

# Super WISE® Web Page Manual

## Super WISE, program version 1.25





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# 1. General

Super WISE has a built-in web server that enables you to monitor, enter and change the settings on the various controllers in the WISE system. Access to this server requires a web browser with support for SUN Java and that J2SE 5.0 Runtime Environment (or a later version) is installed in the computer you will be using. You can download the most recent version of the SUN Java software from www.java.com.

## 2. Connections

The computer and Super WISE can be connected to one another in two different ways: by means of a crossover cable or with a network hub (HUB, switch or router).

The determining factor as to whether or not a network hub should be used could be the number units that are to be connected together, for instance. Two units can be connected together without any network hub.

One example of two units connected together is when a computer and Super WISE are connected together. Two or more units can be connected together with a network hub.

The Network connection socket of the Super WISE is located on the control unit in the Super WISE cubicle and is shown encircled in Figure 1.

## 2.1 Connection between two units

Connection of one or more Super WISE units to a computer is done with a crosslinked CAT5 cable with RJ45 plugs, see figure 2. Connecting through a network and hubs, switches or routers should be done with a straight CAT5 cable with RJ45 plugs, see figure 3. The cable should be of twisted-pair type, and can be shielded or unshielded.

## 2.2 Connection between two or more units

A straight (not crosslinked) CAT5 cable with RJ45 plugs, see Figure 3, should be used for the connection between Super WISE and one GOLD air handling unit and computer/network. The cable should be of twisted-pair type, and can be shielded or unshielded.



Figure 1. Ethernet connection, Super WISE .



Figure 2. Connection between two units, crossover cable.



Figure 3. Connection between two or more units, network hub.



## 3. Settings in directly connected PC

Sun Java must be installed and activated. Activation is done differently depending on operating system and web browser. Contact the local IT-support for help. The computer must also be configured with appropriate netmask and IP number, see figure 4 for settings to Super WISE with default address.

If Super WISE has been installed on a network with DHCP-server the configuration is done in direct connected PC as shown in figure 5.

Nätmask:	255 .	0	•	0	8	0	
IP-adress:	XXX.X	(X)	(.)	(X)	х. х	xx	
<ul> <li>Anvand Toijande IP-adress:</li> <li>IP-adress:</li> </ul>	XXX.X	(X)	x.)	(X)	х. х	xx	
Använd följande IP-adress:		5.00 9					

Figur 4. Settings in direct connected PC.

Egenskaper för Internet Protocol Version 4 (TCP/IPv4) ? × Allmänt Alternativ konfiguration IP-inställningar kan tilldelas automatiskt om nätverket stöder denna funktion. Annars måste du fråga nätverksadministratören om rätt IP-inställningar. Erhåll en IP-adress automatiskt Använd följande IP-adress: IP-adress: Nätmask: Standard-gateway: Erhåll adress till DNS-servern automatiskt Använd följande DNS-serveradresser: Önskad DNS-server: Alternativ DNS-server: Verifiera inställningar vid avslut Avancerat... OK Avbryt

Figur 5. Settings in PC connected to network with DHCP-server.

# 3. Settings of the Super WISE

On delivery, the control unit has a static IP-address set to 10.200.1.2. To assign the control unit another static address, activate the DHCP, change the Subnet mask or do the following to change the Gateway:

Use the Golden Gate Config\*) application which can be downloaded from www.swegon.com. Connect the Super WISE to the network. Start Golden Gate Config. Select Golden Gate Ethernet and press OK.

Golden Gate Config now searches through the network to find all the units that are supported by Golden Gate Config. Super WISE with IP. number 10.200.1.2 can be found on line two in the list in figure 7.

Double click on the row which is showing the Super WISE which should be configured, a new window will open where the configuration can be done.

\*) NOTE: Golden Gate Config is only available in English.

the state of the second se	
Available device types	ОК
Golden Gate Ethernet	
C Golden Gate Serial EIA485	Cancel
C Golden Gate Lonworks	

Figure 6. Selection in Golden Gate Config.

P address:	10		200		1		2	1	DHCP		-	_
			200	•	÷		-	0		"	1	
Subnet mask:	255	•	0	•	0		0	2ª	0.0	ff		
)efault gateway:	0	•	0		0	•	0	~				
rimary DNS:	0		0	ĸ	0		0					
econdary DNS:	0	<u>.</u>	0	•	0		0	]	_	_		
lostname:	Sweg	on			_	_	_		5	)		
'assword:								-	Cha	nge pas:	word	
ew password:		-	_	-	_	_	_	1				
				-				ſ			_	

- If the DHCP is set to ON, the Super WISE automatically obtains an IP-address/subnet mask/Gateway and DNS from the network server. If the DHCP is set to OFF, the IP-address/subnet mask/Gateway and DNS must be set manually in the dialogue box.
- 2. IP address: Change or check the IP address here.
- 3. Subnet-mask: Change or check the subnet mask here.

Keep in mind that you should select an IP-address and a subnet mask that are in agreement.

- 4. Default gateway: Change or check the Gateway here.
- 5. A password must be filled in before the changes will begin to apply. The standard password is **admin**. You can change the password by marking the Change password box with a cross and entering the new password on the New Password line.

Then press Set.

The Super WISE network configuration is now completed. To check that the changes have been implemented, carry out a new search by pressing **Scan**.

P	SN	GW	DHCP	Version	Туре	MAC
72 16 2 73	255.255.252.0	172.16.1.2	Off	0.33.0	SuperWISE	00-23-38-00-03-1F
0.200.1.2	> 255.255.255.0	0.0.0.0	Off	0.34.0	SuperWISE	00-12-7C-00-B9-19
0.8.0.58	255.255.252.0	10.8.0.1	Off	4.00.0	GoldenGate	00-30-11-FB-00-AC
0.8.0.59	255.255.252.0	10.8.0.1	Off	4.00.0	GoldenGate	00-30-11-FB-00-83
72.16.1.165	255.255.252.0	172.16.1.2	On	1.10.1	Transparent Modbus	00-30-11-FB-0A-43
0.8.0.60	255.255.252.0	10.8.0.1	Off	4.00.0	GoldenGate	00-30-11-FB-00-73
0.8.0.61	255.255.252.0	10.8.0.1	Off	4.00.0	GoldenGate	00-30-11-FB-03-3E
0.8.0.54	255.255.252.0	10.8.0.1	Off	4.12.2	GoldenGate	00-30-11-FB-24-46
0.8.0.56	255.255.252.0	10.8.0.1	Off	4.11.3	GoldenGate	00-30-11-FB-1B-1F
0.8.0.55	255.255.252.0	10.8.0.1	Off	4.12.2	GoldenGate	00-30-11-FB-24-41
0.8.0.53	255.255.252.0	10.8.0.1	Off	4.11.3	GoldenGate	00-30-11-FB-1B-22
0.8.0.51	255.255.252.0	10.8.0.1	Off	4.00.0	GoldenGate	00-30-11-FB-00-11
	-					

Figure 7. Discovered units in the network.

We reserve the right to make design modifications without prior notice.



### **3.1. Settings via Modbus RS-485** With modbus communication and connection on COM4,

With modbus communication and connection on COM4, you can access all settings for external communication. See the sheet tab named "Local" in the Excel document "Super WISE Modbus list...", which is available on www.swegon.com.

