

# **User Guide AutroClient**

Autroprime Interactive Fire Detection System



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This product contains static-sensitive devices. Avoid any electrostatic discharge.

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## 1. Introduction

## **1.1 About the Handbook**

This handbook is intended to provide all necessary information for the operation of the AutroClient Tool, used for interactive fire detection systems (Autroprime).

## 1.2 The Reader

The handbook is intended to be used by Autronica Fire and Security service and technical personnel who are responsible for the installation and verification of fire detection systems (Autroprime).

## **1.3 Reference Documentation**

Reference documentation comprises the technical marketing documentation for interactive fire detection systems (Autroprime).

## 2. General Description

AutroClient is a PC-based configuring and service tool, running under Windows XP / Win7. AutroClient includes the following main features:

- Unit statuses like alarm, fault, disable, output activation, supervisory and test will be displayed.
- Presents the graphical topology of the panel, loop units, onboard and MIMIC units.
- Rename units
- Create detection and alarm zones
- Reconfigure points relations to detection zone.
- Reconfigure fire alarm device relation to alarm zones.
- Create activation groups and define cause/effect properties for input units, points, and detection zones. Connect outputs like fire alarm devices, alarm zones and outputs. Configuring activation group criteria like input, fault, disable, output state, voting and silence.
- Set day/night mode
- Set system time
- Configure sound pattern
- The AutroClient can be used to send commands to the Autroprime panel, e.g. disable and enable units, start and stop unit test, save config and restart panel etc.

AutroClient can be used to generate Config.xml off-line configuration or connected to a Autroprime panel for on-line configuration. After an on-line configuration the user has to save the configuration and restart the Autroprime.

## 3. Setting up the System

## 3.1 Minimum PC-requirements

- Intel Core or higher, running all facilities available.
- Windows XP / Win7.
- 2 GB of RAM is recommended.
- Monitor with resolution of 1280 x 800 HiColor (32 bits), is recommended.

## 3.2 Installing the Software

The following files and directory are needed to run the AutroClient:

- autroclient.css
- autroclient.exe
- D3DCompiler-43.dll
- icudt49.dll
- icuin49.dll
- icuuc49.dll
- libEGL.dll
- libgcc\_s\_dw2-1.dll
- libgcc\_s\_sjlj-1.dll
- libGLESv2.dll
- libstdc++-6.dll
- libwinpthread-1.dll
- mingwm10.dll
- Qt5Core.dll
- Qt5Gui.dll
- Qt5Network.dll
- Qt5Widgets.dll

The directory *platforms* must reside together with the software files. This directory contains the files

- qminimal.dll
- qwindows.dll

Navn ^	Dato endret	Туре	Størrelse
퉬 platforms	21.04.2013 13:29	Filmappe	
autroclient	14.05.2012 22:34	CSS-dokument (Cas	16 kB
🚑 autroclient	02.05.2013 10:30	Program	3 438 kB
AutroClient_relnotes_R1_0_1	06.05.2013 08:25	Adobe Acrobat Doc	92 kB
🔁 AutroClientUserGuide	02.05.2013 12:01	Adobe Acrobat Doc	1 597 kB
Not a compiler_43.dll	04.02.2013 18:07	Programutvidelse	2 057 kB
🚳 icudt49.dll	04.02.2013 18:07	Programutvidelse	17 604 kB
🚳 icuin49.dll	04.02.2013 18:07	Programutvidelse	3 0 18 kB
🚳 icuuc49.dll	04.02.2013 18:07	Programutvidelse	1 767 kB
🚳 libEGL.dll	04.02.2013 18:08	Programutvidelse	97 kB
libgcc_s_dw2-1.dll	05.03.2012 14:19	Programutvidelse	42 kB
🚳 libgcc_s_sjlj-1.dll	04.02.2013 18:09	Programutvidelse	113 kB
libGLESv2.dll	04.02.2013 18:08	Programutvidelse	946 kB
🚳 libstdc++-6.dll	04.02.2013 18:09	Programutvidelse	875 kE
🚳 libwinpthread-1.dll	04.02.2013 18:09	Programutvidelse	67 kB
🔊 mingwm 10.dll	05.03.2012 14:19	Programutvidelse	12 kB
🗟 Qt5Core.dll	04.02.2013 18:09	Programutvidelse	4 176 kB
🔊 Qt5Gui.dll	04.02.2013 18:08	Programutvidelse	3 409 kB
🗟 Qt5Network.dll	04.02.2013 18:09	Programutvidelse	1 104 kB
🚳 Qt5Widgets.dll	04.02.2013 18:09	Programutvidelse	5 085 kB

Figure 1. The AutroClient software files.

