2013 May

AxTraxNG[™]

Access Control Management Software Software Manual (Version 22.x)





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Notice and Disclaimer

This manual's sole purpose is to assist installers and/or users in the safe and efficient installation and usage of the system and/or product, and/or software described herein.

BEFORE ATTEMPTING TO INSTALL AND/OR USE THE SYSTEM, THE INSTALLER AND THE USER MUST READ THIS MANUAL AND BECOME FAMILIAR WITH ALL SAFETY REQUIREMENTS AND OPERATING PROCEDURES.

- The system must not be used for purposes other than those for which it was designed.
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- ROSSLARE ENTERPRISES LIMITED and/or its related companies and/or subsidiaries' (hereafter: "ROSSLARE") exclusive warranty and liability is limited to the warranty and liability statement provided in an appendix at the end of this document.
- This manual describes the maximum configuration of the system with the maximum number of functions, including future options. Therefore, not all functions described in this manual may be available in the specific system and/or product configuration you purchased.
- Incorrect operation or installation, or failure of the user to effectively maintain the system, relieves the manufacturer (and seller) from all or any responsibility for consequent noncompliance, damage, or injury.
- The text, images and graphics contained in the manual are for the purpose of illustration and reference only.
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- All graphics in this manual are for reference only, some deviation between the image(s) and the actual product may occur.
- All wiring diagrams are intended for reference only, the photograph or graphic of the PCB(s) are intended for clearer illustration and understanding of the product and may differ from the actual PCB(s).

1. Introduction

The AxTraxNG[™] Access Control System is a complete Server-Client software management system for use with the AC-215, AC-225, AC-425, and AC-525 Access control panels.

The AxTraxNG[™] Access Control System is user-friendly, intuitive, and rich in functionality. Using AxTraxNG[™], you can configure door functionalities based on areas and time frame for different types of personnel and for varying alarm situations.

The AxTraxNG[™] Access Control System can integrate with ViTrax[™], Video Surveillance software application. The main purpose of the integration is to enable video recording based on access control events and convenient playback.

This manual is compatible with AxTraxNG[™] software Version 00.12.00 and above.

1.1 System Features

AxTraxNG[™] makes it possible to control and monitor every aspect of access control on a site. The system includes a built-in software security system that controls access to the system database, and logs all performed operations. In addition, the system boasts the following Professional Grade features:

- A free basic Level 0 server software license for up to 64 panels. Three incremental license levels can be activated by buying a Rosslare HASP key (the CD-ROM is provided with the package).
- User-friendly PC software with intuitive layout reduces the complexity of access control
- Manages user data, photo and information fields, access rights, alarms, strike time, and door mode, all from one central location
- Produces reports from acquired data, such as entry and exit times, as well as alarm types initiated by user, location, and time events
- Available in multiple languages and date formats
- Compatible with additional video management software modules from Rosslare (ViTrax[™])
- Backward compatibility with VeriTrax AS-225 and AxTrax AS-525

1.1.1 Access Control

Access groups define access rights for every part of the site. Access rights are time dependent; for example, users in the "Mornings Only" access group can have access to certain areas of the site between 9 am and 12 pm only. Assign each individual user to an access group.

The system also stores an identification photograph and personal details for each user, as well as user specific access settings, such as antipassback

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immunity, requirements for an extended open door period, configurable special privileges, and triggered outputs.

1.1.2 Access Monitoring

The AxTraxNG[™] software records every attempt to open a door within the site. Status maps show the state of every part of a facility, while an Events log records complete details of every time access is granted or denied for every door on a site, and records possible door tampering and forced entries.

AxTraxNG[™] can also produce a variety of access reports, including usage reports, attendance records, and roll calls. Using the AxTraxNG[™] Report Wizard, users can design their custom reports to meet their specific needs.

1.1.3 Software Security

Access to the AxTraxNG[™] software is password controlled. It is possible to grant individually based restricted security rights for different operators, with access to only specified elements of the system or with read-only access.

1.2 AxTraxNG[™] Server and Client

The AxTraxNG[™] system includes both the AxTraxNG[™] Server and the AxTraxNG[™] Client software applications separately.

Install the AxTraxNG[™] Server on the computer that controls the access control panels and manages the database.

Install the AxTraxNG[™] client software on any PC from which you wish to access the system. One AxTraxNG[™] server can serve an unlimited number of AxTraxNG[™] clients.

AxTraxNG[™] is based on a standard Client-Server architecture:

- Only the server connects to the database; the clients draw the information from the server
- Clients connect to the server using Serial communication (RS-485) or LAN remote communication technology
- The server runs as a Windows service by default
- The client software is based on dynamic docking technology



Important

Introduction

1.3 Using this User Guide

This user guide provides all the information required to start working with AxTraxNG[™] software. Refer to the AC-215, AC-225, AC-425, or AC-525 hardware manuals for wiring and installation instructions.

The manual explains the following in detail:

- How to install the AxTraxNG[™] server
- How to install the AxTraxNG[™] client
- The basic functionality of AxTraxNG[™]
- How to set up a new site from the AxTraxNG[™]
- How to monitor and manage a site using the AxTraxNGTM client

2. Specifications and Requirements

2.1 System Capabilities

General	
Software Architecture	Client-Server
Database Type	SQL Server Express 2005, 2008
Max. Number of Users	 30,000 per panel (AC225,AC425, AC525) 5000 (AC215)
Max. Access Groups	Based on the maximum number of users, 30,000 x the number of panels
Max. Number of Time Zones	32
Max. Cards per User	15
Max. Number of Doors	8184
Max. Access Control Panels	1023
Antipassback	Timed
	• Door
	• Global – across the entire facility
International Holiday Support	Up to 64 holidays

Networks

Max. Number of Networks	Unlimited
Supported Access Control Panel	• AC-215
Models	• AC-215 (SPV)
	• AC-215IP
	• AC-225
	• AC-225 with MD-IO84
	• AC-225 with MD-D02
	• AC-425
	• AC-425 with MD-IO84
	• AC-425 with MD-D04
	• AC-525
	• AC-525 with MD-IO84
	• AC-525 with MD-D02
Panel Networks Communication	• Serial (RS-232/485)
Interface	• TCP-IP
	Modem
Communication Speed	9600, 19200, 57600, and 115200 bps

2.2 System Requirements

2.2.1 AxTraxNG[™] Server and Client Requirements

Operating System	Windows XP SP2, Windows Server 2003, Windows Server 2008 (32/64 bits), Windows Vista, or Windows 7 (32/64 bits)
Processor	Pentium 4 or better
Memory	4 GB
Network	LAN card required for TCP/IP networking
Hard Disk Space	4 GB minimum

2.2.2 SQL Express Server Requirements

SQL Server Express is not always required. See Section 3.1 for further information.

Processor	Pentium 4 or better
Memory	2 GB
Hard Disk Space	4 GB

2.2.3 HASP USB Key Requirements

1–64 Active Panels	HASP key not required
65–256 Active Panels	Level 1 HASP key required
257–512 Active Panels	Level 2 HASP key required
513–1023 Active Panels	Level 3 HASP key required

The AxTraxNG[™] installation CD-ROM includes all the setup files required to install the AxTraxNG[™] Access Control software on the system's main computer. The software system consists of the following four main components:

- AxTraxNGTM Server Manages the database linked to the access control panels
- AxTraxNGTM Client Configures the system

The AxTraxNGTM Client is only needed on the main computer; however, it can be installed on additional computers as needed to help monitor the system.

- ViTrax[™] software Enables video integration (if needed)
- HASP key driver (AxTraxNG[™] Server only)
- AxTraxNG[™] Watchdog

In addition, the setup installs the following two prerequisite applications:

- Crystal Reports Basic Runtime for Visual Studio 2008
- Microsoft[®] Visual C++ 2005 SP1

3.1 Choosing an SQL Server

The AxTraxNG[™] Server operates using an SQL server 2005/2008 database. If there is already an SQL 2005/2008 server available on your computer network, use it to run the AxTraxNG[™] database using your SQL login credentials.

Alternatively, install Microsoft SQL Server Express on the computer that uses the AxTraxNG[™] server.



Do not install the SQL server when installing additional AxTraxNG[™] clients, which connect to the AxTraxNG[™] Server database.

3.2 Preparing the AxTraxNG[™] Installation

Install the AxTraxNG[™] Access Control software on the computer that connects to the access control panels and manages the database.

To begin installing the AxTraxNG[™] software:

- 1. Insert the CD into your computer's CD drive.
- 2. Double-click the AxTraxNG[™] setup file.

The following verification screen opens:



3. Click Run.

Once the various necessary files are extracted, the following screen opens:

Figure 1: AxTraxNG™ Packages Selection Screen





This screen remains opens in the background as various elements of the software are installed.

4. Accept the licensing agreement and choose which packages you wish to install.



5. Click Start.

If the AxTraxNG[™] Server or Client setup detects a previous version of AxTraxNG, a prompt appears asking if you want to upgrade AxTraxNG[™] to the newer version.

Note

Upgrading to a newer version only uses current database information.

After upgrading the AxTraxNG[™] version, check the panel's firmware version for both old and new installations and upgrade your firmware if required.

If there is no SQL server installed, the Installation Requirements screen opens.

Installation of the two prerequisite applications begins.

Crystal Reports Basic Runtime for Visual Studio 2008
Please wait while Windows configures Crystal Reports Basic Runtime for Visual Studio 2008
Gathering required information
Microsoft Visual C++ 2005 SP1 Redistributabl 🗐 🗖 🔀
Please read the following license agreement. Press the PAGE DOWN key to see the rest of the agreement.
MICROSOFT SOFTWARE LICENSE TERMS MICROSOFT VISUAL C++ 2005 RUNTIME LIBRARIES These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft * updates, * supplements, * Internet-based services, and * support services for this software, unless other terms accompany those items. If so, those terms apply. By using the software, you accept these terms. If you do not accept
Do you accept all of the terms of the preceding License Agreement? If you choose No, Install will close. To install you must accept this agreement.
<u>Yes</u> <u>No</u>

Once these installations finish, the AxTraxNG[™] Client installation begins.

3.3 Installing AxTraxNG[™] Client Software

The installation wizard opens automatically once the prerequisite software is installed.

If you are upgrading, the following screen opens:



If you are installing for the first time, the following screen opens:



To install the AxTraxNG™ Client application:

- 1. Click **Yes** and/or **Next** to begin the AxTraxNG[™] Client installation process.
- 2. If you are installing an upgrade, skip to Step 5.

The Destination Folder screen opens.

🙀 AxTraxt	NG Client - InstallShield Wizard 🛛 🛛 🔀
Destinati Click Ne>	on Folder kt to install to this folder, or click Change to install to a different folder.
	Install AxTraxNG Client to: C:\Program Files\Rosslare\AxTraxNG Client\
InstallShield -	< Back Next > Cancel

3. Select the required installation location by clicking **Change** or click **Next** to use the default destination

The Ready to Install the Program screen opens.

i AxTraxNG Client - InstallShield Wizard
Ready to Install the Program The wizard is ready to begin installation.
Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield

4. Click Install.

The Installing AxTraxNG[™] Client screen opens.

When the installation is complete, the *InstallShield Wizard Completed* screen opens.

5. Click **Finish** to complete installing the AxTraxNG[™] Client software.

3.4 HASP Device Driver

Following the AxTraxNG[™] Client software installations, the wizard for the HASP device driver installation appears.



To install the HASP device driver:

 Click Next to begin the installation process. The End User License Agreement screen opens.

😹 End User License Agreement 🛛 🔀
ALADDIN KNOWLEDGE SYSTEMS LTD. HASP Device Driver LICENSE AGREEMENT
IMPORTANT INFORMATION - PLEASE READ THIS AGREEMENT CAREFULLY BEFORE DOWNLOADING OR INSTALLING THE SOFTWARE PROGRAM. ALL ORDERS FOR AND USE OF THE HASP Device Driver including any revisions, corrections, modifications, enhancements, updates and/or upgrades
C I accept the license agreement I do got accept the license agreement
< <u>B</u> ack <u>Install</u> > <u>C</u> ancel

2. Accept the licensing agreement and click **Install**. Installation of the driver begins.

Installing drivers		
æ	Please wait.	

When the installation is complete, the *Driver installed successfully* screen opens.



3. Click **Finish** to complete installing the HASP driver.

3.5 Installing AxTraxNG[™] Network Server Software

Following the HASP Device Driver installation, the AxTraxNG[™] Install Shield Wizard for the AxTraxNG[™] Server software installation appears.

If there is no SQL server installed, the Installation Requirements screen opens. Click **Install** and follow the steps to install the SQL server.

InstallShiel	InstallShield Wizard	
ර to	xTraxNG Server requires the following items to be installed on your computer. Click Install begin installing these requirements.	
Status	Requirement	
Pending	Microsoft SQL Server 2005 Express	
	Instali Cancel	

If you are upgrading, the following screen opens:



If you are installing for the first time, the following screen opens:



To install the AxTraxNG™ Server:

- 1. Click **Yes** and/or **Next** to begin the AxTraxNG[™] Server installation process.
- 2. If you are installing an upgrade, skip to Step 10.
- 3. Click Next.

The Setup Type screen opens.



4. Select the Server option, and then click Next.

The Destination Folder screen opens.



5. Select the required installation location by clicking **Browse** or click **Next** to use the default destination

The Database Server screen opens.

记 AxTraxNG Server - InstallShield Wizard 🛛 🛛 🔀	
Database Server Select database server and authentication method	
Select the database server to install to from the list below or click Browse to see a list of all database servers. You can also specify the way to authenticate your login using your current In case of SqlExperss you need to add the instance name 'Veritrax' to the computer name. for example: 'Computer I/Veritrax' Database Server:	
(local)/Veritrax Browse	
Connect using:	
Windows authentication credentials of current user	
Server authentication using the Login ID and password below	
Login ID: sa	
Password:	
InstallShield	
< <u>B</u> ack <u>N</u> ext > Cancel	

- 6. For the *Database Server* field, do one of the following:
 - a. Select the database server name from the dropdown list or use the default location *(local)\Veritrax.*
 - b. Click **Browse...** to choose the database server location.

ø	AxTraxNG Server - InstallShield Wizard	K
	From the list of servers below, select the database server you would like to target. (loca))\VERITRAX ILANIT-PC JERRY-PC LENOVO-E8762595 MIKAEL NATALIA PC-AVISHAY RAMONPC ROSSLARE1-SRV RQ1\VERITRAX SARA-NEWPC TAHLI-PC	
Ins	talishield OK Cancel	



The AxTraxNGTM Server and SQL Server databases must be installed on the same PC.

c. For database servers installed from the AxTraxNG[™] Server setup program ("SQL Server express"), add the instance name "\VeriTrax" to the database computer name and click **OK**.

You return to the previous window.

7. In Connect using, choose Server authentication using the Login ID and password below.

The only condition for choosing the **Windows authentication credentials** of current user option is that you are using an existing SQL database installed using Windows authentication only and not from the VeriTrax Setup.

8. Click Next.

Note

The Ready to Install the Program screen opens.

9. Click Install.

The Installing AxTraxNG[™] Server screen opens.

i∰ AxTraxNG Server - InstallShield Wizard	X
Ready to Install the Program The wizard is ready to begin installation.	
Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Cl exit the wizard.	lick Cancel to
InstallShield < Back Install	Cancel

When the installation is complete, the *Install Shield Wizard Completed* screen opens.

10. Click **Finish** to complete installing the AxTraxNG[™] Server software.

3.6 Installing AxTraxNG[™] Watchdog

Once the AxTraxNG[™] server installation finishes, the AxTraxNG[™] Watchdog installation opens automatically.

If you are upgrading, the following screen opens:



If you are installing for the first time, the following screen opens:



To install the AxTraxNG™ Watchdog:

- 1. Click **Yes** and/or **Next** to begin the AxTraxNG[™] Watchdog installation process.
- Click Next to initiate the AxTraxNG[™] Watchdog installation process. The *Destination Folder* screen opens.

🙀 AxTrax	NG Watchdog - InstallShield Wizard 🛛 🛛 🔀
Destinati Click Ne:	ion Folder xt to install to this folder, or click Change to install to a different folder.
	Install AxTraxNG Watchdog to: C:\Program Files\Rosslare\AxTraxNG Watchdog\ Change
To all all the fact of a	
Installbhield -	< Back Next > Cancel

3. Select the required installation location by clicking **Browse** or click **Next** to use the default destination

The Ready to Install the Program screen opens.

🖟 AxTraxNG Watchdog - InstallShield Wizard
Ready to Install the Program The wizard is ready to begin installation.
Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
Install5hield < Back Cancel

4. Click Install.

The installation process begins.

When the installation is complete, the *InstallShield Wizard Completed* screen opens.

 Click Finish to complete the AxTraxNG[™] Watchdog software installation. A window opens telling you to restart the computer.

You must restart the comptuer to complete the installation. After Windows restarts, please wait two minutes for the AxTraxNG server to start before using the AxTraxNG Client.
ОК

- 6. Click **OK**.
- 7. Return to the AxTraxNG[™] Elements Selection Screen (Figure 1).
- 8. Click **Close** and then restart the computer.

The AxTraxNG[™] server is now fully installed on your computer.

Once the computer restarts, you must wait until you see a message in the Windows system tray that the server is connected.

13 Server connected	
	1:59 AM

3.7 Video Enhancement for AC-525 Setup

AxTraxNG[™] can connect with single or multiple ViTrax[™] servers installed in a LAN or WAN configuration.

Make sure to check AxTraxNG[™] and ViTrax[™] version compatibility.

Note

To install ViTrax[™] Server and Client applications, refer to the *ViTrax[™]* Software Installation Manual.



When installing AxTraxNG[™] on a different PC, make sure that the ViTrax[™] Server has already been installed (no license is required for that ViTrax[™] Server).

To add cameras for AC-525:

- 1. Activate the ViTrax[™] Server and Client (see *ViTrax[™] Software Installation Manual*).
- 2. Define ViTrax[™] Servers (see Section 6.1).
- 3. Define communication of AC-525 cameras to the ViTrax[™] Server (see Section 6.2).
- 4. Activate AxTraxNG[™] and configure it (see Chapters 4 and 5).

3.8 Firewall Settings

Internal firewall settings may prevent the AxTraxNG[™] Server from connecting to the SQL database or to panel control units using TCP/IP and remote Server-Client connection.

For more information on how to configure a firewall, see Appendix A. Contact your system administrator or Rosslare Technical Support for further guidance.

3.9 SQL Server Settings

After installing AxTraxNG[™], verify that the SQL server service on the computer is running and set to the required installation.

For more information on SQL server settings, see Appendix B.



If SQL Express 2005 is being installed (part of the installation package), the installation must be on the same Windows user account that is being used for AxTraxNG™.

4. System Overview

AxTraxNG[™] is controlled through a user-friendly interface, and comes with a Tree View list of all aspects of the site setup and a toolbar for standard operations.

4.1 Starting the Software

This section explains how to start the software and log in to the main window.

To start AxTraxNG™:

If the AxTraxNG[™] server is installed on a different PC, the Server connection dialog box appears.

Server connection	×
IP Address	Port
127.0.0.1	4662 😂
<u>D</u> efault	
<u>K</u>	<u>C</u> ancel

If the AxTraxNG[™] server is installed on the same PC, skip to Step 5 (after the *Logon AxTraxNG[™] Client* Dialog box appears).

- 2. Type the AxTraxNG[™] server's PC IP address in the **IP Address** text box.
- 3. Select the AxTraxNG[™] server's PC Port from the **Port** select box.
- 4. Click **OK**.

The Server connection dialog box closes and the *Logon AxTraxNG™ Client* dialog box appears.

Logon AxTraxNG Client V 0.10.0	
Please check name and enter password	
Administrator	×
Password	
<u> </u>	

5. Select an **Operator name** and enter a **Password**.

By default, the Administrator operator password is "admin".

6. Click **OK**.

Note

The main AxTraxNG[™] window opens.

4.2 AxTraxNG[™] Main Window

The entire central functionality of the AxTraxNG[™] system is available from the AxTraxNG[™] Client main window.

Ax FraxNG			
Ble Iools Yew Help			
AxTraxNG			
Hierarchic View	Table View		×
B AxTracNG	a 🐵 (
AC Networks			
Comeras			
Similary Similary			
🖲 🚓 Gobel antipessbecks			
 Car Parking A Linux 			
8 - Status Map			
Reports			
Events			×
=-⊘- > ⊕ 1.1° B	19-1 9-		
Date/Time Lo	ation	Event	Details
Constant Providend on etc. 0.	07/01/2012 14:04		

The AxTraxNG[™] Client Main window is divided into six adjustable sections:

Section		Description
1	Menu Bar	The Menu bar controls the software's general operation and setup. For more information, see Section 4.3.
2	Toolbar	The main Toolbar consists of icons for the key tasks required in managing access control across a facility. The available icons change according to the view selected. For more information, see Section 4.4.
3	Tree View	The Tree View allows users to configure, monitor, and control every aspect of access control. For more information, see Section 4.5.

