

NESS

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INNOVATIVE ELECTRONIC SOLUTIONS



*Welcome To
SmartLiving Training
Video Verification Alerts*





What We Will Cover

- *What is Video Verification?*
- *Requirements*
- *Camera Setup*
- *Configure SmartLiving Camera Details*
- *Configure Email Server Details*
- *Test Email Settings*
- *Setup Email Contacts*
- *Setup Email Alert Events*
- *Testing Events*



SMARTLIVING



What Is Video Verification?



SMARTLIVING



What Is Video Verification?

SmartLiving Video Verification can use compatible IP cameras to record and send snapshots upon programmed events.

Programmed events can take a snapshot on activation and moments after activation and record to SD card and send to an email address

Multiple IP cameras can be supported for multiple events

Possibilities include alarm verification via emailed images, recording of vehicle numberplates or people upon entry, manual image capture via press button, image capture upon access events.



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Requirements



Requirements

Video Verification for SmartLiving requires the following:

- SmartLiving panel Running V6 Firmware or later
- SmartLanG Ethernet Module running v6 Firmware or later
- SmartLeague programming software v3.5.1.0 or later
- MicroSD card for SmartLanG module (1 - 32GB)
- Internet Access for email function
- Compatible IP camera



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Camera Setup



Camera Setup

The SmartLiving video verification system works with the NESS CA series IP cameras:



104-590



104-588

Check with NESS about current compatible camera models as cameras models are often updated.

Other Onvif cameras may work but cannot be supported.



Camera Setup



Network Details?

The IP camera and SmartLiving panel must exist on the same network address range.

Before connecting the IP camera, find out which available IP address can be assigned to both the SmartLiving system and the IP camera/s to be connected.



Camera Setup



Network Details?

In this example we have the following IP addresses to set:

SmartLiving = 192.168.6.92

IP Camera = 192.168.6.10

We need to setup the camera so the details can be entered into the SmartLanG modules settings



Camera Setup



Camera Details

Camera being used:

Model: *NESS 3MP IP Onvif Camera*

Part: *104-590*

Power: *POE (48vDC) / 12vDC*

Resolution: *1920x1080*

Lens: *4mm*

IP Rating: *IP66*



Camera Setup

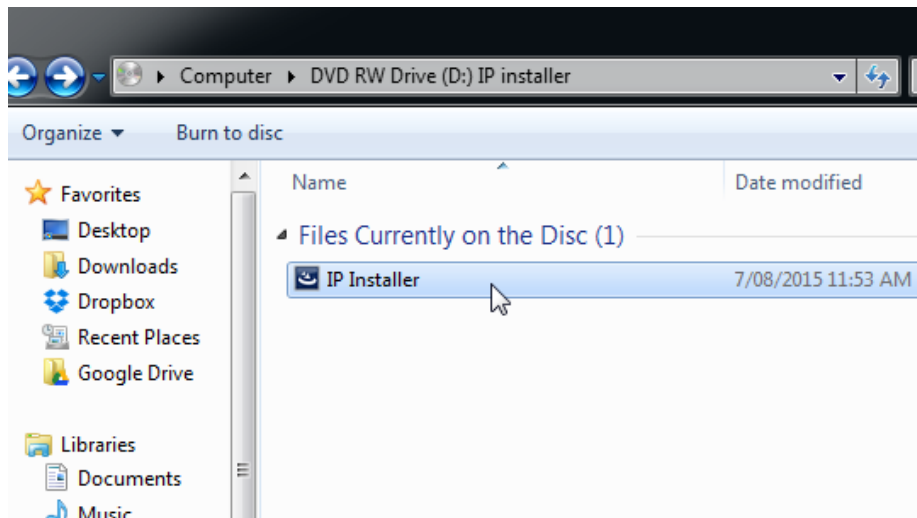


Configuring Camera

- Connect the camera to the network along with the PC



Camera Setup



Configuring Camera

- Connect the camera to the network along with the PC
- Install the IP Installer utility used to find and configure the camera



Camera Setup



The screenshot shows the 'IP Installer' utility interface. At the top, there are tabs for 'Online Devices' and 'Help'. Below the tabs, it displays 'Total number of online devices: 1'. There are buttons for 'Save as Excel' and 'Refresh'. A table lists the detected device with the following columns: ID, Device Type, IPv4 Address, Port, Software Version, IPv4 Gateway, and Device Serial No.

ID	Device Type	IPv4 Address	Port	Software Version	IPv4 Gateway	Device Serial No
001	CA562F	169.254.61.47	8000	V5.2.0build 150313	192.168.6.254	CA562F20150714CCWR5

Configuring Camera

- Connect the camera to the network along with the PC
- Install the IP Installer utility used to find and configure the camera
- Run the IP utility and the IP camera should be found.

NOTE: This utility will find the camera regardless of the cameras address on the network



Camera Setup

Modify Network Parameters

IP Address:

Port:

Subnet Mask:

IPv4 Gateway:


IPv6 Address:

IPv6 Gateway:

IPv6 Prefix Length:

Device Serial No.:

Enable DHCP

 Note: Enter the admin password of the device before you save the network parameters.

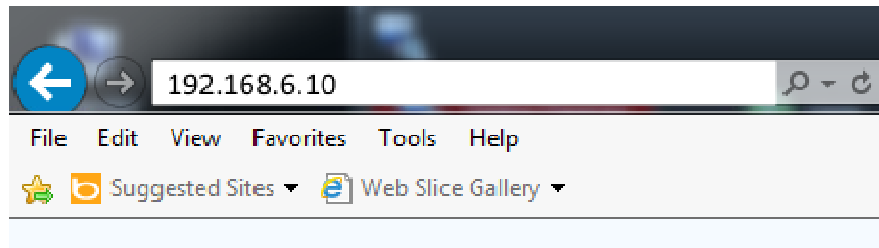
[Password Recovery](#)

Configuring Camera

- Select the camera then enter the new IP details
- Enter the cameras password (Default = 1111)
- Click **Save** to set new IP details in camera