Holding F	Registers. 16-bit integer va	alue (R/W). (4>	()				Local
Modbus	Name	MIN	MAX	Unit	DIV	FACT	Comment
Adress							
65011	Ext485Protocol	0	1		1		Extern RS485-Protocol (0-MOD; 1-EXO)
65012	Ext485Baudrate	0	3		1		Extern RS485-Baudrate (0-4.8; 1-9.6; 2-19.2; 3-38.4 KBaud)
65013	Ext485Parity	0	2				Extern RS485-Parity (0-None; 1-Even; 2-Odd)
65014	Ext485StopBit	1	2				Extern RS485-StopBit's
65015	Ext485MOD_ID1	1	247				Extern RS485-MOD-Bus ID (EXO-Line ID-1)
65016	Ext485MOD_ID2	0	255				Extern RS485 EXO-Line ID-2
65017	TCP_MOD_ID	1	247				TCP MOD-ID
65031	GG_Static_IP	0	1				Golden Gate Static IP/DHCP (D: Static IP - 1: DHCP)
65032	GG_MAC_ADR_0	-32768	32767		1		Golden Gate MAC adresse 0
65033	GG_MAC_ADR_1	-32768	32767				Golden Gate MAC adresse 1
65034	GG_MAC_ADR_2	-32768	32767				Golden Gate MAC adresse 2
65035	GG_IP_Addr_0	0	255				Golden Gate IP adresse 0
65036	GG_IP_Addr_1	0	255				Golden Gate IP adresse 1
65037	GG_IP_Addr_2	0	255			- 2	Golden Gate IP adresse 2
65038	GG_IP_Addr_3	0	255				Golden Gate IP adresse 3
65039	GG_Netmask_0	0	255		1		Golden Gate Netmask 0
65040	GG_Netmask_1	0	255		1		Golden Gate Netmask 1
65041	GG_Netmask_2	0	255				Golden Gate Netmask 2
65042	GG_Netmask_3	0	255				Golden Gate Netmask 3
65043	GG_Gateway_D	0	255				Golden Gate Gateway 0
65044	GG_Gateway_1	0	255				Golden Gate Gateway 1
65045	GG_Gateway_2	0	255			- /	Golden Gate Gateway 2
65046	GG_Gateway_3	0	255				Golden Gate Gateway 3
65047	GG_DNS1_0	0	255		1		Golden Gate Primary DNS 0
65048	GG_DNS1_1	0	255		1		Golden Gate Primary DNS 1
65049	GG_DNS1_2	0	255				Golden Gate Primary DNS 2
65050	GG_DNS1_3	0	255				Golden Gate Primary DNS 3
65051	GG_DNS2_0	0	255				Golden Gate Secondary DNS 0
65052	GG_DNS2_1	0	255				Golden Gate Secondary DNS 1
65053	GG_DNS2_2	0	255				Golden Gate Secondary DNS 2
65054	GG_DNS2_3	0	255				Golden Gate Secondary DNS 3

Figure 9 .Settings via Modbus RS-485.

## 4. To log on

Start your browser and enter the IP address for the Super WISE (default http://10.200.1.2). A login box will open, enter the username and password, see figure 9.

The appropriate authorization, reader, writer, service and admin status are allocated depending on your user name and password.

Enter the following the first time you log on: User name = admin Password = admin

Note! When you change the password, the new password must not consist of more than 15 characters. For security reasons, the password can not be reset without sending Super WISE for service. Keep the password in a safe place.

Then select the appropriate language to be used in the web interface. Press the button by the appropriate language to make your choice. See Figure 10.

NOTE! To avoid having to log in and select language every time you log on to a certain Super WISE, a favorite can be saved as a homepage in the browser.

A link to http://10.200.1.2/start.html?lang=se # overview allows the user to come directly to the flow chart of the Super WISE 10.200.1.2 without logging in and selecting the

language (assuming the user has done it before).

The server tom password.	elilla at Swegon SuperWISE requires a username and
Warning: This ent in an inse connection).	server is requesting that your username and password be cure manner (basic authentication without a secure
	User name Password Remember my credentials
	OK Cance

Figure 10. Logging on. From version 1.14 windows own logon function is used.

Swegon'				
		Select language		
		Select language		
		Deutsch		
	$\mathbb{X}$	English		
		Suomi		
		Français		
		Nederlands		
		Русский		
		Svenska		

Figure 11. Choice of language.

## 5. User levels

The web page is divided into four authorization levels to prevent unauthorized persons from accessing and changing sensitive parameters.

At the "reader" level, all the tabs other than the admin tab are accessible. You can only view the readings; you CANNOT change them. You can reset any tripped alarms to zero.

At the next level, the "writer" level, you have the right to change setpoints. See feed-back control signals, change clock settings, etc.

At the "service" level, you are also given the right to change all the feed-back control parameters. The Admin tab is still inaccessible.

At the "admin" level, you have full rights to access and change settings. With this authorization it is possible to change the IP configuration, link tables, etc.



# 6. Tabs

The various tabs in the Super WISE web interface are described on the pages that follow. Note that any changes you make via the web interface will not be saved in the Super WISE memory but instead in each respective zone controller or room controller memory. This does NOT apply to changes that were entered under the Optimizer or Admin tabs. These changes are saved in the Super WISE. If you are logged on as someone other than the Administrator; the Admin tap will not be visible.

### 6.1 Overview

The overview image is shown as a starting page when you connect up to the Super WISE, provided that the administrator has not specified a different page. No settings can be made here.

The purpose of the flow chart is to provide a quick overview of the Super WISE and the controllers that are part of the system.

The overview page is divided into two parts, a right-hand and left-hand side. A tree structure describing the connected system is shown on the left-hand side. The various components in the tree structure can be selected by clicking on the components that are included. The selected component is highlighted as inverted text (dark background and light text). The right-hand side shows what has been selected in the tree structure on the left-hand side.

The components included (see figure 9) on the left-hand side are as follows:

- Overview
- Zones
- Zone dampers/Routers
- Room
- Room controllers

Controllers (zone dampers, routers and room controllers) are indicated with a green square containing a damper for zone dampers and routers as well as a red square containing a thermometer for room controllers Other units in the tree structure are shown with map icons. Alarms and warnings are also indicated in the tree structure. Alarms are shown by a red circle with a crossed out zone damper, router or room controller. Only these units can have an alarm. Zones and rooms containing controllers (zone damper, router or room controller) that have alarms, indicate this with a yellow triangle enclosing an exclamation mark.

By clicking on the air handling unit in the overview image, you are automatically linked to the GOLD-unit.



Figure 12. Tree structure and overview image.

### 6.1.1 Overview

If Overview is selected in the structure on the left-hand side, an overview image is shown on the right-hand side. See figure 13. The overview image shows the zones that have zone controllers or routers connected. The zone image shows a sum of the supply airflows and a sum of the extract airflows for each zone. The overview image contains a free text box where you can write a descriptive text for the system. Click on the box to make changes in the text. On the status line you can see whether the air handling unit has transmitted a signal to the Super WISE indicating that it is operational or not. This signal is a condition that must be satisfied before the Super WISE can start the Optimizer function.

The nod name is the name shown in the tree structure. By clicking on the text box, you can alter the text. When you have altered the name, this is also updated in the tree structure.

No settings can be entered on the overview page. The page looks the same for all user categories.