Table 1: AxTraxNG™ Client Main Window

System Overview

Se	ection	Description
4	Event Log	The Event Log displays a detailed log of every time access was granted or denied for every door on the site, as well as when inputs and output are opened or closed. The event log toolbar consists of icons allowing the user to monitor potential door tamper or forced entry attempts. These warnings are logged and displayed as internal system warnings, including video stream archives that are saved to the ViTrax [™] database.
5	Display Area	The Display area displays all items within the selected Tree View element. It also provides options to add, edit, or delete items manually without opening the detailed element windows. In addition, the display area provides various system updates.
6	Status Bar	The Status Bar displays server connection status, Downloads Counter, and the Firmware programming progress bar.

4.3 Menu Bar

The menu bar controls the general operation and setup of the software.

4.3.1 File Menu

The File menu has three options:

Menu	Select Menu item to
Server Connection	Log on to the AxTraxNG [™] server
ViTrax Server	Log on to the ViTrax™ server
Exit	Exit the AxTraxNG™ software

4.3.2 Tools Menu

Use the Tools menu to manage the database and set software preferences. The menu has three options:

Menu	Select Menu item to
Database	Open the Database window to back up the database or set a scheduled backup, as well as to import or export the AxTraxNG™ and/or VeriTrax AS-225/AxTrax AS-525 configuration states and events logs
Options	Set software options and preferences, including national holidays, event highlighting, custom user information fields, and GUI language
Import/Export Data	Import/export user information from/to an Excel spreadsheet file.

4.3.3 View Menu

Use the View menu to define and manage the view of the GUI. The menu has four options:

Menu	Select Menu item to
Events	Select the option to show event logs
Table View	Select the option to show a detailed table view
Restore Docking	Restore the default GUI view
Close All Floating Windows	Close all pop-up windows at once

4.3.4 Window

The Window menu has a special option (**In Corners**) to place any open pop-up windows in the corners of the screen. This option is chosen by default.

Wir	ndow	Help	
	In Co	orners	
~	Tile		
	Close	e All Floating Windows	
	2\Pa	nel 1\Reader 1 30/04/2013 16:07:52	
	2\Panel 1\Reader 1 30/04/2013 16:07:55		
	2\Panel 1\Reader 1 30/04/2013 16:07:58		
	2\Panel 1\Reader 1 30/04/2013 16:08:00		
2\Panel 1\Reader 1 30/04/2013 16:08:04			
	2\Panel 1\Reader 1 30/04/2013 16:08:06		
2\Panel 1\Reader 1 30/04/2013 16:08:06			
2\Panel 1\Reader 1 30/04/2013 16:08:07			
	2\Panel 1\Reader 1 30/04/2013 16:08:07		
	2\Panel 1\Reader 1 30/04/2013 16:08:09		

Alternatively, you can select the standard **Tile** option to move any opened pop-up windows to available space on the screen.

In addition, you can close all of these pop-up windows by clicking **Close All Floating Windows**.

You can use the list of open pop-ups to focus on any open pop-up window.

4.3.5 Help Menu

The help menu has one option:

Menu	Select menu item to	
About	View software, firmware, and database version information, as well as the current operator	

System Overview

4.4 Toolbar

The toolbar controls key tasks required to manage access control across an entire facility. When a new element is selected from the Tree View, the toolbar icons change to suit the selected element.

The following toolbar icons are available:

lcon	Name	Click icon to
÷	Manual Door Operation	Open the <i>Door Manual Operation</i> window (see Section 9.1)
	Print	Send the current display area view to the printer
+	Add	Add a new element of the selected type
-	Edit	Edit the selected element
X	Delete	Delete the selected item
	Reader Type	Configure custom reader type

4.4.1 General Icons

4.4.2 General Network Icons

lcon	Name	Click icon to
H	Add to Status Map	Add available panels and panel components to the Status Map (see Section 4.5.9)
	Download Failed Data Manually	Download the entire panels' failed database (see Section 11.2)

4.4.3 Network Icons

lcon	Name	Click icon to
\odot	Set Time	Set the time on the selected access control panel (see Section 11.1)
	Find Panels	Find and update panels within the network (see Section 5.4.2)
6	Manual Modem	Open the <i>Modem Status</i> window to allow the operator to connect or disconnect the modem and change the connection password (see Appendix C)
2	Camera	View a list of connected cameras, and assign the cameras to panels (see Section 6.2)

4.4.4 Panel Icons

lcon	Name	Click icon to
	Manual Reader	Change the operation mode of the readers on the selected panel (see Section 9.2)
Ď	Update Firmware	Send a firmware update to the selected access control panel (see Section 9.6)
<u>ئ</u>	Control Output Manually	Change the settings for the outputs on the selected panel (see Section 9.3)
٠	Control Input Manually	Change the settings for the inputs on the selected panel (see Section 9.4)
()	Control Siren Manually	Test the siren for the selected panel (see Section 9.5)

4.4.5 Card\Users Icons

lcon	Name	Click icon to
Ō	User Counter	View the current user count value (see Section 11.3)
iř,	Add users	Create up to 1000 new users in one click (Section 0)
∎ ņ	Add cards	Create up to 1000 new cards in one click (Section 0)
210	Assign cards	Add and assign cards to selected users or add cards from MD-08 (see Appendix G)
<i>(</i>	Print Cards	Print a card template that has been created (see Chapter 7).
٩	User Filter	Filter the list of users by various parameters, such as name and card number (see Section 4.5.8.3)

4.4.6 Reports Icons

lcon	Name	Click icon to
5	Produce Report	Produce the selected report (Chapter 10)
	Print	Send the current report to the printer
6	View Last Hour Access	Display relevant access events that occurred within the last hour (Chapter 10)
		Note: This icon appears only when a Roll Call – Readers report is selected.
	View Periodic Access	Displays relevant access events that occurred within a selected time frame (Chapter 10)
		Note: This icon appears only when a Roll Call – Readers report is selected.

4.4.7 Events Toolbar Icons

When clicking an event icon, click the dropdown arrow to change the current view of the display.

lcon	Name	Click icon to
**	All Events Online	Display all real time events
	Panels AC	Display all event types uploaded from the access control units
- 6	Access	Display only access events uploaded from access control units
<u> </u>	Alarm	Display only alarm events uploaded from access control units
۲	Archive	Display video stream archive events stored in either the ViTrax™ database, the USB key, or snapshots saved on PC
2	System	Display events related to the AxTraxNG [™] Server operation and operators activity
	Panels HLX	Displays events from the HomeLogiX™ panel.
2	Cameras	Displays events recorded streams from a camera
	Pause	Halt the display of events in the display area. New events are shown again when the Pause button is clicked a second time.
	Refresh	Manually refresh the event list
5	View Events within the last Hour	Display all events that occurred within the last hour. Click the dropdown arrow to change the view.
1	View Events within the last Day	Display all events that occurred within the last day
7	View Events within the last Week	Display all events that occurred within the last week
	View Periodical Events	Display all events that occurred within a selected period
	View All Events	Display all events
TITUT	Clear	Clear the entire log and empty the current event list view
2	Show User	Open the User window for the selected user.
ഫ്	Clear Alarm	Open the <i>Alarm Details</i> window to allow the operator to reset the alarm.
lcon	Name	Click icon to
-----------	-------------------------	--
	Antipassback Forgive	Open the <i>Antipassback Forgive</i> window to allow the operator to cancel an Antipassback restriction for the selected user.
3	Camera List	Open a list of all ViTrax [™] cameras attached to the network
~	Archive	Open the <i>Archive Camera</i> window for the selected video stream or snapshot.
\$	Car Parking	Opens the <i>Car Parking Counters</i> window to view and edit the car parking area and group counters.

4.5 **Tree View**

The Tree View allows users to configure, monitor, and control every aspect of a facility's access control network.

When the user selects an element from the Tree View, its contents are shown in the main display area, and the toolbar icons change to suit the selected element

451 AC Networks

A network is a group of up to 32 access control panels. The AxTraxNG™ Server connects to the panels across the panel network.

For more information, see Section 5.3.



To work with 65 panels or more, a HASP security key must be connected to the AxTrax Server machine (see Section 2.2.3).

4.5.2 HomeLogiX

The HomeLogiX element allows you to add HLX panels to the network and to configure each panel's settings.

For more information, see Chapter 8.

4.5.3 Cameras

Cameras can be added to the network to allow real-time viewing of any area desired. The **Camera** element allows you to add cameras to the network and to configure each camera's setting.

For more information, see Section 5.8.

4.5.4 Timing

The Timing tree branch consists of two elements: time zones and Holidays.

4541 Time Zones

A time zone defines a weekly time period or set of time periods; for example, "Office Hours" or "Out of Office Hours". Door access rights, alarms, and input and output behavior can all be set to behave differently within each Time 7one

System Overview

For more information, see Section 5.1.

4.5.4.2 <u>Holidays</u>

This element defines annual holiday dates; it is possible to set special access behaviors for holiday time.

For more information, see Section 5.2.

4.5.5 Groups

The Groups tree branch consists of four elements: Access groups, Access Areas, Output Groups, and Input Groups.

4.5.5.1 Access Groups

An Access Group defines when each reader on the site is available for access. All site personnel are assigned to appropriate Access Groups.

For more information, see Section 5.10.1.

4.5.5.2 Input and Output Groups

Input and Output groups define sets of outputs or inputs that should be managed together within a panel.

For more information, see Sections 5.10.1, 5.10.2, and 5.10.3.

4.5.5.3 Access Areas

A facility can be subdivided into several access areas to configure and manage it more effectively.

For more information, see Section 5.14.

4.5.6 Global Antipassback

Antipassback rules can be applied to each access area to prevent one user's card or entry code from being used for two subsequent entries, and to prevent a second entry without a previous exit.

For more information, see Section 5.15.

4.5.7 Car Parking

The Car Parking management option allows you set up groups that have limited number of users who can access a particular area. This feature is counter based that keeps track of the number of users in a specified area.

For more information, see Section 5.16.

4.5.8 Users

The Users tree branch consists of five elements: Departments/Users, Visitors, User Filter, Cards, and Operators.

4.5.8.1 Departments/Users

This element shows a list of all departments and users, as well as any visitors registered in the system. Each user is a member of a department. For each user, it is possible to assign cards and/or a PIN code, set access rights, personal details, and include an identification photograph.

For more information, see Section 5.11.

4.5.8.2 <u>Visitors</u>

This element shows a list of all visitors registered in the system.

Visitor type users can also be created with specific access rights.

For more information, see Section 5.13.3.

4.5.8.3 User Filter

This element allows you to find users in the database based on various search parameters, such as name, user number, and access group. The filtered list then appears in the main window.

4.5.8.4 <u>Cards</u>

This element lists all cards in the system with their statuses, and allows the manual or automatic addition of cards to the system. For more information, see Section 5.10.4.2.

In addition, the element allows you to create a card template for printing. For more information, see Chapter 7.

4.5.8.5 <u>Operators</u>

Operators are people with access to the AxTraxNG[™] software. The default operator names are Administrator, Engineer, and Security.

Different operators have wider or more restricted security rights, from complete control over the system to the ability only to view one section. All Operator passwords are case-sensitive.

For more information, see Section 5.17.

4.5.9 Status Map

The Status Map creates a graphic display of the statuses for every door, reader, and alarm in the facility on user-selected images.

The system can display multiple nested status maps, allowing users to show either the complete access control network or a specific area in detail. For more information, see Section 5.19.

4.5.10 Reports

AxTraxNG[™] can produce various reports, including usage reports, attendance records, visitors, and roll calls. The AxTraxNG[™] Report Wizard allows users to design their own custom reports based on their needs. For more information, see Chapter 10.

This section outlines a recommended step-by-step process for configuring AxTraxNG[™] for a site.

Step	Action	Section
1	Add Time Zones and Holidays	5.1 and 5.2
2	Add a Network	5.3
3	Add and Configure an Access Control Panel	5.4
4	Configure the Doors	5.5
5	Configure the Readers	5.6
6	Configure the Inputs	0
7	Add a Camera	5.8
8	Add Panel Links	5.9
9	Create Groups: Access Groups, Input Groups, and Output Groups	5.10.1, 5.10.2, and 5.10.3
10	Add New Users and Cards	5.11
11	Add Departments, Users and Visitors	3
12	Add Access Areas and Add Global Antipassback Rules	5.14 and 5.15
13	Add Car Parking	5.16
14	Add Operator	iv
15	Add a Status Map	5.19

The AxTraxNG[™] system performs an automatic data download for any parameter related to the hardware. If panels are connected and active, a download count appears on the status bar after any downloaded parameter change. The counter shows **"0"** when a download is complete; however, it may also appear after a failed download.



It is the operator's responsibility to verify that the download operation succeeded or failed. This can be verified in the system event list or by checking the failed download data manually (see Section 11.2).

5.1 Adding Time Zones

A time zone is a group of periods within a week. Door access rights, as well as alarms and input and output behavior, can all be set to behave differently for each time zone. Many operations can be automatically enabled or disabled within a selected time zone.

The *Time Zone Properties* window displays the selected periods for each day of the week. It is possible to set a maximum of eight different time zone periods.

To add a new time zone:

- In the Tree View, select **Timing > Time Zone**. 1.
- 2. On the toolbar, click the 井 icon.

The Add *Time Zone* properties window opens.



- 3 Enter a name for the time zone
- 4 Click and drag the mouse down a day column to select a time interval.
- 5 Right-click the selected area and select **Create**.
- 6. Right-click the selected area and select **Properties** to fine tune the time frame and then click **OK**.
- 7. Repeat Steps 4 to 6 for each day.



You can move a defined time zone to a different day and time using drag and drop.

Note

Note

Click **OK** when all of the time zones are defined. 8.

You can create up to 8 time intervals for each day.

5.2 Adding Holidays

You can add and define annual holiday dates on which it is then possible to set special access behaviors.

There are two ways to add holidays:

- . Add a known national holiday(s)
- ÷. Add a new holiday

To add a national holiday:

- In the Tree View, select the Holidays element. 1.
- On the toolbar, click the 🗾 icon. 2. The Outlook Holidays window opens.

Outlook Holidays		×
Select holidays to import		
	^	Import
Anuolia P. Anantina		Cancel
Austria		
🖶 🔄 Bahrain		
🗃 🔄 Belgium		
🖶 🔄 Bolivia		
🖶 🔄 Brazil		
Bulgaria		
E Chief		
🗄 🗌 Costa Rica		
🖶 🔲 Croatia		
😰 📃 Czech Republic		
🕀 📃 Denmark		
Ecuador		
B Egypt	~	

- 3. From the list, find the relevant country and either:
 - a. Select the main checkbox to select all holidays for that country.
 - b. Expand the checkbox and choose which holidays to add.
- 4. Click Import.
- 5. Click **OK** to confirm.
- 6. Click **OK** to close the *Options* window.

To add a new holiday:

- 1. In the Tree View, select **Timing > Holiday**.
- 2. On the toolbar, click the 👎 icon. The *Add Holiday* window opens.

Holiday					×		
Description							
Holiday 1							
🗹 Enabled	Enabled						
Date	30	May	2011		~		
Every Year							
<u>N</u> ew)		<u>0</u> K		<u>C</u> ancel		

- 3. In **Description**, enter a name for the holiday.
- 4. Select the **Enabled** checkbox to enable the holiday.
- 5. Use the **Date** dropdown to select the holiday's date.
- 6. Select the **Every Year** checkbox to repeat the date yearly.
- 7. Click **OK**.

5.3 Adding a Network

A network is a group of up to 32 access control panels. AxTraxNG[™] communicates with each access control panel that is part of the network.

The *Network* window includes the following information:

- The network's name, address, and activation status
- The DIP switch settings for the communication speed
- The type of network connection and the connection settings

Network				×
General Options				
Description Network 1 Enabled Network type TCP/IP	•		++ +	
TCP/IP Network IP Address	Port			
192.168.20.59	1000	\$		
Speed 9600	Remote (WAN)			
	💿 Local (LAN)		Configuration	
		New	<u>D</u> K <u>C</u> ancel	

The General tab contains the following fields:

Table 2: Add Network > Options Tab

Field	Description			
Description	Name for the network			
	The network address appears to the right of the network name.			
Enabled	Checkbox is selected when the network is connected and operational.			
Network Type	Network type: <i>Serial, TCP/IP</i> , or <i>Modem</i>			
	For TCP/IP connection, set the TCP/IP network (see Appendix C).			
Configuration	Configuration window to set communication preferences.			
Button	This button appears when selecting a Modem or TCP/IP LAN network. For more information, see Appendix C.			

To add a network:

- 1. In the Tree view, select Networks.
- 2. Expand the **Networks** element to view available networks.



- On the toolbar, click the 井 icon. 3. The Add Network window opens.
- 4. In **Description**, enter a name for the new network.
- Select the **Enabled** checkbox. 5.
- 6. In **Network type**, select the network type and set the connection settinas:
 - a. For serial, select the correct COM port.
 - b. For a TCP/IP LAN, click **Configuration** to locate the hardware on the local network
 - For a modem, click **Configuration** to set dialing preferences for the C. computer's and the receiving modems.

For more information on how to configure an access control network, see Appendix C. Check with your system administrator for more information, or contact Rosslare technical support. Clear the *Enabled* checkbox if you want to halt communication to panels on the network.



Access control panels connect to a TCP/IP network via MD-N32 TCP/IP to a serial converter, or by using the on-board module in AC-225IP, AC-425IP, or AC-525. Refer to the relevant hardware installation guides for more details.

7 For all types of networks, set the DIP switch on the access control panel hardware to match the diagram at the top of the screen.



After changing the DIP switch, make sure to power down and then power up the panels.

In the Add *Network* window, click the *Options* tab. 8.

Network
General Options
Panel network using AxTrax Server time zone
Panel network using different time zone
New OK Cancel

- 9. To use the time zone of the AxTraxNG[™] Server for the panel network, select **Panel network using AxTraxNG[™] Server time zone** (default), and then continue to Step 12.
- 10. To select a different time zone for the panel network, select **Panel network using different time zone**.

The Network Time Zone area opens.

Network	×
General Options	
O Panel network using AxTrax Server time zon	e
 Panel network using different time zone 	
Network's Time Zone	
Select Time Zone (Windows Date and Time)	tockholm Vienna
Custom Davlight saving	
Daylight saving date/ time	
01:00 🗢 hh:mm	Every year
Start DST (time)	Stop DST (time)
02:00 🗢 hh:mm	02:00 🗢 hh:mm
Start DST (date)	Stop DST (date)
Month	Month
April	October
Week	Week
Third 🗸 🗸	First 💌
Day of week	Day of week
Sunday 💙	Sunday 🗸
	<u>N</u> ew <u>Q</u> K <u>C</u> ancel

The Network Time Zone area contains the following fields:

Field	Description
Select Time Zone (Windows Date and Time)	From the dropdown list, select the desired time zone.
Custom Daylight saving	Select the checkbox to define custom settings.
Daylight Time	Select the new hour at the time that daylight saving time begins.
Start DST (time)	Select the hour that daylight saving time begins.
Stop DST (time)	Select the hour that daylight saving time ends.
Every year	Select the Every year checkbox to set a day in one of the weeks of a defined month to automatically begin and end daylight saving time every year. Clear the Every year checkbox to set a date for one-time setting of the beginning and end of daylight saving time. In this case, a new date must be set each year.
Start DST (date)	If Every year is not selected, select the commence date for daylight saving time.
Month, Week, Day of Week	These fields are enabled when the Every year checkbox is selected. Select the month, week within the month, and day of the week when daylight saving time is to begin every year.
Stop DST (date)	If Every year is not selected, select the end date for daylight saving time.
Month, Week, Day of Week	These fields are enabled when the Every year checkbox is selected. Select the month, week within the month, and day of the week when daylight saving time is to end every year.

Table 3: Add Network > Options Tab

- 11. Set the Daylight Saving Time definitions according to the field descriptions in the table.
- 12. Click **New** from within Network tab to add a new network.
- 13. Click **OK** to exit the *Network's Time Zone* setup window.

5.4 Adding Access Control Panels

Every network is a cluster of access control panels. In its standard form, each access control panel can be configured as either one or two readers per door. Each of the AC-215, AC-225, and AC-525 panels have two readers and can be configured as a one or two-door panel. Each AC-425 panel has four readers and can be configured as a two or four-door panel.

When using an optional MD-D02 (supported by AC-225 or AC-525) or MD-D04 (supported by the AC-425) reader expansion board, each panel has four or eight readers and is configurable as such.

Use two readers per door when one door acts as both the entrance and exit to an area of the site. When only an entry reader is required, use one reader per door.