Camera Setup



English

User Name

Password

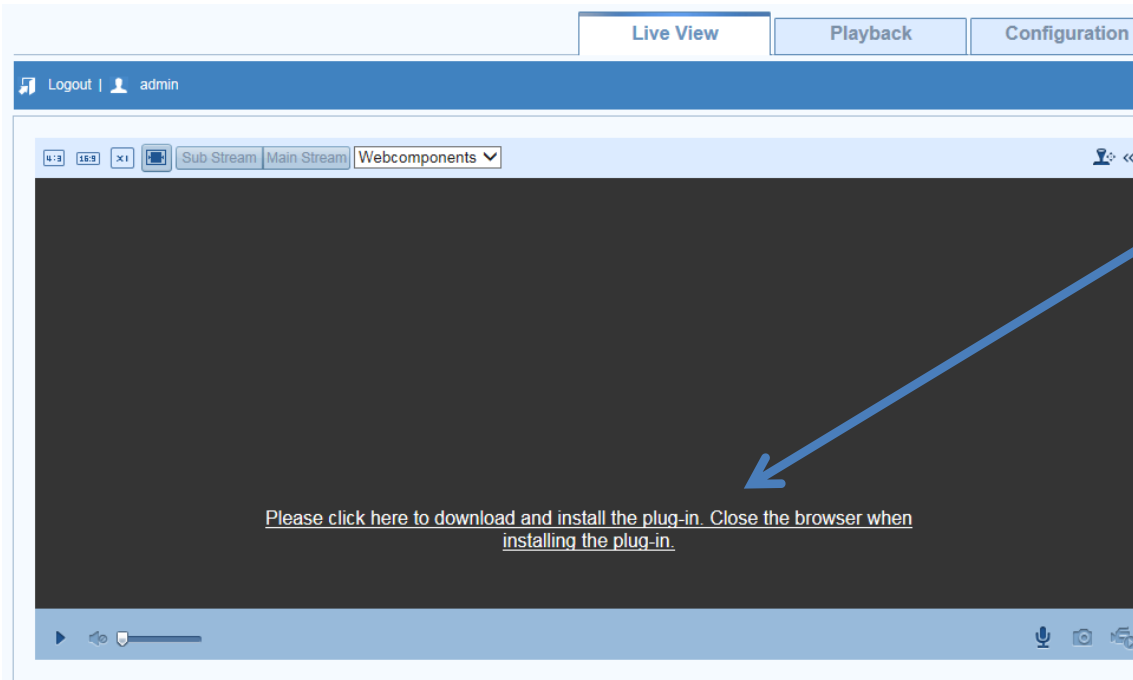
Login

Test Camera

- Open **Internet Explorer** to test camera (IE is required to view video, other browsers will not display video)
- Type in IP address of camera into address field
- Log into camera:
User = **admin**
Pass = **1111**



Camera Setup



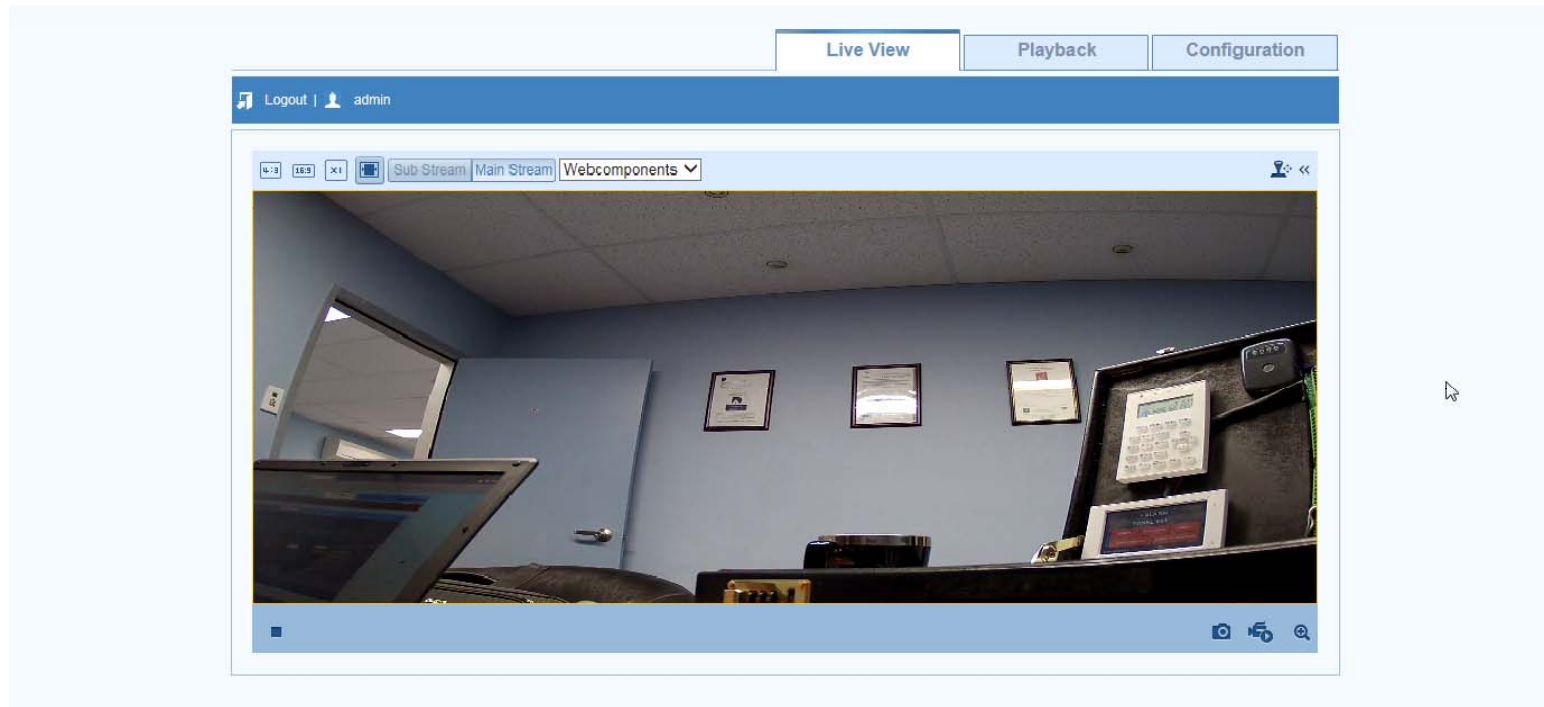
Click to download and install the required component to view camera

