

Atlas

User manual



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Preface

This manual is written for both **Atlas for Atlantis** (SCADA) and **Atlas in Avalon** (PLC).

These two versions are basically identical, but certain functions described may not be available in each version.

In these cases, the differences are clearly defined either in the title or text.

Getting started with Atlas

Starting Atlas from another computer

Start your web browser and enter the address

<u>http://xxx.xxx.xxx/AtlasWebstart/</u> (where xxx.xxx.xxx is the IP address of the server).

Enter your username and password. Click **Starta Atlas här** on the web page that opens to install and start Atlas on the computer.

	Skapa ny anslutning	•
IP-Adress:		
Namn:		
Användamamn:		
Lösenord:		
Info:		
	Använd SSL (Secure Sockets Layer)	
	Anslut automatiskt till denna anläggning	
	Spara Ta bort Atergå	

A log in dialog will be shown the first time Atlas is started.

See <u>Edit an existing site</u> for field descriptions.

A shortcut to Atlas is created in Program/Larmia Control AB.

Connections and Menus

Add, connect to or disconnect from a site

Click the site button to show a graphical summary of all the added sites.



Site summary

Click on a site to connect, edit or disconnect from the site.

lcon	Description	
Green icon	Connected site	
PC icon	Main Computer site	
PLC icon	Avalon site	

All the nearby PLC:s will be shown when connecting directly to an Avalon PLC (all the PLC:s on the same network).



Connect to a site



Select a site and click **Anslut**. If you're already connected to an Avalon PLC you can also connect to the other PLC:s at the site.

Disconnect from a site

Select Koppla ner anläggning to disconnect from a site select.

Add a new site

Select Lägg till ny anläggning in the menu to add a new site.

Edit an existing site

Click **Ändra...** to open the edit dialog.

	Skapa ny anslutning	⊗
IP-Adress:		
Namn:		
Användamamn:		
Lösenord:		
Info:		
	Använd SSL (Secure Sockets Layer)	
	Anslut automatiskt till denna anläggning	
Spara	a Ta bort Átergå	

Enter the following data:

Field	Translation	Description.
IP-Adress	IP address	IP address or DNS name. When the standard port 80 is not used for connecting to the server, the port number must be entered here (e.g. 192.168.1.10: 8080)
Namn	Name	Optional name for the site.
Användarnamn	Username	Username for logging in to the web server.
Lösenord	Password	Password for logging in to the web server. Please note that the password should be at least 10 characters or longer and contain both upper and lower case letters and numbers!
Info	-	Optional information text.
Använd SSL	Use SSL	Check if using SSL (secure communication).
Automatisk inloggning	Log in automatically	If checked, Atlas will automatically connect to the site upon start.

Atlas Menues

Main menu



lcon	Translation	Description
Inloggning	Log in/out	-
Larm	Alarm	Shows the alarm list, containing all alarms, for the site.
Händelser	Events	Shows the event list for the site.
System	-	Shows all the groups of the site

History



Use the forward/backward arrows to navigate between previous lists.

Meny



lcon	Translation	Description
Växla	Toggle	Show/hide the site navigator treeview.
Tid och Styr	Time and control	Shows all PLC:s in the system, and for each PLC you can navigate to its conditions, time schedules, regulators and layouts.
Behörighet	Permissions	Handles system permissions.
Inställningar	Settings	Client settings. Colors, fonts etc.
Sök	Search	Opens the search window.
Övervakare	Watcher	Opens the watcher window.
Fånga	Capture	Captures the current screen and saves to file.

Avalon menu

Only shown when connected to an Avalon PLC.

Disposition Ändra ID Uppdatera Inställningar Larm Admin Utforskaren				
lcon	Translation	Description		
Disposition	Layout Shows the PLC layout, including addressing			
information if using the Carbon I/		information if using the Carbon I/O system		
Ändra ID	Set ID Sets the ID number of the PLC.			
Uppdatera	ppdatera Update Updates the PLC with the latest control			
program.		program.		
Inställningar	Inställningar Settings Avalon specific settings. Set I/O syste			
or Carl		or Carbon), set IP address etc.		
Larm Admin	Alarm admin	dmin Configure the alarm handling.		
Utforskaren	Explorer	Starts the explorer (password required).		

Optimizer



A link to the Optimizer report view.

The clock menu

Conduct of	DUC 4	Lokaltid 14:21:32 torsdag 27 maj 2010
lcon	Translation	Description
Larmia logo	-	Displays the version of the Atlas client.
DUC X	Site icon (PLCx)	Edit or connect to sites.
Klocka	Clock	Opens the clock dialog. In Avalon PLC:s you can also set the clock from this dialog.

The help menu

Kom igång Online Tangentbord				
lcon	Translation	Description		
Kom igång	Getting started	Opens the "Gettings started"		
		document.		
Online	-	Opens the online help.		
Tangentbord	Keyboard	Opens the Atlas virtual keyboard		

Log in/out

Click the key icon to log in/out.

	Logga in/ut		8
Användaren Larmia är inloggad.			
Användarnamn:	Larmia	~	
Lösenord:			
Logga in Logga ut			

Log in

Enter/select username (Användarnamn) and password (Lösenord) and click Logga in.

Log out

Click **Logga ut** to log out. If a <u>Logged Out user</u> exists in the system, it will automatically log in.

See <u>Permissions</u> for more information.

Permissions

Create users and user groups

Open the permission dialog by clicking **Meny -> Behörighet** in the main menu.

	8
Behörighet Användare S Larmia	🧏 Skapa ny användare
Larmia Utloggning - DHC Användargrupper Administrator Drift Drift Drift avancerad	Skapa ny utloggad användare
	Radera
Jour	Ångra
	Avsluta

The dialog is used to create users with different permissions.

Create a new user by selecting the **Användare** node and then click **Skapa ny användare**.

Users

		Användare		8
Fömamn	admin			
Eftemamn				
Beskrivning			_	
E- Post				
Telefonnummer				
Mobilnummer				
Kvitteringssignatur				
Lö	senord	Bekräfta lös	enord	
Användargrupper				
Medle	em i		Ej medlem i	
Administrator			Drift Drift avancerad Jour	
			A	Spara Angra wsluta

Enter data about the user. First name, last name, password and user group are mandatory.