For example:

- Use configuration with two readers per door set to IN and OUT to produce attendance reports.
- Use one reader per door configuration to control two doors with an IN reader only (premises will be exited using a REX switch or a mechanical door handle only).



When there is communication with the panel, the Tx and Rx LEDs flash.

5.4.1 General Panel Settings

The *General* tab of the Door Controller Panel Properties window displays the following:

- The panel's address and status
- The DIP switch settings for the panel

If panel expansion boards are installed, the tab also displays:

- The input and output connections for the panel
- The panel's hardware version

Refer to AC-525 Hardware manual for further details.

5.4.2 Adding a Panel

You can add an individual panel using the Tree View.

Alternatively, it is possible to search for panels over the access control network using the *Find Panels* option. This is particularly useful during installations. AxTraxNG[™] finds all connected panels in the network and checks them. Panels can then be quickly activated and updated.

To add an individual panel:

- 1. In the Tree View, click **AC Networks**.
- 2. Select an available network.
- 3. On the toolbar, click the 👫 icon. The *Add Panel* window opens.

Description		Panel address	
2\Panel 1		2 \ 1 🗘	1111111
Enabled Type		Hide events on this PC Firmware version	12345678
2 Readers per door	~		
Hardware version		Bootloader version	
AC-215	*		
Input Fund	tions	Output	Functions
Inpul 1 Door Inpul 1A Door Inpul 2 Spee Inpul 2A Spare	REX Monitor Imput 2 Imput 2A	Output 1 Output 1A Output 2 Output 2A	Door 1 General purpose General purpose General purpose

The *General* tab of the Door Controller *Panel properties* window contains the following fields:

Field	Description		
Description	Type a description for the panel		
Panel Address Type an address number for the panel The network's address appears to the left of the panel address appears to the left of the panel address and Valid entries are 1-32.			
Enabled	Select the checkbox to activate this panel Clear the checkbox if the panel is not connected		
Hide events on this PC	Select the checkbox to hide events originating from this PC		
Туре	Select one or two readers per door		
Hardware Version	Select the appropriate panel hardware type		
Firmware version	Upon selection of the hardware version, the field displays the current firmware version		
Boot loader version	Upon selection of the hardware version, the field displays the current boot loader version		
Inputs	Displays the input connections for the panel		
Outputs	Displays the output connections for the panel		
Test	Click to test if that the panel is correctly connected to the computer The Test Panel window displays hardware details, including hardware type, firmware, and boot loader versions, and indicates whether a reader or I/O expansion board is installed on the panel.		

Table 4: Door	Panel Pro	nerties >	General	Tah
1 abie 4. D001	rallel FIU	per ues >	General	Iau



Make sure that the DIP Switch 3 position on the panel corresponds with its position demonstrated in the *Panel properties* window.

4. Configure the panel according to the fields described in Table 4.

5. Click Test.

The Hardware Test window opens with the complete panel details.

Hardware		×
Firmware version: Bootloader version: Hardware:	ac225v04_01_01 btl_ac225v_01_02 AC-225	
Supervised Inputs: Board:	Yes None	

The test screen displays the following information:

Table 5: Hardware Test Screen

Field	Description
Firmware version	Displays the firmware version of the board
Bootloader version	Displays the boot loader version of the board
Hardware	Displays the hardware name
Supervised Inputs	Displays the panel is secure in case of tampering
MD-1084	Indicates whether or not MD-IO84 exists
MD-D02	Indicates whether or not MD-D02 exists
MD-D04	Indicates whether or not MD-D04 exists
MD-IPAV1	Displays the AC-525 Video board version number

6. Click Close.

The window closes and the display area displays the newly configured panel.

To search for existing panel on the network:

- 1. In the Tree View, expand the **AC Networks** element and select a network.
- 2. On the toolbar, click the *sicon*. The Find Panels window opens.

Panels					
i Fancis					
	Description	Panel Type	Panel Status	Firmware	Select All
	1\Panel 1	AC-215	Not responding		
	1\Panel 2	AC-525	Not responding		Select None
Find Pane	10				Add Panels Close
Tina Tan					

 Click Find Panels to search for all connected panels in the network. Once the detection process is complete (this may take 2-3 minutes), the

display shows all of the detected panels and their corresponding information.

4. Select the panels that you wish to activate and click **Add Panels**.

The selected panels then automatically appear in the Tree View under current network.

5.4.3 Editing the Panel

Each panel has individual settings for antipassback behavior and for recording events.

Once the panel is connected, edit the panel's options from the *Antipassback* and *Options* tabs in the *Panel properties* window.

The Antipassback tab contains the following fields:

Table 6: Network :	Panel Pr	operties >	Antipassback	Tab
--------------------	----------	------------	--------------	-----

Field	Description
Automatic Antipassback	From the <i>Automatic Antipassback</i> dropdown menu, select the time zone for door Antipassback rules to apply.
Antipassback severity	Choose the antipassback severity:
	 Hard – When hard Antipassback is selected, an event is generated and the door does not open. Soft – When soft Antipassback is selected, an event is generated and the door opens.
In/Out reader list	From the IN/OUT readers list, select the checkboxes to apply Antipassback restrictions to Reader 1 through Reader 8, as required. The reader antipassback is enabled when the checkbox is selected.

The *Options* tab contains the following fields:

Field	Description
Events filter	Click Select to open the Events Filter and select the events that this panel should record. Set the filter's operation method:
	Always Active – Only the selected events are recorded by the panel
	• Active when panel disconnected – If the panel is disconnected from the AxTraxNG [™] server, only the selected events are recorded. When the panel is connected to the server, all events are recorded.
	Note: In the default configuration, some events are filtered and may not be seen in the display area Events view
Door Interlock	Select the Enabled checkbox to enable Door Interlock. Select the Door 1-8 checkboxes to apply the Door Interlock restrictions to Doors 1-8.
	The Door Interlock function is only enabled when the Enable checkboxes and a minimum of two doors are selected.
AC-525 USB Storage (applicable when	From the Alarm Threshold Range (%) dropdown menu, select the percentage of available memory consumed to determine when the system generates the "USB Disk Low Level" event.
connected to AC- 525 only)	The USB disk on key status is monitored roughly once an hour. Therefore, be sure to select an acceptably low threshold level and consider that any related alarm may be set off up to one minute after the actual event occurs.
Full Upload	Click Start to re-upload all events from panel memory. Use the option only after consulting Rosslare's Technical Support.
	Note: A full upload can take up to 3 hours.

Table 7: Network >	> Panel Pro	operties >	Options	Tab

Field	Description
User Counter on re- enable the panel	This option allows you to reset the user counter to its starting value in the event that a panel is disconnected and then reconnected again.
	This option is only visible when the Deduct User Counter checkbox is selected in the <i>General</i> tab of the <i>Readers Properties</i> window (Section 5.6.1).

To edit a panel:

1. In the Tree View, click **AC Networks**.

The available networks are listed in the display area.

- 2. Expand a network.
- On the toolbar, click the *i* icon. The *Panel Properties* window appears.
- 4. Click the *Antipassback* tab.

Panel properties	×
General Antipassback Options	
C Door Antipassback	
Automatic antipassback.	Hard (alarm and access denied) Soft (alarm only)
IN Readers: Reader 1 Reader 3	OUT Readers: Reader 2 Reader 4
	Iest New QK Cancel

Each panel has individual antipassback settings for door antipassback behavior.

5. Set the Antipassback behavior, according to the field descriptions in the table.

6. Click the *Options* tab.

Panel properties	
General Antipassback Options	
Events filter Select Select reported events.	
Full upload Start Re-upload all events from panel memory.	
Door Interlock	
Door 1 Door 2	
User Counter on re-enable the panel	
Set new counter	
	Test New OK Cancel

- 7. Set the event filtering options for this panel.
- 8. Click **OK**.

The window closes and the configured panel is displayed.

5.5 Configuring the Doors

Each panel controls one to eight doors. Each door can be configured individually.

The *Door Properties* window displays the following:

- The settings for unlocking and relocking
- The time available before the door relocks or records alarm events

Door	
Details Description 1\Panel 2\Door 1	Auto relock
<u>BEX</u> enabled <u>Eirst person delay on automatic unl <u>Manual door open enabled Door output polarity is Normally Clo </u></u>	lock
Timers Door open time	0:04 📚 (min:sec)
Extended door open time	0:08 📚 (min:sec)
Door held open	0:30 🔷 (min:sec)
Door forced open	0:00 🔶 (min:sec)
	<u>O</u> K <u>C</u> ancel

The *Door Properties* window contains the following fields:

Field	Description
Description	Type a name for the door.
Auto-Relock	Select the event that causes the door to relock automatically.
REX enabled	A Request to Exit unlocks the door for a user-defined duration. Select the checkbox to allow Requests to Exit for this door. The location of the door REX input depends on panel configurations; it can be seen in the Panel properties window.
First person delay on automatic unlock	Sets the door's behavior during an automatic unlock time zone. Select the checkbox to require that during the selected Time Zone, the door remains locked until the first user opens it. The automatic unlock time zone is selected in Panel Links by selecting the output corresponding to that door (see Section 5.9).
Door output polarity is Normal Closed	Select this checkbox to ensure Fail Safe door opening if the Fail Safe door Lock Device power fails. Once enabled, the door output relay is activated when the door is closed and is deactivated when the door is open. In this configuration, the Fail Safe lock device should be wired to the door relay N.O. (Normal Open) and COM (Common) terminals.
Manual Door Open Enabled	Select this checkbox to allow operators to adjust the door manually (see Section 5.9).
Door open time	Set the duration for which the door stays unlocked.
Extended door open time	Set the duration for which the door stays unlocked for users with Extended door open rights.
Door held open	Set the duration for which the door can be held open without raising an alarm event.
	Select the checkbox to use this timer; for the Server application, the Pop-up and Snapshot section opens.
	Note: If this feature is enabled, then the Activity start delay (Section 5.7) feature for that door must be set to 0.
Door forced open	Set the duration after which when the door is forced open, an event occurs.
	Pop-up and Snapshot section opens.
	Note: If this feature is enabled, then the Activity start delay (Section 5.7) feature for that door must be set to 0.

	Demal.	D	D	D	_
lable 8: Network >	Panel >	Doors >	Door	Propertie	S

To edit the door properties:

- 1. In the Tree View, click **AC Networks**.
- 2. Select a network and expand a panel in the Tree View.

3. Select **Doors**.

The available doors are listed in the display area

4. Select a door in the display area.

5. On the toolbar, click the 📧 icon.

The Door Properties window opens.

- 6. Configure the door as required.
- 7. Click **OK**.

5.6 Configuring the Readers

A panel can be connected to two, four, or eight readers, when the MD-D02 or MD-04 extension boards are connected.

The *Reader Properties* window has three tabs:

- General tab Sets the reader general operation settings
- Options tab Sets access options for the reader
- Access event tab Sets options for window pop-ups per event

5.6.1 General Tab

The General tab in the Reader window displays:

- The settings for how the reader operates
- The type of reader being used

Reader			X
General Optio	ns Access event		
Details			
Description		Operation mode	
1\Panel 1\Re	ader 1	Card Only 🗸 🗸	
Direction:	💿 In	Secured (Card+PIN) time zone	
	🔘 Out	Never 🗸	
Activation:	🗹 Open 1\Panel 1\Door 1	Deduct User counter	
_ Туре			
Primary Read	er type	Keypad type	
Wiegand 26 bits		/ Inactive 🗸	
Secondary R	eader type		
None	•	*	
Check fa	cility code only	AYCW6500 Biometric Reader	
-		OK Cancel	

The *General* tab in the *Reader* window contains the following:

Field	Description
Description	Type the name of the reader.
Operation Mode	Select how the reader operates.
	 Inactive: The reader is not in use. Card Only: The reader uses RFID cards only. PIN Only: The reader uses PIN inputs only. Card or PIN: The reader uses both cards and PIN codes. Desktop: The reader is inactive, but is being used to record new cards on the computer. No Access Mode: The reader does not grant access to any users.
Direction	Select whether the reader is allowing entry into the area or exit out of the area.
Secured (Card+PIN) time zone	Select a time zone during which access should be granted only after both the card and PIN are entered. The PIN must be entered within 10 seconds of card entry. Note: When using a secured time zone , <i>Keypad type</i> must
	be defined.
Open Door	Select the checkbox to allow the reader to unlock the door.
Deduct User Counter	Select the checkbox to record this entry against the user's entry allowance counter. See Section 5.13.2.1.
Primary Reader type	Select the data transmission type for the primary reader hardware.
Secondary Reader type	Select the data transmission type for the secondary reader hardware.
	Note: This field is used when 2 different types of cards are used.
Keypad type	Select the data transmission type for the type of keypad hardware.
Check facility code only	Select the checkbox to allow access to any user assigned to a facility listed in the selected list of facilities. The list of facilities is defined in the <i>Options</i> tab
AYCW6500 Biometric Reader	Select the checkbox to interface with the AYC-W6500 biometric reader and its PC application, BioTrax.

Table 9: Network > Panel > Readers > Reader Properties > General Tab

5.6.2 Options Tab

The Options tab in the Reader window displays:

- Timed antipassback settings for the reader
- Restricted site access settings

Reader	×
General Options Access event	
Timed antipassback Automatic antipassback	
Never 🗸	Hard (alarm and access denied)
Time 1	○ Soft (alarm only)
Facility Codes	
	<u> </u>

The Options tab in the Reader window contains the following fields:

Table 10: Netwo	ork > Panel > Readers > Reader Properties > Options Tab
	Description

Field	Description
Automatic Antipassback	Select whether to apply antipassback rules. To set Time Zones, see Section 5.1.
Hard	When hard antipassback is selected, an event is generated and the door does not open.
Soft	When soft antipassback is selected, the door opens but an event is generated.
Time	Set the number of minutes before a user can reenter using this reader.
Facility Codes	Click and type the facility code (between 0-255). Up to four different facility codes can be entered.

5.6.3 Access Event

The *Access event* tab in the *Reader* window defines the alerts pop-up windows behavior on the local PC.

Reader	
General Options Access event	
Enable pop up user window by events - PC RG	11
Access Granted	Close window options
Access Denied	 Manually
Access Recorded	By timer 0:04 (min:sec)
Enable Cameras options by events	
Access Granted	PC RQ1
Access Denied	Popup Enabled
Access Recorded	
Camera	Close window options
Camera A 🗸 🗸	O Manually
Options	By timer 0:04 (min:sec)
Pop up Live video window 💌	
	OK Cancel

It contains the following fields:

Table 11: Network > Panel > Readers > Reader Properties > Access Event Tab

Field	Description
Access Granted	Mark to checkbox to enable a pop-up window for Access Granted event type alerts.
Access Denied	Mark to checkbox to enable a pop-up window for Access Denied event type alerts.
Access Recorded	Mark to checkbox to enable a pop-up window for Access Recorded event type alerts.
Close window Options	Once a pop-up is enabled, the close window options are available. Select one of two options:
	 Manually: The operator is required to manually close the pop-up window. By timer: The pop-up window closes automatically based on the predefined timer.
Camera Available only with AC-525	Select the name of the camera that takes snapshots or that appears when triggered by this reader. For example, the camera named 1\Panel 1\Camera A AC-525.

To configure a reader:

- 1. In the Tree View, click **AC Networks**.
- 2. Select a network and expand a panel in the Tree View.
- 3. Select **Readers.**

The available readers are listed in the display area.

- 4. Select a reader in the display area.
- 5. On the toolbar, click the 📧 icon.

The Reader Properties window opens to the General tab.

- 6. Configure the reader as needed using the tabs described in the above subsections.
- 7. Click **OK**.

5.7 Configuring the Inputs

Each panel has four inputs. Using the MD-IO84 expansion board adds an additional eight inputs (a total of 12 inputs). Using the MD-D02 or MD-D04 expansion board adds four inputs (a total of 8 inputs). Some inputs are dedicated and have default functionality and some are for general purpose.

The *Input Properties* table window displays the settings for each input. Input type is programmed individually, regardless of whether it is a dedicated input or for general purpose use.

The Input Properties table contains the following fields:

Field	Description
Location	A display field showing the input name
Description	Type a name for the input.
Туре	Select the type of input to be monitored.
	Normally Open/Close: An input either in an open or closed state
	 Normally Open/Close 1 Resistor: An input in an open, closed, or trouble state. This option is only available for supervised inputs.
	 Normally Open/Close 2 Resistors: An input in an open, closed, or trouble state, with additional checks for short-circuit and open-circuit tampering. This option is only available for supervised inputs.
	For more information, refer to the Access Control Panel's hardware manual.
Activity start delay	Set the delay time before this input becomes active. Note that on normally open input, the delay starts once the input contact is closed. On normally closed input, the delay starts once the input contact opens

Table 12: Network > Panel > Inputs > Input Properties

To configure an input:

- 1. In the Tree View, click **AC Networks**.
- 2. Select a network and expand a panel in the Tree View.
- 3. Select Inputs.

The available inputs are listed in the display area

- 4. Select an input from the display area.
- 5. On the toolbar, click the 🚾 icon.

The Input Properties window opens.

T	Table View			×	
4					
Γ		Location	Description	Туре	Activity start delay
E		Input 1	1\Panel 2\Door 1 REX	Normally Open	00:00
L		Input 1A	1\Panel 2\Door 1 Monitor	Normally Close	00:00
I	•	Input 2	1\Panel 2\Door 2 REX	Normally Open	00:00
		Input 2A	1\Panel 2\Door 2 Monitor	Normally Close	00:00

6. Select an input and configure it as required.

5.8 Adding a Camera

See Chapter 6.

5.9 Adding Panel Links

Panel links are rules defining how the system should behave when events occur in the access control panel.

The *Link Properties* window displays the following:

- An event on a panel and the panel component to which the link response applies
- The required input or output response
- Any alarm message to display on the current AxTraxNGTM Client computer

The Add Link window contains the following fields:

Table 13: AC Networks > Network > Panel > Links > Add Link Window

Field	Description
Source Type	Select the panel component type, input, output, reader, and so on which is the event source
Source	Select the specific panel component that raises the event based on the source type selected.
	Up to 8 links can be created for each source type in the AC-225, AC-425, and AC-525 panels. Up to 2 links can be created for each source type in an AC-215 panel.
Event	Select the event type for the panel component
Event Description	Type the link or event description
Enabled	Select the checkbox to enable the link rule
Generate Alarm	Select the checkbox to generate an alarm event in addition to the link rule activity
Destination Type	Select the panel component type, which is to be activated by the link rule trigger event
Destination	Select the specific panel component, which is to be activated by the link rule trigger event

Field	Description	
Operation	Select the operation performed by the destination panel component	
Time	Define a duration timeframe for the operation. This box is only available when a time-bound operation is selected	
Time Zone	Select the time zone for which the link rule applies	
PTZ Preset	Set the default preset PTZ (Pan, Tilt, Zoom) camera position	
position (available with AC-525)	Note: To activate this feature, you must set the preset to ViTrax.	
Alarm Handler	Opens the Alarm Handler configuration window, which contains the following fields:	
	Alarm Message: Type a personalized message to be displayed on the screen as an alarm message when the selected event occurs	
	Popup Enabled: Select the checkbox to enable an alarm pop- up message	
	Select Color button: A color selection window opens allowing a color selection for the alarm message	
	Browse button: Find and upload an audio wav file to be	
	sounded when the selected event occurs	
	 Sound Now button: After uploading the audio file click to button to hear the audio file 	
	Local Sound Enabled: Select the checkbox to enable sound for the alarm	
	• Fire Input Alarm: Select this checkbox to open all outputs, usually relevant for fire alarms	
	The Alarm Handler function is only enabled when the <i>Generate Alarm</i> checkbox is selected.	
	In addition, when a camera is linked to a panel, the following fields appear in the window:	
	Camera: List of available cameras	
	• Options : How the alarm is displayed	
	• Popup Enabled : Activates a popup to appear on the user's screen when alarm is triggered	
	Close window options: Can choose By timer and specify the time, or Manually	

Numerous events and links can be defined in Panel Links. It is the operators' responsibility to avoid conflicting or non-logical definitions. Not all events sources that appear in the *Links* window are enabled in the panel; this too is the operator's responsibility to verify. Link condition operations should be checked after making any changes in the links definitions.

To create a panel link:

- 1. In the Tree View, click **AC Networks**.
- 2. Select a network and expand a panel in the Tree View.
- 3. Select AC Links.
- 4. On the toolbar, click the 井 icon.

The Add Link window opens.