Select to **Run** the component when asked





Camera Setup



After component installation camera should be displayed. Confirm the cameras image and quality



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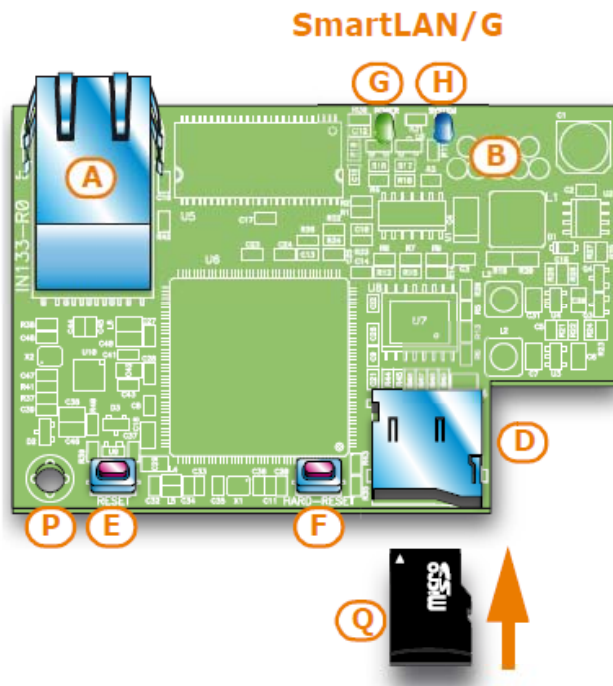


Configure SmartLiving Camera Details



Configure SmartLiving Camera Details

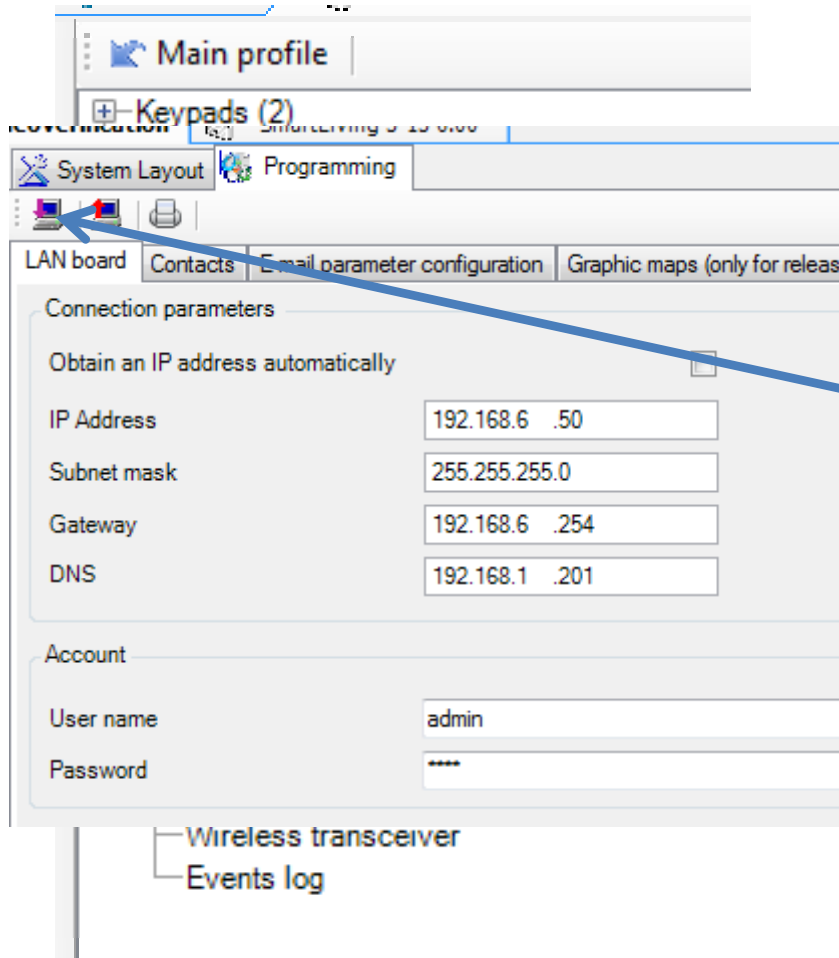
Ensure you have your SmartLanG module installed, connected and configured on the network. Refer to additional training videos and tech notes available from NESS on setting up SmartLan modules.



Insert a MicroSD Card (32GB Max) to be used to store and send images



Configure SmartLiving Camera Details



Main profile | Keypads (2) | System Layout | Programming

LAN board | Contacts | Email parameter configuration | Graphic maps (only for releas