- Copy the files to any folder/directory you want.
- Create a shortcut to the autroclient.exe file by dragging the file from windows explorer to your desktop. An icon with the Autronica logo will appear on your desktop if you succeeded.
- To start the AutroClient, double-click the Autronica icon.

## 3.3 AutroClient

The AutroClient supports off-line and on-line connection option to load configuration.

AutroClient 1.0.0.12					<u>- 0 ×</u>
Alarms Faults Disabled	Activated	Supervisory	Test	Monitoring	<ul> <li>System</li> </ul>
Units	Panel name		Net	twork status	
	URL:	10.64.62.180			
	Proxy:				
	User name:				
	Password:				Connect
	Config.xml:				Open

Figure 2. AutroClient with no configuration loaded (start-up screen)

## 3.4 AutroClient off-line connection

The AutroClient can be used as a configuration tool for the Autroprime, nearly in the same way as the AutroSafe Configuration Tool. All you need is an existing Autroprime configuration file; Config.xml, which describes the topology and the physical units connected. Start the AutroClient and select the "Open" button to load a Config.xml file.



Figure 3. AutroClient off-line connection.

### 3.5 AutroClient on-line connection

The AutroClient can also be used as an on-line configuration tool and a "lightweight AutroMaster" to monitor Autroprime panels, receiving alarms, faults, disablements, etc. It can also be used to transmit commands like disable, ack faults, silence, reset etc.

- Start the AutroClient, type in an URL panel's IP address or a server/ AutroMaster address and type in a Proxy address if needed.
- Type the user name and password (if configured) and select the "Connect" button. See figure 4.

AutroClient 1.0.0					
Alarms Faults Disable	Activated	Supervisory		Monitoring	System »
Links         ▲           ▲ APOOI         ♥ Loop Driver 1           ▲ A1001         ▲ A1002           ▲ A1002         ▲ A20013           ● ■ A20013         ■           ▲ A20053         ▲ A20053           ▲ A20053         ▲ A20053	Panel name 1 AP001		Ne	twork status onnected	
A20093	URL:	10.64.62.176			
	Proxy: User name:	prime-176			
A20153	Password:	primePRIME			Disconnect
Coop Driver 3     Sop Driver 4     Onboard     Is Monitored Output 1	Config.xml:				Generate

Figure 4. AutroClient on-line connection.

## 4. Operating the Tool

### 4.1 Overview

The AutroClient has several windows/entries for configuration and for monitoring Autroprime panel states. The configuration views will be the same in off-line (when a Config.xml file is loaded) and on-line (connected to an Autroprime panel) modes.

The AutroClient has three operation modes (access levels), the monitoring mode (read only), the control mode (send operating commands) and the configuration mode (configure system unit relations). The control mode and configuration mode are password protected.

### 4.2 Monitoring mode

The AutroClient monitoring mode is the read only mode and the default mode of the AutroClient. The system topology will be presented in the Site view, which displays each unit's property, but the properties can not be changed.

In off-line mode (loading a Config.xml file) only the Site view will be present.

In the online mode (AutroClient connected to an Autroprime panel) the Site view and the status views will be present. The status views are the Alarm, Fault, Disable, Activate, Supervisory and Test view.

