

Xecure Integrated System

User Guide

Manual Revision 1.1a

- draft
- to be validated
- validated

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Document history

Version	Date	Drafter	Description
1.1a	June 2015	Xecure	Alpha Document Release
0.9a	Nov 2014	Xecure	Initial Document

1. Icons used in this manual

Throughout this document, the pictograms below are used to underline points or important notions

	Important information
	Good to know - Tricks
	Risk in front of a parameter setting or of a specific action
	Action to be avoided
	Mandatory action
	Sensitive or difficult procedure. To take into account necessarily
	<i>Actions reserved for administrators</i>
	<i>Actions reserved for users</i>

2. System Overview

2.1 System Description

The Xecure SX Integrated System Controller is the central processing unit responsible for the control of security, access control and automation in the Xecure SX integrated system, an advanced technology security product providing seamless and powerful integration of access, security and building automation.

2.2 LCD Keypad Interface

Advanced touchscreen interface with Italian-made plastics provide an elegant and simple interface for the user.

2.3 Programmable Functions

Programmable functions allow for the use of special applications that are configured by the controller for logic, area, door and many other controllable devices:

Perform actions when a particular event or operation occurs such as setting the room temperature based on the number of people in an area, adjusting the internal lighting levels based on a sensor reading, or unlocking doors in the event of a fire alarm

Process logic functions to allow complex equations to be evaluated using the special internal memory registers and output status. Control of doors, areas, and outputs can be easily programmed and managed. Connectivity and System Expansion

- 16 on board zone inputs can each be programmed to require EOL (End Of Line), or direct contact
- 4 Open Collector Outputs (for sirens, strobes and other devices)
- 4 integrated Wiegand reader ports for Card Readers
- System expansion is achieved by connecting additional Xecure SX modules as 'Slave' Panels.

2.4 Communication

RS-485 communication interface, USB Interface, and a 10/100 Ethernet communication port provides a complete solution for system expansion, offsite monitoring, system communication and integration.

2.5 IP Reporting Services

The controller incorporates a host of communication options.

- Send IP based reporting protocols using the onboard Ethernet port.
- Communicate with third party applications using ASCII or HEX directly from the controller.
- Ethernet 10/100 Connection On board Ethernet communication allowing direct connection from a PC, Tablet or Mobile via WEB, and interconnection to an existing LAN/WAN:
- Directly connect the Xecure SX system across a LAN or WAN interface for high speed upload and download.
- IP reporting functionality using the IP Reporting protocol.
- Full 10/100 compliant network interface allows the connection of the
- controller to all networks at the maximum capable signaling rate.

2.6 Integrated Arming and Disarming.

Featuring advanced integration of arming and disarming solutions:

- Deny access to a user based on the status of the area and the ability for the user to control the area they are entering in turn reducing false alarms.

2.7 Integrated Access Control

Providing a highly sophisticated access control solution with large user capacity and extensive features:

- Utilize multiple access levels to manage users over scheduled periods and time zones.
- Assign doors, areas, and floors to a user profile for flexible user management.
- Multiple card presentation options allow the use of access control cards, tags or other credentials to arm and disarm areas associated with doors.

2.8 Automation Functions

- Automation points allow for the management of any controllable device such as lighting, air conditioning and signage.
- Link automation points to programmable functions to provide sophisticated control logic at the selection of an automation point.
- Text names can be set for automation points allowing a scrollable list of controllable items in the system such as Office A/C or Outside Lights.

3.0 Technical Specifications

Panel (Motherboard)

Operating Voltage	12VDC 2A (min) via Transformer
Operating DC Input Current	5A Max@ 12VDC
4 x Relay Outputs	10A @ 120VDC MAX
Communication (Ethernet)	10/100Mbps Ethernet
Communication (Serial)	4 x USB Interface Port
Readers (Standard Mode)	4 Wiegand or clock data readers
Zone Inputs (System Zones)	16 High Security Monitored Zone Inputs
Tamper Input	Selectable Hardware Tamper Input
OC Outputs	4 x 50mA (Max) Open Collector Output for reader LED and beeper
Status Output	150mA (Max) Open Collector Output
Operating Temperature	0 to 49C {32 to 122 F}
Storage Temperature	-10 to 85C (14 to 185 F)
Humidity	0% to 93% non-condensing, indoor use only (Relative Humidity)
Dimensions	(L x W x H) 234 x 183 x 35mm (9.21x7.20x1.37")
Weight	376g