Click Spara to save, Ångra to cancel or Avsluta to exit the dialog.

_

Field	Translation
Förnamn	First name
Efternamn	Last name
Beskrivning	Description
E-Post	Email
Telefonnummer	Phone number
Mobilnummer	Cell phone number
Kvitteringssignatur	Acknowledgement signature
Lösenord	Password
Bekräfta lösenord	Confirm password
Användargrupper	User groups
Medlem i	Member of
Ej medlem i	Not member of

User groups

		Användargrupp	er	8
Namn Beskrivning Översiktsbild Markera a Lamkvittering V Klass 0 V Klass 1 V Klass 2 V Klass 3 V Klass 4 V Klass 5 V Klass 6	Administrator 46 allt	Manuell styming Ø Andra Börväde Ø Andra Börväde Ø Andra Manöver Ø Andra Manöver Ø Andra Manöver Ø Andra Mausvarumanöver Ø Andra Analog ut Forcering av objekt (Avalon) Atlas inställningar Ø Lamkonfiguration i Avalon Andra DUC-nummer Uppdatera Avalon Andra klocka i Avalon Ø Inställningar	Använd Kalle Lamia Utloggr Utloggr	Aare hing - Avalon hing - DHC
		 Utforskaren i Avalon Regulatorparametrar i Avalor 	ם ו	 Användarkonton Nollställ statistik
Områden Ø Åtkomst	till samtliga områd	len		
Åtkomst	G	Ej åtkomst A B C D E F G H I		Spara Angra Avsluta

This dialog sets the permissions of a user group. It is possible to restrict users to certain groups by selecting the accessible areas for that user. You can also assign which summary image to display when a user from a certain user group logs in.

Field	Translation
Namn	Name
Beskrivning	Description
Översiktsbild	Summary image
Användare	User
Markera allt	Select all
Larmkvittering	Alarm acknowledgement
Klass X	Class X
Manuell styrning	Manual control
Ändra börvärde	Change setpoint