### 6.1.2 Zone

If one zone is selected in the structure on the left-hand side, the associated zone image is shown on the righthand side. See figure 13. Max 8 zone dampers can be shown in the zone image. If the zone contains one or more routers, these are marked with a grey square. No values are shown for a router since it serves only as a communication link. Supply air diffusers are shown in red and extract air registers are shown in yellow.

Pressure and flow sensors are shown depending on whether the zone damper is used for regulating the pressure or the flow. The setpoints are shown in blue text and the actual values are shown in black text. At every zone damper, its damper angle is also shown as a percentage.

Summation and slave control of certain zone dampers can occur within one zone. If a CONTROL Router, which has underlying products, is included in a zone it can not process any air flow from the underlying room products, the airflow summation is will not be correct.

No values can be altered on the zone page.

The nod name is the name shown in the tree structure. By clicking on the text box, you can make changes in the text. When you have altered the name, this is also updated in the tree structure.

Figure explanation:

- Σ xxx I / s, the total flow for the zone supply- and extract air, if a zone damper PED is included its airflow is not included. A CONTROL Router can not show any airflow.
- Products namned "Slave" are always controlled by the master product PSFE or MSFE.
- Products named "Group slave" are extract air dampers that gets its air from the sum of all supply air flow divided on the number of extract air slaves.



Figure 13. Zone.





#### 6.1.3 Zone dampers/Routers

The parameters of the controller and its Modbus ID are both specified on the zone page. Which parameters are to be shown or can be altered is conditional on the type of user that has logged on. A Reader can only read values, whereas a Writer can also alter certain values. The service user can alter all the parameters

Parameters that can be altered are marked with a small blue triangle up in the right-hand corner in the box where the parameter is situated.

In groups with summary and breakdown on different group slaves an offset can be specified for each slave, this offset is not shown in the set point, it is only visible on the regulated airflow.

From version 1.16 of the Super WISE, it is possible to restart the regulator, use this function if the response from the regulator is in questionable.

Information indicating whether the zone damper is a master or a slave can be found in the heading of the page (i.e. slave-controlled based on the sum of the airflows in one zone). The parameters look alike for both the master and slave controllers.

A free text box for the controller is provided below the parameters, where a description can be written.

Alarms for the controller are shown below the free text box.

The nod name is the name shown in the tree structure. By clicking on the text box, you can make changes in the text. When the name is changed the change is also updated in the tree structure. In figure 11, the node name can be found by using the vertical scroll list to come further down the page.

For a CONTROL router there are no parameters to show or alter. Therefore only the free text box, alarm field and the node name are shown for a router.

Swegon					Si	uperWISE - Data recie
Overview Optimizer	Zone	Commissioning	Alarms	Links	Log	Admin
Swegon Tomelilla	Zone damper parameters	(master)			Data recieved	from regulator Id:2
🗆 📐 Zonspjäll kontorsplan	Extract air			Misc. parameters		
🕀 🥅 Room 1 Free	Pressure reading		14Pa	Software		1.12
🕀 🧰 Room 2 Sphere/Extra	Pressure setpoint		15Pa	RFID		203
🗄 🧱 Room 3 Colibri	Extract actual airflow		73//s	Control function		PE or FE
Room 4 School WISE	Extract damper position		39%	Control type		Pressure
				Dun time (Veare)		07
E Room 5 Parasol	Emergency			Run time (Heure)		40245
DC 2 M	Emergency control read		Normal	Run une (Hours)		10210
DC 3 S	Extract action at emergency		Open	Run time (Minutes)		14min
🗄 🗓 Z1 Office ground floor				Extract air P-term		25
E Z2 Office 1'st floor				Extract air I-term		22
				Manual operation		
🕀 🧮 R1 Guest				Reboot of controller		No action
E R2 AJn				Manual setting of state		Auto
				manual setting of state		Auto
E R3 JWN						`
E B6 MPa						
🛨 🔚 R7 ABe	ALADIAS					
🕀 🔚 R8 JEn	ALARMS					
N PED	No active alarms					
Z3 Conference 1'st floor						
<			Node name	٦		

Figure 14. Zone damper/router.

### 6.1.4 Room

If one room is selected in the structure on the left-hand side, the associated room image is shown on the right-hand side. See Figure 15.

The room image looks different depending on which application is operating in the room.

The following applications are available:

Application	Number of control- lers/room	Number of dam- pers
ADAPT Airborne products	Max 1 master and 3 slaves in each room	Max 1 + 3
CONTROL Ra FSFE	Only 1 per room	2
Conductor W4	1	3
Conductor W3	1	2
Conductor W1	1	0
ADAPT Parasol	1 SA + 3EA	4

Max 4 dampers can be shown in the room image. Supply air diffusers are shown in red and extract air registers are shown in yellow.

The following is shown in the room image:

- How many dampers are in the room (Supply air = red, Extract air = yellow).
- Flow and temperature sensors

(shown on supply air/extract air ducts)

- Damper openings
- Presence detector connected if man symbol is shown.
  - Black and white man = Absence.
- Green man = Presence.
- Air Quality Sensors
  - CO2 sensor or
  - CAC sensor with correlated CO2 level or
  - Relative humidity, only applies ADAPT products.
- The window sensor is connected if a window is shown. - Black and white window = Closed.
  - Green window = Open.
- The condensation sensor is connected if drops of water are shown.
  - Black and white drops = No condensation
  - Green drops = Condensation
- Actual value/setpoint in the room. Shown by the thermometer. Actual values in black text. Setpoints in blue text.
- Connected Heaters/Coolers are shown if they are connected. The opening of the valve is also shown in %.
   Red indicates an open heating valve.
  - Blue indicates an open cooling valve.
- Relays are shown as a lamp symbol if selected.
  - Black and white if not active.
  - Green if activated.

(The symbol is always shown for ADAPT regulators)



#### Figure 15. Room.

We reserve the right to make design modifications without prior notice.







Figure 18. Room image, example 4, W4.

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<u>~</u>X



Figure 19. Room image, example 5, W3.



Figure 20. Room image, example 6, CONDUCTOR W1.

### 6.1.5 Room controller

The parameters of the controller and its Modbus ID are specified on the room controller page. The parameters which are shown or can be altered depend on the type of user that has logged on and the application that the controller is running. A Reader can only read values, whereas a Writer can also alter certain values. The service user can alter all the parameters

Parameters that can be altered are marked with a small blue triangle up in the right-hand corner in the box where the parameter is situated.

The name of the application appears in the page heading. Different applications have different sets of parameters,

A free text box for the controller is provided below the parameters, where a description can be written.

Alarms for the controller are shown below the free text box.

The nod name is the name shown in the tree structure. By clicking on the text box, you can make changes in the text. When the name is changed the change is also updated in the tree structure. The figure below shows how the page looks as a whole. There is not enough space on the screen to show the entire page. Therefore the scroll bar has to be used.

Further details of the parameters and their function are available in separate products manuals.

Starting from version 1.23, the parameters on the product pages are dynamic. The parameters are only displayed if enabled or relevant to the case.