😃 AutroClient 1.0.0								
Alarms Faults Disabled		Activa	ted Su	pervisory Test	Monito	ring 🔽	System	
Units	Fill	ter:						
- 🗊 1000 Driver 1		LSI	Name	Function	Hardware	Detection Zone	Alarm Zone	~
A1001	1	001.00	💌 A20013	Carrier	BN-303/F			
A1003	2	001.00	🚥 A2001.1	Point alarm prealarm fault	Aspect/APF	🚺 dz2		
A20013	3	001.01	😓 A20023	Multi detector	BH-320	D room2		
A20023 A20033	4	001.02	🗮 A20033	Manual Call Point	BF-300	🕕 dz		_
A20043	5	001.03	🛞 A20043	Optical detector	BH-300	🕕 dz4		_
A20063	6	001.04	D⊄] A20053	Fire Alarm Device	BBR-110		🙆 Default Alarm Zone	
A20003	7	002.00	A20063	Heat detector	BD-300	D dz5		
- A20103	8	003.00	K A20073	Fire Alarm Device sounder	BBR-130		🙆 Default Alarm Zone	
A2011.1 A20123 A20123	9	004.00	🙁 A20083	Multi detector	BH-220	D room3		
A20143 A20153	10	005.00	K A20093	Fire Alarm Device sounder strobe	BBQ-130		🙆 Default Alarm Zone	
42015.1	11	006.00	📕 A20103	Fire Alarm Device sounder	BBR-230		🙆 Default Alarm Zone	
Loop Driver 3	12	007.00	🔤 A20113	Carrier	BN-304/K			
Onboard     Different Output 1	13	007.00	<b>1</b> A2011.1	Output in out	Aspect/SO			~

Figure 5. AutroClient in Monitoring mode.

## 4.3 Control mode

The AutroClient control mode is used when the AutroClient is connected to an Autroprime panel. In the control mode the user can

execute panel operations like Reset, Silence, Ack faults, disable units, set units into test etc.

- To enter control mode, select the ComboBox Control option from the AutroClient toolbar as shown in figure 6.
- Type the password "1234"



Figure 6. Set the AutroClient in Control mode.

#### 4.3.1 User panel commands

- To use the User panel commands like Reset, Silence etc. from the AutroClient, open a connection to an Autroprime panel and set the AutroClient in Control mode.
- Select the Sites in the tree control and select the Autroprime operator panel. The user panel command buttons will be displayed.

2	AutroClient 1.0.0							
	Alarms Faults Disabled	Ac	tivated	Supervisory	Test	Control	System	
	Units Units Arroll Arro	Filter	r: Name Inction ardware R Sil Res User cm	Cperator panel 65-200 Reset lence sound	Pro Bl Act	Volue	DayMode NightMode AckFaults date Sound pat	tern

Figure 7. AutroClient user panel commands.

When selecting one of the user panel command buttons the AutroClient will transmit a command message to the Autroprime panel. The following user commands are available: **Reset:** Reset alarms, remove faults etc. from the panel. **Silence:** Silence Fire Alarm Devices **Resound:** Resound Fire Alarm Devices **Prolong:** Used on delayed Detection Zones in silent alarm to prolong delay of activation.

Block: Used on SOLAS Detection Zones to block activation.

**Activate:** Used on delayed Detection Zones to start activation before the delay has expired.

**DayMode:** The panel will be in day mode and delayed activation will be enabled.

**NightMode:** The panel will be in night mode and immediate activation will be enabled.

Ack Faults: All faults will be acknowledged.

#### 4.3.2 Advanced user commands

The AutroClient's Advanced User Commands are used for saving the config file and restart the panel, and will often be used when reconfiguring the panel.

The following Advanced user commands are available:

Save config: Saves the Autroprime Config.xml file.
Restart panel: Restarts the Autroprime panel.
Clear log: Clear the Autroprime panel log.
Loop power calculation: The loop current limit for each loop connected is automatically calculated and optimised. The "Calc current consumption" displays the loop current consumption calculated from the connected loop units in an alarm situation. The "Validation" field will indicate "FAILED" if the "Loop current [mA]" value is set lower than "Calc current consumption" value. The "Loop current [mA]" may be increased up to the maximum limit of the loop driver HW. If allowed by the system, "Loop current [mA]" value can be overrided and set 50 mA lower than automatically set by the system. Just check the "Override" box for the loop in question.