Connection parameters

Obtain an IP address automatically

IP Address 192.168.6 .50

Subnet mask 255.255.255.0

Gateway 192.168.6 .254

DNS 192.168.1 .201

Account

User name admin

Password ****

Wireless transceiver

Events log

Sync Network Details

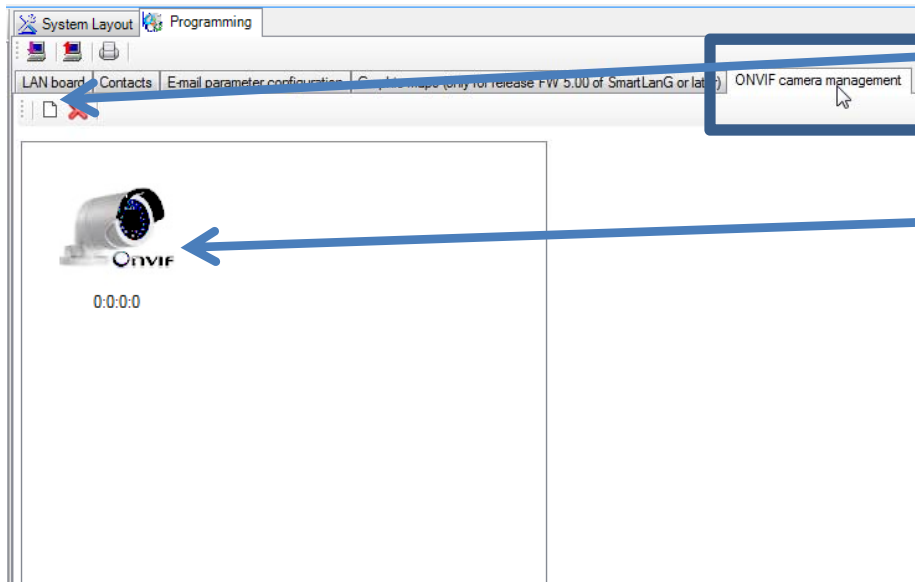
- Open your SmartLeague Solution
- Select **SmartLAN Settings**
- **Upload** SmartLan Settings from panel to load current LAN details into project



Configure SmartLiving Camera Details







Configure Camera Details

- Select **Camera Management** tab
- **Add** a new IP camera
- Select the camera to configure





Configure SmartLiving Camera Details





Camera Description	<input type="text" value="Test Camera"/>
IP address	<input type="text" value="192.168.6.10"/> <input type="checkbox"/> https
Port	<input type="text" value="80"/>
User name	<input type="text" value="admin"/>
Password	<input type="text" value="1111"/>
Media profile	<input type="text" value="mainStream (h264-1920x1080)"/>  
Pan-Tilt-Zoom	<input type="checkbox"/>  
Presets for the selected profile	<input type="text"/> 
Snapshot uri	<input type="text"/> 
Stream uri	<input type="text"/>
Sample rate (sec.)	<input type="text" value="1"/>
Pre event frames	<input type="text" value="1"/>
Post event frames	<input type="text" value="1"/>

Configure Camera Details

- Enter **Description** for camera
- Enter **IP Address** & web **Port** of camera (default port = 80)
- Enter Login details for camera
User = admin
Pass = 1111



Configure SmartLiving Camera Details

Camera		
Description	Test Camera	
IP address	192.168.6.10	https <input type="checkbox"/>
Port	80	
User name	admin	
Password	1111	
Media profile	mainStream (h264-1920x1080)	 +
	Pan-Tilt-Zoom	<input type="checkbox"/>
Presets for the selected profile		 +
Snapshot uri		
Stream uri		
Sample rate (sec.)	1	
Pre event frames	1	
Post event frames	1	
		

Configure Camera Details

- Press to retrieve media profile information from the camera.






This will retrieve the available image streams from the camera if supported.

If nothing is retrieved:

- Check IP/Port of camera
- Check Login details
- Confirm access via web browser
- Camera may not be supported



Configure SmartLiving Camera Details

Camera		
Description	Test Camera	
IP address	192.168.6.10	https <input type="checkbox"/>
Port	80	
User name	admin	
Password	1111	
Media profile	mainStream (h264-1920x1080)	 
	Pan-Tilt-Zoom	<input type="checkbox"/>
Presets for the selected profile		 
Snapshot uri	http://192.168.6.10/onvif-http/snapshot 	
Stream uri	rtsp://192.168.6.10:554/Streaming/Channels/1?transportmode=unicast&profile=Profile_	
Sample rate (sec.)	1	
Pre event frames	1	
Post event frames	1	

Configure Camera Details







- Press to retrieve Snapshot URL information from the camera.

This information is used to retrieve images from the camera

The **Snapshot** and **Stream** fields should populate with the required information



Configure SmartLiving Camera Details

Camera		
Description	Test Camera	
IP address	192.168.6.10	https <input type="checkbox"/>
Port	80	
User name	admin	
Password	1111	
Media profile	mainStream (h264-1920x1080)	 
	Pan-Tilt-Zoom	<input type="checkbox"/>
Presets for the selected profile		 
Snapshot uri	http://192.168.6.10/onvif-http/snapshot 	
Stream uri	rtsp://192.168.6.10:554/Streaming/Channels/1?transportmode=unicast&profile=Profile_ 	
Sample rate (sec.)	1	
Pre event frames	1	
Post event frames	1	

Configure Camera Details





- Ensure **Sample Rate, Pre/Post Frames** are all set to 1

Setting these to 0 will cause the email event not to sent.

Values above 0 have no affect.



Configure SmartLiving Camera Details

profile	<input type="text"/>	
Snapshot uri	<input type="text" value="http://192.168.6.10/onvif-http/snapshot"/>	
Stream uri	<input type="text" value="rtsp://192.168.6.10:554/Streaming/Channels/1?transportmode=unicast&profile=Profile_"/>	
Sample rate (sec.)	<input type="text" value="1"/>	
Pre event frames	<input type="text" value="1"/>	
Post event frames	<input type="text" value="1"/>	
		

Configure Camera Details

- Click the **Test** button to test the camera. An image should be displayed from the camera if everything is working.

Additional cameras can be added following the same process.