Link		
Source Type Input	~	Destination Type None
Source		Destination
Input 1 - 1\Panel 2\Door 1 REX	*	None
Event		Operation
Contact Closed	*	None 🔽
Event Description Contact Closed		Time (m:ss) 0:04
🗹 <u>E</u> nabled		Time Zone
🔲 <u>G</u> enerate Alarm		Always
		Alarm <u>H</u> andler
		New <u>O</u> K <u>C</u> ancel

- 5. Configure the link rule as required, according to the field descriptions in the Table 13.
- 6. Select the **Generate Alarm** checkbox to activate the Alarm Handler button.
- 7. Click Alarm Handler.

The Alarm Handler window opens.

arm handler – PC SOFIA	δ
Message Popup Alarm Message	
Power Evabled	
Use highlight alarm event	Fire Input Alarm
Sound	
Select Wave Audio file	
Local Sound Enabled	Sound Now Browse
	<u> </u>

8. Configure the alarm handler as required, according to the field descriptions in the table above.

- 9. Click **OK** to close the *Alarm handler* window and return to the *Link* window.
- 10. Click **OK** to close the *Link* window and save the link rule configuration.

5.9.1 Creating a Fire Alarm Input

You can configure the panel properties to generate a fire alarm warning.

To create a fire alarm input:

- 1. In the Tree View, click **AC Networks**.
- 2. Select a network and expand a panel in the Tree View.
- 3. Select AC Links.
- 4. On the toolbar, click the 井 icon.

The Add Link window opens.

Link	×
Source Type	Destination Type
Source	Destination
Input 1 - 1\Panel 2\Door 1 REX 🛛 🗸	None
Event	Operation
Contact Closed 🛛 🗸	None 🔽
Event Description	Time (m:ss)
Contact Closed	0:04 🔷
✓ Enabled	Time Zone
🔲 <u>G</u> enerate Alarm	Always 🔽
	Alarm <u>H</u> andler
	<u>N</u> ew <u>Q</u> K <u>C</u> ancel

- 5. Configure the link as follows:
 - a. In Source Type, select Input.
 - b. In Destination Type, select Output Group.
 - c. In Operation, select Timer.
 - d. Select the Generate Alarm checkbox.

6. Click Alarm Handler.

The Alarm handler window opens.

Message Popup Alarm Message I	
Popup Enabled	
Use highlight alarm event	Elect Color Open all Outputs of selected Output group
Sound Select Wave Audio file	

- 7. Configure the alarm handler as required, according to the field descriptions in the table above.
- 8. Select the **Open all Outputs of selected Output group** checkbox.
- 9. Click **OK** to close the *Alarm handler* window and return to the Add *Link* window.
- 10. Click **OK**.

5.10 Creating Groups

You can create access groups and areas, as well as input and output groups to be used by the system to create automated rules.

5.10.1 Adding Access Groups

An access group includes a list of door readers and the time zones during which each of those door readers are available for access. Every user is assigned to an access group.

To add an access group:

- 1. In the Tree View, expand the *Groups* element and select Access Groups.
- 2. On the toolbar, click the 井 icon.

The Add Access Group window opens.

Access Group		×
Description		
Access Group 2		
New	<u>0</u> K	<u>C</u> ancel

- In the *Description* field, enter a name for the access group and click OK. The new access group appears in the View Tree.
- 4. Select the access group from the View Tree and click the 🚾 icon.

The Access Group Properties window opens.

Ac	cess Group - Details			×
	Time zone			
	Always	~		
	Available		Selected	
	1\Panel 2\Reader 1 1\Panel 2\Reader 2 1\Panel 3\Reader 1 1\Panel 3\Reader 1 2\Panel 3\Reader 2 2\Panel 2\Reader 1 2\Panel 2\Reader 2	*		
		New	<u> </u>]

- 5. From the *Time zone* dropdown, select a time.
- 6. Select and move the desired readers from **Available** to **Selected** using the arrows.
- 7. Click **OK**.

The window closes and the new access group appears in the Display Area.

5.10.2 Adding Input Groups

Input groups are a collection of inputs from one or more panels that can be used in panel links to perform advanced operations.

To create an input group:

- 1. In the Tree View, expand the *Groups* element.
- 2. Select Inputs Groups.
- 3. On the toolbar, click the 井 icon.

The Input Group window opens.

Input Group	×
Description Input Group 1	
€ E Network 1	Select All

- 4. In the *Description* field, enter a name for the input group.
- 5. Expand a network to see its panels.

Input Group	×
Description Input Group 1]
Network 1 Network 1 Network 1 Network 1 Network 2 Network 2	Select <u>A</u> ll
<u>N</u> ew <u>D</u> K	<u>C</u> ancel

6. Select the checkboxes of all relevant inputs.

You can also use **Select All** and **Select None**.

7. Click **OK**.

The window closes and the new input group appears in the display area.

5.10.3 Adding Output Groups

Output groups are a collection of outputs from panel that can be used in panel links to perform advanced operations, such as elevator control.

To add an output group:

1. In the Tree View pane, expand the *Groups* element.

- 2. Select Outputs Groups.
- 3. On the toolbar, click the 🕂 icon. The *Output Group* window opens.

]
Select <u>All</u>
<u>N</u> ew <u>QK</u>

- 4. In the **Description** field, enter a name for the input group.
- 5. Expand a network to see its panels.

Output Group	×
Description Output Group 1]
Wetwork 1 11Panel 2/D Joor 1 11Panel 2/D Joor 2 11Panel 2/D Joor 2 11Panel 2/D Joor 2 11Panel 2/D Joor 2 11Panel 3/D Joor 2 11Panel 3/D Joor 2 11Panel 3/D Joor 1 2Panel 2/D Joor 1 2Panel 2/D Joor 1 2/Panel 2/D Joor 1 2/Panel 2/D Joor 2 2/Panel 2/D Jour 2A	Select <u>A</u> I
New QK	<u>C</u> ancel

6. Select the checkboxes of all relevant outputs.

You can also use **Select All** and **Select None**.

7. Click **OK**.

The window closes and the new output group appears in the display area.

5.10.4 Defining Card + Card Groups

Card + Card mode is a secure mode that requires two card holders (users) to grant access to a particular reader.

This feature is only available to Access Control panels AC-225, AC-425, and AC-525.

5.10.4.1 Adding a Card + Card Group

First, you must add a Card + Card group.

To add a Card + Card group:

- 1. In the Tree View pane, expand the *Groups* element.
- 2. Select Card + Card Groups.
- 3. On the toolbar, click the 井 icon.

The Output Group window opens.

Card + Card Group		×
Description		
Card + Card Group 1		
	<u> </u>	<u>C</u> ancel

- 4. In the **Description** field, enter a name for the input group.
- 5. Click **OK**.

The window closes and the new Card + Card group appears in the display area.

5.10.4.2 Adding Users to a Card + Card Group

Once a Card + Card group is created, you must add users to it.

To add users to a Card + Card group:

- 1. In the Tree View, expand the **Departments/Users** element and select a department that contains the users you wish to add to the Card + Card group.
- 2. Select a user in the Table View area.
- 3. On the toolbar, click the 🚾 icon.
- 4. In the General Tab of the User Properties window (see Section 5.13.2.1), select the Card + Card group from the **Card + Card Group** dropdown.
- 5. Click **OK**.
- 6. Repeat this process for each user you wish to add to a particular Card + Card group.

5.11 Adding Users and Cards

The AxTraxNG[™] database maintains a list of every user card or PIN that has ever been assigned. The *Add Users and Cards* window is used to define:

- The type of reader needed to read the card
- The number of cards to create
- Whether or not a user should be created for each new card

The Add Users and Cards window contains the following fields:

Field	Description	
Selection Type	Select what will be added: Users and cards, Users only, or Cards only	
Quantity	Type or select the number of cards/users to add	
Sequential cards	Define the card properties:	
	Reader Type: Select the type of reader appropriate for the new cards being added Start from: Type the number of the first card in the set	
	 Start from: Type the number of the first card in the set Facility code: Type the site code for these cards. This field is not available for all reader types 	
Sequential Users –	Define the users general properties:	
General	• Department: Associate to the new user(s) created to a department	
	Access Group: Associate to the new user(s) created to an Access group	
Sequential Users –	Define the users right properties:	
Rights	Antipassback immunity: Select the checkbox to override any antipassback restrictions	
	• Extended door open time: Select the checkbox to activate the extended door option defined for each door	
Sequential Users – Pin Code	Select the checkbox to define automatic pin codes, select between:	
	 Start from: Sequential pin code starting from a predefined number based on a defined number of digits Random: Random pin codes where the only definition is the number of PIN code digits 	
Sequential Users –	Define the access right validity:	
Valid date	 From: Define the date and time to begin allowing access Until: Select the checkbox to define an end date for the access right validity, then define the date and time 	
Sequential Users –	Select the checkbox to define associated link commands:	
Links	 Access Granted command: Activate a user-defined set of inputs or outputs for access granted events Access Denied command: Activate a user-defined set of inputs or outputs for access denied events Handicapped checkbox: Activate a dedicated output a short time after the door is unlocked. The outputs are set in the Links window. User selected Output group: Select an output group for this user. The outputs are triggered every time the user accesses a door. The operations, inputs, and outputs are defined in the Links 	

Table	11.	Carde	~ V44	Licore and	Carde	Window
rable	14.	Carus :	> Auu	Users and	carus	window

Field	Description
Sequential Users –	Select the <i>Enable</i> checkbox to use the counter option then
Counter	type or select the counter number to be used for the first user

To add users and cards:

- 1. In the Tree View, expand the **Users** element and select **Cards**.
- 2. On the toolbar, click the 🔜 icon.

The Add Users and Cards window opens.

Insert Users and Cards		X
Selection type Add Users and Cards Quantity 1	Sequential cards Reader type Wiegand 26 Bits Start from (1 To 65535)	Facility code (0 To 255)
Sequential Users General General Access group Master Valid date From	n 4 🗘 Digits	inks Access <u>G</u> ranted command Access Deried command Handicapped User selected Dutput group None
Antigessback Immunity 23/ 5 /11 Egtended door open time 23/ 5 /11	▼ (23.59) (I	Conter Enable 1 0 (1 to 1000)

- 3. Configure the user and card properties as required, according to the field descriptions in the table above.
- 4. Click **OK** to close the window.

The process may take a few minutes after which a dialog reports that the operation has been completed.

5.11.1 Setting Card Automation

You can program the system to automatically keep track of any user card that has expired because of non-use over specified period of time. Once detected, this card can either be deleted automatically or you can be notified of it.

To set card automation:

- 1. In the Tree View, expand the **Cards** element and select **Card automation**.
- On the toolbar, click the discontinuation.
 The *Card automation* window opens.

Card automation	
Automation Type	
Automation description	
Delete card automatically	
Period 60 🛟 (days)	
	OK Cancel

- 3. From the **Automation Type** dropdown, choose the action to be taken when a card has not been used in a certain period of time.
 - Delete card automatically
 - Ask before card deletion
 - Notify by email
 - Report in System Event Log only
- 4. From the **Period** spin box, choose the time period.
- 5. Click **OK**.

5.12 Card Design

See Chapter 7 for how to create and print card templates.

5.13 Adding Departments, Users, and Visitors

Every user is associated with a department. For each user, AxTraxNG™ stores contact details, associated card details, and access rights.

5.13.1 Adding Departments

To add a department:

- 1. In the Tree View, select the *Departments/Users* element.
- 2. On the toolbar, click the 井 icon.

The Add *Department* window appears.

Department	X
Description	
Department 5	
<u>N</u> ew	<u> </u>

 In the **Description** field, enter a name for the department and click **OK**. The window closes and a new department is created.

5.13.2 Adding Users

Adding users to a department is done by using the *Add User* window.

The Add User window contains three main tabs (Figure 2):

- General tab Displays identification and control information
- Codes tab Displays card information associated with the user
- Details tab Records user contact details

In addition, there are two content-oriented windows:

- User Fields Stores user-defined data
- Visitor Tab Appears when the user is defined as a visitor (Section 5.13.3)

5.13.2.1 General Tab

The General tab displays:

- User identification information
- User validity settings
- Access rights for the user

Figure 2: User Properties > General Tab

User properties		X	
General Codes Details			
Photo	First Name	Middle name	
	11		
	Last Name	User Number (1 to 200000000)	
	1	1	
	Department	Access group	
	General 👻	Master 💙	
	Car Parking Group	Card + Card Group	
	None 🗸	None	
	Identification		
	Valid date		
Add	From	<u>U</u> ntil	
	10/29/2012	10/29/2012 💌	
Color	00:00 😂	23:59	
Location	Counter		
Bights	Enable	Counter value	
Antipassback Immunity	Set new counter	100 (1 to 1000)	
Never	Links		
	Access Granted command	User selected Uutput group	
Extended door open time		None	
HLX <u>A</u> rm	Access Denied command	Handicapped	
Print card	Ne	w <u>O</u> K <u>C</u> ancel	
The General tab contains the following fields:

Field	Description	
Photo > Add	Click to add a photo of the user, or to remove an existing photo. The selected photo aspect ratio should be 1.25 H x 1.00 L; otherwise, the photo may be distorted.	
First Name	Type the user's first name.	
Middle Name	Type the user's middle name.	
Last Name	Type the user's last name.	
User Number	Type a unique user number to identify the user.	
Department	Select the user's associated department.	
Access Group	Select the user's access group.	
Car Parking Group	Select to add a user to a defined Car Parking group.	
Card + Card Group	Select to add a user to a defined Car + Card group.	
Identification	Add text that identifies the user	
Color	Click to select which color to use to highlight this user when the user generates access events. User highlighting must be activated in Tools > Options > General tab.	
Location	Click to display a log of doors accessed by this user.	
Valid date > from	Select the date/time from when the user's access rights begin.	
Valid date > until	Select the date/time on which the user's access right end. This field is only available when the checkbox is selected.	
Counter > Enable	Select the checkbox to set an access rights countdown counter for this user (see Appendix E). When the counter reaches zero, the user's access rights end.	
Counter > Set new counter	Select the checkbox to set a new countdown counter value for this user (see Appendix E).	
Counter > Counter Value	Select a new countdown counter value for this user. This field is only enabled when the <i>Set new counter</i> checkbox is selected.	
Rights > Antipassback immunity	Select the checkbox to override any Antipassback restrictions for this user.	
Rights > Extended door open time	Select the checkbox to entitle this user to an extended unlocked door duration. The extended duration is set for each door (see Section 5.5).	

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Field	Description
Rights > HLX Am	Gives the user the right to arm/disarm an HLX panel (see Section 8.10).
Links > Access Granted command	Select the checkbox to activate a link rule initiated by access granted commands for this user (see Section 5.9).
Links > Access Denied command	Select the checkbox to activate a link rule initiated by access denied commands for this user (see Section 5.9).
Links > User selected Output group	Select an output group for this user. The outputs are triggered every time the user accesses a door, as specified in the <i>Links</i> window (see Section 5.9).
Links > Handicapped check- box	Select the checkbox to activate a dedicated output a short time after the door is unlocked (see Section 5.9).

5.13.2.2 <u>Codes Tab</u>

The *Codes* tab displays:

- The cards assigned to this user (up to 16 cards)
- The PIN code assigned to this user

properties						
ieneral Codes	Details					
Card Codes						
(Card Type		Facility Code	Card Number	Status	
* \	Viegand 26 bits	~			Active	~
			Add	From MD-08	Add From List.	
PIN Code						
Number of	digits(4 to 8)	Code		ſ	Auto PIN	
4 🗘						
4 🗢						
Duress PIN (lode	Code			Auto DIN	
4 COURSES PIN (Code	Code		(Auto PIN	
4 🗢	Code	Code		(Auto PIN	
4 Courses PIN (Code	Code			Auto PIN	

The *Codes* tab contains the following fields:

Table 16: Departments/Users > Department > User Properties > Codes Tab

Field	Description		
Card Type	The card type used by the reader/user		
Facility Code	The site code assigned to this card		
Card Number	The unique number of this card		

Field	Description	
Status	Select the status of the card. Inactive cards cannot gain access to the facility	
Number of digits	Select the length of the PIN for this user	
Add from MD-D08	Click to read card details using MD-D08 module.	
Add from list	Click to add a new card.	
	All cards within the user's specified facility code, are listed	
Code	The 4- to 8-digit PIN and/or Duress PIN code	
Auto PIN	Click to automatically generate a random PIN	

5.13.2.3 Details Tab

The *Details* tab contains detailed contact and identification details about the user.

User properties	
General Codes Details	
Telephone	Home telephone
Mobile	Car registration
Fax	Title
Email	Employment date
	1/1/00
Address	Notes
	Details
-	New QK Cancel

The *Details* tab contains the following fields:

Table 17: Departments/Users > Department > User Properties > Details Tab

Field	Description		
Telephone	Type an office telephone number for the user.		
Mobile	Type a cell phone number for the user.		
Fax	Type a fax number for the user.		
Email	Type an email address for the user.		
Address	Type a postal address for the user.		
Home telephone	Type a home telephone number for the user.		
Car registration	Type the user's license plate number.		
Title	Type the user's title (e.g. "Mr.").		
Employment Date	Enter the date that the user joined the firm.		
Notes	Type any additional information.		
Details	Click to open the user's additional details folder.		

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5.13.2.4 User Fields Tab

The User Fields tab can be used to store any information required by the system operator.

User fields are defined in the *Tools > Options > User Fields/Default* tab (see Section 11.5.2).

To add a user:

- 1. In the Tree View, expand the **Departments/Users** element and select a department for the new user.
- 2. On the toolbar, click the 井 icon.

The Add User window opens.

- 3. Enter the user details as needed using the tabs described in the above subsections.
- 4. Click **OK**.

The window closes and the added user is displayed.

5.13.3 Adding Visitors

AxTraxNG[™] stores contact details for each visitor, associated card details, and visitor access rights.

The Visitor's options tab contains the following fields:

Table 18: Departments/Users	> Visitors > Add User >	Visitor's Options Tab
-----------------------------	-------------------------	-----------------------

Field	Description		
Visitor Identification	Type a unique visitor identification		
Visit Date/Time	Select the checkbox and specify the date and time for the visit		
Automatic disable on exit	 Define automatic disable access right options Access Area: Select the Access Area to disable access to Inactive card: The designated card automatically becomes inactive upon exit Unauthorized user: the designated access group changes to Unauthorized upon exit 		
Hosted	 Define the details for the hosting party: Department: Select the Department User: Select the hosting User Comment: Type any additional information 		

To create visitors:

- 1. In the Tree View, expand the *Users* element and select **Visitors**.
- 2. On the toolbar, click the 井 icon.

The same *Add User* window as before opens; however, now the *Visitor's Options* tab is available.

lser properties	
General Codes Details Visitor's options	
Visitor identification	Automatic disable on exit Access Area
	Global 🗸
Visit Date/Time	Options
29/ 5 /11	 Inactive card
16:46	O Unauthorized user
Hosted	
Department	User
General 🛩	Smith, Jon 💌
Comment	
	New <u>D</u> K <u>C</u> ancel

- 3. Enter the visitor specific options as needed.
- 4. Enter the visitor's details in the various tabs as explained in detail in the user subsections.
- 5. Click **OK**.

The window closes and the added visitor is displayed.



Users may be moved to other department or redefined as a Visitor. A visitor may be moved into any department and changed to a regular user. These can be done by using the General tab and selecting the new department to which you wish to the user or visitor.

5.14 Adding Access Areas

A large site can be divided into several smaller, more manageable access areas. Reports can be produced individually for each area. In addition, global Antipassback rules can be applied for each access area. When global Antipassback rules are in effect, users cannot re-enter an access area until they have left it.

Use the *Access Area* window to add entry and exit door readers to and from an area within the facility.

To add an access area:

- 1. In the Tree View, expand the **Groups** element.
- 2. Expand the Access Areas element and select Global.

Setting Up a Site

3. On the toolbar, click the 井 icon.

The Add Access Area window opens.

Insert Access Area	*******	×
Description:		
Access Area 1.1		
Available Readers To Enter: 1\Panel 1\Reader 1 1\Panel 1\Reader 2 1\Panel 2\Reader 1 1\Panel 2\Reader 2	→ (+)	Selected Readers To Enter:
Available Readers To Exit: 1\Panel 1\Reader 1 1\Panel 1\Reader 2 1\Panel 2\Reader 1 1\Panel 2\Reader 1	* *	Selected Readers To Exit:
		OK Cancel

- 4. In the **Description** field, enter a name for the access area.
- 5. Select and move the desired readers from **Available Readers to Enter** to **Selected Readers to Enter** using the arrows.
- 6. Select and move the desired readers from **Available Readers to Exit** to **Selected Readers to Exit** using the arrows.

7. Click **OK**.

The window closes and the new access areas appear in the Display Area.

5.15 Adding Global Antipassback Rules

Global antipassback functionality is only enforced when the AxTraxNG[™] Server is connected and monitoring the entire access control system.

To create antipassback rules:

- 1. In the Tree View, select **Global Antipassback**.
- 2. On the toolbar, click the 井 icon.

The Add Global Antipassback window opens.