Ändra manöver	Change maneuver
Ändra mjukvarumanöver	Change software maneuver
Ändra Analog ut	Change Analog Out
Forcering av objekt (Avalon)	Override object (Avalon)
Atlas inställningar	Atlas settings
Larmkonfiguration i Avalon	Alarm configuration in Avalon
Avalon inställningar	Avalon settings
Ändra DUC-nummer	Change PLC number (ID)
Uppdatera Avalon	Update Avalon
Ändra klockan i Avalon	Set the clock in Avalon
Inställningar	Settings
Utforskaren i Avalon	The Explorer in Avalon
Regulatorparametrar i Avalon	Regulator parameters in Avalon
Editering	Editing/programming
Tidkanaler (Alla)	Time schedules (All)
Datumstyrning (Alla)	Date schedules (All)
Kalender (Atlantis)	Calendar (Atlantis)
Kurvobiekt, Brytpunkter (Alla)	Curve objects, Breakpoints (All)
Kurvobjekt, Parallellförskjutning	Curve objects, Parallel
Kurvobjekt, Parallellförskjutning (Alla)	Curve objects, Parallel displacement/offset (All)
Kurvobjekt, Parallellförskjutning (Alla) Bildeditering (Atlantis)	Curve objects, Parallel displacement/offset (All) Image editing (Atlantis)
Kurvobjekt, Parallellförskjutning (Alla) Bildeditering (Atlantis) Anteckningar (Atlantis)	Curve objects, Parallel displacement/offset (All) Image editing (Atlantis) Notes (Atlantis)
Kurvobjekt, Parallellförskjutning (Alla) Bildeditering (Atlantis) Anteckningar (Atlantis) Ladda DUC	Curve objects, Parallel displacement/offset (All) Image editing (Atlantis) Notes (Atlantis) Load PLC
Kurvobjekt, Parallellförskjutning (Alla) Bildeditering (Atlantis) Anteckningar (Atlantis) Ladda DUC Editering (Atlantis)	Curve objects, Parallel displacement/offset (All) Image editing (Atlantis) Notes (Atlantis) Load PLC Editing (Atlantis)
Kurvobjekt, Parallellförskjutning (Alla) Bildeditering (Atlantis) Anteckningar (Atlantis) Ladda DUC Editering (Atlantis) Optimizer (Atlantis)	Curve objects, Parallel displacement/offset (All) Image editing (Atlantis) Notes (Atlantis) Load PLC Editing (Atlantis) Optimizer (Atlantis)
Kurvobjekt, Parallellförskjutning (Alla) Bildeditering (Atlantis) Anteckningar (Atlantis) Ladda DUC Editering (Atlantis) Optimizer (Atlantis) Simulering (Atlantis)	Curve objects, Parallel displacement/offset (All) Image editing (Atlantis) Notes (Atlantis) Load PLC Editing (Atlantis) Optimizer (Atlantis) Simulation (Atlantis)
Kurvobjekt, Parallellförskjutning (Alla) Bildeditering (Atlantis) Anteckningar (Atlantis) Ladda DUC Editering (Atlantis) Optimizer (Atlantis) Simulering (Atlantis) Övervakaren (Atlas)	Curve objects, Parallel displacement/offset (All) Image editing (Atlantis) Notes (Atlantis) Load PLC Editing (Atlantis) Optimizer (Atlantis) Simulation (Atlantis) The watcher (Atlas)
Kurvobjekt, Parallellförskjutning (Alla) Bildeditering (Atlantis) Anteckningar (Atlantis) Ladda DUC Editering (Atlantis) Optimizer (Atlantis) Simulering (Atlantis) Övervakaren (Atlas) Konfiguration (Atlantis)	Curve objects, Parallel displacement/offset (All) Image editing (Atlantis) Notes (Atlantis) Load PLC Editing (Atlantis) Optimizer (Atlantis) Simulation (Atlantis) The watcher (Atlas) Configuration (Atlantis)
Kurvobjekt, Parallellförskjutning (Alla) Bildeditering (Atlantis) Anteckningar (Atlantis) Ladda DUC Editering (Atlantis) Optimizer (Atlantis) Simulering (Atlantis) Övervakaren (Atlas) Konfiguration (Atlantis) Kontrollpanel (Atlantis)	Curve objects, Parallel displacement/offset (All) Image editing (Atlantis) Notes (Atlantis) Load PLC Editing (Atlantis) Optimizer (Atlantis) Simulation (Atlantis) The watcher (Atlas) Configuration (Atlantis) Control panel (Atlantis)
Kurvobjekt, Parallellförskjutning (Alla) Bildeditering (Atlantis) Anteckningar (Atlantis) Ladda DUC Editering (Atlantis) Optimizer (Atlantis) Simulering (Atlantis) Övervakaren (Atlantis) Konfiguration (Atlantis) Färgscheman (Atlantis)	Curve objects, Parallel displacement/offset (All) Image editing (Atlantis) Notes (Atlantis) Load PLC Editing (Atlantis) Optimizer (Atlantis) Simulation (Atlantis) The watcher (Atlas) Configuration (Atlantis) Control panel (Atlantis) Color schemes (Atlantis)
Kurvobjekt, Parallellförskjutning (Alla) Bildeditering (Atlantis) Anteckningar (Atlantis) Ladda DUC Editering (Atlantis) Optimizer (Atlantis) Simulering (Atlantis) Övervakaren (Atlas) Konfiguration (Atlantis) Kontrollpanel (Atlantis) Färgscheman (Atlantis) Användarkonton	Curve objects, Parallel displacement/offset (All) Image editing (Atlantis) Notes (Atlantis) Load PLC Editing (Atlantis) Optimizer (Atlantis) Simulation (Atlantis) The watcher (Atlas) Configuration (Atlantis) Control panel (Atlantis) Color schemes (Atlantis) User accounts
Kurvobjekt, Parallellförskjutning (Alla) Bildeditering (Atlantis) Anteckningar (Atlantis) Ladda DUC Editering (Atlantis) Optimizer (Atlantis) Optimizer (Atlantis) Simulering (Atlantis) Övervakaren (Atlantis) Konfiguration (Atlantis) Kontrollpanel (Atlantis) Färgscheman (Atlantis) Användarkonton Nollställ statistik	Curve objects, Parallel displacement/offset (All) Image editing (Atlantis) Notes (Atlantis) Load PLC Editing (Atlantis) Optimizer (Atlantis) Simulation (Atlantis) The watcher (Atlas) Configuration (Atlantis) Control panel (Atlantis) Color schemes (Atlantis) User accounts Reset statistics
Kurvobjekt, Parallellförskjutning (Alla) Bildeditering (Atlantis) Anteckningar (Atlantis) Ladda DUC Editering (Atlantis) Optimizer (Atlantis) Optimizer (Atlantis) Simulering (Atlantis) Övervakaren (Atlantis) Konfiguration (Atlantis) Kontrollpanel (Atlantis) Färgscheman (Atlantis) Användarkonton Nollställ statistik Områden	Curve objects, Parallel displacement/offset (All) Image editing (Atlantis) Notes (Atlantis) Load PLC Editing (Atlantis) Optimizer (Atlantis) Simulation (Atlantis) The watcher (Atlas) Configuration (Atlantis) Control panel (Atlantis) Color schemes (Atlantis) User accounts Reset statistics Areas
Kurvobjekt, Parallellförskjutning (Alla) Bildeditering (Atlantis) Anteckningar (Atlantis) Ladda DUC Editering (Atlantis) Optimizer (Atlantis) Optimizer (Atlantis) Simulering (Atlantis) Övervakaren (Atlantis) Konfiguration (Atlantis) Kontrollpanel (Atlantis) Färgscheman (Atlantis) Färgscheman (Atlantis) Användarkonton Nollställ statistik Områden Åtkomst till samtliga områden	Curve objects, Parallel displacement/offset (All) Image editing (Atlantis) Notes (Atlantis) Load PLC Editing (Atlantis) Optimizer (Atlantis) Simulation (Atlantis) The watcher (Atlas) Configuration (Atlantis) Control panel (Atlantis) Color schemes (Atlantis) User accounts Reset statistics Areas Access to all areas
Kurvobjekt, Parallellförskjutning (Alla) Bildeditering (Atlantis) Anteckningar (Atlantis) Ladda DUC Editering (Atlantis) Optimizer (Atlantis) Optimizer (Atlantis) Simulering (Atlantis) Övervakaren (Atlantis) Konfiguration (Atlantis) Kontrollpanel (Atlantis) Färgscheman (Atlantis) Färgscheman (Atlantis) Användarkonton Nollställ statistik Områden Åtkomst till samtliga områden Åtkomst	Curve objects, Parallel displacement/offset (All) Image editing (Atlantis) Notes (Atlantis) Load PLC Editing (Atlantis) Optimizer (Atlantis) Simulation (Atlantis) The watcher (Atlas) Configuration (Atlantis) Control panel (Atlantis) Color schemes (Atlantis) User accounts Reset statistics Areas Access to all areas Access

The Logged Out user



A Logged Out user is basically a regular user. The exceptions are that you can only assign its user group and that the user is automatically logged in when Atlas logs another user out.

There are two types of Logged Out users; one for the Main Computer and another for the Avalon PLC:s. Atlas will perform a "total log out" (i.e. no access at all) if there aren't any Logged Out users configured.

The settings for automatic log out are accessible from **Meny -> Inställningar -** > **Huvudinställningar -> Automatisk utloggning**.

Group display



Show the group list by clicking **System- > Textvisning**.

The group list also shows all PLC:s, and for each PLC you can navigate to its conditions, time schedules, regulators and layouts.

Image mode



Image mode is used to represent a group by displaying a process image containing dynamic texts and symbols. Click on a text or symbol to display more information about an object.

Click **Text** to show the group in text mode.

Adjusting size



The default setting in Atlas is to automatically autosize the displayed images (labeled **Autostorlek**).

However, sometimes Atlas fails to recognize the optimal size of an image because they are drawn in different resolutions. If the image is not displayed correctly when using the autosize feature you can adjust the size manually.

This setting is saved automatically.

Text mode



The text mode shows a list of all the objects in a group.

If there are documents linked to the selected group they will be shown in the **Dokument** menu.