Swegon					Su	perWISE - Data	recieved
Overview Optimize	r Zone	Commissioning	Alarms	i Links	Log	Admi	n
Swegon Tomelilla	ADAPT Master Paramet	ers			Data recieved from	regulator ld:16	Î
Zonspjäll kontorsplan	Temperature settings, Occ	upied		Occupancy functions			
Room 1 Free	Cool setpoint Occupancy		23°C	Occupancy		0	
Room 2 Sphere/Extra	Heat setpoint Occupancy		21°C `	Occupancy delay on		0s `	
E Room 4 School WISE	Temperature settings, Uno	occupied		Occupancy delay off		20min	
RC M	Cool setpoint economy		24°C	Controller mode		1	
RC S 1	Heat setpoint economy		20°C	Occupancy time count		2306h	E
Room 5 Parasol	Temperature readings			Total time count		3168h	
	Room temperature		20.9°C	Venting boost set		On	
DC 3 3     T Office around floor	Calc room temp setpoint		22.0°C	Time count for vent boost		72h	
+ Z2 Office 1'st floor	Room temp deviation		-1.1°C	Vent boost time		5min	
🕀 🚞 Z3 Conference 1'st floor	Calc Cooling value		0%	Misc. parameters			
	Calc Heating value		0%	Software	e	6.06	
	Airflow settings			Application type (0-9)	(	)=Internal	
	Airflow min occupied		401/s	Operating mode	1	Normal air cool	
	Airflow max occupied		50Vs	Emergency function	1	Damper	
	Airflow unoccupied		40Vs `	Emergency function		closes	
	Airflow readings			Terms economics (0, 4)	4	4 (Sens 1=	
	Airflow actual		39Vs	remp sensor use (0-4)		2= no value)	
	Airflow calc setpoint		40Vs	Heat active	1	leating/Water,	
	Airflow pressure		165dPa	neat active		Cooling/Air	
	Damper position		42%	Valve exercise interval	5	iday	
	Damper stroke		95mm	Cold draught protection level		)%	
	Offset for 0-calibration		3dPa 🔪	Cold draught off level	ę	50%	
<b>T</b>	Air quality control			LED function	F	Function	
	CAC use		Present	Night cool temp setting	1	18°C	Ŧ

Figure 21. Room controller.



### 6.1.5 ADAPT Room controller from version 1536

On newer controllers there are several new features therefore these have a different layout with new parameters, the version number can be found under the table "Misc. Parameters".

Swegon				SuperWISE - Data recieved
Overview Optimizer	Zone Commissioning	Alarms	s Links Log	Admin
Swegon Tomelilla	ADAPT Master Parameters		Data recieved fro	m regulator Id:16
Zonspjäll kontorsplan     Ene	Temperature settings, Occupied		Occupancy functions	
Room 2 Sphere/Extra	Cool setpoint Occupancy	23°C	Occupancy	
🛨 🛄 Room 3 Colibri	Heat setpoint Occupancy	21°C	Occupancy delay on	0s
🗆 🔚 Room 4 School WISE	Temperature settings, Unoccupied		Occupancy delay off	20min
RC M	Cool setpoint economy	24°C	Controller mode	1
RCS1	Heat setpoint economy	20°C	Occupancy time count	2306h
DC 2 M	Temperature readings		Total time count	3168h
	Room temperature	20.9°C	Venting boost set	On
🗄 🚺 Z1 Office ground floor	Calc room temp setpoint	22.0°C	Time count for vent boost	72h
🗄 🔚 Z2 Office 1'st floor	Room temp deviation	-1.1°C	Vent boost time	5min
🕀 🔚 Z3 Conference 1'st floor	Calc Cooling value	0%	Misc. parameters	
	Calc Heating value	0%	Software	6.06
	Airflow settings		Application type (0-9)	0=Internal controller
	Airflow min occupied	40Vs	Operating mode	Normal air cool
	Airflow max occupied Airflow unoccupied	50Vs 1	Emergency function	Damper closes
	Airflow readings Airflow actual	391/s	Temp sensor use (0-4)	4 (Sens 1= Room, Sens 2= no value)
	Airflow calc setpoint	40Vs	Heat active	Heating/Water,
	Airflow pressure	165dPa		Cooling/Air
	Damper position	42%	Valve exercise interval	5day
	Damper stroke	95mm	Cold draught protection level	0%
	Offset for 0-calibration	3dPa `	Cold draught off level	50%
<b>•</b>	Air quality control		LED function	Function
	CACuse	Present 1	Night cool temp setting	18°C 🔪 👻

Figure 22. Room controller.

### 6.2 Optimizer

On the optimizer page, you can see the values concerning the pressure optimizing function in the air handling unit. The pressure optimizing function is separate for supply air and extract air, but certain settings are common.

In the left-hand column there are status fields where the actual and the setpoint values are shown together with a note about how much time remains before the optimizing function will start. The largest damper angles for supply air and extract air respectively are also shown here. The object of optimizing is to adjust the pressure setpoints for the supply and extract air fans, so that the damper angles that are the most open come within the range preset in the Settings column to the right on the page (Upper damper limit and Lower damper limit). See Figure 23.

In the left-hand column there is also a Mode and an Alarm field respectively. The operation mode of the unit is shown in the Mode field, i.e. if it is running or not. Emergency and Summer night cooling status is also shown. These variables come from the GOLD or from the BMS system depending on which is connected. If the GOLD is connected, it is the master and writes over possible changes entered on the page. If the GOLD is not connected but the BMS system handles the communication with other air handling units, the BMS also writes over the selections made on the page, depending on how the BMS system implements this function.

The alarm field shows the alarm status for Super WISE internal alarm status. There are alarms for deviation between actual and setpoint pressure values from the unit as well as alarms if any damper has been 100% open for a longer period than the alarm delay period set in the right-hand column

Farthest down in the left-hand column is a button for resetting alarms.

There are settings in the right-hand column, i.e. all the configuration values for pressure optimizing.

Start-up delay denotes the time from when the air handling unit has signalled that it is in operation until its optimizing begins.

The purpose of this period is to give the system a chance to become stabilized.

There are several pressure configuring values for supply air and extract air respectively. Min/Setp/Max.

- **Min.** The pressure setpoint that the Super WISE must not require to be lower than that from the air handling unit during the optimizing procedure.
- **Setp.** The pressure set point used by the Super WISE is transmitted to the air handling unit before the optimizing begins.
- **Max.** The pressure set point that the Super WISE must not require to be higher than that from the air handling unit during optimizing.

Limit values for the upper and lower damper levels respectively denote the area in which Super WISE tries to optimize the dampers that are open the most in the supply air and extract air respectively. If the most open damper is more open than the upper damper limit, the air handling unit increases the pressure. When the air handling unit increases the pressure, the damper will slightly close.

If the most open damper is less open than the lower damper limit, the air handling unit decreases the pressure. When the air handling unit decreases the pressure, the damper will slightly open.

The alarm delay indicates how long time a fault must exist before the Super WISE initiates the alarm for it.

The size of the step indicates how many Pascal the pressure setpoints from the Super WISE shall be allowed to change between two updates.

Interval indicates how often the Super WISE is allowed to update its setpoints.

Permissible deviation indicates how much deviation is permissible between actual and setpoint values for pressure. Super WISE does not update the pressure setpoints until the actual values are within those that deviate.