Global Antipassback 🛛 🛛 🔀					
Description					
Global antipassback 1					
Access Area					
Access Area 1.1					
Automatic Antipassback					
Never 🗸					
Hard (alarm and access denied)					
 Soft (alarm only) 					
<u> </u>					

- 3. In the **Description** field, enter a name for the antipassback rule.
- 4. From the Access Area dropdown, select the access area.
- 5. From the *Automatic Antipassback* dropdown, select the time zone for which the global antipassback applies.
- 6. Select either the **Hard** or the **Soft** Antipassback option.
- 7. Click **OK**.

The window closes and the global antipassback rule appears in the Display Area.

Global Antipassback applies an Antipassback event only on "Enter" readers to the defined "Area".

Note To implement Antipassback on Exit readers as well, you must define a new area with opposite reader directions:

Readers defined "Enter" in the first area need to be defined again in the new area as "Exit" readers, and "Exit" readers in the first area should be defined as "Enter" readers in the second area.

5.16 Car Parking

The Car Parking management option allows you set up groups that have limited number of users who can access a particular area. For example, a parking lot that serves several companies and each company has a specified number of parking spots. With this option, we can set up each company's limit and when the limit is reached, access is no longer granted. This feature is counter based that keeps track of the number of users in a specified area.



Note

This feature is only available to Access Control panels AC-225, AC-425, and AC-525.

Only one car park area can be added per panel.

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To define a car parking area:

- 1. Create an access area with Enter and Exit readers (see Section 5.14).
- 2. In the Tree View, select **Car Parking**.
- 3. On the toolbar, click the 井 icon.

The Car Parking window opens.

Car Parking	×
Description	
Car Parking 1	
Access Area	
car park	*
Checked by Access Area User Groups 	Area maximum counter
Reset	OK Cancel

- 4. In **Description**, enter a name of the car parking element.
- 5. In **Access Area**, select the relevant access area that you defined in Step 1.
- 6. In the **Checked by** area, perform one of the following:
 - a. Select Access Area.
 - i. In **Area maximum counter**, choose the number of parking spots available in that access area.
 - ii. Click **OK**.
 - b. Select User Groups.
 - i. Click **OK**.
 - ii. In the Tree View, under **Car Parking**, choose the car parking area you just created.
 - iii. On the toolbar, click the 井 icon.

The Car Parking Group window opens.

Car Parkin	g Group	X
Descriptio	on	
Car Parki	ing Group 1	
Group ma	iximum counter	
1	٠	
Rese	et New OK Ca	ancel

iv. In **Description**, enter a name of the car parking sub-group.

- v. In **Group maximum counter**, choose the number of parking spots available for the parking group.
- vi. Click **OK**.
- vii. In the Tree View, expand the **Departments/Users** element and select a department that contains the users you wish to add to the Car Parking sub-group.
- viii. Select a user in the Table View area.
- ix. On the toolbar, click the 📧 icon.
- In the General Tab of the User Properties window (see Section 5.13.2.1), select the Car Parking sub-group from the Car Parking Group dropdown.
- xi. Click **OK**.
- xii. Repeat Steps viii and x for each user you wish to add to a particular Card + Card group.
- xiii. Repeat Steps iii to xii for each group that you wish to add to the car parking area.

5.16.1 Viewing and Editing Car Parking Counters

Once you set up your various car parking groups and areas, these groups and areas can be easily viewed and edited.

To view and edit the Car Parking counters:

 In the Events toolbar (above the Event Log area), click the sicon. The Car Parking Counters window opens.

Car Parking Counters Car Parking test	Area maximum counter	Area current counter Set new counter
Car Parking Groups sdsddf	Group maximum counter Set new counter	Group current counter
		<u>D</u> K <u>C</u> ancel

2. Update the maximum or current counters of either the car parking areas or the car parking groups, depending on how the car parking element is defined.

The values of the maximum counters entered in this screen override the values of the maximum counters that you entered in Section 5.16.

3. Click **OK**.

5.17 Adding Operators

Operators are people with access to the AxTraxNG[™] application. The default operator name is Administrator.

Different operators have wider or more restricted security rights, from complete control over the system to the ability only to view one section. All operator passwords are case-sensitive.

To define operators:

- 1. In the Tree View, expand the *Users* element and select **Operators**.
- 2. On the toolbar, click the 井 icon.

The Add Operator window opens.

)perator Properties	X
Description	
Localize guard	Networks Status Maps
Location	Rights
Events	Modify 💌
Networks	None 💌
Configuration	None 💌
Operators	None 💌
Visitors	None 💌
Reports	None 💌
Password	vew <u>Q</u> K <u>C</u> ancel

- 3. In the *Description* field, enter the Operator's name.
- 4. Select the **Localize guard** checkbox to define the operator with limited rights.
- 5. Click **Networks...** and **Status maps...** to define the associated operator's local rights.
- 6. Set the operators global permission rights for each of the screens in the *Location* list.
- 7. Click **Password...** to open the *Password* dialog.

Operator Password 🛛 🛛 🛛 🛛			
Change password			
Current password			
I			
New password			
Confirm password			
Note: password will be saved together with other properties of operator.			
OK Cancel			

Enter the operators' password in the *Password* field and re-enter the 8. password in the *Confirm Password* field.

On first time use, leave the password field empty and enter (and confirm) your new password.

Note

Click **OK** to save your settings. 9.

The dialog closes and the operator is shown in the display area.

5.18 **Creating Elevator Control**

Normally, a reader is associated with a door. For elevator control, a selected reader should be associated with outputs groups, with each output group representing a floor.

To create elevator control:

- Select a reader (see Section 5.6) in the display area. 1
- On the toolbar, click the 📧 icon. 2.
- 3 In the *Reader Properties* window, clear the **Activation** checkbox.

Activation: Open 1\Panel 1\Door 2

- Click OK. 4.
- 5 Create output groups (see Section 5.10.3).

Each output group represents a floor or several floors.



When creating an output group for the elevator control, the selection only applies to outputs from the same panel.

In the General tab of the User window, associate a user with the relevant 6. output groups (see Section 5.13.2.1).

Each user can be associated with the relevant output groups to allow user access to specific floors, as needed.

7 Create a panel link (see Section 5.9). Only one panel link is required.

5.19 **Creating Status Maps**

The Status Map displays the status of every door, input, and output, antipassback rules, and alarms in the facility on user-selected floor plans.

To set up a Status Map:

- In the Tree View, select Status Map. 1.
- On the toolbar, click the $\frac{1}{2}$ icon. 2.

The Add Status Map window opens.

🛱 Status Map		
Status Map 1		
V Design Made	Save	Close

3. Right-click in the window and select **Set background** from the shortcut menu.

The Select Picture File window opens.

To change the map image and/or to add objects on the map, you must select the Design Mode checkbox. The **Add Map** icon in the toolbar is enabled.

4. Select a graphic file (bmp, jpg, gif, or tiff) for the Status Map background.



- 5. Ensure that the Design Mode checkbox is checked.
- 6 Select readers, doors, inputs, outputs, additional status maps, cameras, or panels and click the **Add to Map** icon from the toolbar menu.

The objects appear on the status map, and can be dragged to their correct position.

Right-click a map object and select **Show on Map** from the shortcut 7. menu.

The *Show on Map* window opens.

Show On Map - 1\Panel 3\Door 🛛 🛛 🔀				
Alarm				
Status				
💿 By output 🛛 🔿 By Door Monitor				
<u> </u>				

- Select the **Status** checkbox to display the object's state on the status 8. map.
- 9. For a door's Show on Map properties, select:
 - By Door Monitor: Shows the doors open status based on its physical a. position.
 - **By Output:** Shows the doors open status based on the status of its b. lock.
- 10. Select the *Alarm* checkbox to enable a visual alarm on the map for alarm events.



The alarm option is only available for panel elements where the alarm was already defined.

Note

- 11. Repeat Steps 6 to 10 until all objects are shown on the status map, as required.
- 12. Repeats Steps 1 to 10 to set up additional status maps.



Status map icons can also be added to other status maps, indicating where the two map areas meet.

Note

6. ViTrax[™] Video Integration

ViTraxTM is a video management server client solution that supports AC-525, as well as a wide range of IP, USB, and open protocol cameras, such as OnVif and PSIA. For more information, see *ViTraxTM Software Installation Manual*.

Be sure that the ViTrax[™] Server is installed on a PC and you know that PC's IP address. If not, refer to the *ViTrax[™] Software Installation Manual* for installation instructions.

Perform the following steps to integrate the ViTrax[™] server.

Step	Action	Section	
1	Connect to ViTrax™ Server	6.1	
2	Add a Camera to AC-525 Panel	6.2	
3	Linking a Camera to AxTrax	6.3	
4	Use Panel Links	5.9 and 6.4	
5	View Recorded Events	6.5	
6	Use Automated Activation Options	6.6	

6.1 Connecting to ViTrax[™] Server

Define the ViTrax[™] Server database with which the AxTraxNG[™] Software communicates.

To connect to the ViTrax™ server:

 When the ViTrax[™] Server is running, click File > ViTrax[™] Server. The ViTrax[™] Servers window opens.



 On the toolbar, click the # icon. The Add ViTrax Server window opens.

/iTrax Server 🛛 🛽 🛽	3				
ViTrax IP Adress					
SUFIA ViTrax User Name					
UiTrax Password					
					Connect
<u>D</u> K <u>C</u> ancel					

- 3. In *ViTrax IP Address*, enter either "*localhost*" or another IP address name.
- 4. In ViTrax User Name, enter the username.
- 5. In *ViTrax Password*, enter the password.

The entered password must resemble the non-default password for the server.

Note

- 6. Click Connect.
- 7. Click **OK**.

When connected, the *Connected* status is displayed.

The ViTrax[™] server now appears in the ViTrax Servers window list.

ViT	rax Servers		×			
ŀ	+ 📼 🗙					
[IP Adress	User Name	Status			
	SOFIA	admin	Connected			
Ľ						
			<u>C</u> lose			

6.2 Adding a Camera to the AC-525 Panel

Once a camera is physically installed, the system reads the camera on the network and displays it in the tree.

Defining communication of AC-525 cameras to the ViTrax[™] server is performed physically between the camera and the AC-525 panel (see the *AC*-525 Hardware Installation Manual).

To view and add a camera to an AC-525 panel:

1. In the Tree View, click **AC Networks**.

The available networks are listed in the display area.

- 2. Select a network.
- 3. On the toolbar, click the 🍢 icon.

The Cameras window opens.

Ca	Cameras 🛛				
	Location	Description	Attached to AxTraxNG		
	Camera A	AC-525\002			
	Camera B	AC-525\003			
			<u>O</u> K <u>C</u> ancel		

- 4. Select the **Attached to AxTraxNG™** checkbox next to the camera you wish to add to the system.
- 5. Click **OK**.

For a detailed description of how to add a camera to the AC-525 panels as defined both in AxTraxNG[™] and ViTrax[™] applications, see Appendix E.

6.3 Linking a Camera to AxTrax

When a camera is linked to AxTrax, video events can be linked to access control events and vice versa.

To link a camera to AxTrax:

- 1. In the Tree View, select the *Camera* element.
- 2. On the toolbar, click the 🍢 icon.

A window opens showing all available IP (not AC-525) cameras that can be linked (cameras that have already been linked do not appear in this window).

A	dd Cameras from Vitrax			×
	ViTrax Server	Description	Details	Attach to AxTraxNG
	127.0.0.1	USB Video Device	DirectShow Video Sources	
			_	
				OK Cancel

- 3. For a camera you wish to link, select the Attach to AxTraxNG checkbox.
- 4. Click **OK**.

The linked camera now appears in the Table View screen.



You can also click the 🍢 icon in the Events List to view the list of linked cameras.

- 5. In the Tree View, click **AC Networks**.
- 6. Select a network and expand the panel to which you want to link the camera.
- 7. Select AC Links.
- 8. On the toolbar, click the 井 icon.

The Add Link window opens.

Link	×
Source Type	Destination Type
İnput 👻	None 🔽
Source	Destination
Input 1 - 1\Panel 2\Door REX	None 🔽
Event	Operation
Contact Closed 🛛 🗸	None 🔽
Event Description	Time (m:ss)
Contact Closed	0:00
✓ Enabled	Time Zone
Generate Alarm	Always
	Alarm Handler
	New OK Cancel

- 9. Select the **Generate Alarm** checkbox to activate the Alarm Handler button.
- 10. Click Alarm Handler.

The Alarm Handler window opens.

Message Popup	Cameras options
Alarm Message	Camera
	None 🗠
	Options
	Pop up Live video window 🗸 🗸
	Popup Enabled
	< Close window options
	Dutimor Di04 (minised)
Popup Enabled	Manually
Use highlight alarm event Select Color	
Sound	
Select Wave Audio file	
Local Sound Enabled	Sound Now Browse
Local Sound Enabled	Sound Now Browse

- 11. From the **Camera** dropdown, choose the camera you wish to link.
- 12. From the **Options** dropdown, choose how the alarm is generated.

Alarm handler - PC RQ1	X
Message Popup Alarm Message	Cameras options Camera USB Video Device Options Pop up Live video window Pop up Live video window Shopshot and save to archive Recording Close window options By timer Manually
Sound Select Wave Audio file	Sound Now Browse OK Cancel

- 13. Click **OK** to close the *Alarm handler* window and return to the *Link* window.
- 14. Click **OK** to close the *Link* window and save the link rule configuration.

6.4 Conditioned Recording via Panel Links

You can select the source, destination, and period of recordings using Conditioned Recording sequences programmed via the *Panel Links* screen.

To create a panel link:

- In the Tree View, click AC Networks. The available networks are listed in the display area.
- 2. Select a network and expand a panel in the Tree View.
- 3. Select AC Links.
- 4. On the toolbar, click the 井 icon.

The Add Links window opens.

Link	
Source Type	Destination Type
Source	Destination
Reader 1 - 3\Panel 1\Reader 1 🛛 👻	Camera A momentary recording 🛛 🗸
Event	Operation
Access Granted - any user 🛛 👻	Timer 💌
Event Description	Time (m:ss)
Access Granted - any user	0:04 😂
✓ Enabled	Time Zone
🔲 Generate Alarm	Always
	Alarm <u>H</u> andler
	<u>N</u> ew <u>O</u> K <u>C</u> ancel

- 5. In the **Destination Type** dropdown list, select **Local recording**.
- 6. In the **Destination** dropdown list, select a camera (momentary recording or pre-event recording).
- 7. Click **OK**.

6.5 Viewing Recorded Events

In the *Camera Properties* window, you can view live streaming and edit various camera properties.

The Camera Properties window includes the following:

Field	Description
Description	Displays the camera name
Enable ViTrax Motion Detector	Select this checkbox to enable motion detection in ViTrax™. Enabling motion detection enables Record Motion features.
	It is possible to get motion detection events from ViTrax [™] and use them to initiate recording, by first setting the Motion Detection section on this window, and then setting motion detection properties in ViTrax [™] in the <i>Sensitivity, Exclusion,</i> <i>Format</i> , and <i>Source</i> tabs.

Field	Description	
Time Lapse	This checkbox is automatically enabled due to the camera recording settings. Time Lapse refers to the periodic recording of single frames. AxTraxNG™ automatically enables the Time Lapse option in ViTrax™ when setting recording by AxTraxNG™.	
Frame rate	Select the Time Lapse period. By default, the Time Lapse period is 0.005 frames per second (1 frame every 200 seconds).	
Live Audio Volume	Select the live audio volume	
Audio to Camera	Select the checkbox to indicate when a microphone is connected to the camera.	
Microphone	Enabled when the Audio to Camera checkbox is selected.	
Device	From the dropdown list, select a microphone.	
Properties	Camera properties	
Options	Video pop-up window and snapshot options.	
PC Archive	Streams saved in the PC	
Local Archive	Streams saved in the USB-key	
Snapshot	Opens the images list stored on the PC	
Activation buttons	Start/Stop Recording, initiate Audio to camera, and Save current snapshot.	

To access camera properties:

- In the Tree View, click AC Networks. The available networks are listed in the display area.
- 2. Select a network and expand a panel in the Tree View.
- On the toolbar, click the vicon.
 The list of available camera appears in the display area.
- 4. Double-click the desired camera row within the camera list. The *Camera Properties* window opens.



5. Click **OK**.



The ViTrax[™] Server must be running to view recordings.

For more information on camera properties, see the *ViTrax™ Software Installation Manual*.

To access Live Video:

 In the Events toolbar (above the Event Log area), click the bicon. A list of all available cameras appears.

/itrax Cameras list				Đ
Location	IP Address	Chanel	ViTrax Server	
1\Panel 1	AC-525\004	Camera AC-525 A	localhost	
				Close

2. Double-click the desired camera row. The Live Video Streaming window opens.



ViTrax[™] Video Integration

The Live Video Streaming window includes the following buttons:

Table 20: Events Toolbar > Cameras > Live Video Streaming Window

lcon	Name	Click icon to
۲	Recording	Starts/stops recordings that are saved as streams to the archive
	Audio to Camera	Use the PC microphone by utilizing the panel RAM
	Snapshot	Save the current snapshot.

3. Click **OK** to close.

6.6 Automated ViTrax[™] Camera Activation Options

The following automated camera activation options are available in networks utilizing the ViTrax[™] camera.

The automated camera activation turns on the camera and opens a video popup and a snapshot window on the locally used PC in response to predefined events occurring in the system as described in the following sections:

6.6.1 Reader Access

Create reader-access event based automatic camera activation on the local PC.

To create reader-access camera activation:

- 1. Open the *Reader* window (see Section 5.6).
- 2. Click the *Access event* tab.

Reader		
General Options Access event		
Enable pop up user window by events - PC SOF Access Granted Access Denied	IA Close window options	
Access Recorded	By timer 0:04	
Enable Cameras options by events		
Access Granted	PC SOFIA	
Access Denied	Popup Enabled	
Access Recorded		
Camera	Close window options	
Camera A 🛛 🗸	🔘 Manually	
Options	O:04	
Pop up Live video window 🛛 👻		
	<u> </u>	

- 3. Under *Enable Camera options by events*, select the **Access Granted**, **Access Denied**, or **Access Recorded** checkbox.
- 4. Select a camera from the *Camera* dropdown.
- 5. Select a video option from the *Options* dropdown.
- 6. Select the **Popup Enabled** checkbox to enable local pop-up messages.

- 7. Under *Close window options,* select either **Manually** or **By timer**.
- 8. Click **OK**.

6.6.2 Alarm Event

Create alarm handler event based automatic camera activation.

To create alarm handler camera activation:

1. Open the *Alarm handler* window (see Section 5.9).

Alarm handler - PC SOFIA	
Message Popup Alarm Message Popup Enabled Use highlight alarm event Select Color	Cameras options Camera Camera A Options Pop up Live video window Close window options O By timer Manually Popup Enabled
Sound Select Wave Audio file	Sound Now Browse

- 2. Select a camera from the *Camera* dropdown.
- 3. Select a video option from the *Options* dropdown.
- 4. Select the **Popup Enabled** checkbox to enable local pop-up messages.
- 5. Under Close window options, select either Manually or By timer.
- 6. Click **OK**.

6.6.3 Camera Event

Create camera event based automatic camera activation.

To create camera event based camera activation:

- 1. Open the Camera Properties window (see Section 6.5).
- 2. Click **Options**.

The Video Popup and Snapshot window opens.

Video Popup and Snapshot		X
Popup Camera Window on	Vitrax recording (Window opens for recording duration.)	
Motion detected		
🔽 Popup Window on Moti	on detected start	
Pop up Window type	< Close window	
🔘 Live video	O Rutimer 0.10 (minusce)	
 Snapshot 		
	Manually	
		ancel

- 3. Select the **Popup Camera Window on ViTrax recording** checkbox to enable window pop-up on the PC during camera's ViTrax[™] recording.
- Select the **Popup Window on Motion detected start** checkbox to enable window pop-up on the PC following an activation of the ViTrax[™] Motion detection.
- 5. Under *Close window options,* select either **Manually** or **By timer**.
- 6. Click **OK**.

6.6.4 Door Warning Event

Create a door-warning event based automatic camera activation.

The available door warnings in the system are **Door held open** and **Door forced open**.

To create door-warning event based camera activation:

- 1. Open the *Door* window (see Section 5.5).
- 2. Select the **Door held open** and/or the **Door forced open** options, and define their associated timer.

The *Enable Cameras Options by Door Warning Events* pane opens within the *Door* window.