The text mode lets you select different fields (object properties) to represent the different columns by clicking on the arrow button for the specific column. There are different fields available to choose from depending on the type of list currently shown (alarm list, event list, group list etc.). The table below shows all available properties from the group view:

Property	Translation
Gruppnamn	Group name
Objektnamn	Object name
Status	-
Läge	Mode
Larmklass	Alarm class
Sorteringsnummer	Sorting number
Adress	Address
Тур	Туре
Anläggningsnummer	Site number
Lysdiod	LED
Objektnummer	Object number
Till text	On text
Från text	Off text
Fördröjning	Delay

Objektnamn 🕕 🕔	Status 🔹 🖲	Läge 💽 Larmklass 🇊	
AGGREGATSTART	START	AUTO:TILL	Gruppnamn
CP01 CIRKULATIONSPUMP		MAN:TILL	Obiektnamn
TF01 TILLUFTSFLÄKT	START(DRIFT)	AUTO:N93 Klass:B	Statuc
FF01 FRÅNLUFTSFLÄKT	START(DRIFT)	AUTO:N93 Klass:B	Status
ST23A-B SPJÄLLSTÄLLDON		MAN:TILL	Läge
ST24A-C BRANDSPJÄLL	STÄNG	MAN:TILL	Larmklass
FF01 FRÅNLUFTSFLÄKT	DRIFT		Sorteringsnummer
TF01 TILLUFTSFLÄKT	DRIFT		Adress
ST23A-B SPJÄLLSTÄLLDON	ÖPPET		Typ
SO01 SERVICEOMKOPPLARE	AUTO		Apläggpingspummer
			Anaggningshummer
ST24A-C BRANDSPJÄLL_IS	STÄNGT		Lysdiod
			Objektnummer
			Till text
GT11 TILLUFTSGIVARE	34.0 °C		Från text
GT41 MÄTGIVARE TILLUFT EFT. VX	17.8 °C		Fördröjning
GT42 MÄTGIVARE FRÅNLUFT FÖR.VX	21.8 °C		

This type of view is very useful when you need to find all calibrated objects in an Avalon PLC.

Open the search window (labeled **Sök**) and search for all analog in objects and then select the **Kalibrering** property for one of the columns.

You can also sort the list by a specific field by clicking on the column header.

Objektnamn 🔋	Status
AGGREGATSTART	START
CP01 CIRKULATIONSPUMP	STOPP
DYGNSMEDELTEMPERATUR	11.7 °C
DYGNSMEDELTEMPERATUR BÖRVÄRDE	10 °C
DYGNSMEDELTEMPERATUR FÖRDR.	1.0 dag
FF01 FRÅNLUFTSFLÄKT	DRIFT
FF01 FRÅNLUFTSFLÄKT	START(DRIFT)
FRYSVAKTÅTERSTÄLLNING	Normal
GP41 BÖRVÄRDE DRIFTIND.	50 Pa
GP41 BÖRVÄRDE LÅGT TRYCK	100 Pa
GP41 LÅGT TRYCK	Normal
GP41 MÄTGIVARE TRYCK TILLUFT	1000 Pa
GP42 BÖRVÄRDE DRIFTIND.	50 Pa
GP42 BÖRVÄRDE LÅGT TRYCK	100 Pa
GP42 LÅGT TRYCK	Normal

Alarm list



Click the alarm icon (labeled **Larm**) to show a list of all existing alarms in the system.

The list is updated dynamically and the alarms are sorted by priority. The alarm list button dynamically displays the highest alarm class of all unacknowledged alarms in the list. This function provides a quick overview of when new alarms occur, and what priority they are.

The alarm list can also show all objects that are in manual mode by clicking the **Manuella** button. There are also lists for Object Errors (**Objektfel**) and Overridden Objects (**Forcerade**).

Using alarm class filters

Enable the alarm class filter by selecting **Meny -> Inställningar -> Lista (Larm)** -> **Aktivera larmklassfilter**.

Seven checkboxes will be displayed in the alarm list when the alarm class filter is enabled. Select the individual alarm classes to display them in the alarm list, filtering out the unselected classes.



Events

		_		
Danne Larm Händelser	System -	Meny Analys	축 Constant Demo La	Servertid 09:10:05 rmia onsdag 5 maj 2010
Datum 2010-04-29 🛛 🖉 🚹	💽 Sida 🕜 🤇	Händelselista Sys	stemet: Demo Larmia	Filtrering
Datum 🗊 Gruppnamn 🔅) Objektnamn	Händelse	🕕 Larmklass 🧃	
2010-04-16 14:57:14 DUCINFO	GIVARFEL DUC2	Normal	Klass:B	Larmklasser
2010-04-16 14:58:24 DUCINFO	GIVARFEL DUC2	GIVARFEL		V Alla
2010-04-16 15:43:14 DUCINFO	GIVARFEL DUC2	Normal	Klass:B	
2010-04-16 15:44:24 DUCINFO				
2010-04-16 15:47:01 DUCINFO				V B
2010-04-16 15:49:41 DUCINFO				l ∠ C
2010-04-26 11:26:57 USER		inloggad		✓ D
2010-04-28 12:28:59 USER		inloggad		√ E
2010-04-29 11:17:38 CARBON 01-03 CDO				V E
2010-04-29 11:17:39 CARBON 01-03 CDO	CDO 02-08	TILL		
2010-04-29 11:17:49 CARBON 01-03 CDO				
2010-04-29 11:17:49 CARBON 01-03 CDO	CDO 03-01			Larmstatus
2010-04-29 11:17:50 CARBON 01-03 CDO	CDO 03-06			✓ Aktiverat
2010-04-29 11:17:50 CARBON 01-03 CDO	CDO 03-07	FRAN		
2010-04-29 11:17:50 CARBON 01-03 CDO	CDO 03-08	FRĂN		16 dittaunt
2010-04-29 11:17:50 CARBON 01-03 CDO	CDO 03-05	FRĂN		
2010-04-29 11:17:50 CARBON 01-03 CDO	CDO 03-03	FRĂN		Övrigt
2010-04-29 11:17:50 CARBON 01-03 CDO	CDO 03-04	FRAN		Manövrar
2010-04-29 11:17:51 CARBON 01-03 CDO	CDO 03-03	TILL		/ Indikoring
2010-04-29 11:17:51 CARBON 01-03 CD0	CDO 03-04	TILL		Indikering
2010-04-29 11:17:51 CARBON 01-03 CDO	CDO 03-01	TILL		🗸 Login
2010-04-29 11:17:51 CARBON 01-03 CDO	CDO 03-02	TILL		V Manuell
2010-04-29 11:17:51 CARBON 01-03 CDO	CDO 03-07	TTU		Andrad data
2010-04-29 11:17:51 CARBON 01-03 CDO	CDO 03-05	TILL		
2010-04-29 11:17:51 CARBON 01-03 CDO	CDO 03-05	TILL		DUC data
2010-04-29 11:18:27 CARBON 01-03 CDO	CDO 02-05	TILL		Senaste
2010-04-29 11:18:27 CARBON 01-03 CDO	CDO 02-06	TILL		
2010-04-29 11:18:27 CARBON 01-03 CDO	CDO 02-07	TILL		
				Filtrera

