet **6** -Done

In this window, you can choose the period of time for which you want to see alarm events, either as number of days backwards, or for a specific date. You can make filtering on alarm event type, class and alarm points.

The alarm events window have the following buttons:



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Print prints the alarm events report on the default printer.

Update refreshes the window, e.g. after making new selections at the top of the window.

Chapter 6 Historical Chart

Charts and table

The window Historical Chart is used to visualize the historical data that is stored in the EXO4 database. It shows both charts and a table with values for the selected signals.

Open

in the main window. The The historical chart window is opened with the button below window will be displayed.



Two ways You can open a historical chart window in two ways: Open... The button in the toolbar is used to open a previously created chart with selected signals and chart type. Add.... The button in the toolbar is used to create a new chart by selecting signals, graph type, start date etc. You can even select to show signals in more than one chart in the same window. These options are described in the below section *Toolbar*. Example

An example of a historical chart window:



Signal names

The names of the signals in the chart and table will be the ones that were configured by the integrator. If you uncheck the checkbox **Show legend**, the names of the signal will not be displayed in the chart.

Toolbar

Buttons

At the top of the historical chart window there is a toolbar with the following buttons:



Opens a previously saved chart window with selected signals and graph type.

Open	
Select stored work:	
(Public) Test av AP 2 (Public) Magnus test2	
(Public) SJO	
	Close
Open work Delete work	Close

Since you should not be able to see files belonging to a system that you do not have access to in EXO4 Web Server 2010 Edition 3 and later, old saved files are displayed in red. These files should be resaved. The system does not overwrite the old file as it does not have the same name any more. In the list, it is not the file name that is displayed. When you have resaved the files, the red files should be removed.

Templates are saved in their systems. This means that you can only see the templates that belong to the selected system.



Saves the settings for the displayed chart window.

You can save it either as Private, i.e. belonging only to yourself, or as Public, i.e. with access for other users.

If you save the start date, the chart will open with this date, otherwise it will be today's date.

Save	
Stored work: (Public) Test av AP 2 (Public) Magnus test2 (Public) SJO	
Save startdate	🔘 Public 💿 Private
Save as:	
Save work	Close



Adds signals to the current chart window.

🗄 🐵 This system (Cent TC)	Show as	Line	~
Analog signals	Show in	Analog chart 1	
M Digital signals	Show in	Analog chart 1	1
Alarmpoints	Scale	Left	~
- 📀 All systems in station	Color		
🕀 🥎 Cent TC	Color		
🖻 🥎 Loc TC + Cent TC different HC	Resolution	High (1 hour)	1
Analog signals			
Max supply temperature			
Outdoor temperature Return temperature			
Setpoint supply temperature			
Supply temperature			
→ ▲ Alarmpoints			
🕀 🛞 Loc TC + Cent TC same HC			
🗉 🝈 Test av AS3			
All stations			

You can select the following for a signal:

- □ Show as: Select graph type. If you want to show more than one signal in bars, the signal you selected first will decide which type of bar is displayed, i.e. *Bar*, *Bar with values*, *Stacked bar* or *Stacked bar with values*.
- □ Show in: Select in which chart you want the signal to be displayed graphically (Analog chart 1 or Analog chart 2). You have the possibility to show two charts in the same view.
- □ Scale: Select if you want the scale to be displayed beside the left or the right Y-axes. The scale that is displayed is decided by the first selected signal.
- **Color:** You can select another color for the graph than the pre-selected by clicking on the color box.



Removes one or more signals from the chart.

Resolution: Select resolution, e.g. 15 minutes, 1 hour.

Click on **Add**. The Historical Chart window will be displayed with the added signal.

You can open the dialog again to add more signals to the chart.

🛃 Remove...