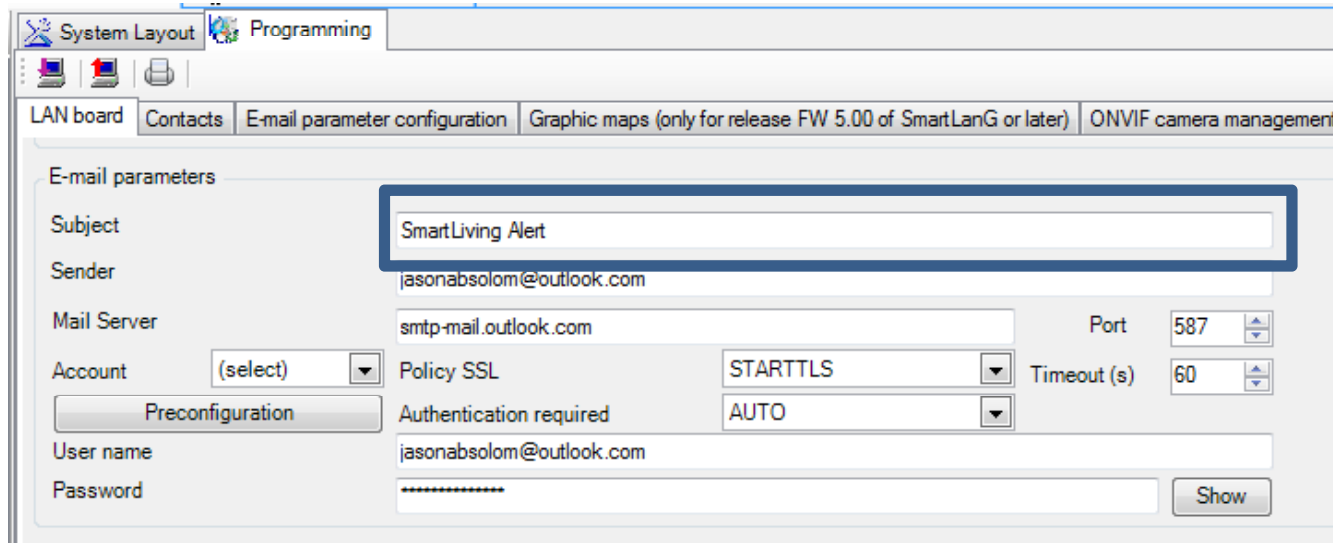
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Configure Email Server Details



Configure Email Server Details



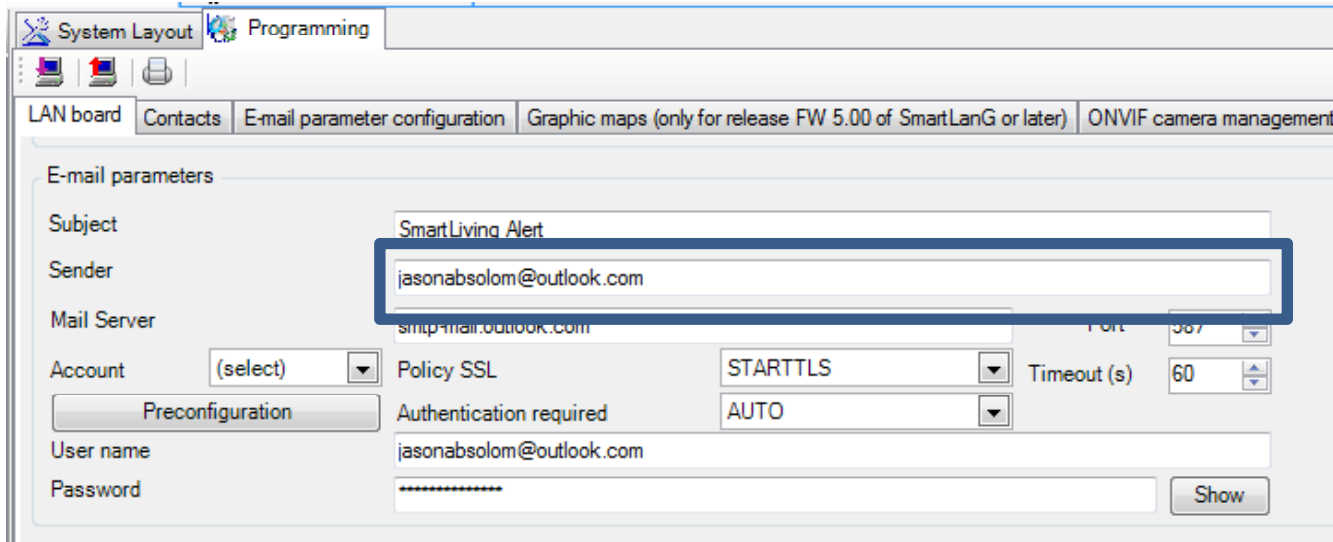
The screenshot shows the 'E-mail parameter configuration' tab in the SmartLiving web interface. The 'Subject' field is highlighted with a blue box and contains the text 'SmartLiving Alert'. Other fields include 'Sender' (jasonabsolom@outlook.com), 'Mail Server' (smtp-mail.outlook.com), 'Port' (587), 'Account' (select), 'Policy SSL' (STARTTLS), 'Timeout (s)' (60), 'Authentication required' (AUTO), 'User name' (jasonabsolom@outlook.com), and 'Password' (masked with asterisks). A 'Show' button is next to the password field.

Select the **LAN Board** tab under **SmartLAN Settings** to fill in the email server details used to send the alerts

Subject will identify the email is from the SmartLiving panel. Fill in something that will easily identify this panel.



Configure Email Server Details



The screenshot shows the 'E-mail parameter configuration' tab in the SmartLiving web interface. The 'Sender' field is highlighted with a blue box and contains the email address 'jasonabsolom@outlook.com'. Other fields include 'Subject' (SmartLiving Alert), 'Mail Server' (smtp-mail.outlook.com), 'Account' (select), 'Policy SSL' (STARTTLS), 'Authentication required' (AUTO), 'User name' (jasonabsolom@outlook.com), and 'Password' (masked with asterisks). A 'Show' button is visible next to the password field.