LCD Touchscreen

Operating Voltage	12VDC 500mA
Communication	RS485 Bi-Directional BUS
Resolution	480x272 Pixels
Type	Colour 24bit
Housing	Italian Injected Moulded Plastics
Size	4.3in Resistive Touch

4. Web Interface

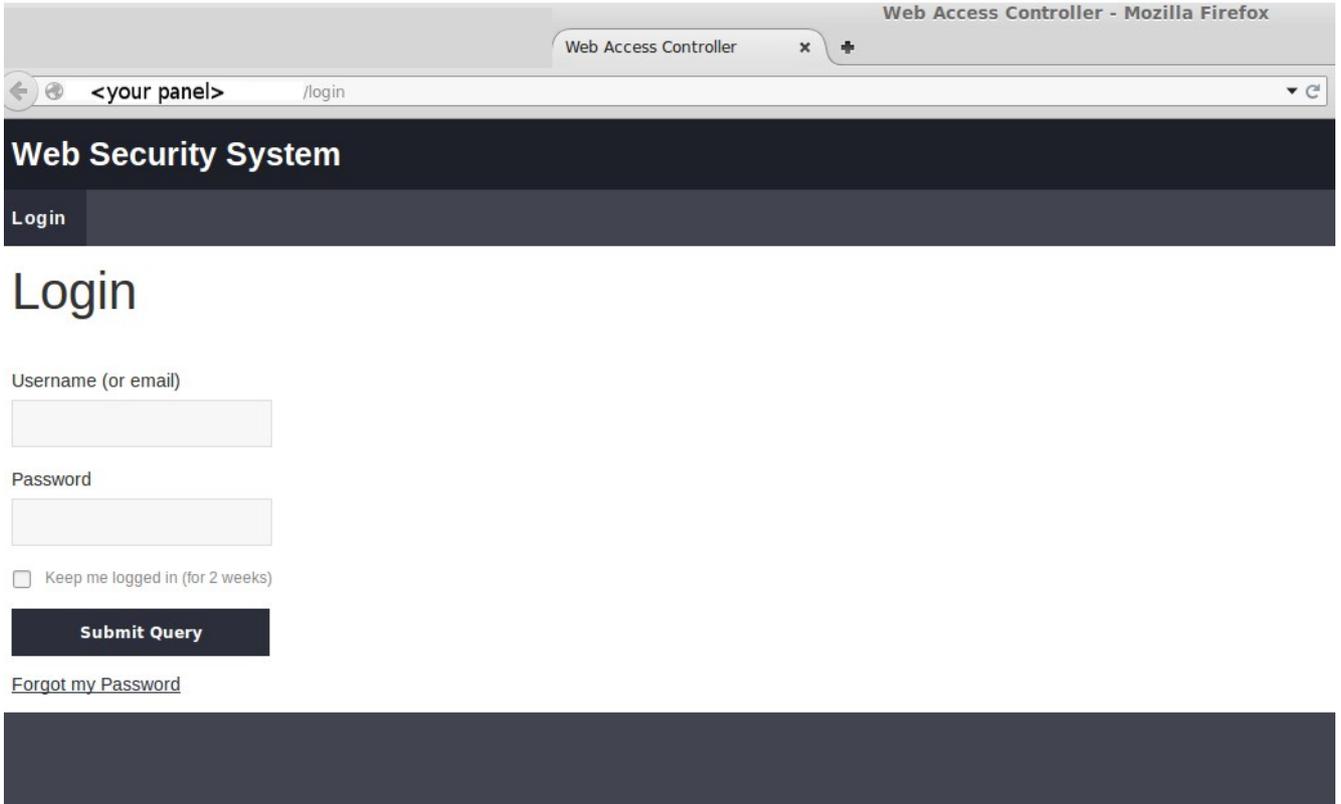
4.1 Login Screen

Browsing to your panel (or using a authorised dns service) will bring you to the login page. Here, enter your credentials to login.