Door		E
Details Description	Auto relock	Enable Cameras options by Door Warnning events Camera
1\Panel 1\Door	On door monitor closed 🔽	Camera A 💌
REX enabled		Options
Eirst person delay on automatic ur	nlock	Pop up Live video window
Manual door open enabled		PC
Door output polarity is Normally Cl	osed	Popup Enabled
Timers		Close window options
Door open time	0:04 😂 (min:sec)	O Manually
Extended door open time	0:08 😂 (min:sec)	By timer 0:04 😂 (min:sec)
Door held open	✓ 0:30	
Door forced open	0:00 🔅 (min:sec)	
		QK <u>C</u> ancel

- 3. Select a camera from the **Camera** List.
- 4. Select a video option from the **Options** list.
- 5. Enable local pop-up messages by checking the **Popup Enabled** checkbox.
- 6. Under *Close window options*, select either **Manually** or **By timer**.
- 7. Click **OK**.

7. Card Design (Photo ID)

AxTraxNG[™] allows you to design badges for mass printing and supports connectivity with digital cameras for image capture.

This chapter instructs installers and users how to use the Card Design element.

7.1 Creating a Card Template

To create a card template:

- 1. In the Tree View, expand the **Users**.
- 2. Expand the Cards element and select Card Design.
- 3. On the toolbar, click the 井 icon.

The Card Design - Template screen opens.

Card Design - Template		×
Description		
Card Design 1		
Scale Inches	Orientation ⓒ Landscape	
O C <u>e</u> ntimeters	O <u>P</u> ortrait	
Size ⊙ I <u>D</u> Card (3.370" * 2.125")		
O I <u>S</u> O Card (3.375"* 2.175")		
O Customized (size set by user)		
Width	Height	
4.000 Inches (Max 4.00)	3.000 Inches (Max 3.00)	
< <u>B</u> ack	Ngxt> OK Cancel	

- 4. Enter a description for the template and define the scale, orientation, and size.
- 5. Click Next.

The Card Design - Fields screen opens.

Card Design (Photo ID)



6. Right-click the card area background to set the background color or to choose a file to use as the background.



- 7. As desired, drag the fields on the left into the card area to create the layout of the card.
- 8. Right-click on any field appearing in the card area to show the following menu options:

Font
Background
Transparent
Left Align
Center
Right Align
Edit
Properties
Delete

9. Select **Properties** to remove the border and change the field size.

First Name	
🗹 Border	
Position Top	Size Height
0.854 (Max 2.125)	0.219 (Max 2.125)
Left	Width
1.323 (Max 3.365)	1.250 (Max 3.365)
	OK Cancel

10. Click **OK** to save the card template.

7.2 Printing a Card

Once you have save a card template, you can print cards using the template. *To print a card:*

 From the card template list in the Table View area, click the elicon. The Print Card – Selection window opens.



 Select your printer from the dropdown and click Next. The *Print Card – Users List* screen opens.

Print Card		×
Available General doe, john (1234) doe, john (4444) doe, jane (5987)		3
doe, jane (4321)		
	→	
Cancel < Ba	ack Next > Print	

- 3. Select the users from the available list for whom you wish to print a card and move them to the right panel.
- 4. Click Next.

The *Print Card – Preview* screen opens.

Card Design (Photo ID)

Print Card	×
jehn doe 1234	
	<u>U</u> se camera
Cancel < Back Next >	Print

- 5. Set up the barcode:
 - a. Right-click on the Barcode field and select **Clipboard**.

	Font Background Transparent Left Align Center Right Align
	Clipboard Cliptical Clipboard
	Delete

b. The Barcode Parameters window opens.

Bar code parameters		×
Bar code number as text	63943666	,
Alphabet coding choose :	CODE128 Can	cel

- c. Enter the numeric barcode.
- d. From the Alphabet coding dropdown, select the kind of coding.

Bar code parameters			×
Bar code number as text	40362448		Ok
Alphabet coding choose :	CODE128	Ľ,	Cancel
	CODE128 CODE128A CODE128B CODE128B		
	CODE128C CODE39 CODE39FULLASCI		
	CODE93 DATAMATRIX DATAMATRIXASCII		
	DATAMATRIXBASE256	~	

e. Click OK.

The barcode appears on the card template.

6. Click **Use camera** if you wish to choose a different image either from a file or from a PC camera:

The Select Source window opens.

Select source	X
 Graphic File PC Camera 	Browse
Capture Image	OK Cancel

Card Design (Photo ID)

- a. Do one of the following:
 - Select **Browse** to locate an image to insert.
 - Select PC Camera and select **Capture Image**.
- b. Click **OK**.
- 7. Use the green arrows to preview additional users.
- 8. Click **Print** to print a card.

8. Intrusion Integration

The intrusion integration allows you to integrate the intrusion panel into the AxTraxNG[™] access control management software and to manage the intrusion panel (when available). In addition, the integration creates logical event links between the software and the access control system.

8.1 Adding an HLX Panel

To add an HLX panel:

- 1. Check that the HLX panel is connected to the PC.
- 2. In the Tree View, click HomeLogiX.
- 3. On the toolbar, click the 井 icon.

The HLX Panel window opens.

X panel		
Description	Panel Information	Date format
Pooling	HLX-40	DD-MM-YY
Communication type	Firmware version	Time format
Serial 💌		24-Hour(HH:mm)
Serial Communication	Panel Database Version	
Com Port Baudrate	0	Support <u>C</u> P01
9600 🗸		
Owner Information		
Phone	Mobile Phone	
Address		
	Co <u>d</u> e <u>N</u> ew	

- 4. From the **Communication type** dropdown, choose **Serial** or **TCP/IP**.
- 5. In Serial Communication, choose the com port and the baud rate. The new panel appears in the Tree View.



Once you have added a new HLX panel, you can begin to configure it.

8.2 Setting Panel Time

To set panel time:

- 1. In the Tree View, select the HLX panel.
- 2. On the toolbar, click the \bigcirc icon.
- 3. The *Set Time* window opens.

et Time	
Date 12/26/2012	Time 14:36 (hh:mm)
Custom <u>D</u> ate/Time	
Unknown	
	Applu Cancel

- 4. Set the Date and Time as necessary.
- 5. Click Apply.

8.3 Updating Firmware

After you have added the HLX panel to the system, you should check that the firmware version is updated.



To update a panel's firmware:

- 1. In the Tree View, expand the **HomeLogiX** element and select the HLX panel.
- On the toolbar, click the P icon.
 The Update Firmware window opens.

irmware update 🛛 🛛 🔀
Are you sure you want to update firmware of HLX panel HLX 1?
Browse
240 C
OK Cancel

- 3. Click **Browse...** and select the HLX file relevant to the panel's hardware type.
- 4. Click **OK**.

8.4 Downloading from the HLX Panel

Once an HLX panel is connected to the AxTraxNG[™] software, you can download various parameter groups from the HLX panel to the AxTraxNG[™] GUI for easy editing.

To download parameters from the HLX panel:

- 1. In the Tree View, expand the **HomeLogiX** element and select the HLX panel.
- 2. On the toolbar, click the 📕 icon.
- 3. The Download to HLX1 window opens.



- 4. Select the various parameter groups that you wish to download.
- 5. Click **OK**.

8.5 Editing HLX Settings

After you have downloaded various parameter groups to the GUI, you can easily change the settings using the Settings options.

To edit HLX settings:

- 1. In the Tree View, expand the **HomeLogiX** element and select the HLX panel.
- 2. In the Table View area, select one of the parameter groups.
- 3. On the toolbar, click the 🗾 icon.
- 4. A window opens for the selected parameter group.

For example, if Zones was chosen, the Zones Settings window opens.

Zones Settings								
	#	Туре	Description	Chime Type	No Activity Checks	^		
	1	Delay 💌	ATTIC 💌	No Chime 🛛 💌				
	2	Delay 😽	ATTIC 💌	No Chime 🛛 🛛				
	3	Perimeter 💌	ATTIC 💌	No Chime 🛛 💌		=		
	4	Interior 💌	ATTIC 💌	No Chime 🛛 💌		-		
	5	Interior 💌	ATTIC 💌	No Chime 🛛 💌				
	6	Interior 💉	ATTIC 💌	No Chime 🛛 💌				
	7	Interior 💉	ATTIC 💌	No Chime 🛛 💌				
	8	Interior 💌	ATTIC 💌	No Chime 🛛 💌				
	9	Interior 💉	ATTIC 💌	No Chime 🛛 💌				
	10	Interior 💌	ATTIC 💌	No Chime 🛛 💌				
	11	Interior 💌	ATTIC 💌	No Chime 🛛 💌				
	12	Interior 💉	ATTIC 💌	No Chime 🛛 💌				
	13	Interior 💉	ATTIC 💌	No Chime 🛛 💌				
	14	Interior 💌	ATTIC 💌	No Chime 🛛 💌				
	15	Interior 💌	ATTIC 💌	No Chime 🛛 💌				
	16	Interior 💌	ATTIC 💌	No Chime 🛛 💌				
	17	Interior 🔽	ATTIC 💌	No Chime 🛛 💌				
	10							
				OK.	Cancel			

- 5. Change the settings as needed.
- 6. Click **OK**.

8.6 Uploading to the HLX Panel

Once you have made your changes to the various parameter groups, the changes can then be uploaded back to the HLX panel.

To upload parameters to the HLX panel:

- 1. In the Tree View, expand the **HomeLogiX** element and select the HLX panel.
- 2. On the toolbar, click the \uparrow icon.
- 3. The Upload to HLX1 window opens.
| Upload from HLX 1 🛛 🛛 🔀 |
|-------------------------|
| AI |
| Account Information |
| Zones |
| Enrollment |
| Security |
| Communications |
| Automation |
| Messages |
| |
| |
| OK Close |

- 4. Select the various parameter groups that you wish to upload.
- 5. Click **OK**.

8.7 Live System View

The Live System View option allows you to manage system monitoring, arming and disarming via the GUI.

To open the live system view:

- 1. In the Tree View, expand the **HomeLogiX** element and select the HLX panel.
- 2. On the toolbar, click the 😐 icon.
- 3. The Live System View window opens.

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Status																
Legend	Кеур	ad			Zones	1-20					Zones	21-40)			
Status Color	#	Т	В	S	#	A	Т	В	S	X	#	A	T	В	S	X
Alarm (A)	1				1						21					
RF Tamper	2				2						22					
Low Battery (B)	3				3						23					
Supervised (S)	4				4						24					
Bypass (X)					5						25					
No AC (C)	Bene	aters			6						26					
RF Jam (J)	#	T	D	6	7						27					
On (0)	+		D	5	8						28					
	1				9						29					
Panel	2				10						30					
State N T B R	3				11						31					
Unknown	4				12						32					
	RF Si	iren			13						33					
PGM	#	T	В	S	14						34					
# 0	1				15						35					
+ 0	2				16						36					
1	3				17						37					
2	4				18						38					
					19						39					
					20						40					
ctions cone Bypass] On				Arr ()	ning Arm Hom Arm Awa	e y	_									

4. Set the system monitoring, arming and disarming parameters according to the various available fields (see the *HLX-40 Hardware Installation and Programming Manual* for more details).

8.8 Adding an HLX Link

As with regular panels, panel links are rules defining how the system should behave when events occur in the access control panel.

The *HLX Links* window contains the following fields:

Field	Description			
HLX Event	Select the event.			
Event Description	Enter the event description			
Enabled	Select the checkbox to enable the link rule			
Link Destination Type	Select the panel component type, which is to be activated by the link rule trigger event (networks or cameras).			
AC Destination Type	Select the destination type:			
	• If Link Destination Type is Networks: output or sounder			
	If Link Destination Type is Cameras: cameras			
Destination	Select the specific panel component, which is to be activated by the link rule trigger event			
Operation	Select the operation performed by the destination panel component			

Table 21: HomeLogiX > HLX Panel > Links > HLX Links

Field	Description
Time Zone	Select the time zone for which the link rule applies
Networks	
Network	Select the relevant network
Panel	Select the relevant panel
Time	Define a duration timeframe for the operation. This box is only available when a time-bound operation is selected
Camera	
Popup Video Enabled	Select this checkbox to enable this option
ViTrax Recording	Select the recording operation if needed
Camera Options	Select what occurs when an event begins:Popup live video window
	Show snapshot and save to archiveRecording
Close Window Options	Select how the window closes – manually or by timer

To add an HLX link:

- 1. In the Tree View, expand the **HomeLogiX** element.
- 2. Expand an HLX panel.
- 3. Select Links.
- 4. On the toolbar, click the 井 icon.

The HLX Links window opens.

HLX Links	×
HLX Event	Link Destination Type
Fire 🗸	Networks 💌
Event Description	Network
Fire	Network 1
✓ Enabled	Panel
	1\Panel 1 🗸 🗸
	AC Destination Type
	Outputs 🗸
	Destination
	1\Panel1\Door1
	Operation
	Timer 💌
	Time (m:ss)
	0:04 🗢
	Time Zone
	Never 🗸
	New <u>D</u> K <u>C</u> ancel

Intrusion Integration

5. Configure the link rule as required, according to the field descriptions in Table 21.

8.9 Linking an AC Panel to an HLX Panel

Use this feature to link events from the access control system to the intrusion panel; for example, arming the intrusion panel while swiping a proximity card.

The AC – HLX Link window contains the following fields:

Table 22: AC Networks > Network > Panel > HLX Links > AC - HLX Link Window

Field	Description
Source Type	Select the panel component type: door or reader.
Source	Select the specific panel component that raises the event based on the source type selected.
Event	Add a description of the event.
Destination	Select the specific panel component, which is to be activated by the link rule trigger event.
Operation	Select the operation performed by the destination panel component.

To link an AC panel to an HLX panel:

- 1. In the Tree View, click **AC Networks**.
- 2. Select a network and expand a panel in the Tree View.
- 3. Select HLX Links.
- 4. On the toolbar, click the 井 icon.

The AC – HLX Link window opens.

AC - HLX Link	
Source Type	Destination
Door 🗸	HLX1
Source	Operation
1\Panel1\Door1	Arming Away 🔽
Event	
First person enter in new day	
	OK Cancel

Configure the link rule as required, according to the field descriptions in Table 22.

8.10 Arming HLX

You can use a link to give a user a right to arm or disarm an HLX panel.

To give HLX rights:

- 1. In the General Tab of the *User Properties* window (Section 5.13.2.1), select the **HLX Arm** checkbox.
- 2. Click **OK**.

Note

9. Manual Operation

In addition to AxTraxNGTM's automated access control network monitoring and control, there is the option to manually control the network directly.

Door Manual Operation can only control doors that have been set as "Manual Door Open Enabled" in the *Door Properties* window (see Section 5.5).

9.1 Controlling the Door Manually

The *Manual Door Operation* window allows an operator to open or close a selected group of doors directly.

To manually open or close a door:

- 1. In the Tree View, expand the **Networks** element and expand a selected network.
- 2. Expand a panel and select **Doors**.
- 3. On the toolbar, click the 🔏 icon.

The Manual Door Operation window opens.

oor mar	ual operation			
Options Opt	en <u>m</u> omentarily (closed by timer) en <u>p</u> ermanently (closed by 'Close se output and jeturn to default m	0: output and return to default mode') ode	04 🗢 (min:sec)	
	1	Description	Details	Select All
	1\Panel 2	1\Panel 2\Door 1	Default	
	1VPanel 2	1\Panel 2\Door 2	Default	Select None
• 1	1\Panel 3	1\Panel 3\Door	Default	
	2VPanel 2	2\Panel 2\Door 1	Default	
•	2VPanel 2	2\Panel 2\Door 2	Default	
Image: A state of the state	3\Panel 1	3\Panel 1\Door	Default	
				Apply Cancel

- 4. Sort the listed panels/doors in regular or reverse order, by clicking the column header with the left mouse button.
- 5. Select an option:

Open momentarily – Open all selected doors for the time set in the timer box

Open permanently – Opens all selected doors

Close output – Closes all selected doors and returns control to AxTraxNG[™]

Manual Operation

- 6. Select the checkboxes of those doors to which to apply the operation.
- 7. Click **Apply**.

9.2 Changing the Reader Mode

The *Manual Reader Operation* window allows an operator to change the operation mode of a reader.

Readers have six possible operation modes:

- Inactive: The reader is not in use.
- Card Only: The reader accepts cards only.
- PIN Only: The reader accepts PIN inputs only.
- Card or PIN: The reader accepts both cards and PINs.
- **Desktop:** The reader is inactive, but can record new cards for the AxTraxNG[™] database.
- Secure (Card + PIN): The reader requires first a card and then a PIN. The PIN must be entered within 10 seconds of the card.
- No Access: The reader does not grant access to users.

To change the reader mode manually:

- 1. In the Tree View, expand the **Networks** element and expand a selected network.
- 2. Select a panel.
- 3. On the toolbar, click the 📕 icon.

The Manual Reader Operation window opens.



- 4. Select an option:
 - Change operation mode Resets all selected readers to the selected operation mode.
 - **Default** Returns control of the readers to the system.
- 5. Select the checkboxes of those readers to which to apply the operation.
- 6. Click **OK**.

For more information on secured (Card + PIN) time zones, see Section 5.6.1.

Note

9.3 Controlling Outputs Manually

The Manual Output Operation window allows an operator to open or close a selected group of outputs on a panel directly.

To manually open or close an output:

- 1. In the Tree View, expand the **Networks** element and expand a selected network.
- 2. Select a panel.
- 3. On the toolbar, click the 🤷 icon.

The Manual Output Operations window appears.

Manual Operations	×
	(min:sec) Iode') Select <u>A</u> ll
<u></u> K	

- 4. Select an option:
 - Open momentarily Opens all selected outputs for the time set in the timer box.
 - **Open permanently** Opens all selected outputs.
 - Close output and return to default mode Closes the selected outputs and returns control to default.
- 5. Select the checkboxes of the outputs to which to apply the operation.
- 6. Click **OK**.

9.4 Manually Disarming Inputs

The *Manual Input Operation* window allows an operator to disarm a selected group of inputs directly on a panel.

An armed input means the input is active; a disarmed input is inactive and does not trigger any operation or alarms.

To manually disarm or rearm an input:

- 1. In the Tree View, expand the **Networks** element and expand a selected network.
- 2. Select a panel.
- 3. On the toolbar, click the 📩 icon.

The Manual Input Operations window opens.

Manual Operations	×
Input Options Input permanently disarmed Arm input and return to default mode	
	Select <u>A</u> II
<u> </u>	<u>C</u> ancel

- 4. Select an option:
 - Input permanently disarmed Deactivates all selected inputs.
 - Arm input and return to default mode Reactivates the selected inputs and returns control to default.
- 5. Select the checkboxes of the inputs to which to apply the operation.
- 6. Click **OK**.

9.5 Controlling Sirens Manually

The *Manual Siren Operation* window allows an operator to test the siren for a selected panel.

To manually open or close a siren:

- 1. In the Tree View, expand the **Networks** element and expand a selected network.
- 2. Select a panel.
- 3. On the toolbar, click the *icon*.

Manual Operations	
Siren Options Open momentarily (closed by timer) Close siren and return to default mode	0:04 🔅 (min:sec)
	<u>D</u> K <u>C</u> ancel

- 4. Select an option:
 - Open momentarily Sounds the siren for the time set in the timer box.
 - Close siren and return to default mode Silences the siren and returns control to default.
- 5. Click **OK**.

9.6 Manually Update Firmware

The *Update Firmware* window allows an operator to update the firmware version of the selected access control panel.

To perform a firmware update manually:

- 1. In the Tree View, expand the **Networks** element and expand a selected network.
- 2. Select a panel.
- 3. On the toolbar, click the 🔊 icon.

The Update Firmware window opens.

Firmware update	×
Are you sure you want to update firmware of panel 2\Panel 2?	
E:\Applic\AxTraxNet\Client\Veritrax Client\bin\Firmware\ac215v04_02_00.hex	
	Browse
<u> </u>	<u>C</u> ancel

- 4. Click **Browse...** and select the HEX file relevant to the panel's hardware type.
- 5. Click **OK**.

10. AxTraxNG[™] Reports

AxTraxNG[™] supports two types of reports.

- Immediate Reports List details of recent movements (within the last few hours). They are shown in the display area and can be exported.
- Archive Reports List all events in the database.

10.1 Immediate Reports

There are four types of immediate reports:

- Who's been in today Lists where and at what time each user was granted access for the first time today.
- Last known Position Lists where and at what time today each user was most recently granted access.
- Roll-Call Readers Lists the last time each reader was given access, and by whom, within the last 1–99 hours.
- Roll-Call Areas Lists all users currently within the selected area, sorted by department and entry time. The report lists all personnel who entered the facility within the last 1–99 hours.

To show an immediate report, select it from the Reports element of the treeview, under Immediate.

To create a new immediate report:

- 1. In the Tree View, expand the **Reports** element and select **Immediate**.
- 2. On the toolbar, click the 井 icon.

The Report Wizard opens.



- 3. From the dropdown list, select a report type
- 4. Click Next.

Follow the on-screen wizard instructions until the wizard has completed. The display area lists the new report.