Loop power calculation											
Unit name	Loop current [mA]	Calc current consumption	Override	Validation							
Loop Driver 1	100 -	100 (59)		ОК							
Loop Driver 2	100 🝷	100 (3)	Γ	ОК							
Loop Driver 3	100 -	100 (0)	Γ	ОК							
Loop Driver 4	100 -	100 (0)	Γ	ОК							
AP001_180	400	max 1200 mA		ОК							
Close											

Figure 8. Loop power calculator.

#### 4.3.3 Time and date

The AutroClient Time and Date command is used to update the time and date at the Autroprime panel.

#### 4.3.4 Sound pattern

The AutroClient Sound pattern command is used to change the default sound patterns.

#### 4.3.5 Disable units

The AutroClient can be used to disable and enable units and loops. The disable and enable buttons will be displayed when selecting a unit or a loop. For units the disable time can be set manually, the default value is 60 seconds.

#### 4.3.6 Activation test mode

The AutroClient can be used to activate outputs by setting them into test mode. The detectors with LED will display an Activate LED button when selected. When selected, the AutroClient will send an Activate LED command to the Autroprime panel and the detector LED will be lit for 10 seconds.

AutroClient 1.0.0		
Alarms Faults Disabled	Activated Supervisory	Test Control V System
Units	Filter:	Uda 💦
A1002	1 Function Multi detector	1000
41003     41003     00 Loop Driver 2     420013	2 Hardware BH-220	
A2001.1	3 LED true	
A20033 A20043 	4 L51 001.00	
A20063	6 Operation class day HeatOnly	
- M A20093	7 Operation class night HeatOnly	
A20113	8 Override delay dependency false	
- M A20123	9 Performance class day Industrial	
A20153	To performance class night Industrial	
Cologo Priver 3     Coop Driver 3     Coop Driver 4     Croboard     Cologo Chiver 4     Croboard     Copen Collector Output 1     Open Collector Output 1     Open Collector Output 2	Disable time (seconds): 60	Disable Enable Activate LED

Figure 9. AutroClient displays control buttons for the selected detector.

## 4.4 Configuration mode

The AutroClient configuration mode is used when the AutroClient is connected to an Autroprime panel or in off-line mode when the configuration is loaded from Config.xml.

In configuration mode the user is able to:

- rename units
- add or delete Detection Zones and Alarm Zones
- move points (detectors) from/to Detection Zones
- move Fire Alarm Devices from/to Alarm Zones
- add, delete or modify activation groups (cause & effect).
- modify System settings data (not yet available)

- To set the AutroClient in configuration mode, select the ComboBox Configuration option in the AutroClient toolbar as shown in figure 10.
- Type the password "9999"

AutroClient 1.0.0		
Alarms Faults Disabled	Activated Supervi	Isony Test Control Very System
Units	Filter:	Control Configuration
- 🗃 AP001 - 🗊 Loop Driver 1	Name	Value
A1001 A1002	1 Function	Multi detector
A1003     O Loop Driver 2	2 Hardware	BH-220
- a20013	3 LED	true
A20023 A20033 A20043	4 LSI	001.00
A20053	5 Name	A1001
- A20073 - A20083	6 Operation class day	HeatOnly
A20093	7 Operation class night	HeatOnly
A20113	8 Override delay dependency	false
A20123 A20133	9 Performance class day	Industrial
A20143	10 Performance class night	Industrial
A2015.1     A2015.1     A2015.3     Loop Driver 3     Orboard     Orbard     Orbard     Orbard     Orbard     Orbard     Orbard     O	Disable time (secon	nds): 60 Disable Enable Activate LED

Figure 10. Set the AutroClient in Configuration mode.

### 4.4.1 Configuring unit properties

In the Site view the panel topology will be listed. When selecting a loop driver the connected loop units will be listed in a table as shown below.