	Remove signals
	(Analog chart 1) A1AB GT2-TA3 Tilluft A1AB GT12-TA3 Frånluft A1AB GT1-TA3 Batteritemp (Digital chart) (Analog chart 2)
	Remove Remove all Close
🍓 Print	Prints the chart window to the default printer, just as it looks on the screen.
Export	Copies the chart to MS Excel. A download file dialog opens.
	Note! You may have to enlarge the columns in Excel to be able to see the values.
	Note also that you have to allow automatic file download for the export function in the historical chart window to function. See the chapter <i>Settings</i> .
🗈 Сору	Copies the values in the chart to the clipboard. You can then paste it into e.g. MS Word.
⇔ Size	Changes the screen resolution. You can use it if you cannot see the entire chart. When you have changed it, it will be saved in a cookie, so EXO4 Web Server will remember the size the next time you open a chart.
	Size
	Window resolution 1024x768

Close

Buttons at the top of the chart

Above Y-axes	The buttons \swarrow and \bowtie at the top of the chart's y-axis are used to show buttons for zooming and intervals. The buttons are displayed horizontally beside the y-axis.
	□ The buttons 🔎 🔎 are used to zoom in and zoom out, respectively.
	□ The buttons
	□ With the button <i>I</i> , you get a dialog where you can make settings for the y-axis.
	Settings for Y-Axis
	Max value: 30 Min value: 5
	Apply Close

Buttons below the chart

	Selection 🖲 Ruler 🔿 Interval 🗶 🔎 🌮 📢 🕨 🕪 📝 🗹 Grid 🔍 Show legend
Above the table	Above the table, there are navigation buttons for the X-axes and other selections with the following functions:
	□ If you select Ruler and click in the chart on e.g. a line or a bar (i.e. when you have a hand cursor), you will get a ruler in it, and the table values will reflect the selection. If you click on another place in the chart, the ruler will be moved. Note that the ruler will always be placed on a measured log point value, so the ruler may appear to jump to another place than the one you are actually clicking on.
	□ If you select Interval and click on two places in the chart as described for the ruler, you have marked a time period, and the table values will reflect the selection.
	□ The button deletes the selection for the ruler.
	□ The buttons 🔎 🔎 are used to zoom in and zoom out, respectively.
	□ The buttons ▲ ▲ ▶ ▶ are used to move one period or one step, backward or forward.
	 With the button , you get a dialog where you can select start date and interval for the X-axis.
	Navigation on X-Axis
	Startdate: 2010-02-28 12:00 Interval: 2 days

 $\Box \quad \text{The checkbox } \mathbf{\overrightarrow{V}} \text{ Grid is used to show and hide the grid.}$

Ok

□ The checkbox Show legend is used to show the signal names in the chart.

Cancel

Signal Table

	Signal	Resolution	Scale	Start 2011-05-11 00:00:00	Medium	Max	Min	Max Diff	End 2011-05-12 00:00:00	Unit	
V	~ - A1AB GT2-TA3 Tilluft	High (15 minutes)	Left	18,75	18,09	27,97	13,16	14,81	-	°C	
V	~ - A1AB GT12-TA3 Frånluft	Low (1 hour)	Left	23,9	22,55	25,22	20,87	4,35	-	°C	
V	~ - A1AB GT1-TA3 Batteritemp	Low (1 hour)	Right	12,65	15,87	24,89	10,61	14,29	-	°C	
~	- J AIAB GT3-TA3 Uteluft	Low (1 hour)	Left	11,32	14,7	23,99	9,86	14,13	-	°C	
~		Low (1 hour)	Left	24,37	23,13	26,45	20,11	6,34	-	°C	
~		Low (1 hour)	Left	23,26	21,89	23,26	21,14	2,11	-	°C	
V		Low (1 hour)	Left	23,3	22,04	23,3	21,16	2,14	-	°C	

Unselect The checkbox to the left of a signal is used to select whether the signal will be displayed in the chart or not.

Signal Before the signal name you can see which color and type the signal has in the chart.

Settings If you click on a signal name or the button is to the right of a signal, a dialog for the settings of the signal opens.

A1AB GT11-P	5 RAD Retur	
Show as	Line	*
Show in	Analog chart 1	*
Scale	Left	*
Color	Linewidth 1 px	*
Resolution	High (15 minutes)	*
Compare	Save Clos	e

Line width

In this dialog, you can besides setting the same properties as in the *Add signals* dialog, also select the line width (1, 2 or 3 pixels) for all line graphs except step-line.