If you are using a dns service, you will get this page AFTER entering your hostname.

This page is also available on mobile devices.



The screenshot shows a web browser window titled "Web Access Controller - Mozilla Firefox" with a single tab "Web Access Controller". The address bar shows "<your panel>/login". The page content includes a dark header with "Web Security System" and a "Login" button. Below the header is a "Login" section with the following elements:

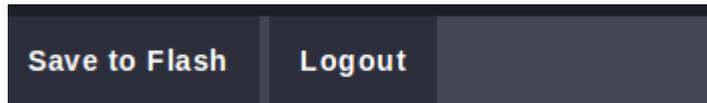
- Username (or email) input field
- Password input field
- Keep me logged in (for 2 weeks)
- Submit Query button
- [Forgot my Password](#) link

Enter your **<username>** and **<password>** and click 'submit query'.



If you cannot gain access to your panel, please contact your systems integrator.

4.2 Header and Menu



The top of the page has (2) buttons.

Save to flash

after you have made any changes on your system, a 'save to flash' commits those changes to the on-board flash.



If you forget to 'save to flash', and the system is rebooted, it will revert to the last configuration (the last time you 'saved to flash').

Logout

logs you out of your system.

Areas	Areas – for arming, disarming, or managing areas
Doors	Doors – manages characteristics on individual doors, here you can open, close, unlock and edit door details.
Inputs	Inputs – see the status of sensors wired into your system, or edit their settings and actions
Outputs	Outputs - see the status of outputs in your system, or edit their settings and actions
Profiles	Profiles – edit user profiles, and what they are allowed to do
Schedules	Schedules – edit time schedules
Users	Users – edit web login users, tags, pin numbers, and change who has access to what
Readers	Readers – change reader configuration
Reports	Reports – View system logs, and user level logs

4.3 Areas

below is a view of the area screen login, with the permission 'owner'

Other user types may have further restrictions in place, and may not see all of the menu options shown in this screen.

Xecure Security System

Save to Flash
Logout

Areas	ID	Area	Arm/Disarm	Status			
Doors	+	Area	Arm/Disarm	Status	Add		
Inputs	1	Area 1	Disarmed	Ready	Arm	Disarmed	Edit
	2	Area 2	Disarmed	Ready	Arm	Disarmed	Edit
Outputs							
Profiles							
Schedules							
Users							
Readers							
Reports							

4.4 Area Overview

Areas are virtual groupings of sensors and doors.



It is recommended that area configuration should be carried out carefully, by your system integrator, to ensure that no entry or exit restrictions arise.

Buttons on the right :

Add : allows you to 'add' new areas to your system

Arm : allows you to 'arm' the area

Disarm : allows you to 'disarm' the area



Arm and Disarm will also change colour to indicate the status of the area. (RED or GREEN).

Edit : Edit area

4.5 Edit Area



The edit area allows you to edit details of the virtual area itself, such as what sensors are allocated to the area, what profiles can use that area, and other critical details.

Area Details

Area # Current Status Disarmed

Name Commanded None

Account # Trigger None

Test Report Timer

Associated Inputs

Enable	Input Name	
	Input Name	
1	Input 1	Edit
2	Input 2	Edit
3	Input 3	Edit
4	Input 4	Edit
5	Input 5	Edit
6	Input 6	Edit
7	Input 7	Edit
8	Input 8	Edit
9	Input 9	Edit
10	Input 10	Edit
11	Input 11	Edit
12	Input 12	Edit
13	Input 13	Edit
14	Input 14	Edit
15	Input 15	Edit
16	Input 16	Edit

Associated Profiles

Enable	Profile Name	
	Profile Name	
1	Full Access	Edit
2	Restricted Access	Edit

- Area No :** numeric area number (automatically allocated)
- Area Name:** user defined area name
- Account # :** back-to-base account number, used to identify your area to your monitoring service
- Test Report Timer :** how many seconds should elapse between test reports (default 360 = every hour)

Associated Inputs

Allows you to 'choose' the inputs that are in the area. You can 'allocate' an input to one, or many areas. <Green = enabled>

Associated Profiles

Allows you to define which 'profiles' have access to this area. <Green = enabled>

Associated Readers

Allows you to define which 'readers' have access to this area. <Green = enabled>

Associated Doors

Allows you to define which 'doors' are in this area. <Green = enabled>

Area Delays

Defines delay times (in seconds) for arming and disarming functions.