Click Händelser in the main menu to show the event list.

The event list shows all events in chronological order, with the most recent event at the bottom of the list.

The filter menu to the right can be used to, for example, only display alarm events. Select the type of events you are interested of and click **Filtrera**.

Use the arrows to browse between pages or dates in the event list.

To only see events from a specific group: navigate to the group and select **Händelser** from the group menu.

To only see events from a specific object: select the object and select **Historik -> Visa Händelser** in the object dialog.

Trends

💇 Historik 🗸 🕎 Statistik	•
Visa Log	
Visa Händelser	

Visualizing objects using trend charts provides an easy and comprehensive view over the events and regulations the object is involved in.

It also provides a fast and easy way to troubleshoot the regulation as it is possible to zoom in/out on different times.

In Atlas there are two ways of displaying trend charts for objects:

- Single trend charts containing the data from one object.
- Trend groups containing the data from multiple objects.

Click **Historik -> Visa log** in the object dialog to display the trend chart for a single object.

The trend chart visualizes how the value of an object has oscillated during the time period indicated by the time axis (X-axis). The range of the time axis is displayed at the bottom of the chart, with gridlines for each tick.

The value range of the object is displayed to the left of the chart and the value at the current cursor position is displayed at the bottom left. The cursor value is a great help when having difficulties reading a precise value using only the grid.

The chart area sometimes displays a white rectangle, indicating what time interval to show when zooming in.

This zoom mode has fixed intervals:

- 10 seconds
- 10 minutes
- One hour
- One day
- One week
- One month
- One year

Use the **Zoom Ut** (Zoom out) and **Zoom In** buttons to change the date interval.



Manual zoom

Use the manual zoom feature to for more precise date intervals.

Select a starting position and drag a rectangle as shown in the image below.



Gradient chart

Not available in Avalon PLC:s.

Shows color-coded trend data.



Clock chart for pulse objects

Displays pulse values as a clock.

The maximum trend representation/resolution for one object is one week. For multiple objects (trend groups) only daily representation/resolution is possible.



Trend groups

A trend group is a collection of object displayed in the same trend chart. Trend groups are stored under each system group.

Create a new trend group by first entering/selecting the desired system group and then selecting **<Lägg till ny...>** (Add new) in the listbox labeled **<Välj trendgrupp...>** (Select trend group).



Add an object by clicking on it in the list to the left.

Remove an object by selecting it in the list to the right and then click(ing) **Ta bort markerat objekt** (Remove selected object).

Click **Ta bort trendgrupp** (Remove trend group) to remove the entire trend group.

Click **Spara** to save the trend group.

Show trend group charts by selecting a group in the **<Välj trendgrupp...>** (Select trend group) listbox.

Analog in



Analog in objects represent measured temperatures, pressure, moisture etc. Analog in objects can also have alarm limits such as high or low limits.

The object is displayed with different colors depending on its current alarm status:

Status	Color
Normal	Solid yellow
Unacknowledged active alarm	Blinking red and yellow
Acknowledged alarm	Solid red
Unacknowledged cancelled alarm	Blinking yellow and gray

The trend chart for an object can be displayed by clicking **Historik -> Visa** Log.

Analog out/Setpoints



Analog out objects represent control valves, actuators, frequency converters etc. This object type can also be used as setpoints, limit values etc.

When the object is in auto mode it is controlled by its programmed function, but the object can also be put in manual control (the automatic controlling is then disengaged).

Set a manual value by entering a value in the text field and clicking MAN.

Return the object to Auto Mode by clicking AUTO.

The button to the right of the **AUTO** button displays the function that controls the object in auto mode.

The trend chart for an object can be displayed by clicking **Historik** -> **Visa Log**.

Indication



Indication objects represent operation modes, pump statuses and occupancy sensors etc.

Maneuver



Maneuver objects represent fan control, pump control, the overall control for entire units etc.

When the object is in auto mode it is controlled by its programmed function, but the object can also be put in manual control (the automatic controlling is then disengaged).

Set a manual value by clicking **TILL** (On) eller **FRÅN** (Off). The button text may vary depending on the programmed function of the maneuver object.

Click AUTO to return to Auto Mode.

The button to the right of the **AUTO** button displays the function that controls the object in auto mode.

Alarm

Utlö	st brandlarm BLC			×	<
	Larm!			2	
	AS03	KVITT	rera		
Larm	ID:4358	Klass:A		AVALON 003-003	-7
O Histor	ik 🔹 🕎 Statistik	🗕 🧳 Manue	ell 🗸		

Alarm objects display the current alarm status.

The object is displayed with different colors depending on its status:

Status	Color
Normal	Solid white
Unacknowledged active alarm	Blinking red and white
Acknowledged alarm	Solid red
Unacknowledged cancelled alarm	Blinking red and gray

An acknowledge button (**KVITTERA**) is shown if the alarm object is unacknowledged.

Curve



Curve objects are used to calculate the relationship to another object according to a given curve.

Click **Editera** to enter edit mode. Adjust the curve by dragging the breakpoints or by selecting a breakpoint and entering a value.