9	AutroClient 1.0.0									
	Alarms Faults	Disabled	A	\ctiva	ated Su	oervisory Test	Contro	) <b>v</b>	System	
	Units  Units  Applied  Applied	Aput 1 r Output 1	Filte	er: [	Name ■ A20013 ■ A20013 ■ A20023 ■ A20023 ■ A20033 ■ A20043 ■ A20053 ■ A20053 ■ A20053 ■ A20053 ■ A20073 ■ A20073 ■ A20093 ■ A20093	Function Carrier Point alarm prealarm fault Multi detector Manual Call Point Optical detector Fire Alarm Device Heat detector Fire Alarm Device sounder Multi detector Fire Alarm Device sounder strobe cont csv file	Hardware BN-303/F Aspect/APF BH-320 BF-300 BH-300 BBR-110 BD-300 BBR-130 BH-120 BBQ-130	Detection Zone 1) dx2 1) dx2 1) dx4 1) dx4 1) dx5 1) room3 1) room3 1) room3	Alarm Zone Alarm Zone Default Alarm Zone Default Alarm Zone Default Alarm Zone Default Alarm Zone Cov file able	
	Open Collector     Monitored In	r Output 2	_	_						

Figure 11. AutroClient Site view.

- To change a unit name, double click the name and type in a new one, the same will apply for the Detection Zones and the Alarm Zones.
- For the onboard units the function can also be changed, double click the function and a combo box with optional functions for the selected unit will be displayed.

🔐 AutroClient 1.0.0								
Alarms	Faults Disabled		Activated Superv	risory Test	Configuration 🚽	System DZ	AZ	CauseEffect Disable DZ
Units - 🔬 System - 🗊 APOOL - 😨 Loop D	niver 1	Filf	ter:	Function	Hardware		Alarm Zone	
- 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	001 002 003 1/ver 2 0013	1 2	Monitored Input 1 Relay Output 2	Day night input FARE	Monitored Input 1 Relay Output 2			
42 A2	A2001.1 0023 0033 0043	3	Relay Output 1	FWRE Fire Alarm Device	Relay Output 1 Monitored Output 1	🚯 Default Alarm Zone		
- BI, A2 - @ A2 - M A2 - A2 - A2	0053 E 0063 E 0073 0083 0093	6	BC Monitored Output 2	PARE Fire Alarm Device Disable out General Output Reset out	Monitored Output 2 Open Collector Output 1	🚯 Default Alarm Zone		
- M A3	0103 0113 A2011.1	8	Non-Monitored Input 2	Silence alarm Silence out Small alarm	Non-Monitored Input 2			
	0133 0143 0153	9	Monitored Input 2     Non-Monitored Input 1	Input	Monitored Input 2			
E Loop D C Loop D C Loop D D D D D D D D D D D D D D D D D D D	Itids river 3 river 4 rid nitored Output 1 in Collector Output 1 in Collector Output 2 incloned Input 2							

Figure 12. AutroClient Site view, changing onboard unit function.

The filter function available in the system view can filter the unit tree view by name, function or hardware. The filter function is useful when changing a common property like override dependency and delay for manual call points. To do this operation, type in "manual call point" or "bf" which is the hardware name, and use the multiple select in the unit tree view, then change the override dependency and delay property for one of the selected manual call points. The property will be updated for all the selected manual call points. See Figure 13.

1	AutroClient 1.0.0				
Terrare Contractor	Alarms Faults Disabled		Activated Super	visory Test Configuration System DZ AZ CauseEffect Disable [	οz
	Units - 🖧 System	Fi	iter: manual call p	oint	]
L	-      AP001 -      Di Loop Driver 1		Name	Value	^
L	- A1002	1	Function	Manual Call Point	
I	A20033	2	Hardware	BF-300	
I	Loop Driver 4     Onboard	3	LED	true	
I		4	LSI	001.02	
L		5	Name	A20033	
I		6	Override delay dependenc	false 💌	
I		7	SMV	true false	
L		8	SMV timestamp	2012-06-06710:00:06	
I		9	sv	true	
L		10	Serial number	0006200905100073	-
L					-
l				Export csv file Import csv file	
I				Disable Enable	
I					

Figure 13. Using filter and multiple select in system view to change properties on several units.

#### 4.4.2 Configuring Detection Zones

- To configure the Detection Zones, select the AutroClient toolbar
   DZ button and the Detection Zones view is displayed. For a default configuration all the detectors are connected to the Default Detection Zone.
- To add a new Detection Zone, type a name and select a function. The function options are *Immediate*, *Dependency*, *Delayed dependency*, *Delayed* and *SOLAS*. The new Detection Zone will be connected to the panel shown in the tree control (left side view).