Associated Readers			
Enable	Reader Name	Type	
<input checked="" type="checkbox"/>	Reader Name		
<input type="checkbox"/>	Reader 1		Update
<input type="checkbox"/>	Reader 2		Update
<input type="checkbox"/>	Reader 3		Update
<input type="checkbox"/>	Reader 4		Update

Associated Doors		
Enable	Door Name	
<input checked="" type="checkbox"/>	Door Name	
<input type="checkbox"/>	Entry Door	Edit
<input type="checkbox"/>	Foyer Door	Edit

Area Delays			
ID	Name	Delay	
<input checked="" type="checkbox"/>	Delay Name	30	Add
<input type="checkbox"/>	Entry Delay Long	30	Update
<input type="checkbox"/>	Entry Delay Short	15	Update
<input type="checkbox"/>	Exit Delay Long	30	Update
<input type="checkbox"/>	Exit Delay Short	15	Update
<input type="checkbox"/>	Fire Delay	30	Update

4.6 Doors

- Add:** here you can add new doors to your system (recommended to be used by your integrator)
- Open:** opens the door momentarily, the same as if you swiped a valid card on the door.
- Close:** forces the door shut if it is opened or unlocked
- Unlock:** holds the door open, ie unlocked !!
- Edit:** edit page for that door

ID	Door	Location	Status	
+	Door	Location	Status	Add
1	Entry Door		Closed	Open Close Unlock Edit
2	Foyer Door		Closed	Open Close Unlock Edit

4.7 Door Edit

- Name:** User definable door name
- Location:** User definable door location
- Door Open Time:** determines the no. of seconds a door will open, with a valid event (eg card swipe)
- DOTL Alarm Time:** defines the 'door open too long' time, in seconds. If this feature is installed, it will trigger an 'alarm' if the door is held open for longer than this time (in seconds).

Door Details

Door # Door Status Closed

Name

Location

Door Open Time

DOTL Alarm Time

Automated Door Opening Schedules

Enable Schedule Name

Enable	Schedule Name	
<input checked="" type="checkbox"/>	Schedule Name	
<input type="checkbox"/>	1 24/7 Schedule	<input type="button" value="Edit"/>
<input type="checkbox"/>	2 9am - 5pm Only	<input type="button" value="Edit"/>

Automated Door Opening Schedule



Here you can choose a schedule to 'unlock' and 'lock' the door automatically. You can edit these times through the 'schedules' menu.

4.7 Inputs



Input Name: User definable input name

Status: shows the status of a sensor:

Open: sensor is 'triggered'
 1k Closed: sensor is not triggered
 Disabled: sensor input is disabled

Module: shows the physical module location (references hardware)

ID	Input Name	Status	Module	
	Input name	Status	Module	
1	Input 1	Disabled (0)	1:1 (Main Module)	Edit
2	Input 2	Disabled (0)	1:2 (Main Module)	Edit
3	Input 3	Disabled (0)	1:3 (Main Module)	Edit
4	Input 4	Disabled (0)	1:4 (Main Module)	Edit
5	Input 5	Disabled (0)	1:5 (Main Module)	Edit
6	Input 6	Disabled (0)	1:6 (Main Module)	Edit
7	Input 7	Disabled (0)	1:7 (Main Module)	Edit
8	Input 8	Disabled (0)	1:8 (Main Module)	Edit
9	Input 9	Disabled (0)	1:9 (Main Module)	Edit
10	Input 10	Disabled (0)	1:10 (Main Module)	Edit
11	Input 11	Disabled (0)	1:11 (Main Module)	Edit