The curve can be parallel displaced (parallel offset) by entering the desired value in the **Parallellförskjutning** textbox.

The yellow circle indicates the current value.

Save the new settings by clicking **Spara**.

The changes will automatically be uploaded to the Main Computer when a curve object is edited in an Avalon PLC.



Pulse objects represent consumption values from water or energy meters etc.

The trend chart for an object can be displayed by clicking **Historik -> Visa Log**.

Regulator



This dialog displays the current status of the regulator, the actual value, the setpoint and the regulator outputs. Heating stages are shown in red and cooling stages are shown in blue.

Change the setpoint by clicking the setpoint bar (labeled Bör:).

You can also adjust the regulator parameters by clicking on a parameter and entering the new value. Click **Enter** to save the parameters.

Parameter	Translation
LOOP TID	Loop time
P-VERKAN	P-band
D-VERKAN	D-band
DÖDZON	Deadband



Time schedules and date schedules

Time schedules

A time schedule contains a weekly program for, for example, when to run an air handling unit. Time schedules can be displayed in normal mode or edit mode.



The weekly program for the time schedule is shown in normal mode. The different times are color-coded depending on the day type (normal day, eve, holiday or special day).

Browse between weeks using the arrow buttons.

The current time is shown as a yellow circle.

Click Editera to access the edit mode.

Edit mode



The edit mode is used to add, remove or edit times in the time schedule.

Click **Spara** to save the time schedule. If the time schedule is located in a PLC you will be prompted whether to reload the PLC now or later.

Edit a time by dragging its time field or by selecting a time and clicking **Ändra** tid.

Edit/Add time

Tid (hh:mm)
✓ 06:02
Tid (hh:mm)
- 19:00
Verkställ
Ta bort
Avbryt

I detta fönster skriver man in en start och en stopp tid på hur tidkanalen skall gå.

For example:

The time schedule is intended to run from Monday 00:00 to Wednesday 13:00.

Select Måndag (Monday) as start day and enter 00:00 in the time field.

Select Onsdag (Wednesday) as stop day an enter 13:00 in the time field.

Select **Hela dagen** (All day) to run the time schedule for the entire selected start day (no stop day or stop time can then be selected).

Click Verkställ to add the new time schedule.

Date schedules

This function is only available in Avalon PLC:s.

It is also possible to add special date schedules during certain days in the time schedules.

Click **Datumstyrning** when in edit mode for the time schedules to access the date schedules.



Click Lägg till to add a new schedule. In the next dialog you enter the start date (and time) and the stop date (and time) for the schedule. You also specify whether the connected time schedule is to be on (TILL) or off (FRÅN) during the selected period.

Use the value field (**Värde**) to output a specific value instead. The value can then be connected to, for example, a setpoint used by a regulator to customize the control for a specific date.

Exporting the date schedule list

It is possible to export all date schedules to another time schedule in the same PLC.



Conditions

LB01 TEMP. KL.05.00		× ?	
DUC2 VILLKOR Villkor ID:376 Statistik • Statistik •	INSTÄLLNINGAR	DUC:2 Villkor:10	
Namn: LB01 TEMP. KL.05.00		DUC:2 Villkor:10	?
A Konstant		TIMME	14
B GT33N UTEGIVARE	5.5 °C	N109	5.5
С			
D			
E			
F			
G			
Н			
ALT(A=5,B,V0)			

This dialog shows a condition including its inputs and expression.

Values that cannot be calculated are shown as N/A.

The output/result of a condition can only be shown when presenting conditions in an Avalon PLC or Main Computer.

Search



Use the search window to search for parts of the system, for example finding all temperature sensors.

Enter the search text and click **Sök**. The different search alternatives can be combined.

The number of search results and the search time will be shown after a search is completed.

The list will not be automatically updated if it contains more than 1000 objects.

Field	Translation	Description
Objektnummer	Object number	Search for an object with a specific object number.
Objektnamn	Object name	Search using a part of the object name.
Status	Status	Search for objects with a specific status.
Adress	Address	Search using a part of the address.
Objekttyp	Object type	Search for objects of a specific type (analog in, curve etc.).
Manuella lägen	Objects in manual mode	Find objects in manual mode.
Forcerade objekt	Overridden objects	Find overridden objects.

Overriding

Overriding object is only possible in Avalon PLC:s.

Overriding can be useful when commissioning, as it lets you test different modes of operation. It can also be useful to override faulty sensors.

Select Manuell -> Forcering to open the override dialog.

۶	Manuell 👻	
	Forcering)

The override dialog for analog in objects, conditions, curves and regulators:

Forcera objekt	•
AUTO	
MAN	

The override dialog for alarms, indications and time schedules:

Forcera objekt	€
MAN TILL MAN FRÂN	
AUTO	

You will be prompted to confirm the overriding action. Click **OK** to override or **Avbryt** to cancel.



Overridden objects are marked with the text **FORCERAD** in red.



The alarm list has a function for showing all overridden objects. *See <u>Alarm list</u> for more information.*

Displays the statistics for objects.

Reset the statistics by opening the statistics window and then clicking **Nollställ statistic** (Reset statistics).

Available statistics for alarm-capable objects (alarms, analog in and maneuver):

Field	Translation
Senaste larm	Latest alarm
Senaste återgång	Latest alarm cancellation
Total larmtid	Total alarm time
Antal larm	Number of alarms

Available statistics for runtime objects (maneuver, indication and time schedules):

Field	Translation
Senaste tillslag	Latest switch on
Senaste frånslag	Latest switch off
Drifttid	Total runtime
Antal tillslag	Number of switches

Available statistics for analog objects (analog in, analog out, curve and pulse):

Field	Translation
Medelvärde	Mean value
Förbrukning	Consumption



Utlöst bran	dlarm BLC		x	
Lar	m!		?	
AS	03	KVITTERA		
Larm	D:4358	Klass:A	AVALON 003-003-7	
Senaste larm: Senaste återgång:	2010-05-18 1	2:44:00		
Total larmtid:	146h 40min 1	15sek		
Antal larm:	0			
Senaste återställning: 2010-05-18 12:43:56				
💇 Historik 🗸 🔇	🖉 Statistik 👻 🤞	Manuell 🗸		

Calibration

Calibration can only be performed on Pulse and Analog In objects that are connected through hardware to a/an Avalon PLC.