10.2 Archive Reports

You can produce three types of reports:

- Panels Event Reports
- System AxTraxNGTM Events Reports
- Interactive Reports

10.2.1 Panels Events Reports

Panel event reports display details of all recorded panel events.

There are six available panel event reports:

- Attendance Report Lists the attendance hours for selected users, sorted by date. Results include hours present, time in, and time out.
- Panels Report Lists all the events recorded by the selected panels, sorted by date.
- Access Report Lists all access events recorded by the selected readers, sorted by reader and date.
- Readers Report Lists all users who have accessed the selected readers, sorted by department and date.
- Fingerprint Report Lists specific fingerprints readers' events, sorted by reader and date.
- Visitors Report Lists visitors who have made a visit to a certain user or department, or lists all related visitors.

10.2.2 System AxTraxNG[™] Events Report

System AxTraxNG[™] events reports list details of system and operator activity. There are three available system event reports.

- System Report Lists all operations performed by the AxTraxNGTM server, sorted by date.
- Operators Report Lists all the operations performed by registered system operators, sorted by operation event type and date.
- Alarm and Antipassback Handler Report Lists all raised system alarms, sorted by operator and date.

10.2.3 Interactive Report

Interactive reports list details of users and their access activity.

There are two available interactive reports:

- User Access Rights Report Lists site access details for selected users, with full details of readers accessed and in which time zones.
- Not Responding Users Report Lists users for whom there have been no access events for a selected period of time.

To create a new archive report:

- 1. In the Tree View, expand the **Reports** element and select **Archives**.
- 2. On the toolbar, click the 井 icon.

The Report Wizard opens.

Report Wizard	
	This report wizard will help you create a new report. You can press back at any time to change your selections. Which type of report do you want to produce? Panels events report What report do you wish to produce? Attendance report
Cancel	< Back Next > Finish

- 3. From the first dropdown list, select a report type.
- 4. From the second dropdown list, select which report you wish to produce.
- 5. Click Next.

Follow the on-screen wizard instructions until the wizard has completed. The display area lists the new report.

11. Administrator Operations

11.1 Setting the Time and Date

You can select panels by network and reset their date and time to the AxTraxNG[™] server's system date and time, using the Set Time window.

To reset the panel time:

- 1. In the Tree View, expand the **Networks** element and select a network.
- 2. On the toolbar, click the 🕑 icon.

The Set Time window opens.

set tim	e			×
1. Ch 2. Se 3. Cli	eck the panels for time setting, t the system time. ck 'Apply' to sent the new time.	PC Date 31/ 5 /11	Time 10:03 (hh:mm) Date/Time	
	Description	Status	DateTime	Select <u>A</u> ll
	1\Panel 2	Connected	31/5/11 10:03:57	Calaat Mana
	1\Panel 3	Connected	31/5/11 10:03:56	Select None
			Γ	Apply Dose

3. Select the panels to reset.

4. Click **Apply**.

The server connects to the panels and sets the time as requested. A dialog confirms the operation.

11.2 Downloading Failed Data

In the event that some data fails to download to the access control panels, it is possible to perform a download of the failed operations only. You can perform this operation on a single panel, on all the panels in a network, or on all the panels in the entire system.

To download failed data:

- 1. In the Tree View, select a specific panel, a specific network, or all the networks.
- 2. On the toolbar, click the 🏴 icon.

The download data process begins.

11.3 Testing User Counters

When using User Counters, it is possible to view the current User count value in each panel that has a Reader designated with the "Deduct User" option.

To view User Counters:

- 1. In the Tree View, select Users > Department/Users or Users or Visitors.
- 2. Select one user or visitor in the display area.
- 3. On the toolbar, click the 🙆 icon.

The Request User Count window opens.

Reques	t user start				×
	Panel	Panel Status	Counter status	Counter value	Select All
	1\Panel 2	Connected	Enable	98	
	1\Panel 3	Connected	Enable	94	Select None
	2\Panel 2	Connected	Enable	96	
		_	_	_	
				Ie	st <u>C</u> ancel

4. Click Test.

11.4 Maintaining the Database

Use the *Database* window to maintain the system database.

To open the Database window:

1. From the menu bar, select **Tools > Database**.

The Database window opens.



The following database operations are available:

Operation	Description	
Periodic Backup	Run a scheduled backup every specified number of days at the specified time.	
Backup now	Run a one-time backup immediately.	
Export Configurations and Events*	Copy the contents of the database to the selected folder.	
Import Configurations*	Replace the current configuration based on the imported file.	
Import Configurations and Events	Replace the current configuration and events based on the imported file.	
Erase Configuration and Events*	Erase the current database configuration and all events.	
Limit Panel Events Period	Automatically erase events when they are older than a specified number of days. Before using this option, Rosslare recommends that you set a periodic backup.	
	Note: It is recommended to set the value to no more than 91 days.	
Erase Panel Events	Erase all events that are older than a specified number of days.	
Import database versions earlier than AS-225 VeriTrax or AS- 525 AxTrax *	Replace the current database with VeriTrax AS-225 or AxTrax databases	
Import database	Replace the current database	
versions earlier than AxTraxNG	Note: This option does not allow importing a database from a current AxTraxNG™ version.	

Table 23: Tools > Database > Available Databases

*This option is only available in the AxTraxNG[™] Server PC.

The Backup and Export functions add the "_AxTrax1_vX" prefix at the end of exported or backed up database. The Import database function executes only with the string at the end of the file name. After a database is imported, the panel status may change to disabled. If this occurs, the operator should re-enable the panels.

11.5 AxTraxNG[™] Options and Preferences

Note

AxTraxNGTM can be customized to meet the preferences of the operator using the *Options* window.

To open the Options window:

1. From the menu bar, select **Tools > Options**.

The Options window has two tabs:

- General General startup and presentation settings
- User Custom Fields Additional user-defined fields for the User Properties window

11.5.1 General Tab

The General tab includes presentation connection settings.

ptions	
General User Custom Fields Use highlight access events Known key All users Unknown key Sglect Color	Use highlight Networks and Panel status Network failed Select Color Panel not responding Select Color
System events Show download succeed Hide foreign system events on this PC Holidays Select <u>Holiday</u>	Language English

The General tab contains the following fields:

Table 24: Tools > Options > General Tab

Field	Description	
Use highlight access events	From the Known Key dropdown, select the desired option and click Select Color to display selected user information in a custom picked colored highlight.	
	color for unknown keys.	
Show download succeed	Select the checkbox to add a message to the event history upon successful system parameters download from the AxTraxNG™ software to the panel.	
Hide foreign system events on this PC	Select the checkbox to see only local administrator and AxTraxNG [™] Server messages.	
Select Holiday	Click the button to select Microsoft Outlook™ holidays to load into AxTraxNG™.	
Use highlight networks and	Click Select Color adjacent to <i>Network failed</i> to define the highligh color for network alarms.	
panel status	Click Select Color adjacent to <i>Panel not responding</i> to define the highlight color for panel communication errors.	
Language	Select the system interface language.	
	Note: Setting the language to Farsi also changes the date format to the Farsi date format.	

11.5.2 User Custom Fields

The *User Custom Fields* tab controls the user-defined fields on the User Fields tab of the User Properties window. See Section 5.13.2.4.

Туре	Description	1	List
•*	¥		
User default valid ti	me	User Photo	
	1.1	DataPase	
From	Until	O Daranase	
From 00:00	23:59	External files	Export from DI

The User Custom Fields tab contains the following fields:

able 25: Tools >	Options >	User Custom	Fields Tab
------------------	-----------	--------------------	-------------------

Field	Description	
Field type	Select the type of field.	
	If field type is list , click Edit and enter list items.	
Field description	Type a name for the new field.	
User default valid time	Set default start and end time for user access rights using the From and Until fields.	
User Photo	Define the default photos to be used:	
	 Database: Use the User photos save in the Data base External files: Use this option to save a large user photo collection external from the data base Export from DB: Click to export existing photos from the Data base to an external folder 	

11.6 Importing/Exporting User Data

The Import/Export Data window makes it possible to import/export user information into/from the AxTraxNG[™] database from/to a standard spreadsheet file.

Administrator Operations

Import Users properties fro	m external file into AxTraxNG		Data type
Export Users properties fro	m AxTraxNG into external file		Excel Workbook - *.xls
ixcel file .ocation:			Browse.
Excel file Columns			
🔲 'A' - User# (index field)	G' · From (Valid date)	M' - Address	S' - Card number
B' - First name	🔲 'H' - Until (Valid date)	'N' - Home telephone	'T' - Facility code (0 to 255)
C' - Last name	🔲 'l' - Telephone	'O' · Car registration	U' - Identification
D' - Middle name	🔲 'J' - Mobile	🔲 'P' - Title	- Card Tune
E' - Department	K' - Fax	Q' · Notes	Card Type
F' - Access group	🔲 'L' - Email	R' · PIN Code	Wiegand 26 bits
			Select <u>A</u> ll Select <u>N</u> o
Started from	- Departmente		- Access Groups
Excel file Row	Import Departments?		Import Access Groups?
2	💿 Yes 🔘 No		⊙ Yes ◯ No
User Number started from:			

The Import/Export Data window contains the following fields:

Field	Description
Import Users Properties from external file into AxTraxNG™	Select this option to import user properties
Export Users Properties from AxTraxNG™ into external file	Select this option to export user properties
Data Type	Select the type of data file to import/export.
Location	Select the location of the file to import/export.
Browse	Click to select the file to import/export.
Excel File Columns	Select the checkboxes of the columns to be imported or exported.
	Data in each column (A–T) are imported or exported as listed.
Excel file Row	Enter the first row of user data in the spreadsheet.
User number started from	Enter the number from which to start assigning unique system user numbers.
Import Departments?	Select Yes to import new departments into the AxTraxNG [™] database.
	Select No to import users without their departments.

Table 26: Tools > Import/Export Data

Field	Description
Department	Select the department to assign to the imported users. This box is only active when the <i>No</i> option is selected in the Import Departments option.
Import Access Groups?	Select Yes to import new access groups into the AxTraxNG [™] database. Select No to import users without their access groups.
Access Groups	Select the access group to assign to the imported users. This box is only active when the <i>No</i> option is selected in the import access group option.

To open the Import/Export Data window:

1. From the menu bar, select **Tools > Import/Export Data**.

11.7 AxTrax GUI View Options

The AxTraxNG^{TM} Client main window GUI can be customized using the *View* menu.



- **Events** to make Events window visible/invisible.
- Table View to make Table View visible/invisible
- Restore docking to return to default GUI Setting
- Close all floating Windows to close all pop-up windows.

A. Firewall Configuration

The following instructions explain how to configure the standard Windows Firewall for Windows XP.

To configure the firewall:

1. Open the Control Panel on your computer.



2. Click the Security Center category.

The Windows Security Center window opens.

(When in "Classic View", click the **Security Center** category in the topleft Control Panel preferences pane.)



- 3. Click Windows Firewall.
- 4. Select the *Exceptions* tab.

🖗 Windows Firewall 🛛 🕅
General Exceptions Advanced
Windows Firewall is blocking incoming network connections, except for the programs and services selected below. Adding exceptions allows some programs to work better but might increase your security risk.
Programs and Services:
Name
☑ 7100A_C
Application Sharing
AS-IP01 Configuration Utility
✓ AxTrax
🗹 Bonjour
✓ DHCP Discovery Service
DigiDp RemoteManager Application
Digit ooi Lai Lenter
Pie and Finter Shaing
V Intelligent IP Installer
Add Program Add Port Edit Delete
☑ Display a <u>n</u> otification when Windows Firewall blocks a program
What are the risks of allowing exceptions?
OK Cancel

5. Click Add Program.

The Add a Program dialog appears.

Add a Program	X
To allow communications with a program by adding it to the Exceptions list select the program, or click Browse to search for one that is not listed.	
Programs:	
Solitaire TransferUserData Ob Agent Uninstall DeepBurner Merintal DeepBurner Merintaal Solitaital Solitaital Solitaital Solitaital Winimage Winimage	
Path: C:\Program Files\Rosslare\VeritraxSQL\VeriTra Browse	
Change scope OK Cancel	

6. Click Browse.

The Browse dialog appears.

7. In the **File Name** box, type:

"C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\BINN\sqlservr.exe" and click Open.

Firewall Configuration

8. Click **OK**.

The SQL Server program appears in the Add a Program dialog.

- 9. Repeat Steps 6 and 7.
- 10. In the File Name box, type:

"C:\Program Files\Microsoft SQL Server\90\Shared\sqlbrowser.exe" and click Open.

11. Click **OK**.

The SQL Browser program appears in the Add a Program dialog.

 In the Control Panel, click the Performance and Maintenance category. (When in "Classic View", click Switch to Category View in the top-left Control Panel preferences pane, and then click the Performance and Maintenance category.)



The Performance and Maintenance window opens.

13. Click Administrative Tools.

The Administrative Tools window opens.



14. Double-click Services.

The Services Console opens.

Services					
File Action View ← → ■ ■	Help				
Services (Local)	🖏 Services (Local)				
	Windows Firewall/Internet	Name 🛆	Description	Status	^
	Connection Sharing (ICS)	Themes	Provides u	Started	_
		Uninterruptible Pow	Manages a		
	Stop the service	🐁 Universal Plug and	Provides s		
		🎨 Volume Shadow Copy	Manages a		
	Description	🎭 WebClient	Enables Wi	Started	
	Provides network address translation.	🏶 Windows Audio	Manages a	Started	
	addressing, name resolution and/or	Windows Firewall/In	Provides n	Started	
	intrusion prevention services for a home	Windows Image Ac	Provides im	Started	
	or small office network.	Windows Installer	Adds, modi		
		Windows Managem	Provides a	Started	
		Windows Time	Maintains d	Started	
		Wireless Zero Confi	Provides a		1
		WMI Performance A	Provides p		
		Section Workstation	Creates an	Started	~
		<			>
	Extended Standard				_

- 15. Right-click **Windows Firewall/Internet Connection Sharing (ICS)** and click **Restart** from the pop-up menu.
- 16. Right-click **SQL Server** and click **Restart** from the pop-up menu.
- 17. Right-click **SQL Server Browser** and click **Restart** from the pop-up menu.

The Firewall is now configured for AxTraxNG[™].

B. SQL Service Settings

1. To reach the SQL Service Settings, click the following path from the Control Panel in Windows XP:

Control Panel > Administrative Tools > Services and Applications > Services > SQL Server (VERITRAX)

2. Double click "SQL Service (VERITRAX)" the following dialog opens:

SQL Server (VERIT	RAX) Properties (Local Computer)	? 🗙
General Log On F	Recovery Dependencies	
Service name:	MSSOL\$VERITRAX	
Display <u>n</u> ame:	SQL Server (VERITRAX)	-
Description:	Provides storage, processing and controlled access of data and rapid transaction processing.	~ >
Path to executable		
"C.\Program Files\	Microsoft SQL Server\MSSQL 1\MSSQL\Binn\sqlservr.exe"	-S/
Startup typ <u>e</u> :	Automatic	~
Service status:	Started	-
Start	Stop Bause Besume	
You can specify th here.	e start parameters that apply when you start the service from	
Start parameters:		
	OK Cancel App	y I

3. Under the General tab, verify that the Startup type is "Automatic" and that the Service status is "Started".

SQL Server (VERITRAX) F	Properties (Local Computer)	?X
General Log On Recover	y Dependencies	
Log on as:		
Local System account		
Allow service to inte	ract with desktop	
○ This account	Browse	
Password:		
Confirm password:		
You can enable or disable	this service for the hardware profiles listed below	
Profile 1	Enabled	_
	Enable	
	OK Cancel A	pply

4. In the Log On tab, verify that the Local System Account radio button is selected. If not, select **Local System Account** and restart the computer for the changes to take effect.

(Network Configuration

The AxTraxNG[™] Server connects to access control units by a serial connection, a TCP/IP connection, or a Modem-to-Modem connection.

To connect access control panels to AxTraxNG™ over a TCP/IP LAN (Local Area Network) or WAN (Wide Area Network), the use of a TCP/IP to Serial converter is required, unless the panel has an onboard TCP-IP connection (AC-225IP or AC-525).

Each TCP-IP connection can support up to 32 access control panels that are connected to each other using RS-485.

The hardware used to connect to the TCP-IP network may be the MD-N32, which is a Serial to Ethernet converter, or using the onboard converter of AC-225IP or AC-525.

You can also use Rosslare's MD-N33 modem for a Modem-to-Modem connection. Refer to the hardware installation manuals of the desired panel for more details

TCP/IP and Modem-to-Modem connections must be configured for use, and require expert knowledge of the local network.

To configure TCP-IP Connection for AxTraxNG™:

- In the Tree View, click AC Networks. 1.
- On the toolbar, click the 📧 icon. 2
- 3 The Networks window opens.
- 4 Set the Network type as TCP/IP.



If you want to work with Remote, in the TCP/IP Network window select Remote (WAN), and add the WAN IP Address of the PC.

Note

Click Configuration. 5

The TCP/IP Configuration window opens.

To	p/Ip Configuration					
	MAC Address	Status	Configuration	Version	Configuration	Serial Speed
	00:50:C2:78:90:74	Available	Configured	4.3	MD-IP32 On Board	9600
	00:50:C2:78:93:F1	Network 1 - video	Configured	4.3	Local IP	Local Port
					192 . 168 . 20 . 16	6666
					Subnet	
					255 . 255 . 255 . 0	
					Gateway	
					192 . 168 . 20 . 250	Apply
	Search Options					
	AII MD- <u>N</u> 32					
	O Direct MAC addres	is 00):00:00:00	: 00 : 00		
	O Direct IP Address					<u>S</u> earch
					<u></u> K	<u>C</u> ancel

The upper left window lists all TCP/IP converters attached on the local network, identified by their MAC address, and indicates if they are available to be assigned to a new panel network or are already assigned.

- 6. From the MD-N32 list (the MD-N32's MAC address should be labeled on the TCP/IP converter), select the appropriate MAC address.
- 7. In **Gateway Type**, select the type of TCP/IP converter, MD-N32, MD-IP32 On board, or any other valid option. Skip this selection if it is already valid.
- 8. Type the **Local IP address** and **Subnet** for the computer's network.
- 9. Enter the Local Port number and select the Speed of your connection. It is recommended to select a higher value port number (4001 or higher). Note that the selected should not end with zeros (prefer setting Port value of 4243 rather than 4200). This avoids colliding with port addresses reserved for various equipment installed on the same network.
- 10. Click **OK** to start the verification process.
- 11. Turn off the MD-N32 power (or panel power if using the onboard module, such as MD-IP32), and then turn the power on again. This step is necessary when using certain versions of MD-N32 or MD-IP32 models. Skip this step if not applicable.
- 12. If configuration applies to a WAN network, disconnect the configured unit from the local network, and reconnect to the WAN network and access control panels network working over the WAN.

To configure MD-N33 in AxTraxNG™:

- 1. In the AxTraxNG[™] software, add a new network.
- 2. Under network type, select **Modem**.

Description		
Network 3		
Enabled		
Network type		12345678
Modem	~	
Modern Network Com Port		
1	~	
Speed		
9600	~	
		Configuration



Communication speed is limited to 9600, 19200, 57600, or 115200 bits per second.

To initialize and configure the computer modem:

1. In the Network window, click **Configuration**. The Modem Configuration window opens.

Remote modem phone number	
Number of dial attempts	
Additional dialing string options ATS30=30DT	✓ Use default
Dialing schedule Time Zone	 Disconnect by <u>s</u>chedule end
Never	O Disconnect on upload complete
ettings	
AT&FEL 3X/NOS7-608/D&K8W8X7	V Lise default Apply

- 2. In the **Dialing** area, under **Remote modem phone number**, type the destination telephone number to call.
- Click to change the Number of dial attempts (if required).
 For most applications, the default dialing string is sufficient.
 The dialing string is displayed in the window.
- 4. Clear the **Use default** checkbox. This allows adding or editing of the dialing string. Then, type the AT command in the **Dialing string** window.
- 5. From the **Dialing schedule** dropdown list, select the time zone.
- 6. Choose the disconnecting condition: **Disconnect by schedule end** or **Disconnect on upload complete**.

This option is enabled when the selected time zone is different from the default time zone (Always and Never).

- 7. In the **Settings** area, the initialization string is displayed in the window. For most applications, the default initialization string is sufficient.
- 8. Clear the **Use default** checkbox to allow adding or editing of the dialing string. Then, type the AT command in the **Dialing string** window.
- 9. Connect the computer's modem to the PC via the selected COM port, and click **Apply** to initialize the PC modem.
- 10. Click **OK** to complete the initialization.
- 11. If the computer displays a failure message, check the modem connections and repeat the last steps.



Remote modem initialization is at the PC side. When modem initialization fails through telephone line, a message appears.