4.8 Outputs

- Name:** User definable output name
- Module:** Hardware location of the output
- Status:** shows the current status of the output

ID	Output	Module	Status			
	Output	Module	Status			
1	Relay 1	1:1 (Main Module)	Cleared	Set	Clear	Edit
2	Relay 2	1:2 (Main Module)	Cleared	Set	Clear	Edit
3	Relay 3	1:3 (Main Module)	Cleared	Set	Clear	Edit
4	Relay 4	1:4 (Main Module)	Cleared	Set	Clear	Edit
5	OC1	1:5 (Main Module)	Cleared	Set	Clear	Edit
6	OC2	1:6 (Main Module)	Cleared	Set	Clear	Edit
7	OC3	1:7 (Main Module)	Cleared	Set	Clear	Edit
8	OC4	1:8 (Main Module)	Cleared	Set	Clear	Edit
9	Reader 1 Beep/LED	1:9 (Main Module)	Cleared	Set	Clear	Edit
10	Reader 2 Beep/LED	1:10 (Main Module)	Cleared	Set	Clear	Edit
11	Reader 3 Beep/LED	1:11 (Main Module)	Cleared	Set	Clear	Edit
12	Reader 4 Beep/LED	1:12 (Main Module)	Cleared	Set	Clear	Edit



- Set:** manual trigger of the output (for testing purposes only.)
- Clear:**  ** if you want to open doors, you should use the 'doors' menu. manual clear of the output (for testing purposes only.)
- Edit:** edits the output configuration.

4.9 Profiles



Profile Name: User definable profile name

Description: User definable profile description

ID	Profile Name	Description	
+	Profile Name	Profile Description	Add
1	Full Access	Unrestricted System Access	Edit
2	Restricted Access		Edit

Add: After entering a name, and description you can 'add' a new profile

Edit: You can then 'edit' a profile

4.10 Profile Edit

Edit Profile Details

Name	<input type="text" value="Full Access"/>	<input type="button" value="Update"/>
Description	<input type="text" value="Unrestricted Syste"/>	<input type="button" value="Update"/>

Profile Alarm Options

Y	Can Force Arm
Y	Can Stay Arm
Y	Can Sleep Arm
Y	Can Full Arm
Y	Can Disarm System
Y	Can Set Duress Alarm
Y	Can Set Fire Alarm

Profile Access Options

Y	Can Open Doors in Areas
Y	Can Disarm Areas on Access
Y	Can Egress Outside of Schedule
N	Can Open Doors in Armed Area
N	Can Ingress if already in Area
N	Can Egress if not in Area

Profile Schedules

Enable	Schedule Name	
	Schedule Name	
1	24/7 Schedule	<input type="button" value="Edit"/>
2	9am - 5pm Only	<input type="button" value="Edit"/>

Profile Areas

Enable	Area Name	
	Area Name	
1	Area 1	<input type="button" value="Edit"/>
2	Area 2	<input type="button" value="Edit"/>

Profile Alarm Options

- Can Force Arm** if enabled, will enable you to arm the system if an input is open.
- Can Stay Arm** <future use>
- Can Sleep Arm** <future use>
- Can Full Arm** if enabled, will allow arming. If disabled, will prevent arming
- Can Disarm System** if enabled, will allow disarming. If disabled, will prevent disarming
- Can Set Duress Alarm** <future use>
- Can Set Fire Alarm** <future use>

Profile Access Options



Can Open Door in Areas	if enabled, the user has access to doors in the area(s)
Can Disarm Areas on Access	if enabled, a swipe to an 'armed' area will automatically disarm the area (will override multi-swipe rules)
Can Egress Outside of Schedule	if enabled, will allow users exit an area outside of their schedule time
Can Open Doors in Armed Area	if enabled, will open a door, even if the area is armed  If disabled, will lock the user out of an area if the area is armed.
Can Ingress if already in Area	if enabled, allows a user to enter an area (regardless of if they exited prior)
Can Egress if not in Area	if enabled, allows a user to exit an area (regardless of if they entered prior)

Profile Schedules

Here you choose the schedule that the user is limited by.