۶	Manuell 👻	
	Kalibrering	
	Forcering	

Open the object window and click Manuell -> Kalibrering.



Enter the calibration value and click Enter.

Time and control

Display modes

Click Meny -> Tid och Styr to display the PLC summary.

The summary displays all the PLC:s in the system, the Main Computer, conditions and time schedules.



Click on a PLC or Main Computer and select one of the following options:



Option	Translation	Description
Visa DUC-	Show PLC layout	Displays a layout image of the PLC
disposition		with all inputs and outputs.
		PLEASE NOTE! The PLC layout is also
		used for addressing modules if the
		PLC is an Avalon with the Carbon
		module system. When viewing an
		Avalon with Carbon from the Main
		Computer, the layout is simulated
		after editing is completed.
Visa regulatorer	Show regulators	Show all regulators.
Visa tidkanaler	Show time	Show all time schedules.
	schedules	
Visa villkor	Show conditions	Show all conditions.

Module presentation

Carbon modules



Open this dialog by clicking **DUCx** (where **x** is the PLC number) in the group list or by clicking the **Tid och Styr** button. Display the group list by clicking the **System** button.

Click Editera to display all unaddressed modules (not having a Modbus ID).

To program the address into a module, simply drag the module onto the correct position on the DIN rail.

<u>PLEASE NOTE!</u> Perform a thorough check to ascertain that all modules are correctly placed. Compare the ID of the physical module with the ID on the screen.

The LED on the Carbon module can be in one of the following states:

LED	Description
Solid red	Not addressed.
Blinking red	Addressed but not communicating.
Blinking green	Communication OK.
	PLEASE NOTE! When using only a few modules, the
	blinking frequency is very high and the LED may appear
	as solid green.

Check that no module is solid red or blinking red after being deployed.

You can check that all objects are connected to the hardware by showing the alarm list and clicking **Objektfel**.

This list shows all objects with communication errors or sensor errors.



Click **Visa som lista** to show addressing information. The list displays addressing and communication information for each module.

Field	Translation	Description
Modbus-ID	Modbus ID	The address of the module. The address must be unique. Several modules with the same ID will result in a conflict.
Modul-ID	Module ID	The same ID as presented on the sticker on the frontside of the physical module. <u>PLEASE NOTE!</u> Make sure to place each Module ID on its correct place when addressing.
Modul	Module	The type of module.
Meddelanden	Messages	The number of messages sent to/received from an Avalon.
Inget Svar	No answer	The number of times the Avalon has tried to establish contact with the module but without getting an answer.
Undantagsfel	Exceptions (errors)	Avalon is communicating with the module but there are errors (wrong module type at the wrong location etc.).

ratistik DUC Carbon: 002 Moduler 1 - 12 🚽 🌐 Visa Disp. 🕥 Uppdatera						
Ej adres	sserade C	arbon-mod	luler: 1/11. A	dresserad	le Carbon-m	oduler: 10/15
Modbus-ID	Modul-ID	Modul-Typ	Meddelanden	💿 Inget Svar	Undantagsfel	•
1	AA01	CDO 81-X	23634	64	0	
3	AA02	CDO 81-X	2278	102		
2	AA03	CDO 81-X	2283	99		
4						
8						
9						
10	AA13	CAI 84-X	23502	197		
0	AA17	CAI 82-X	23499	201		
7						
6						
5						

LS920 modules



If the PLC is a LS920 or an Avalon with the LS920 module system, the view will display all used modules.

Avalon - Settings

			3
Avalon hårdvara			
Carbon m	oduler		
Port	COM2:	•	
Baud rate	9600 -	•	
✓ LS920 m	odulbärare		
Port	COM1: -	✓ Rensa DUC	
		Starta om tjänsten]
	Spara Avbr	Andra ipadress	

Use the Avalon Settings dialog to select the hardware system connected to the PLC.

Select **Carbon** or **LS920** and the specific COM port used. Click **Spara** to save the settings.

Clear the PLC

Click **Rensa DUC** to erase the editing (program), images and history in the PLC.

Change IP address

	Ändra ipadress	8
Nätverkskort 1: [00000012] Realtek RTL8	3168C(P)/8111C(P) PCI-E Gigabit Eth	nernet NIC
IP-adress:	192.168.3.68	
Nätmask:	255.255.255.0	
Standard-gateway:	192.168.3.1	
Önskad DNS-server:	212.37.0.42	
Alternativ DNS-server:		
Nätverkskort 2:		
IP-adress:		
Nätmask:		
Standard-gateway:		
Önskad DNS-server:		
Alternativ DNS-server:		
		Spara
		Stäng

Click Ändra ipadress to change the IP address of the Avalon PLC.

<u>PLEASE NOTE!</u> The Avalon will be restarted when the settings are saved (after clicking **Spara**).

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Settings

Personal standard		
Användare Användare Bildvisning Felsökning Huvudinställningar Lista (Alla) Lista (Alla) Lista (Alla) Lista (Händelser) Lista (Larm) Lista (Objekt) Meny Objektfärger Skärmsläckare Systemfönster Trend Aerstäl til standard Uppdatera bildtabell Hämta all bilder på nytt		\mathbf{S}
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 Meny Objektfärger Skärmsläckare Systemfönster Trend 	🗉 Lista (Objekt)	
 Bigentfärger Bigentfärger Skärmsläckare Systemfönster Trend 	🗉 Meny	
 B Skärmsläckare Systemfönster Trend Aterställ till standard Uppdatera bildtabell Hämta all bilder på nytt 	🗉 Objektfärger	
Systemfönster Trend Aterställ till standard Uppdatera bildtabell Hämta all bilder på nytt	🗉 Skärmsläckare	
Trend Aterställ till standard Uppdatera bildtabell Hämta all bilder på nytt	🗉 Systemfönster	
Áterställ till standard Uppdatera bildtabell Hämta all bilder på nytt	Trend	
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Users

Field	Translation	Description
Dölj	Hide the login	Hides the login name in the login
inloggningsnamn	name	dialog.