To initialize and configure the remote modem:

1. In the Modem Configuration window, click the **Remote modem** tab.

Modem configuration	
PC modem Remote modem	
Settings Initialization string AT&FEL3KNOS7=60&D&K&W&YZ Number of dial attempts 1	✓ Use default
	Password

- 2. In the **Settings** area, the initialization string is displayed in the window. For most applications, the default initialization string of is sufficient.
- 3. Clear the **Use default** checkbox to allow adding or editing of the dialing string. Then type the AT command in the **Dialing string** window.
- 4. In **Number of rings to answer**, set the number of rings before the computer modem answers.
- 5. Connect the remote modem to the computer via the selected com port, and click **Apply** to initialize the computer modem.
- 6. Click **OK** to initialize.
- 7. If a failure message appears, check the modem connections and repeat the last steps.



The MD-N33 and AxTraxNG[™] software are now configured and ready.

You can now continue working using the AxTraxNG[™] Adding New Panel procedure.

To check the remote modem status:

- 1. When a panel is setting in a modem network, you can see the status of the modem by clicking the **phone** icon in the toolbar.
- 2. There is a manual option to dial or disconnect the modem.

Network	Phone number	Status	Duration
Network 4	544656931	Disconnected	
Network 5	245678546	Disconnected	

3. To prevent access to AxTraxNG[™] data from non-authorized users, the AC-215, AC-225, AC-425 or AC-525 access control panels contain a password that can be changed only when the modem is connected and there is a link with the panel. You may be asked to enter the password during first data configuration, such as adding a new panel or downloading a new firmware.

Confirm modem passwo	rd 🔀
Change password Current password	New password
Default	Confirm password
	<u>OK</u> <u>C</u> ancel

D. Restoring Factory Default Settings

If the modem configuration password is lost or forgotten, reset the access control panel to the factory default settings, and use the default "VeriTrax" password.



Restoring factory default settings resets all doors and reader configurations to their factory defaults and clears all user properties.

To restore the factory default settings:

- 1. Turn off the supply power.
- 2. Disconnect all doors and readers wiring.
- 3. Connect Data 0, Data 1, and Tamper inputs to GND (-) in both reader 1 and 2 (total of six wires)
- 4. Power up the supply power for a few seconds. Wait for the "LED3" and "LED4" LEDs to flash alternately.
- 5. Turn off the supply power.
- 6. Connect the doors and readers wiring again.
- 7. In AxTraxNG[™], delete the panel by clearing the **Enable panel** checkbox in the panel screen. Click **OK**.
- Select the Enable panel checkbox in the panel screen and click OK. This action causes a full reset of the access control panel with the factory settings.
- Dial to the appropriate access control panel and click password in the modem status screen. Use AxTraxNG[™] as the current password, and change the password to a new one.

E. Configuring User Counters

You can use the User Counter options to limit the number of entrances of a particular user. This is done using the Counter option that appears on the *User Properties* window (Figure 2 in Section 5.13.2).

To configure user counters:

- 1. Go the *General* tab of the *User Properties* window either as part of the procedure of adding a new user as described in Section 5.13.2, or select an existing user in the **Departments/Users** element.
- 2. On the toolbar, click the 🗾 icon.
- 3. In the Counter section of the *User Properties* window, select the **Enable** checkbox.
- 4. Select the **Set new counter** checkbox and specify the number of allowed entrances for the user using the **Counter value** spin box.

Counter	
🗹 Enable	Counter value
Set new counter	100 🗘 (1 to 1000)

- 5. Click **OK**.
- 6. Go the *General* tab of the *Reader Properties* (Section 5.6).
- 7. In the Details section, select the **Deduct User counter** checkbox.



8. Click **OK**.

E.1 Resetting Counter on Panel Re-enable

There is an additional counter option that allows you to reset the user counter to its starting value in the event that a panel is disconnected and then reconnected again.



If this option is not used, then upon panel re-enable, the user counter continues with its previous value prior to having that panel disabled.

To reset the user counter on panel re-enable:

- 1. In the Tree View, expand the **AC Networks** element and select a network.
- 2. From the Table View area, select a panel.
- On the toolbar, click the *r* icon. The *Panel Properties* window opens.
- 4. Click the *Options* tab.

Configuring User Counters

5. Select the **Set new counter** checkbox.

User Counter on re-enable the panel— Set <u>n</u>ew counter

6. Click **OK**.

F. Cross Platform Camera Setup

This section describes the complete process of adding cameras to the AC-525 panels as defined both in AxTraxNG[™] and ViTrax[™] applications, as well as emphasizes some of the important steps to help ensure proper camera operation.

This process is essentially a two-step procedure that needs to be defined in both applications.

First, you need to add the installed camera in the ViTrax[™] software, only then is it possible to assign the camera to the relevant AC-525 panel defined in the AxTraxNG[™] application.

To add a camera to the system:

- 1. Install the AC-525 panel and connect the cameras (see AC-525 installation manual)
- 2. Add the camera in the ViTrax[™] application by either:
 - a. Performing a camera search using the **Automatically discover network devices** option.
 - b. Manually add a camera using the Camera setup wizard > Add new device – AC-525.
- 3. [Optional] Configure Motion Detection in the ViTrax[™] application if motion detection is used.

If Motion Detection is required, first define Motion analysis via the ViTrax[™] application:

- a. Select the **Use Motion Detector for the Stream Being Used** checkbox.
- b. Click **Properties** to adjust motion detection properties.



The Motion Detection feature consumes a large amount of CPU power, resulting in a high overall CPU power usage by the application. This may reduce the overall number of cameras that can be managed by the ViTrax[™] Server application.

- 4. Add the camera in the AxTraxNG[™] application:
 - a. In AxTraxNG[™], ensure that the ViTrax[™] Server is configured and is "Connected" with AxTraxNG[™].
 - b. In the AxTraxNG[™] Tree menu, select the relevant AC-525 Network item.
 - c. On the toolbar, click the 🍢 icon.

On the left, you see the names of the cameras connected with this network as previously defined in ViTrax™.

Cross Platform Camera Setup

Location	Description	Attached to AxTraxNG
Camera A	AC-525\002	
Camera B	AC-525\003	
	I	

- d. Select the **Attached to AxTraxNG™** checkbox next to the camera you wish to add to the system
- e. Click OK.
- 5. Set the camera properties in the AxTraxNG[™] application:
 - a. In the Tree View, click **AC Networks**.
 - b. Expand a network and select a panel to configure.
 - c. On the toolbar, click the panel's with icon.
 The available cameras are listed in the display area.
 - d. Select a camera row.
 - e. On the toolbar, click the 📧 icon.

The Camera Properties window appears.

- 6. Set the camera's time zone and daylight savings behavior from the *Camera* screen in the AxTraxNG[™] application (Step 1):
 - a. In the Camera Properties screen, click the Time tab.
 - b. Select the local Time Zone from the dropdown list.
 - c. If Daylight Saving Time is now active, select the **Enable Daylight Saving Time** checkbox.

This advances the local time selected by 1 hour.

d. Click **Apply** or **OK**.



Daylight savings is currently not updated automatically by Windows. It is therefore the user's responsibility to enable or disable the daylight saving time checkbox as necessary.

- 7. Set the camera's time zone and daylight savings behavior from the *Camera* screen in the AxTraxNG[™] application (Step 2):
 - a. In the Tree menu double click a Panel item and Select the **Options** tab.
 - b. In the Time Zone section, define the time zone and Daylight Saving Time to match that of the *Camera* properties from Step 6).

- 8. Test time synchronization in both application:
 - a. In the Tree menu, select your network.
 - b. On the toolbar, click the ^O icon and verify that the time matches the AxTraxNG™'s Server PC time.
 - c. Select the panel and click **Apply** (1 or 2 seconds difference is acceptable).
 - d. In the tree menu, double-click the 🍢 icon and click **Properties**.
 - e. Click the *Time* tab and verify that it matches the AxTraxNG[™] Server PC time.
 - f. If the ViTrax[™] Server application and the AxTraxNG[™] Server application are running on different PCs, ensure that both of the PCs are synchronized. It is advised that both PCs are assigned with the same time server.

G. Enrolling Cards using MD-08 Desktop Reader

This option is available for users with the MD-08 unit on-board.

To define the MD-08:

- 1. Select **Cards** in the Tree View.
- 2. Click the **Insert card by MD-08** icon on the toolbar or click **Add from MD-08** on the *User form Codes* tab.

The Add Cards from MD-08 window opens.

ad cards from MD-08	
Card type	
Wiegand 26 Bits	*
COM port	
None	
	Select All
	Concertine .
	Select None
	OK Cancel

- 3. Select the Card type and Com Port from the respective dropdown lists.
- 4. Enroll cards using the reader.
- 5. Click **OK.**
H. SQL Server Installation Troubleshoot

When installing the MS SQL Server 2005 Express component in a Windows Server (2003 or 2008) environment, you might get the following error message: "*The sa password must meet SQL Server password policy requirements.*"

This is because either:

- The domain-enforced policy is preventing the installer from setting the SA user's password, or
- The local security policy is preventing the installer from setting the password

You can temporarily disable this policy while the installation is running and click **Retry** to let the installation complete successfully. After installation is finished, you can restore the policy to the desired setting.

If you are on a Domain Controller, check the Domain Controller security settings first:



If the setting is set on a domain controller, you may need to run GPU date to force the changes to propagate.

Note

If the server is not part of a domain, check the local security policy:

- 1. Open the MMC console: Start -> Run -> mmc.exe
- 2. Click File -> Add/Remove Snap-in:



3. Add the Group policy object for the Local Computer:



SQL Server Installation Troubleshoot

4. Disable (temporarily) the security policy:



I. AxTrax.NET Watchdog

The AxTrax.NET Watchdog is a program that monitors the AxTrax server. Double-click the III icon in the Window system tray to open the program.



The main window contains the following four topics:

Common Info	Shows general system information	
Error Log Sending	Sends error log to Rosslare Customer Support	
DB Connection	Changes DB connection string	
	Note: Administrator password is required	
Restart Server	Restarts the AxTraxNG [™] server	
	Note: Administrator password is required	

Once the main window opens, you can click on any of the three main topics to open that topic's screen.

I.1 Common Info

This screen shows general system information: server status, downloads counter, number of networks, number of panels, and networks and panels status.

In addition, if you import an earlier database from VeriTrax AS-225/AxTrax AS-525, the progress of the import is displayed in Common Info.

🛄 AxTraxNG Watchdog		- 🗆 🗙
Common Info	Server run as console application	
DB Connection	Import earlier database versions from Veritrax AS-225/AxTrax AS-525	
Restart Server		
	Import access events (0/20)	

I.2 Error Log Sending

If you are experiencing problems with the server, you can use this function to send a report to Rosslare Customer Support for help.

The Error Log Sending screen contains following fields:

Hardware Configuration Select this checkbox if you war Hardware configuration with E	
Operating System	Sends OS version with Error log
List of Users	Sends Users list with Error log
List of Installed Programs Sends List of installed programs with log	
List of SQL Servers	Sends List of SQL Servers with Error log
Event Log Messages	Sends Windows Event Log with Error log
Ping Networks	Sends network ping result with Error log
Get connection string from server	Sends connection string of DB with error log This option is enabled when Ping Network checkbox is selected.
SQL Server*	PC address with SQL server installed

Table 27: Watchdog > Error Log Sending Screen

AxTrax.NET Watchdog

Database*	DB name
Username*	Username of DB
Password*	Password of DB
AxTraxNG/Old AxTrax radio buttons*	DB of AxTraxNG [™] of Old AxTrax
Sender section	
Email Sender Email	
Company	Sender Company
Name	Sender Name
Problem	Short description of problem
Buttons	
Save Button	Saves log to local machine
Send Button	Sends the log to Rosslare Customer Support

*These options are enabled when the **Get connection string from server** checkbox is cleared.

To send an Error Log report:

1. Click the **Error Log Sending** topic.

The Error Log Sending screen is displayed.

🛄 AxTraxNG Watchdog			
Common Info	Hardware Configuration	Ping Networks	
DB Connection	🔽 Operating System	Get connection string from server	
Restart Server	List of Users		
	List of Installed Programs		
	List of SQL Servers		
	Event Log Messages		
	Sender Email Name Notes	Company Company Problem	Send

- 2. Select the relevant checkboxes.
- 3. In the Sender section, fill out the necessary fields.
- 4. Click Send.

I.3 DB Connection

This feature allows you to change the database connection string. The DB connection window contains following fields:

Table 28: Watchdog > DB Connection Screen

Database	Database name	
Server	DB Server path	
Integrated security checkbox	Select this option to sends username and password of database	
Username	Database username	
Password	Database Password	

To change the DB connection settings:

- 1. Click the **DB Connection** topic.
- 2. Enter the administrator password and click **OK**.

The *DB Connection* screen is displayed.

🚺 AxTraxNG Watchdog		- O ×
Common Info	Database	
Error Log Sending	AxTrax1	
Restart Server	Server	
	(local)/Veritrax	
	✓ Integrated Security Username sa Sa Password	
		<u>S</u> ave

- 3. Change the field parameters as desired.
- 4. Click Save.

I.4 Restart Server

If you try to open the AxTraxNG[™] Client but you get an error that the server is not connected, you may need to restart the server.

To restart the server:

1. Click the **Restart Server** topic.

The *Restart server* button appears.

AKTraxNG Watchdog Common Info Error Log Sending DB Connection Restart Server	_
Restart server	

- 2. Click **Restart server**.
- Enter the administrator password and click OK. The server restarts within a few seconds.

J. Adding Custom Wiegand Formats

The Wiegand protocol it the most common protocol between readers and controllers. This protocol is actually a collection of bits that represents the number of the user card ID.

There are many types of Wiegand protocols. Protocols differ from one another depending on the following three factors:

The number of bits sent per card

The most common format is 26-bit, but there are many more types such as 30-, 32-, 35- , and 36-bit.

The representation of the user number

In each card, there is a number that defines the user, but the representation of this number inside the Wiegand protocol can be changed. In addition, there is a Facility code in most protocols, which is not part of the number but is common to all users in this particular area. There are cards with additional codes such as Site code, but AxTraxNGTM recognizes them as a Facility code only. This means that if a card has both a Site code and a Facility code, AxTraxNGTM recognizes the first Facility code and the second Facility code is ignored.

The authentication mechanism and its type inside the bit stream In most protocols, there is a certain type of authentication of the data transferred from the reader to the controller.

Once the user knows the format of the card, meaning how many bits there are per card, the user can use the other two factors to create new rules, which can then be enrolled into the software to teach the controller to understand the new format.

J.1 Representation

The following options are available when discussing the number representation:

- Card number is represented in a binary or hexadecimal code
 All the bits in the protocol are represented with 'D', which stands for data.
- Card number is represented in the protocol as a "reverse bytes". For example, if the number (hexadecimal) is 34 65 89 32, then it is represented as: 32 89 65 34.

All the bits in the protocol are represented with 'R'.

 Card number is represented in the protocol as a "reverse bits". For example, if the number (hexadecimal) is 34 65 89 32, which is represented in binary code as: 00110100 01100101 10001001 00110010 then in reversed bits format, it is 4C 91 A6 2C, which is represented as: 01001100 10010001 10100110 00101100 in binary.

All the bits in the protocol are represented with 'Z'.

 Card number is represented in the protocol as a BCD code (each nibble represents one decimal character). For example, if the number (decimal) is 658723, then it is represented in binary as: 01100101 10000111 00100011.

All the bits in the protocol are represented with 'B'.

J.2 Facility Code

If supported in the card, the software must know where it is placed inside the bit array and how many bits it takes.

Of the 5 representation options presented in J.1, only the data format can be used with the Facility code; however, all the bits in the protocol are represented with 'F' to differentiate it from regular data.

J.3 Authentication

Usually the array of bits that represents the card number also contains an authentication mechanism that checks that the data was transferred correctly.

AxTraxNG[™] supports several types of authentication mechanisms as follows:

Even Parity – One bit provides authentication to either several bits proceeding or following it (according to the defined protocol). This bit makes the total number of related bits an even number.

The Even Parity bits in the protocol are represented with 'E' and all the bits that they verify are represented with '1'.

 Odd Parity – One bit provides authentication to either several bits proceeding or following it (according to the defined protocol). This bit makes the total number of related bits an odd number.

The Even Parity bits in the protocol are represented with 'O' and all the bits that they verify are represented with '1'.

 CheckSum – The number of bits (usually 8) provides the sum of the previous bytes.

Checksum bits in the protocol are represented with 'S' and all the bits that they verify are represented with '1'.

 CheckXor – The number of bits (usually 8) provides a logical XOR value of the sum of the previous bytes.

CheckXor bits in the protocol are represented with 'X' and all the bits that they verify are represented with '1'.

J.4 Creating New Rules

Using the above principles, we can create new rules for AxTraxNG™.

To create a new rule:

- 1. In the Tree View, click **AC Networks**.
- 2. Click 🔳 icon.

The Reader Type window opens.

Reader Type	X
+ 🖙 🗙	
Description	<u>~</u>
Wiegand 26 bits	
Clock and Data	
Wiegand 35 Bits	
Wiegand 37 Bits	
Wiegand 32 Bits	
Wiegand 32 Bits Reversed	
Wiegand 34 Bits	=
Wiegand 40 Bits	
Wiegand 40 PCSC Bits	
Wiegand 64 Bits	
Wiegand 37 Bits (10bit FC/16bit ID)
Clock and Data 6 digits	
Wiegand 37 long ID (16bit FC/19b	it ID)
Wiegand 37 (Rosslare)	
Wiegand 37 (AWID)	~
	Close

3. Click the 井 icon.

The Custom Reader Settings window opens.

Custom Reader Settings		X
Description Custom Format 2		
Number of bits	Set as Default	-
Rules		
		OK Cancel

- 4. Enter a description of the new rule.
- 5. Choose the number of bits the new rule will use.
- 6. [Optional] Select the Set as Default checkbox.
- 7. In the Rules section, enter the protocol rules according to the guidelines described in Sections J.1 through J.3 and as shown in the example below.

Adding Custom Wiegand Formats



The protocol definition is for the entire system and not per controller.

Example

Enter a new Wiegand 29-bit protocol with the following rules:

- Rule 1: Bit 1 Odd parity on the bits 3–15
- Rule 2: Bit 2 Even parity on the bits 16–28
- Rule 3: Bit 29 Odd parity on the bits 1–28
- Rule 4: Bits 11–28 ID data
- Rule 5: Bit 3–10 Facility code

The new protocol appears in the *Custom Reader Settings* window.



Please note that the first character in the first row and the last character in the third row, which represents the odd parity, is a capital "O" and not a zero (0).

Note

Adding Custom Wiegand Formats

The new protocol now appears in the list of available protocols.

Reader	
General Options Access event	
C Details	
Description	Operation mode
1\Panel 1\Reader 1	Card Only 🗸
Direction: 💿 In	Secured (Card+PIN) time zone
🔿 Out	Never 🗸
Activation: 🗹 Open 1\Panel 1\Door	Deduct User counter
Reader type	Keypad type
Wiegand 26 bits 🗸	Inactive
Wiegand 40 PCSC Bits Wiegand 64 Bits Wiegand 37 Bits (10bit FC/16bit ID) Clock and Data 6 digits	
Wiegand 37 long ID (16bit FC/19bit ID) Wiegand 37 (Rosslare) Wiegand 37 (AWID)	OK Cancel
Wienand 23 for example	1

The representation of each existing protocol can be viewed.

To view the format of existing protocols:

- 1. In the Tree View, click **AC Networks**.
- 2. Click **Reader Type** icon.

The Reader Type window opens.

Reader Type	×
+ ₩ X	
Description	^
Wiegand 26 bits	
Clock and Data	
Wiegand 35 Bits	
Wiegand 37 Bits	
Wiegand 32 Bits	
Wiegand 32 Bits Reversed	
Wiegand 34 Bits	=
Wiegand 40 Bits	
Wiegand 40 PCSC Bits	
Wiegand 64 Bits	
Wiegand 37 Bits (10bit FC/16bit ID)	
Clock and Data 6 digits	
Wiegand 37 long ID (16bit FC/19bit ID)	
Wiegand 37 (Rosslare)	
Wiegand 37 (AWID)	~
La	
Close	3

 Double click protocol you wish you view (in this case, Wiegand 26-Bit). Alternatively, you can choose the protocol you wish to view and click the ref icon.

The Custom Reader Settings window opens.

Custom R	Reader Settings	X
Descripti	iption	
Wiegand	and 26 bits	
Number (26 😂	er of bits	
Rules	1111111100000000000	
000000	00000000111111111110	
000000	00000DDDDDDDDDDDDDD0	
OFFFFF	FFFF0000000000000000	
	0	K Cancel
The protocol representation is for viewing only and cannot be edited.		
late		

For help in creating a new protocol, please refer to Customer Support.



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