Sweg	oní							SuperWISE	- Data recieved
Overview	Optimizer	Zone	Comr	missioning	Alarms	Links	Log		Admin
Status					Settings				
SA pressure		0	Pa	]	Startup delay			15min	
EA pressure		0	Pa		SA min. pressure			50Pa	
SA requested	i pressure	5	0Pa		SA pressure setvalue	9		0Pa 🔪	
EA requested	l pressure	5	0Pa		SA max. pressure			100Pa	
Time to optimi	zation start	9	00s		EA min. pressure			50Pa	
SA max. dam	per	7	7%		EA pressure setvalue	)		0Pa 💙	
EA max. dam	per	6	5%		EA max. pressure			100Pa	
Mode					Upper damper limit			95%	
AHU running		C	ff `	1	Lower damper limit			70%	
Fire alarm		Ir	active	1	Alarm delay			15min	
Summernight	cooling	Ir	active		Pressure step size			5Pa	
Alarms					Interval			2min	
SA pressure	setpoint not reached	0		1	Allowed deviation			5Pa	
EA pressure	setpoint not reached	0			GOLD communication	on settings			
Damper 100%	6 open alarm	0			GOLD version			GOLD ver. E	
Connection to	GOLD lost	1			GOLD external IP add	ress		172.16.50.206	
Reset all alarr	ns		Reset		GOLD external port n	umber		502	

#### Figure 23. Optimizer.

We reserve the right to make design modifications without prior notice.

### 6.3 Zone

Summation flows for supply air and extract air respectively are specified on the zone page.

Within a zone there could be summation and slave control of some zone dampers. The slave flow that shall be divided to the slave dampers (one to three) also appears for each zone. See Figure 24 below. Offset flow for a summation zone should be entered into each extract air sum damper in the summation group. The offset set in the extract air product is applicable only to that specifc product. The offset value is entered in the offset parameter in the parameter page for the products.

On the zone page there is also information and settings for position optimisation of zone dampers with respect to the room dampers' position. When a zone damper or a router is used to optimise the damper position on underlying room damper these values are automatically displayed.

- "Low limit damper position" sets the minimum damper position the most open room damper should have.
- "High limit damper position" sets the maximum throttle position the most open room damper should have.
- "Step size optimization %" sets how many percent the the zone damper shall increase / decrease at each optimisation cycle.
- "Interval time update damper pos%" sets how often the zone damper shall load the room dampers' damper position for optimisation.

Sweg	oní					Super	WISE - Data recieved
Overview	Optimizer	Zone	Commissioning	Alarms	Links	Log	Admin
Zone 0				Zone 5			<u>^</u>
Sumflow for	or supply zone	54/s		Sumflow for su	pply zone	0Vs	
Sumflow for	or exhaust zone	89Vs		Sumflow for ext	haust zone	01/s	
Zone 0 Co	ntroller 1			Zone 6			
Low limit da	amper position	65%	<u> </u>	Sumflow for su	pply zone	0Vs	
High limit da	amper position	85%		Sumflow for exi	haust zone	0Vs	
Step size f	or optimize %	2%	<u> </u>	Zone Z			
Interval time	e update damper pos %	1min		Sumflow for su	pply zone	0Vs	
Flowset fo	r exhaust slave DC zone	100%	,	Sumflow for ex	haust zone	0Vs	
Zone 1				Zana 9			
Sumflow for	or supply zone	328/s	\$	Sumflow for su	nnly zone	01/s	
Sumflow for	or exhaust zone	322/s	\$	Sumflow for ex	haust zone	0//e	
Flowset fo	r exhaust slave DC zone	100%	·	Samow for ext	naust zone		
Zone 2				Zone 9	-		E
Sumflow for	or supply zone	160/s	3	Sumflow for su	ppiy zone	0Vs	
Sumflow for	or exhaust zone	1671/s	3	Sumflow for exi	naust zone	OVS	
Zone 2 Co	ntroller 1						
Low limit da	amper position	70%					
High limit da	amper position	90%					
Step size f	or optimize %	2%					
Interval time	e update damper pos %	1min					
Zone 3							
Sumflow for	or supply zone	0Vs					
Sumflow for	or exhaust zone	0Vs					

Figure 24. Zone.



### 6.3.1 Commissioning

On this page it is possible to change setpoints for all room products within a zone or all zones. Be careful not to change the air flow unless you are not sure that all should have the exact same airflow. Set the values to be changed, select zone or all zones and press the set and the Super WISE will updates the values. You can only change one set point at a time.

Swego	<b>n</b>								SuperWISE - Data recieved
Overview	Optimizer	Zone	Commissioning	)	Alarms	Links		Log	Admin
	Sur	nmation groups							
		Occupancy							
		Temperature setpoint cooling	occupancy	23.50°C	All zones	Zone 0 Se	t 0%		
		Temperature setpoint heating	occupancy	21.00°C	All zones	Zone 0 Se	t 0%		
		Min. flow Occupancy 10.0			All zones	Zone 0 Se	t 0%		
		Max. flow Occupancy 40.			All zones	Zone 0 💙 Se	t 0%		
		Unoccupancy							
		Temperature setpoint cooling	Unoccupancy	25.00°C	All zones	Zone 0 Se	t 0%		
		Temperature setpoint heating	Unoccupancy	20.00°C	All zones	Zone 0 Se	t 0%		
		Min. flow unoccupancy air a	pplications	5Vs	All zones	Zone 0 Se	t 0%		
		Min. flow unoccupancy water applications 10.0			All zones	Zone 0 💙 Se	t 0%		
		Commissioning Air							
		Not Active							
		Commissioning Water			All zones	Zone 0 Se	t 0%		
		Not Active		1					

Figure 25. Comissioning.

#### 6.4 Alarms

The alarms that exist as well as those that have occurred in the system are shown on the alarm page. The 100 most recent alarms are shown.

It is important that the Super WISE clock is correctly set in order to achieve accurate handling of alarms, see section 6.7.5. The alarms that are active just now are shown in red text. Alarms that have previously been active, but are not active any more are shown in black text with the appendix "Reset".

From version 1.14, all alarms are ignored while the air handling unit is turned off, see figure 19.

Each alarm contains the following information:

- Alarm number
- Date and time when it became active
- Information about the controller in which that the alarm is active, by a reference to zone/zone controller/room/room controller.
- Alarm text

Swego	oní					Sup	erWISE - Data recieved			
Overview	Optimizer	Zone	Commissioning	Alarms	Links	Log	Admin			
Alarm history Alarm settings										
ALARM HISTORY - Active alarm										
A00: Alarm no. 07 17/6	2014 15:49 "Z2 Office 1	l'st floor->DC 1 M->R4	4 Akm->RC M" VOC sensor	fault (Reset)						
A01: Alarm no. 07 17/6	2014 15:44 "Z2 Office 1	l'st floor->DC 1 M->R4	4 Akm->RC M" VOC sensor	fault						
A02: Alarm no. 06 17/6	2014 13:44 "Z0 WISE c	onference room->Zor	ispjäll kontorsplan->Room 1	Free->RC MMM" Setpoint	for heating and cooling ar	re overlapping				
A03: Alarm no. 02 4/6	2014 10:35 "Z0 WISE co	nference room->Zons	pjäll kontorsplan->Room 1 F	Free->RC MMM" Actuator f	ault					
A04: Alarm no. 11 4/6	A04: Alarm no. 11 4/6 2014 03:41 "Z2 Office 1'st floor->PED" PI-controller overload									
A05: Alarm no. 11 3/6	A05: Alarm no. 11 3/6 2014 18:38 "Z2 Office 1'st floor->PED" PI-controller overload									

Figure 24. Alarm.