Compare

The button **Compare** opens a dialog where you can select to view the same signal with different times in the same chart. See the next section.

View the same signal with different times

Compare

Dialog

You can view the same signal at different times in the same chart. You can for instance compare the values of one signal today with the same signal's values one day earlier, up to ten years. Then you can also scroll back in time.

When you click on a signal name or the button *s* to the right of a signal in the signal table, a dialog for the settings opens. Click on the button **Compare**.

A1AB GT11-P5	RAD Retur				
Show as	Line		~		
Show in	Analog chart 1		¥		
Scale	Left		~		
Color	Linewidt	h 1 px	~		
Resolution	High (15 minutes)		*		
Compare	Compare A1AB				
	Time offset	1 day ea	rlier (2	2011-05-16 00	:00:00) 💌
		Add			Close

Time offset In the Compare dialog, you can state which time you want to compare the same signal with (from 1 day up to 10 years earlier).



Chapter 7 Reports

Simple reports

Open

	Report type	Rapport time	
	Interval: week	Choose start date: 2010-02-24 🗸	
	Graph: Line Min:	or enter date:	
	Content: Graph+Table V Auto: V	Signal type	
	Grid:	Signal type: All	
	Report columns		
	Sum Max 🖌 Min 🗹	Average 🔽 No. of decimals: 2 💌	
	Choose signal(s)	Selected signals	
	VP-SV21 ventil VV-SV21 ventil VP-GT11 Framl. VPI-GT11 Frapov. Utetemperatur VP-GT11 Börvärde Framl. VV-GT11 Börvärde Tappvv. AMC_2.AAM_K61_SV_1_Output LB02 GT41 Tilluft Efter vvx LB02 GT21 Tilluft Börvarde LB02 GT21 Tilluft		
	Done	😝 Internet	🕼 • 🔍 100% • 💥
Settings	 The following settings can be made: Interval: Select the report perio Graph: Select the graph type - I Content: Select the contents of 	• •	Graph + Table.
	Grid: Select if the grid is to be v		F
	Scale: Select the scaling altern maximum values.	native for the Y-axes - Auto, or o	enter minimum and
	Report time: Select the start dat	te of the report or enter a date.	
	Gignal type: Select the signal ty	pes that are to be visible in the signa	ll list.
	Report columns: Select which Min, Average.	n report columns that are to be disp	played - Sum, Max,
	□ No. of decimals: Select number	of decimals for the signal values.	
	Choose signals: Select signal(s)	to display.	
Display	Click first on Setup and then on Sho	w to display the report.	
Scroll	If several signals have been selected a at the top of		orts with the buttons

You can create simple reports in EXO4 Web Server.

in the toolbar of the main window.

Setup Show

ы

Reports - Microsoft Internet Explorer provided by Regin version 1.0

Reports

Click on the button

tp://**192.168.149.53**/Dev

≈REGIN



Chapter 8 Real-time Trend

Testing and adjustment For testing and adjustment purposes, you may have the possibility to log real-time values.

Analog and digital

Both analog and digital values can be logged. Digital signals are shown with a \mathbf{D} in the signal list.

Open

Click on the button in the toolbar of the main window to open the real-time trend window.



	1.3584/ 1.3585/ 1.35870/ 1.35871/ 1.35873/ 1.35873/ 1.35874/ Done
Settings	The following settings can be made:
	□ Choose signal(s): Select a signal that is to be displayed in the real-time trend and click on the button . A maximum of 20 signals can be selected.
	□ Interval: Select the interval that is to be displayed – from 1 minute to 12 hours.
	□ Period: Select the logging period – from 10 seconds to 30 minutes.
	Type: Select the graph type – Line or Bar.
	□ Y-Axis scale: Select the scale alternative for the Y-axes - Auto, or enter minimum and maximum values.
	Grid: Select if the grid should be visible in the chart.
Start and stop	Click on the button Start . The measurement values are being collected with the periodicity that was selected, and are shown in the chart. Click on Stop to stop the collection.
	To save logged values, click on Save . A file download dialog opens in which you can select where to save the text file (.csv). It can then be opened with e.g. Microsoft Excel for further handling of the saved measured values.
Update	The button Update is used to refresh the chart.