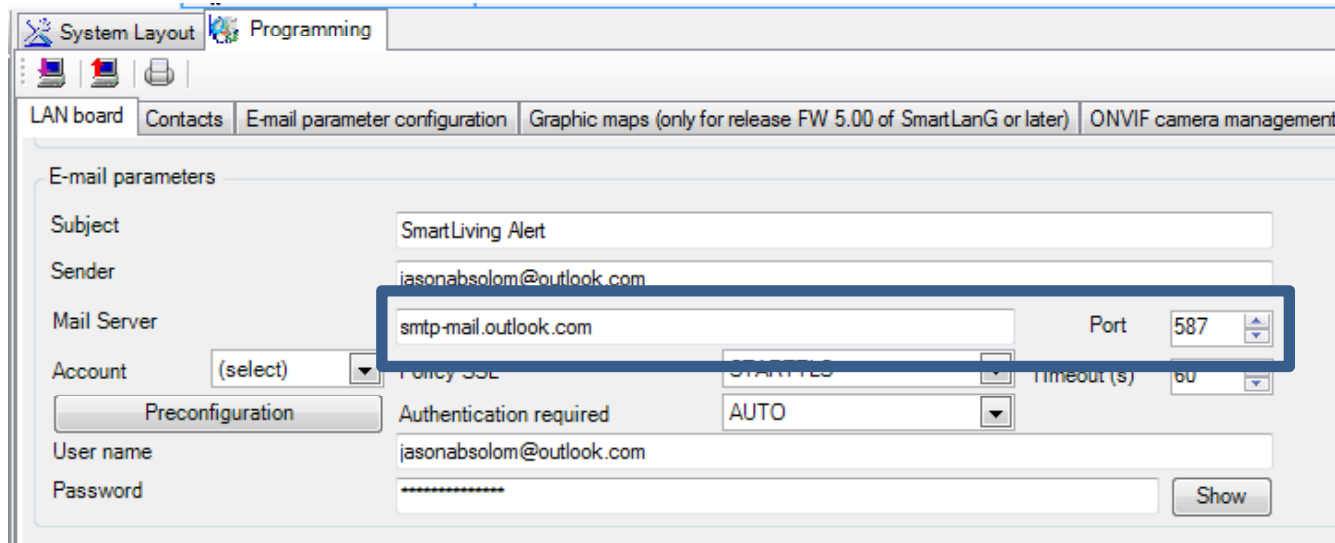
Select the **LAN Board** tab under **SmartLAN Settings** to fill in the email server details used to send the alerts

Sender is the email address the email will appear to be coming from.

It is recommended to set the Sender to the same address as the mail server user email address



Configure Email Server Details



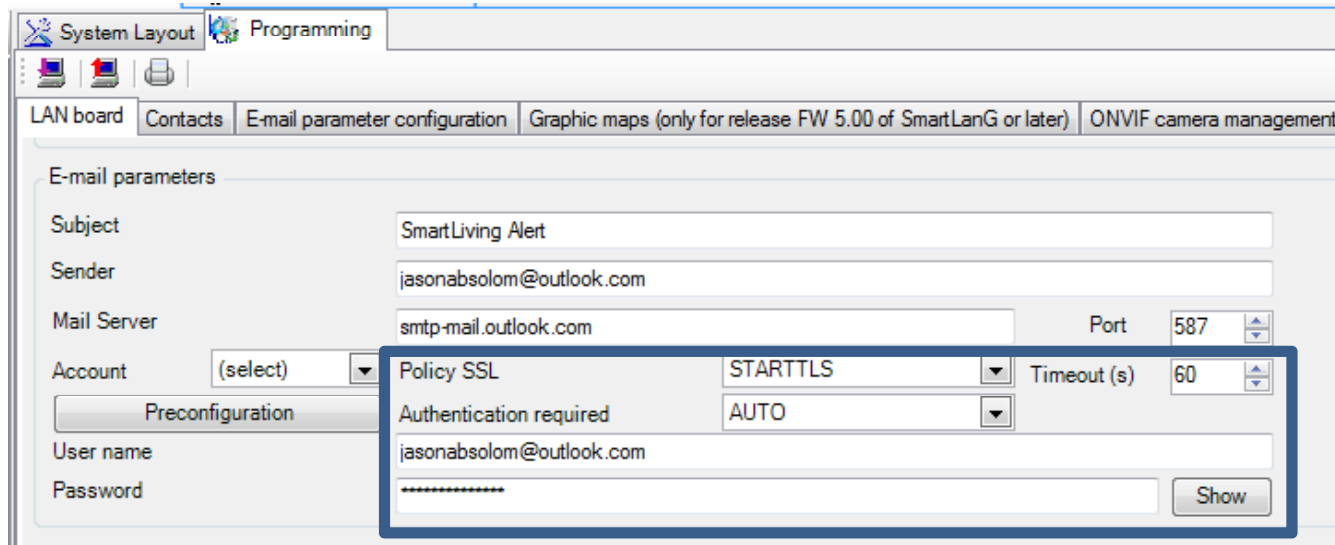
The screenshot shows the 'E-mail parameter configuration' tab in the SmartLiving interface. The 'Mail Server' field is highlighted with a blue box and contains the text 'smtp-mail.outlook.com'. The 'Port' field is set to '587'. Other fields include Subject (SmartLiving Alert), Sender (jasonabsolom@outlook.com), Account (select), Policy SSL (STARTTLS), Authentication required (AUTO), User name (jasonabsolom@outlook.com), and Password (masked with asterisks). A 'Show' button is visible next to the password field.

Select the **LAN Board** tab under **SmartLAN Settings** to fill in the email server details used to send the alerts

Mail Server and **Port** are the email providers mail server address and communication port details. This is obtained from your email server provider.



Configure Email Server Details



The screenshot shows the 'E-mail parameter configuration' tab in the SmartLiving web interface. The 'E-mail parameters' section includes the following fields:

- Subject: SmartLiving Alert
- Sender: jasonabsolom@outlook.com
- Mail Server: smtp-mail.outlook.com
- Port: 587
- Account: (select) [dropdown]
- Preconfiguration: [button]
- User name: jasonabsolom@outlook.com
- Password: [masked with asterisks]
- Policy SSL: STARTTLS [dropdown]
- Authentication required: AUTO [dropdown]
- Timeout (s): 60 [spinners]
- Show: [button]

The 'Policy SSL' and 'Authentication required' fields are highlighted with a blue box.

Select the **LAN Board** tab under **SmartLAN Settings** to fill in the email server details used to send the alerts

Policy SSL and **Authentication** are the email address/password that you use to access your mail on the server. If the email provider requires authentication to send mail through their server (which most do) fill in your account details here.