Failtes         Disable         Activated         Burervisor         Test         Configuration         System         DZ         AZ         GauseEffect         Disable DZ           Image: Section 20res         Image: Section
Name         Detection Zone           Image: Detection Zone         Image: Detection Zone           Image: Det
Name:
Function: Immediate
Add Add a DZ to each Point Delete

Figure 14. AutroClient Detection Zone view.

- To move detectors to the new Detection Zone, use drag and drop in the tree view. Select the points and drag them from the Default Detection Zone or another zone and drop them into the new Detection Zone.
- To change the Detection Zone name, double click the name and edit, to change the Detection Zone function double click the function and a combo box will be displayed for selection.

The Detection Zone view has also got filter options to filter Detection Zones or points by name, function or hardware, and is case-sensitive. The filter is very useful for large configurations.

#### 4.4.3 Configuring Alarm Zones

- To configure the Alarm Zones, select the AutroClient toolbar AZ button and the Alarm Zones view is displayed. For a default configuration all the Fire Alarm Devices are connected to the Default Alarm Zone.
- To add a new Alarm Zone, first select an Alarm Zone in the tree view (left side view) which should be the Parent Alarm Zone and type a name. The new Alarm Zone will be connected to the selected Alarm Zone shown in the tree control.

🕰 AutroClient 1.0.0		
Alarms Faults Disabled	Activated Supervis	sory Test Configuration System DZ AZ CauseEffect Disable DZ
Nove According to the former Construction of the former According to	Name         Name           1 Activation delay (seconds)         0           2 Intenton         Alax           3 Intendske activation         alax           4 Name         azt           5 Toptame         azt           Alarrm Zone name:         Add	Value Im Zone a

Figure 15. AutroClient Alarm Zone view.

- To move Fire Alarm Devices to the new Alarm Zone, use drag and drop in the tree view. Select the Fire Alarm Devices and drag them from the Default Alarm Zone or another zone and drop them into the new Alarm Zone.
- To change the Alarm Zone name double click the name and edit.

#### 4.4.4 Configuring Activation Groups

 To configure the cause/effect scheme, select the AutroClient toolbar CauseEffect button and the cause/effect view will be displayed.

Note that all responses/actions (Cause/Effect) executed by the Autroprime panel based on events from units, are always defined as an "activation group".

🔒 AutroClient 1.0.0								
Alarms Faults Disabled Ad	ctivated Supervisory T	est Cor	nfiguratior	n 🖌 Sy	rstem	DZ	AZ	CauseEffect Disable DZ
Name	Filter:							
	Name	Function	Activate on Input state	Activate on Fault state	Activate on Disable state	Silence	Voting on state	Ouput state
+  Activation Group FWRE +  dz act grp1	1 📴 Default Activation Group DZ to AZ	DZ activation	Large Alarm					Evacuate
-  point group 1 - pint group 1 - pint group 1	Activation Group FWRE	FWRE activation						On
- G Outputs	💷 dz act grp1	DZ activation	Large Alarm					Evacuate
- 🎽 A2015.1	🔟 point group 1	Point activation	Alarm				1 Any State	On
	Name:							
	Function: Input activati	on						<u> </u>
K	Add				Delete			

Figure 16. AutroClient cause/effect view.

 To create a new activation group, type in a name and select a function from the following options:

Input activation: Inputs activating outputs
Point activation: Points activating outputs
DZ activation: Detection Zones activating Alarm Zones or outputs.
AZ neighbour activation: Alarm Zones neighbour / alert activation.
Output activation: Outputs activating other outputs.

After adding an activation group, the activation group will be displayed in the panel's tree view and in the table listing the activation groups with its properties.

In the activation group table the user can modify the input and output state by double clicking the state and a combo box with options will be displayed. The activation on fault, disabled and silence properties can be checked.

To add units to the activation group, select the activation group name in the table view and the activation group will be expand in the tree view. See figure below.