Chapter 9 Time Channels

lighting.

Time control

Time channel	A time channel consists of a number of switch-on/off times for the various day and holidays.	ys of the week
(į)	In order to change anything in the time channel windows, the user must at lead the access level operator group.	ist have
Open	The time channel handling is reached by clicking on the button in the main window. The overview window for time channels opens.	e toolbar of the
	Time Channels (Biblan, Loc TC + Cent TC different HC) - Microsoft Internet Explorer provided by Regin version 1.0 http://192.168.149.53/Develop/Exo4web/timep2.asp	
	Local Time Channels	
	Time Channel Current State Man/Auto Mode Show Helfart Automatically Show Halvfart Automatically Show Calendar	
	Update	
	Central Time Channels	
	Time Channel Current State Man/Auto Mode Show Calendar Library Basement lights Title Automatically Show Calendar Indoor Lights TimeChannel Title Automatically Show Calendar OutdoorLights Manually - Från Show Calendar NewTimeChannel Automatically Show Calendar	
	Update	
	Done 😜 Internet 🌾	· ● € 100% ·
First window	The first window that opens shows the time channels that are configured for the current on/off state and man/auto mode for each time channel are displayed. buttons that open the holiday calendars. The button Show opens a new we particular time channel. See the below section <i>Time Channel Window</i> .	There are also indow for that
į	The state and mode information is not dynamically updated. Press the button to get updated information.	Update

Time channels can be used for time control of switch-ons/offs of e.g. pumps, fans and

Two types There are two types of time channels:
Local time channels are time channels that are configured in the controllers.
Central time channels are time channels that are configured in EXO4.
Differences The windows for local and central time channels look just the same. There are however some differences that will be described in the following sections.

Time Channel Window

Open window

In a time channel window you can view and, if desired, change the times and man/auto mode of a time channel. Click on the button **Show** to the right of the time channel in the overview window to open a time channel window.



At the top	At the top of the window you can see the name of the time channel, and its current on/off state and man/auto mode. The man/auto mode for the time channel can be changed.
Date and time	The current date and time is also displayed. For a local time channel, it is the controller's time. For a central time channel, it is the computer's time.
Two tabs	In the middle of the window, there are two tabs:
	• Overview shows the time schedule for each day.
	□ Schedule shows the times for each weekday and also for holidays. These settings can be changed. The Calendar tab will display the time periods according to the settings on the Schedule tab and in the Calendar.
Buttons	At the bottom of the window there are three buttons:
	□ Calendar opens the holiday calendar.
	D And investor of the descent film descent

- Apply is used to confirm a change of the time channel.
- \Box Undo is used to undo a change of the time channel.

Overview Tab

Current day

On the overview tab, the current day is marked with an arrow.



You can change the month that is displayed in the overview with the buttons Scroll between dates above the dates. The scroll bar to the right is used to show other days within the selected month. Local time channels For local time channels, you cannot change the times for an individual day on the overview tab. **Central time channels** For central time channels, you can change the time settings for a special day on the overview tab. Click on the desired day and select Use special time settings for this day. Edit time periods... Enable day plan Disable day plan Use special time settings for this day Use the standard schedule for this day Delete time period

Schedule Tab

Copy time periods...

Period settings The Schedule tab displays the time period settings for each day of the week and for holidays. Up to four periods can be configured for each day.

Central time channels

For central time channels, you may be able to specify times for both Holidays and Service days.