Under the tab "Alarm settings" all settings for alarms are available. All alarms in Super Wise is divided into A and B alarms. By default, A-alarms are function alarms and B alarms are comfort alarms. It is possible to change the priority of an alarm, highlight the alarm in either list and move it to the other list by arrows between the lists. Under "Show A/B- alarm" you select how the alarm should be handled.

- "Show A-and B-alarms" means that all alarms are always displayed.
- "Hide B alarms in history" means all B-alarms are hidden in history and not sent out via email.
- "Hide B alarms on room pages and history" means B-alarms never appears in Super WISE.
- "Block alarms "blocks alarms which occurs because the AHU is turned off, these alarms are not shown in Super WISE. This function requires that the AHU or BMS/PLC writes the AHU's status to Super WISE.
- "Clear reseted alarms" will clear all alarms in the history that has been previously restored and are not active.
- "Clear all alarms" will clear all alarms in the history then re-read all active alarms again.

Swegon				SuperW	ISE - Data recieved		
Overview Optimizer	Zone	Commissioning		Alarms	Links	Log	Admin
Ala	rm history				Alarm setting	js	
ALARM SETTINGS							
Load A/B alarm Save A/B a configuration configurat	larm Sho	w A/B alarm	Blo	ck alarms	Clear reset alarms	Clear all ala	arms
LOAD SAVE	Hide	B alarms in history	Blo	ck alarms when AHI	U off CLEAR	CLEAR	]
A alarms				B alarms			
Alarm no. 01 - Adaptx - Stroke calib Alarm no. 02 - Adaptx - Actuator fau Alarm no. 03 - Adaptx - Pressure se Alarm no. 04 - Adaptx - Room temp Alarm no. 05 - Adaptx - Internal tem Alarm no. 06 - Adaptx - Setpoint for Alarm no. 07 - Adaptx - VOC sensor Alarm no. 03 - AxWxDC - No Press Alarm no. 03 - AxWxDC - No Press Alarm no. 03 - AxWxDC - No Supply Alarm no. 04 - AxWxDC - No Supply Alarm no. 05 - AxWxDC - No Exhau Alarm no. 06 - AxWxDC - No Exhau Alarm no. 07 - AxWxDC - Room Uni Alarm no. 08 - AxWxDC - Room Uni Alarm no. 09 - AxWxDC - Temp sen Alarm no. 10 - AxWxDC - Temp sen Alarm no. 10 - AxWxDC - Room uni Alarm no. 11 - AxWxDC - PI-control Alarm no. 16 - AxWxDC - No serial Alarm no. 17 - AxWxDC - No serial Alarm no. 18 - AxWxDC - No serial Alarm no. 20 - AxWxDC - Short circ Alarm no. 21 - AxWxDC - Short circ Alarm no. 22 - AxWxDC - Short circ Alarm no. 23 - AxWxDC - Short circ Alarm no. 23 - AxWxDC - Short circ	ration fault It nsor values out of ran sensor values out of r o sensor fault values of heating and cooling a fault ure sensor r Flow sensor st Flow sensor st Flow sensor t1 Temperature t2 Temperature sor short circut 19-20 sor open circut 19-20 sor open circut 19-20 er overload vad uult humber ut 27-29 ut 30-32 ut 33-35 ut 36-38	ge ange pout of range re overlapping ⊨	>	Alarm no. 08 - / Alarm no. 09 - / Alarm no. 10 - / Alarm no. 11 - / Alarm no. 12 - / Alarm no. 13 - / Alarm no. 14 - / Alarm no. 16 - / Alarm no. 16 - / Alarm no. 01 - / Alarm no. 02 - / Alarm no. 12 - / Alarm no. 13 - / Alarm no. 13 - / Alarm no. 13 - / Alarm no. 19 - / Alarm no. 37 - / Alarm no. 37 - / Alarm no. 40 - / Alarm no. 41 - / Alarm no. 42 - / Alarm no. 43 - / Alarm no. 43 - / Alarm no. 44 - / Alarm no. 44 - / Alarm no. 46 - /	Adaptx - Room temp devia Adaptx - CO2 level too hig Adaptx - CO2 level too hig Adaptx - AHU VOC-level of Adaptx - AHU VOC-level of Adaptx - Adaptx - Adaptx - Adaptx - Adaptx - Adaptx - Adaptx - Nator - No Room Unit AxWxDC - No Room Unit AxWxDC - No Room Unit AxWxDC - TBD AxWxDC - Supply presonated AxWxDC - Supply duct 10 AxWxDC - TBD	ation to high h H deviation greater than room VC n is too high 1 2 sached neters are lost ssure from AHU essure from AHU 00% open 100% open	DC-level

Figure 27. Alarm settings.

#### 6.5 Links

Relevant links, such as the air handling unit's web page or BMS, if such exist, are shown on the link page. The links are created in the admin/link page. Links can only be created by users with administrator rights.

Swego	oní					Su	perWISE - Data recieved
Overview	Optimizer	Zone	Commissioning	Alarms	Links	Log	Admin
		Links Link to ventilatior http://172.16.50.	n unit web page 206/				

Figure 28. Links.

We reserve the right to make design modifications without prior notice.



## 6.6 Log

The log flap consists principally of three parts, a parameter window, a diagram window and a memory selector. The parameter window consists of five columns, parameter name, parameter number, min. and max. for the parameter as well as its value in the item at which the cursor is pointing. The parameter window can contain a maximum of ten parameters at one time. The parameter number is the parameter's internal ID, which can be used to ensure which parameter is concerned, when you speak with a support technician, for instance. Min and Max are min. and max. signal values. These values can be changed by the user in order to obtain a different resolution in the diagram window. The value of the parameter at the point where the marker is situated in the diagram window is shown in the cursor column. A box, coloured the same as the parameter curve in the diagram window, is shown to the right of the parameter window.

The curves of the parameters that have been selected in the parameter window are shown in the diagram window.

The Y axis is graded from 0 - 100 % where 0 % corresponds to a parameter's min. value and 100% corresponds to the parameter's max. value.

Click with the mouse on the relevant point in the diagram to study a parameter's value at a given point. The cursor will then jump to the place where the user clicks. The value at the point where the cursor rests is displayed in the Cursor column in the Parameter window. The zoom control enables the user to zoom in (move the control to the left) and zoom out (move the control the right). If the control is moved as far to the right as possible, all items in the current memory are shown. If the zoom control is not completely zoomed out, it is possible to move the diagram to the side using the horizontal scroll bar. Two time indications are shown at the lower left and lower right edge of the diagram window. They show the time at the data points that are at the beginning and end of the diagram. In the Memory selection box, the user can select the memory from which data will be studied.

**MMC external**; can be used if the user has inserted an SD card (min. 2 Gb) in the card holder on the Super WISE. The log file on a card is restricted to 999 days of logging. When data has been logged for 999 days, the Super WISE begins to write over the first day. All the data from the most recent 999 days are always accessible. The time-to-reply for changes in the display is long.

**Real time**: downloads data in real time and displays the data in the diagram window. The period between two data points can be selected in the time sample box. The shortest time is one second. Note that it takes a while before a time will be displayed to the left below the diagram window since it takes a while for the first saved point to appear at the extreme left.

N.B.! Log data from earlier versions can not be read after updating to version 1.14.



We reserve the right to make design modifications without prior notice.