AutroClient 1.0.1												_ 🗆 🗵 🗡
Alarms	Faults	isabled /	Activated Sup	ervisory To	est Co	nfiguratio	n 🖌 S	ystem	DZ	AZ	CauseEffect Di	sable DZ
Name — , යි, <u>Act</u> ivation gro	oups		Filter:									
- AP001 + B Defai	ult Activation Group Da	to AZ	Name		Function	Activate on Input state	Activate on Fault state	Activate on Disable state	Turned off at Silence	Voting on state	Ouput state	
+ 10 Activ	ation Group FWRE		1 Default Act	ivation Group DZ to AZ	DZ activation	Large Alarm			5		Evacuate	
+ 🖬 DZ2 + 🗐 Point	ActGroup 1		Activation 0	Froup FARE	FARE activation						On	
- RG Input	t Activation Group 1 Inputs		2 Activation Group FWRE		FWRE activation						On	
- <u></u>	Outputs	20 DZ1		DZ activation	Large Alarm			<b>v</b>		Evacuate		
			10 DZ2		DZ activation	Large Alarm			9		Evacuate	
			PointActGroup1		Point activation	Alarm				1 Any State	On	
			K Input Activation Group 1		Input activation	On					On	
		Name:									_	
			Function:	Function: Input activation								•
			Add		-		-	Delete	-	-	_	

Figure 17. AutroClient's cause/effect view, input activation group selected.

 Select the activation group's "Input" item in the tree view. The available inputs that can be added to the activation group will be displayed.

AutroClient 1.0.0						
Alarms Faults Disabled	Activated Supervisor	Test	Configuration 🚽	System DZ	AZ	CauseEffect Disable DZ
Image: State	Filter: Manne Mentand Sput 1 Mentand Sput 1 Mentand Sput 1 Mentand Sput 2 Mentand Sput 2	Function Day night input Input Input Input	Mentaned Irput 1 Mentaned Irput 2 Non-Monitored Irput 2	Herc	hige	

Figure 18. AutroClient cause/effect view, displaying inputs that can be added to the input activation group.

To add units to the activation group, select and drag the units from the table view to the activation group's "Inputs" item in the tree view. The same will apply when adding outputs to the activation group. Select the activation group's "Outputs" item and the outputs will be displayed in the table view. Use drag and drop to add the outputs to the activation group.

AutroClient 1.0.0				
Alarms Faults Disabled A	Activated Supervisory	Test	Configuration System DZ AZ CauseEffect Disable	DZ
Name	Filter:			
Activation groups     Activation groups     Activation groups     Activation groups     Activation Group Dizts AZ     Activation Group Dizts AZ     Activation Group Dizts     Activation Dizts     Activatio	Name F 1 Defauk Alarm Zone Ala 2 az1 Ala	unction rm Zone rm Zone	Hardware	
🖵 🥤 Open Collector Output 2	Name	Function	Hardware	
	1 📔 A2011.1	Output in out	Aspect/SO	
	<b>1</b> A2015.1	Output 2 input 1 output	Aspect/SSO	
	<b>1</b> A20163	General Output	BN-310	
	Felay Output 1	General Cutput	Relay Output 1	
	f Relay Output 2	General Output	Relay Output 2	
	Open Collector Output 1	General Output	Open Collector Output 1	
x >	Open Collector Output 2	General Output	Open Collector Output 2	~

Figure 19. AutroClient cause/effect view, displaying outputs that can be connected to the input activation group.

An activation group has the following properties:

**Name:** The activation group name.

Function: The activation group type / function.

Activation on Input state: The activation group output(s) will be activated if one of the activation group inputs enters the input state. The inputs state options are dependent on the activation group selected. For a point activation group the point alarm state is the input state (Alarm, PreAlarm, Alarm Test or PreAlarm Test). A DZ activation group the input state will be the DZ activation state (Large Alarm, Small Alarm, Silence Alarm, DZ PreAlarm, Alarm Blocked).

Activation on Fault state: The activation group output(s) will be activated if one of the activation group inputs enters fault state. The fault state impact is also dependent on the voting state, if the voting is set to "1 input state" the fault state is ignored.

Activation on Disable state: The activation group output(s) will be activated if one of the activation group inputs enters disable state. The disable state impact is also dependent on the voting state, if the voting is set to "1 input state" the disable state is ignored.