Profiles can have one, or many schedules, but be aware of conflicting schedules.

4.11 Schedules

Schedule Name: User definable schedule name

Description: User definable schedule description

ID	Schedule Name	Description	
+	Schedule Name	Schedule Description	Add
1	24/7 Schedule	24 Hours, 7 Days Access	Edit
2	9am - 5pm Only		Edit

Add: After entering a name, and description you can 'add' a new schedule

Edit: You can then 'edit' a schedule

Edit Schedule Details

Name	<input type="text" value="24/7 Schedule"/>	<input type="button" value="Update"/>
Description	<input type="text" value="24 Hours, 7 Days Access"/>	<input type="button" value="Update"/>

Schedule Days

Day	Start	End	
Sunday	09 : 00	17 : 00	Add
Sunday	00 : 00	23 : 59	Update
Monday	00 : 00	23 : 59	Update
Tuesday	00 : 00	23 : 59	Update
Wednesday	00 : 00	23 : 59	Update
Thursday	00 : 00	23 : 59	Update
Friday	00 : 00	23 : 59	Update
Saturday	00 : 00	23 : 59	Update

Override Schedule Dates

Date	Start	End	
05-06-2015	09 : 00	17 : 00	Add

Schedule Days:

Here you can 'add' active days to the schedule.



** Note, start and end must be within the same 24hour timeframe

Override Schedule Dates:

Days you can use to specify special schedule exceptions, like public holidays, etc. This will override the 'schedule days' settings, and take priority.

5. Users



User Name: User definable name. This becomes their web '**login**' name.

After you enter the users 'details', click '**add**' and you will add a new user to the system.

Edit: Edit user information

ID	User Name	Person	Company			
+	user name	Mr. ▼	Given Name	Surname	Company	Add
1	admin		Symetrix	Security	Symetrix	
2	master		Master	User		Edit
3	111	Mr.				Edit
4	test	Mr.	test			Edit

[Export](#)

5.1 User Edit



User Access Information

User #	<input type="text" value="2"/>	
Username	<input type="text" value="master"/>	<input type="button" value="Update"/>
Password	<input type="text" value="Change Password"/>	<input type="button" value="Update"/>
Keypad PIN	<input type="text" value="1234"/>	<input type="button" value="Update"/>
Tag #	<input type="text"/>	<input type="button" value="Read"/> <input type="button" value="Add"/>
Remote #	<input type="text"/>	<input type="button" value="Read"/> <input type="button" value="Add"/>

Associated RFID Tags

Card #	Status
Tag #	Type

Associated Remote Controls

Remote #	Status
Remote #	Type

Contact Details

Title	<input type="text" value="Mr."/>	<input type="button" value="Update"/>
Given Name	<input type="text" value="Master"/>	<input type="button" value="Update"/>
Middle Name	<input type="text"/>	<input type="button" value="Update"/>
Surname	<input type="text" value="User"/>	<input type="button" value="Update"/>
Notes	<input type="text"/>	<input type="button" value="Update"/>

Display Preferences

Long Date	<input type="text" value="Friday, 5 June 2015"/>	<input type="button" value="Update"/>
Medium Date	<input type="text" value="5th Jun, 2015"/>	<input type="button" value="Update"/>

Access Statistics

Type	<input type="text" value="Master"/>	<input type="button" value="Update"/>
Created	Friday, 26 September 2014	
Last Login	10:00:00 :: Thu, 1 Jan 1970	

Associated Profiles

Enable	Profile Name	
	Profile Name	
1	Full Access	<input type="button" value="Edit"/>
2	Restricted Access	<input type="button" value="Edit"/>

Company Information

Company	<input type="text"/>	<input type="button" value="Update"/>
Department	<input type="text"/>	<input type="button" value="Update"/>
Company Role	<input type="text"/>	<input type="button" value="Update"/>

Display Preferences

Short Date	<input type="text" value="5/6/15"/>	<input type="button" value="Update"/>
Time Format	<input type="text" value="18:55:30"/>	<input type="button" value="Update"/>