#### **Choose parameters**

The number of parameters selected in the parameter window do not make any difference in the number of data points that can be saved, since all the available parameters are always saved. However only the changes are saved. In order to study a parameter, the user should click on an empty line in the parameter window in order to add a new parameter, or click on an already existing parameter for the purpose of exchanging it. A new window will then pop up where you can select a parameter. See figure 30. If the user clicked on an existing parameter, it is also possible to delete it by pressing "Remove". If the user uses the MMC and some time has elapsed, the user can press the Update button to make sure that the last data point will also appear in the diagram window. If the user uses the MMC memory, he or she can update the display by clicking on MMC one more time.

					ОК
Name	ID	Min	Мах		6
SW_Ver []	1701	0	30000		Cance
Flow_Type []	17021	0	13		_
Room_temp_read [C]	17031	0.0	50.0	=	Remov
Flow_read [l/s]	17041	0	32000		
CAC_read [%]	17051	0	100		
CAC_COtwo_read [ppm]	17061	0	2000		
Damp_pos [%]	17071	0	100		
Valve_Postion [%]	17081	0	100		
Cool_value [%]	17091	0	200		
Heat_value [%]	1710	0	100		
Occupancy []	17111	0	1		
Duct_temp [C]	17121	0.0	50.0		
Calc_setp_temp [C]	17131	0.0	50.0		
Temp_tev [C]	1714	0.0	50.0		
Ext_setp [%]	1715	0	100		
Calc_airflow [%]	1716	0	100		

Figure 30. Parameter selection.





### 6.7 Admin

#### 6.7.1 Admin – Users

Users can be managed under this tab. Here, you can specify who has access to web pages as well as how and who you should inform in the event of possible alarms. You can also enter a password for each user here. Maximum 10 users are allowed.

Swego	n							SuperWISE - Data recieved
Overview	Optimizer	Zone	Commissioning	A	larms	Links	Log	Admin
User	TCP/IP	E-mail	Lin	iks		Misc	SW Upgrade	ММС
		Name						
		reader			Edit	Delete	]	
		writer			Edit	Delete	)	
					Edit	Delete	)	
		admin			Edit	Delete	]	
					Edit	Delete	]	
					Edit	Delete	]	
		PHn			Edit	Delete	]	
		Kristian			Edit	Delete		
		Jörgen Hansson			Edit	Delete		
		Christoffer Lynghed			Edit	Delete		

#### Figure 31. Users.

NOTE! The passwords and user names must not contain characters with accents of any kind used for indicating the quality of a vowel, for instance.

The initial setting for the various user passwords are as follows:

Password
reader
writer
service
admin

Alarms can be sent via e-mail if the Super WISE is connected to the network/Internet via a local network. The settings can be changed for a user by pressing on Edit.

NOTE! A lost password can not be reset. If this happens, the device must be sent to the Swegon factory for reprogramming.



Figure 32. User settings.



### 6.7.2 Admin – TCP/IP

The settings for network communication with the Super WISE can be entered under the TCP/IP tab. If you have access to a DHCP server, it is almost always advisable to use this server. IP conflicts can then be avoided by using a DHCP. Static IP means that the Super WISE obtains a permanent IP address which the user must specify. This works well for small networks, however in other cases IP addresses should be selected with great care so that the selected IP address will not end up in conflict with someone else's IP address.

A DNS checks whether the IP address is represented by some name.

One example is the IP address 62.119.110.110, which obtains the name swegon.com by a DNS. The MAC address is the unique hardware address allocated to the network card when the card is produced. This address can never by changed and is always unique. For information about which IP address, subnet mask, gateway and DNS is appropriate to use, get in touch with your network manager.

From version 1.16 there is the possibility to restart the Super WISE via the "Reboot" button.

Swego	<b>n</b> í						SuperWISE - Data recieved
Overview	Optimizer	Zone	Commissioning	Alarms	Links	Log	Admin
User	TCP/IP	E-mail		Links	Misc	SW Upgrade	MMC
		TCP/IP SETTING: Static IP/DHCP	S		рнср	]	
		Domain name				<u>_</u>	
		MAC address			00:12:7C:00:F3:50		
		Webserver port			80	]	
		IP address			172.16.50.212		
		Subnet mask			255.255.255.0		
		Gateway			172.16.50.1		
		Primary DNS			172.16.50.12		
		Secondary DNS			172.16.50.10		
				Reboot			

Figure 33. TCP-IP.

### 6.7.3 Admin - E-mail

You can select here whether the Super WISE shall manage outgoing e-mail, or whether some other Super WISE connected to the network shall do so. If Super WISE shall manage the e-mail, fill in the SMTP server. This address can be a domain name or an IP address. The e-mail reply-path can be the same as the sender address, if the Super WISE has a unique e-mail address of its own. It is often appropriate to enter the address to the person who is responsible for the Super WISE in both e-mail address boxes.

Swego	<b>m</b>					S	uperWISE - Data recieved
Overview	Optimizer	Zone	Commissioning	Alarms	Links	Log	Admin
User	TCP/IP	E-mail		Links	Misc	SW Upgrade	MMC
		Email settings					
		E-mail server		External E-mail serve	er (ISP)	<u>_</u>	
		External SMPT server		exchange2		<u> </u>	
		External SMPT Portnu	mber	25		<u> </u>	
		External SMPT login				<u> </u>	
		External SMPT passw	vord			<u> </u>	
		Email sender		SuperWISE Wiserum	1		
		E-mail reply-path				<u> </u>	
		Alarm email language		English			
			Send test ala	rm to defined users			

Figure 34. E-mail.



#### 6.7.4 Admin - Links

Under this tab, you can set whatever links you want shown below the previous tab, Links. Here, you can create quickaccess links to the other Super WISE units or the like, that are included in the network, for instance. Fill in the name and IP addresses to the connected units.

When the Links tab opens, links to all the Super WISE are named there. It also works just as well to specify the IP addresses for the various units directly in the web browser being used. You can also change the start page shown directly after you log on. There is also a special link to the air handling unit that provides the Super WISE with air.

Swego	<b>on</b> í						SuperWISE - Data recieved
Overview	Optimizer	Zone	Commissioning	Alarms	Links	Log	Admin
User	TCP/IP	E-m	ail	Links	Misc	SW Upgrade	MMC
		Links		۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲			
		Link to ventilati	on unit web page	9			
		http://172.16.50.206	/				

Figure 35. Links.

#### 6.7.5 Admin – Misc.

There are settings on the Misc. page for External EIA/TIA-485 communication, TCP/IP communication, date and time. It is also possible to remove and search new units in the system.

#### Modbus RTU/EXOline settings

The following settings can be entered:

- "Protocol" Can be set to Modbus or Exoline
- "Baud rate" Communication speed. 4.8, 9.6, 19.2 or 38.8 kBaud
- "Parity" None Even or Uneven.
- "Stop bit" 1 or 2
- "Modbus ID/EXOline PLA" Modbus id for Modbus RTU via RS-485. This also sets the PLA-bit for EXOline when EXOline communication is selected.
- TCP Modbus ID Modbus ID for MODBUS TCP via Ethernet.

#### **BACnet IP settings**

The following settings can be entered:

- BACNet IP Inactive or Active. Select active so that BACNet will start.
- Device ID BACNet device ID. BACNet IP will be Inactive when a change is made.
- Port number Port number that BACNet TCP uses. BACNet IP will be Inactive when a change is made.
- Fetch EDE file Downloads the current BACNet EDE file to the user's computer.