Change times You can change the times by dragging the ends of the bars with the mouse. New periods can be created by "painting" a bar with the mouse. A time period is deleted by clicking on it and selecting **Delete** in the pop-up menu. **Option buttons** For local time channels, you can only decide when the time channel should be On or Off. For central time channels, there may be option buttons below the schedule which you can use to select which type of day plan you want to create, e.g. On, Semi On or Semi Off. **Accuracy 1 minute** It is possible to use start and stop times with the accuracy 1 minute (instead of the default 5 minutes) in the dialog Edit time periods in EXO4 Web Server 2010 edition 2 and later. Mondays Edit time periods... Tuesdays Create a new time period Wednesdays

Copy times

In EXO4 Web Server 2010 edition 2 and later, it is also possible to copy start and stop times from one day plan to others. This is done in the dialog *Copy time periods*, which is opened by clicking on a day plan and selecting this command in the menu. In the dialog, a list (with check boxes) of all day plans that you can copy to the selected day plan is shown. Both week days and special days can be copied.

Copy time periods...

Mondays	
Tuesdays	
Wednesdays	
Thursdays	=
Fridays	=
✓ Saturdays	
 Sundays 	
Holidays	
	_
	-

Thursdays

Select day plan

In EXO4 Web Server 2010 edition 2 and later you can select a day plan for a weekday in the dialog *Select day plans*, which is opened by pressing the Shift key and clicking on the icon in the upper left corner.

Select day plans fi schedule.	or different days in the standard
Mondays	My StartStop 1 🔹
Tuesdays	My StartStop 1
Wednesdays	My StartStop 1
Thursdays	My StartStop 1
Fridays	My StartStop 1
Saturdays	StartStopPlan02
Sundays	StartStopPlan02
Holidays	StartStopPlan04
	OK Cancel

Calendar

Local time channel	For local time channels, the calendar for holidays is common to all controllers in the project.
Central time channel	For central time channels, you can have a different calendar for each signal, and both Holidays and Service days.
Open	The calendar is opened by clicking on the button Calendar, which you can find both in the window that shows all time channels, and in the window for each time channel.
Select day	To select a day as holiday, just click on it. To remove a selected holiday, click on it again. For central time channels, which have two types of "holidays" (Holidays and Service days), select which type of "holiday" you want to create at the bottom of the window before clicking on the day.

Example

The picture below shows the calendar for local time channels.

Favorites Skikline Blocket Skartsidan - hd Suggested Sites + Get More Add-ons + Ihttp://192.168.149.53/Develop/Exotweb/ASDnet/Ti Image: Calendar, Library2 March April January February March April Su Mo Tu We Th Fr Sa Su Mo Tu We Th	Favo	-																			~ 4	Searc	:h + -	• Mo	ore »		Sig	n In
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Part of a day

EXO4 Web Server 2010 edition 2 and later has support for holidays that only cover a part of a day. On the calendar tab, this type of holidays is displayed in orange. The times can be inspected and changed in the dialog *Edit times*, which is opened by pressing the Shift key and clicking on a day on the calendar tab.

Edit times		×
Edit times f	or '2008-10-02':	
From:	05:00	
To:	05:55	
	OK Cancel	Sa
1 2	3 4 5 6 1 2 3	4 5 6

Chapter 10 Document

Function texts

Documents about the system, e.g. function texts or other types of documents that are stored



on EXO4 Web Server, is opened with the button in the main window.

Document types The document types that can be handled are limited by the client's web browser's possibility to show documents via so-called plug-ins. Documents of common formats, like e.g. .DOC and .PDF can in most cases be handled.

Chapter 11 User Administration

Register users	A user with the access level System Installer or Administration Group has permission to add, remove and edit existing users in EXO4 Web Server.
Access levels	The access levels in EXO4 Web Server are described in the section <i>Access Levels</i> later in this chapter.

User Configuration

Administration group

An administration group user can add, remove, and update users who are registered in the same administration group.



Open

The button is a link to the User Configuration page, which is an overview page with information about the users in the administration group user's stations.