Image mode

Field	Translation	Description
Textstorlek i %	Text size in %	A global setting of the text size in the image mode.
Visar manuella lägen		Mark all objects in manual mode in the image mode.

Troubleshooting/debugging

Field	Translation	Description
Visa detaljerad information	Show detailed information	Show detailed debug information in the watcher window.
Visa felmeddelanden	Show error messages	Show error messages from the server in the watcher window.

Main settings

Field	Translation	Description
Automatisk utloggning	Automatic logout	Automatically logs out after the set time.
Klientmiljö	Client environment	PC or Avalon. Changes the graphical layout depending on the selected environment.
Kontroller i minnet	Controls in memory	The number of graphical control to retain in memory. Use the arrows in the main menu to browse forward or backward.
Lägg till Demo	Add Demo site	Adds the Larmia Demo site to the site menu.
Spinner position	Spinner position	Change the position of the spinner (the busy indicator).
Visa grupp som bild	Show group as image	Select false to force text mode when displaying groups.
Visa hjälpmenyn vid start	Show help menu on start	Show the help menu when disconnecting from a site.
Visa systemfönster	Show system window	When selected, the group display is always shown in the main window.
Översiktbild	Summary image	Displays a summary image when clicking the System button or logging in. This setting has a higher priority than the selected summary image for a user when connecting to an Avalon PLC.

Alarm

Field	Translation	Description
Aktivera blink	Enable blinking	Enables blinking on unacknowledged alarms.
Aktivera extratext	Enable extra text	Displays extra text information (if it exists) for active alarms.
Larmljud	Alarm sound	Activate the alarm sound when alarms are activated.
Visa grupp vid Iarm	Show group at active alarm.	Automatically displays the group of the active alarm object.
Visa objekt vid larm	Show object at active alarm.	Automatically displays the active alarm object.

List (All)

Field	Translation	Description
Font lista	Font for lists	The font used in all lists.
Font rubrik	Font for headings	The font used for all column headings.
Skuggning	Drop shadow	Apply drop shadows on texts.

List (Events)

Field	Translation	Description
Toningsfärg(start)	Gradient color (start)	The start color of the gradient background.
Toningsfärg(stop p)	Gradient color (end)	The end color of the gradient background.
Typ av toning	Gradient type	Select the type of background gradient.
Uppdateringstid	Update interval	Set the update interval for the list.

List (Alarms)

Field	Translation	Description
Aktivera Iarmklassfilter	Enable alarm class filter	Enables the alarm class filters.
Toningsfärg(start)	Gradient color (start)	The start color of the gradient background.
Toningsfärg(stop p)	Gradient color (end)	The end color of the gradient background.
Typ av toning	Gradient type	Select the type of background gradient.

List (Objects)

Field	Translation	Description
Toningsfärg(start)	Gradient color (start)	The start color of the gradient background.
Toningsfärg(stop p)	Gradient color (end)	The end color of the gradient background.
Typ av toning	Gradient type	Select the type of background gradient.

Menu

Field	Translation	Description
ButtonChecked Highlight	-	Select the highlight color when a button is checked.
ButtonPressed Highlight	-	Select the highlight color when a button is pressed.
ButtonSelected Border	-	Select the border color for buttons.
ButtonSelected Highlight	-	Select the highlight color when a button is selected.
Drop-down-meny storlek	Drop-down menu size	Select the width of the drop- down menu.
Egen färg	Custom color	Select a custom color for the menu.
Font	-	Select the font for the menu.
Färg1 [uppe]	Color 1 [top]	Select the top color of the main menu gradient background.
Färg2 [mitten]	Color 2 [center]	Select the center color of the main menu gradient background.
Färg3 [nere]	Color 3 [bottom]	Select the bottom color of the main menu gradient background.
Menyplacering	Menu placement	Select the placement of the main menu.
Textfärg	Text color	Select the text color for main menu texts.
Tjocklek på huvudmenyn	Main menu height/thickness	Selects the height/thickness of the main menu.

Object colors

Field	Translation	Description
Analogin	Analog in	-
Analogut	Analog out	-
Användare inloggad	User logged in	-
Användare utloggad	User logged out	-
Grupp	Group	-
Indikering från	Indication OFF	-
Indikering till	Indication ON	-
Kurva	Curve	-
Larm	Alarm	-
Larm Kvitt	Acknowledged alarm	-
Larm normal	Normal alarm	-
Manöver från	Maneuver OFF	-
Manöver till	Maneuver ON	-
Puls	Pulse	-
Regulator	Regulator	-
Tidkanal	Time schedule	-
Villkor	Condition	-

Screen saver

Field	Translation	Description
Aktivera	Enable	Select if the screensaver is enabled.
Text	Text	Cutom text to display when the screensaver is activated.
Textfärg	Text color	The text color of the custom text.

System window

Field	Translation	Description
Bakgrundsfärg	Background color	Select the background color of the system window.
Extra information	Extra information	If true , the group number is displayed together with the group name.
Font	Font	Select the font used in the system window.
Textfärg	Text color	Select the text color for the system window.

Trends

Field	Translation	Description
Bakgrundsfärg diagramyta	Chart area background color	Select the background color of the chart area.
Kurvfärg	Trend color	The line color of the plotted trend.
Rutnätsfärg	Grid color	The color of the grid.
Skalning Y-axel(max)	Y-axis range (max)	The maximum value of the Y- axis.
Skalning Y-axel(min)	Y-axis range (min)	The minimum value of the Y- axis.
Toningsfärg (start) rityta	Chart area gradient color (start)	The start color of the gradient background.
Toningsfärg (stopp) rityta	Chart area gradient color (end)	The end color of the gradient background.

Clock

Click the clock icon to show the clock dialog.

Use this dialog to set the time at the server (only when connected to an Avalon PLC) and set the time that is presented in the client.

Set the time at the server by selecting one of the fields and change the value using the up/down arrows.

Click **Spara tid** to set/save the time in the server.

	Ändra klockinställningar	8
Servertid:	2011 - 01 - 26	1 3 : 56 : 01
Lokaltid:	2011 - 01 - 26	13 : 24 : 01
 Visa servertid Visa lokaltid 		Spara tid