NOTE! The BACNet EDE-file is static and follows the structure specified in a separate Excel document. This applies from Version 1.07.

#### Date and time settings

This is where time and date can be set. Correct settings are important when storing logged data on the SD card.

#### **WISE network devices**

The WISE network offers opportunity to delete all controllers from the list and then reconstruct this list. When you press "Reset", this clears the list of its contents and a new search of all the zones and room products in the system is made. Components that have been assigned an alias keep this name also after the controllers have been deleted. The website must be updated by pressing "F5". The whole process takes about 3 minutes.

#### Room controller scan settings

The room controller search setting contains a setting for how often the Super WISE should look for new room controllers. If you set the value to 0, a search for new room controllers will never by made. By pressing the Search button, the user can force a search for new room controllers. A search takes 3 minutes.

Once the system has been built up and all the controllers have been detected, it is then advisable to set the scan time to 0 min., or to a value so high (480 min.) that the normal reading process will not be affected.

"Factory reset" means local parameters in the Super WISE are resteted. Zone or room product parameters are not resetted.

#### **Modbus TCP settings**

- "Modbus TCP approved client IP address" together with "Modbus TCP approved client netmask", limits which IP or IP's that are allowed to connect with Modbus TCP to Super WISE (default 0.0.0.0).
- "Modbus TCP approved client netmask" together with "Modbus TCP approved client IP address", limits which IP/IP's that are allowed to connect with Modbus TCP to Super WISE (default 0.0.0.0).
- "Modbus portnumber" displays which port number Super WISE is set to scan for Modbus TCP communication (default 502).
- "Modbus TCP ID" displays the Modbus TCP ID of the Super WISE.

#### **WISE Apartment**

This function activates the Super WISE for Swegon's apartmen system. This system is not compatible with the normal zone and room functions, it is a completely independent system.

#### **Power failure**

After a power failure all controllers restarts. On older zone dampers, prior version 0:54, they must be initiated through force scan to find the room products again, this happens automatically after the selected time. If time is set to 0, the initiation must be done manually. For CONTROL regulators and router from version 0:54, an automatic scan will take place on startup.

User     TCP/IP     E-mail     Links     Misc       Modbus RTU/EXOline settings     Modbus     Modbus     Reset device list       Protocol     Modbus     Reset device list     Reset device list       Baudrate     9.6 KBaud     Reset device list     Reset device list       Parity     None     Scan time     Force scan       Stopbits     1 stopbit     Force scan     Factory reset       BACnet IP settings     Modbus TCP settings     Modbus TCP approved client IP       Device ID     0     Modbus TCP approved client IP       Portnumber     47808     Modbus TCP ID	SW Upgrade MMC Reset 100.00%
Modbus RTU/EXOline settings       WISE network devices         Protocol       Modbus         Baudrate       9.6 KBaud         Parity       None         Stopbits       1 stopbit         Modbus ID/EXOline PLA       1         EXOline ELA       0         BACnet IP settings       Inactive         BACnet IP       Inactive         Device ID       0         Portnumber       47808	Reset 100.00%
Protocol     Modbus     Reset device list       Baudrate     9.6 KBaud     Room controller scan setti       Parity     None     Stopbits       Stopbits     1 stopbit     Scan time       Modbus ID/EXOline PLA     1     Force scan       EXOline ELA     0     Factory reset       BACnet IP settings     Modbus TCP setttings       BACnet IP     Inactive     Modbus TCP approved client IP       Device ID     0     Modbus TCP approved client IP       Portnumber     47808     Modbus portnumber	Reset 100.00%
Baudrate       9.6 KBaud         Parity       None         Stopbits       1 stopbit         Modbus ID/EXOline PLA       1         EXOline ELA       0         BACnet IP settings       Modbus TCP settings         BACnet IP       Inactive         Device ID       0         Portnumber       47808	ings
Parity     None     None       Stopbits     1 stopbit       Modbus ID/EXOline PLA     1       EXOline ELA     0       BACnet IP settings     Modbus TCP settings       BACnet IP     Inactive       Device ID     0       Portnumber     47808       Modbus TCP ID     Modbus TCP ID	120min 1
Stopbits     1 stopbit       Modbus ID/EXOline PLA     1       EXOline ELA     0       BACnet IP settings     Modbus TCP settlings       BACnet IP     Inactive       Device ID     0       Portnumber     47808       Modbus TCP ID     Modbus TCP approved client IP	
Modbus ID/EXOline PLA     1     Force scaling       EXOline ELA     0     Factory reset       BACnet IP settings     Modbus TCP settlings       BACnet IP     Inactive       Device ID     0       Portnumber     47808       Modbus TCP ID     Modbus TCP approved client IP	Scan 100.00%
EXOline ELA     0     Factory reset       BACnet IP settings     Modbus TCP settings       BACnet IP     Inactive     Modbus TCP approved client IF       Device ID     0     Modbus TCP approved client IF       Portnumber     47808     Modbus portnumber	Court 100.00 %
BACnet IP settings     Modbus TCP settings       BACnet IP     Inactive       Device ID     0       Portnumber     47808       Modbus TCP approved client IP	Reset
BACnet IP     Inactive     Modbus TCP approved client IF       Device ID     0     Modbus TCP approved client In       Portnumber     47808     Modbus portnumber	
Device ID     0     Modbus TCP approved client n       Portnumber     47808     Modbus portnumber	Padress 0.0.0.0
Portnumber 47808 Modbus portnumber	etmask 0.0.0.0
Madhus TCP ID	502
Get active BACnet EDE file Get	1 1
Date and time settings Apartment solution WISE	
Date 24.6.2014 Apartment solution WISE syste	

Figure 36. Misc.



### 6.7.6 Admin – Software updating

On the software updating page, the user can see which software version the Super WISE contains. If a memory card containing a newer software version is inserted into the memory card reader, the system will indicate on the status line that an update is available. When an update is available, the user can update Super WISE by pressing on Start upgrading. When the system is to be updated, you must disconnect the network cord to COM5 as a measure to prevent conflicts. When the system is to be updated, you must disconnect the network cord to COM4 and COM5 as a measure to minimise conflicts. You must also stop the BACnet function. See section 6.7.5.

Sweg	oní					S	SuperWISE - Data recieved
Overview	Optimizer	Zone	Commissioning	g Alarms	Links	Log	Admin
User	TCP/IP		E-mail	Links	Misc	SW Upgrade	MMC
			Current version: Status:	PerWISE update The version available alread escan MMC	1.25 on MMC is y installed		

Figure 37. Software update.

### 6.7.7 Admin – MMC

If a memory card is installed, the user can remove, open or fetch files from the memory card to his or her computer on the memory card page. Manuals, etc. can be stored on the memory card so they will always be accessible. Log data can also be stored on the memory card if the memory card has been selected as the storage position location on the Log page. NOTE! The files and Log data cannot be read but are used only for presenting data on the log page.

To select: Delete / Open / Save, the user must right-hand click on the file.

Swego	on'					S	SuperWISE - Data recieved
Overview	Optimizer	Zone	Commissioning	Alarms	Links	Log	Admin
User	TCP/IP	E-mail	Links	6 - C.	Misc	SW Upgrade	MMC
innt immc immc imme superwise_v1 imme systemlog.txt imme version.crc	.25_jffs2_update.tar.gz :						

Figure 38. MMC.