**Silence:** The silence property is set to turn off the activation group when the panel is silenced (silence command is activated by the panel operator). The Detection Zone activate group has set the silence property when activating Alarm Zones, since the Alarm Zones shall be deactivated at silence. Point, input and output activation groups has also the silence option, the default value is off, setting the silence property for these groups and there connected outputs will turned off at silence.

**Voting on state:** The voting of input, fault and/or disable state, see next section for detail description.

**Output state:** The state that the connected outputs will enter when the activation group is active. The output state options are dependent on the connected outputs. For a Alarm Zone the Alarm Zone state is the output state (General Alarm, Evacuate, Alert, Bell Test, User1, User2 or User3). For output units like general output, door etc. the output state will only be set to "On".

The activation groups have got a set of different voting options shown below.

AutroClient 1.0.1											_0.
Alarms	Faults	Disabled	Activated Su	pervisory	est Co	nfiguratio	n 🖌 🛛 S	ystem	DZ	AZ Caus	eEffect Disable Da
Name			Filter:								
A Activation groups     AP001     Befault Activation Group DZ to AZ			Name	Function	Activate on Input state	Activate on Fault state	Activate on Disable state	Turned off at Silence	Voting on state	Ouput state	
+ 👜 A	tivation Group FWRE		1 🔯 Default A	1 Default Activation Group DZ to AZ		Large Alarm			<b>v</b>		Evacuate
+ 🗰 D2	22 vintActGroup1		C Activation								On
- O Inputs			C Activation	C Activation Group FWRE							On
- 3 A2003 - 3 Outputs MIMIC OutputP60_01			DZ1	DZ1		Large Alarm			•		Evacuate
		50_01 50_02	0 DZ2		DZ activation	Large Alarm			2		Evacuate
MIMIC OutputP60_02			PointAct	PointActGroup1		Alarm				1 Any State	▼ On
										1 Any State 1 Input State 2 Input OR 1 Input + 1 Any S	State
			Name:								
				Input activati	on						•
4			Add		_			Delete	_		

Figure 20. AutroClient cause/effect view, displaying voting options for a Point Activation Group.

**1 Any State:** One unit in any state will activate the outputs in the activation group. Any state is Input state, Fault state or Disable state; the input state depends on the type of activation group. For an input activation group the input state is ON, for a point activation group the input state is either Alarm, PreAlarm, AlarmTest or PreAlarmTest.

**1 Input State:** One unit in input state will activate the outputs in the activation group. Units in fault or disable state will not activate the outputs.

**2 Input OR 1 Input + 1 Any State:** Two units in input state or one unit in input state and one unit in any state will activate the outputs in the activation group. Thus, the activation group must always have one unit in input state to activate. For a point activation group one of the points must be in alarm state to activate the activation group.

The Activation Group view has also got filter options which are used to filter activation groups by name or units connected to activation groups by name, function or hardware. This is case-insensitive. The filter is very useful for large configurations.

There is also a filter function to find detection zones which do not activate any Alarm Zone. To display this, select a Detection Zone activation group and select the input and type in "missing az" as the filter.

The Detection Zones with no Alarm Zone activation will be displayed.

Alarms Faults Disabled Activated Supervisory Test Configuration System DZ AZ CauseEffect Disable D
Image: Section of the section of t

Figure 21. AutroClient cause/effect view, displaying voting options for a Point Activation Group.

### 4.4.5 Configuring Disable Input Devices

 To configure the disable input devices select the AutroClient toolbar Disable DZ button and the disable DZ view will be displayed.

AutroClient 1.0.0				
Alarms Faults	Disabled	Activated	Supervisory	y Test Configuration System DZ AZ CauseEffect Disable DZ
Name		Name	Function	Hardware
- 🖧 Disable DZ - 🛃 10.64.62.179		1 Default Detection Zon	e Immediate	
- BB A1001		🚺 DZ1	Immediate	
- DZ2		DZ2	Immediate	
- A2003.1		DZ3	Immediate	
A2004.1				

Figure 22. AutroClient's Disable Detection Zone view, displaying Detection Zones connected to disable input devices.

- Select a disable input device and all the detection zones will be listed.
- Use drag and drop to connect detection zones to the disable device.

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