Ć	User - I	hicrosoft Inte	ernet E	xplorer provi	ided by Regin versio	n 1.0			×
e) http://10	0.100.50.180/EX	(OWeb/E	XO4web/Admin/	users.asp			6	2
									^
	≈RI	GIN		THE CHALLENG	ER IN BUILDING AUTOM	IATION			
c	Configur	ation							
	User								
	New u	iser							Ш
		Name	Login	Telephone	Description	Access level	Authorize level		
	Show	AdminUser1	adm1	01-234567	Demo Admin user	ADMGroup1	Administrator		
	Show	OpUser1	op1	02-3456789	Demo Operator user	OPGroup1	Operator		~
<								>	
Dor	ne				😜 Internet		- 🏤 🔹 🔍 100%	•	:

Register a new user

New user

Click on the button New user. The page for adding users opens.

≈REGIN	THE CHALLENGER IN BUILDING AUTOMATION	
Configuration		
New user		
Access level		
🔘 Admin. group	-	
O Station	Library1, Library1 💌	
Osystems	· ¥	
Ovariables in system	v	
Name	John Smith	
Login	john	
Password	••••	
Telephone	+464182345	
Description	John at Regin	
Save Cancel Cle	ar	

Access level	Select the access level for the user. The access level for a user controls the access to stations and systems. See the section <i>Access Levels</i> below.
	The access levels Station, Systems and Variables in system must be defined by a user with the access level System installer to be selectable.

Login and password Enter a Login ID and a Password. Name, Telephone and Description are optional.

Buttons Click on the button Save to register the user, or Cancel to return to the main menu. Clear deletes all entered texts and selections.

Editing and deleting users

Show

To edit or remove a user, click on the button **Show** in front of the name.

🖉 Update user - Micros	oft Internet Explorer provided by Regin	version	
🔊 http://192.168.149.53/D	evelop/EXO4web/Admin/ShowUser.asp		
≈REGIN	THE CHALLENGER IN BUILDING AUTOMATION	ls.	^
Configuration			
Update user			
Name	Hanell		
Login	hanell		
Password	•••••		
Telephone	-]	
Description	-		
Authorize level		_	
O System installer	Magnus		
O Admin. group	🗸		
Operator group	🗸		
• Station	Library1, Library1 🗸 🗸		
O Module	🗸		
Ovariables in system	🗸		
Save Delete C	ancel		
			~
<			>
	😜 Internet	🐴 🔹 🔍 100%	•:

Edit	To edit the information about the user, enter the changes and click on Save . In EXO4 Web Server 2010 edition 2, it is also possible to change the log-in name of a user.
Delete	To remove the user's access to EXO4 Web Server. Click first on the button Delete and then Save .

Access Levels

System InstallerHighestSystem Installer is the highest access level in EXO4 Web Server and has full administration
permissions.EXO systemOnly a System Installer can add, remove, or change information about the EXO system.Access permissionsOnly a System Installer can hand out access permissions to the EXO system for different
user categories. For each variable, the System Installer states which access permissions users
of the different categories will have.All usersOnly a System Installer can add, remove, or change the information about all users. (Limited
permissions are available for the access level Administration group.)

Administration Group and Operator Group

More than one station The access levels *Administration group* and *Operator group* are primarily intended for one or more users that should have access to more than one station, for example a company that owns a plant with several stations, or a caretaker monitoring the operation in buildings in an area with several stations.

Administration group A user on the Administration group access level has the permission to add, remove, and update users in the part of the EXO system that the administrator has access to. Which permissions (reading, reading and writing, or no access at all) the different access levels should have for a certain variable is always determined by a System Installer.

Station

- **One station** A user on the *Station* access level has access to the variables in a certain station, which a System Installer has decided.
- Station usersUsers with Station permissions can be added, removed, and changed by a System Installer
and by an Administration group user registered for the station.

System (Module)

- **One system** A user on the System access level has access to the variables in a certain system (controller), which a System Installer has decided.
- System users Users with System permissions can be added, removed, and changed by a System Installer and by an Administration group user registered for the system.

Variable

- **Some variables** A user on the *Variable* access level has access to the variables in a certain system, which a System Installer has decided. This access level can be used when you, for example, wish to give certain users permission to some of the variables registered for a system, and give other users permission to other variables in the same system. The access level can also be used when you want different categories of users to see different process images.
- Variable usersUsers with Variable permissions can be added, removed, and changed by a System Installer
and by an Administration group user registered for the system.



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