User Access Information



Password:	Web or App Password for this user
Keypad PIN	PIN number for touchscreen keypad or wiegand keypad
Tag #	Access control card/tag number
To Add a tag:	enter the tag number and press ' add ' <or> swipe a new tag at any reader and press ' read ' to read the last unallocated tag
Remote #	Remote control serial number
To Add a remote:	enter the remote serial number and press ' add ' <or> press an unallocated remote's button and press ' read '
Associated RFID Tags	added tags will be visible in this list here you can see the status of the tag. < active > is an active tag/card < disabled > means the tag will not function < stolen > is the same as disabled, but with extra logging < delete > allows you to delete a tag and reallocate to another user
Associated Profiles	allows user to access these areas <green = enabled>
Access Statistics <TYPE>	sets the user menu permissions
Contact Details	here you can enter the users contact details
Company Information	here you can enter the users company details

6. Reports



Reports show all the system activity.

You can filter this activity by clicking the '**Advanced**' Button on the top menu.

ID	Event	Area	Date / Time
25	Open by User (User 4 - test)	Area 1 - Area 1	18:11:48 :: Fri, 5 Jun 2015
24	Remote Disarm (User 4 - test)	Area 1 - Area 1	18:11:48 :: Fri, 5 Jun 2015
23	Remote Arm (User 4 - test)	Area 1 - Area 1	18:11:46 :: Fri, 5 Jun 2015
22	Remote Alarm Access (User 4 - test)	Area 0 - System Area	17:58:09 :: Fri, 5 Jun 2015
21	Remote Alarm Access (User 1 - Symetrix Security)	Area 0 - System Area	17:15:39 :: Fri, 5 Jun 2015
20	Remote Alarm Access (User 1 - Symetrix Security)	Area 0 - System Area	13:48:06 :: Fri, 5 Jun 2015
19	Remote Alarm Access (User 1 - Symetrix Security)	Area 0 - System Area	22:42:52 :: Thu, 4 Jun 2015
18	Remote Alarm Access (User 1 - Symetrix Security)	Area 0 - System Area	01:46:25 :: Thu, 4 Jun 2015
17	Open by User (User 1 - Symetrix Security)	Area 1 - Area 1	11:23:17 :: Wed, 3 Jun 2015
16	Remote Disarm (User 1 - Symetrix Security)	Area 1 - Area 1	11:23:17 :: Wed, 3 Jun 2015
15	Remote Arm (User 1 - Symetrix Security)	Area 1 - Area 1	11:23:15 :: Wed, 3 Jun 2015
14	Remote Alarm Access (User 1 - Symetrix Security)	Area 0 - System Area	11:18:26 :: Wed, 3 Jun 2015
13	Remote Alarm Access (User 1 - Symetrix Security)	Area 0 - System Area	11:13:23 :: Wed, 3 Jun 2015
12	Remote Alarm Access (User 1 - Symetrix Security)	Area 0 - System Area	21:58:53 :: Tue, 2 Jun 2015
11	Open by User (System 0)	Area 2 - Area 2	14:47:45 :: Tue, 2 Jun 2015
10	Remote Alarm Access (User 1 - Symetrix Security)	Area 0 - System Area	14:47:31 :: Tue, 2 Jun 2015

6.1 Reports – Advanced



Advanced

Clicking '**Advanced**' shows a report filter that allows you to limit results returned by your reports.

Advanced Search Form

Start Date	<input type="text" value="05-06-2015"/>	End Date	<input type="text" value="05-06-2015"/>
Start Time	<input type="text" value="00"/> : <input type="text" value="00"/>	End Time	<input type="text" value="23"/> : <input type="text" value="59"/>
Show Events	<input style="background-color: #cccccc; border: none; padding: 2px 5px;" type="button" value="Show All Events"/>	Show Areas	<input style="background-color: #cccccc; border: none; padding: 2px 5px;" type="button" value="Show All Areas"/>

Search: Returns results based on the filter details selected

Clear: Clears all the filter fields

Export: Exports the report as a CSV file