Configure Email Server Details

E-mail parameters

Subject	SmartLiving Alert		
Sender	user@hotmail.com		
Mail Server	smtp-mail.outlook.com	Port	587
Account	(select) ▼	Policy SSL	STARTTLS ▼
<input type="button" value="Preconfiguration"/>		Authentication required	AUTO ▼
Timeout (s)	60		
User name	user@hotmail.com		
Password	*****		<input type="button" value="Show"/>

Hotmail Account Example

Set Mail Server, Policy SSL and Port to the shown details

The User Name field is your Hotmail/Outlook email address

The Password is your accounts password



Configure Email Server Details

E-mail parameters

Subject	SmartLiving Alert		
Sender	user@gmail.com		
Mail Server	smtp.gmail.com	Port	587
Account	(select) ▼	Policy SSL	STARTTLS ▼
<input type="button" value="Preconfiguration"/>		Authentication required	AUTO ▼
Timeout (s)	60		
User name	user@gaill.com		
Password	*****		<input type="button" value="Show"/>

Gmail Account Example

Set Mail Server, Policy SSL and Port to the shown details

The User Name field is your Gmail email address

The Password is your accounts password



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Configure Email Server Details

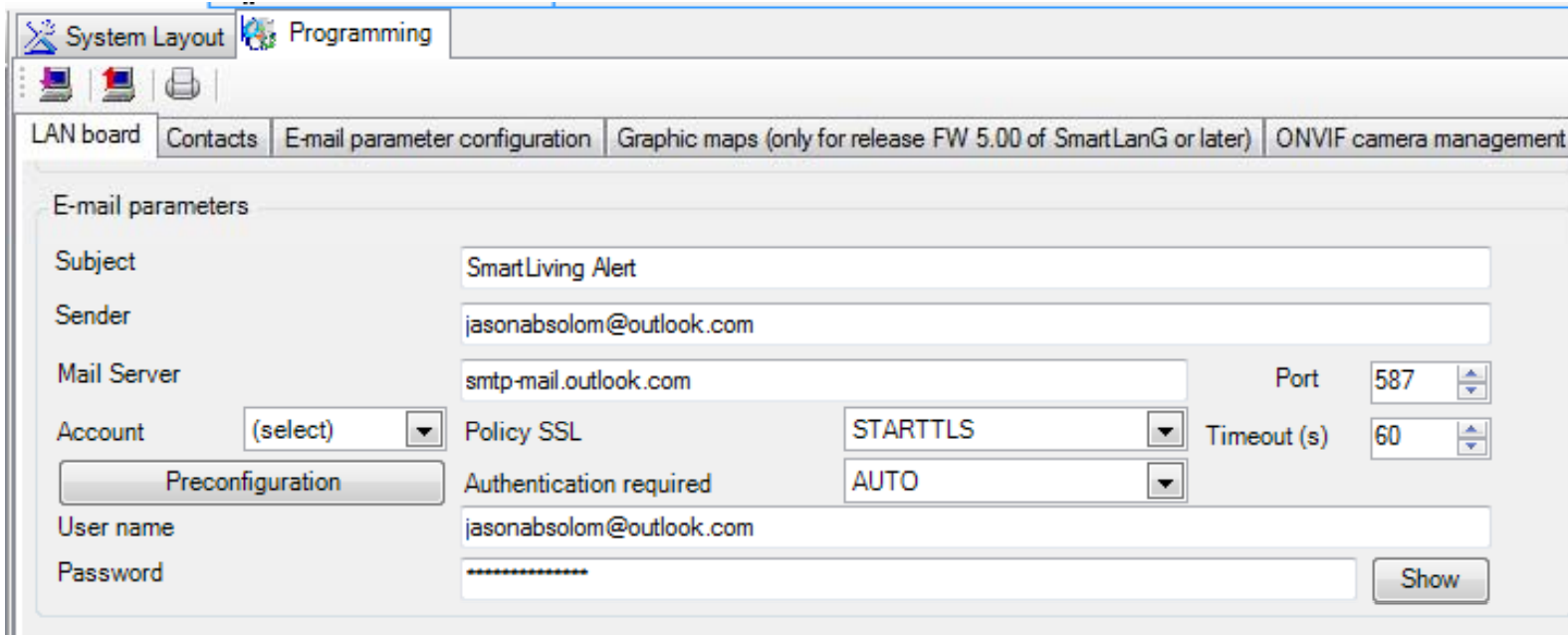
Other Email Accounts?

It should be possible to use any mail service. You simply need to find out the servers details that allow you to send mail.

Additionally, if you are unable to get the examples to work, check the Port/Mail server for your account as they may differ.



Configure Email Server Details



System Layout Programming

LAN board Contacts E-mail parameter configuration Graphic maps (only for release FW 5.00 of SmartLanG or later) ONVIF camera management

E-mail parameters

Subject SmartLiving Alert

Sender jasonabsolom@outlook.com

Mail Server smtp-mail.outlook.com Port 587

Account (select) Policy SSL STARTTLS Timeout (s) 60

Preconfiguration Authentication required AUTO

User name jasonabsolom@outlook.com

Password ***** Show

Once all the email details are configured, click **Send to Control** to upload details to the panel for testing



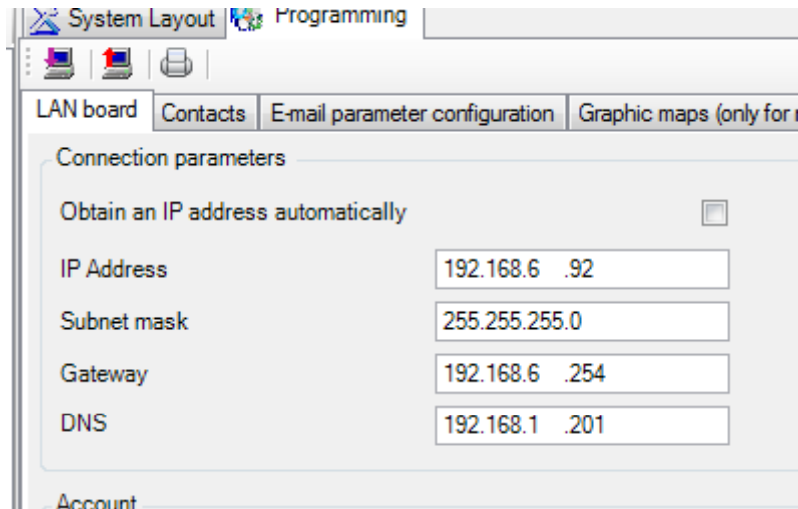
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Testing Email Settings



Testing Email Settings

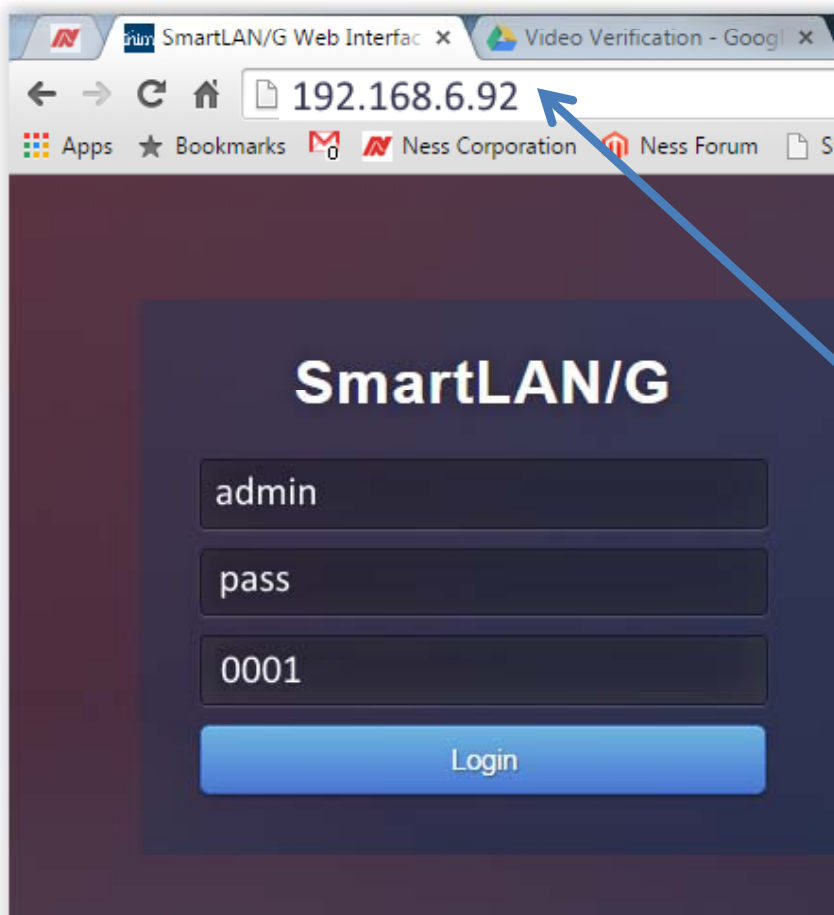


Before continuing it is best to test your mail server settings are working.

First, ensure the Gateway and DNS details are filled in for the network the SmartLan is connected to.



Testing Email Settings

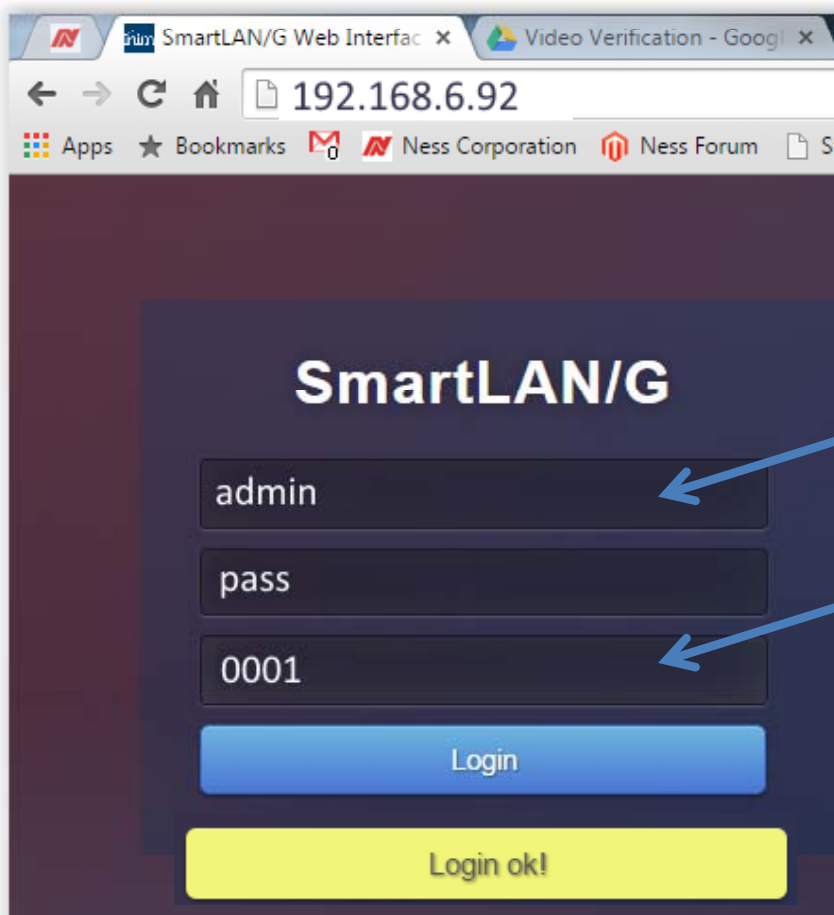


Before continuing it is best to test your mail server settings are working.

Open a Web Browser and enter the IP address of the panel in the address bar to open the Web Control GUI for the system



Testing Email Settings



SmartLAN/G Web Interface screenshot showing a login form with the following fields and buttons:

- Username field: admin
- Password field: pass
- User Code field: 0001
- Login button
- Login ok! button

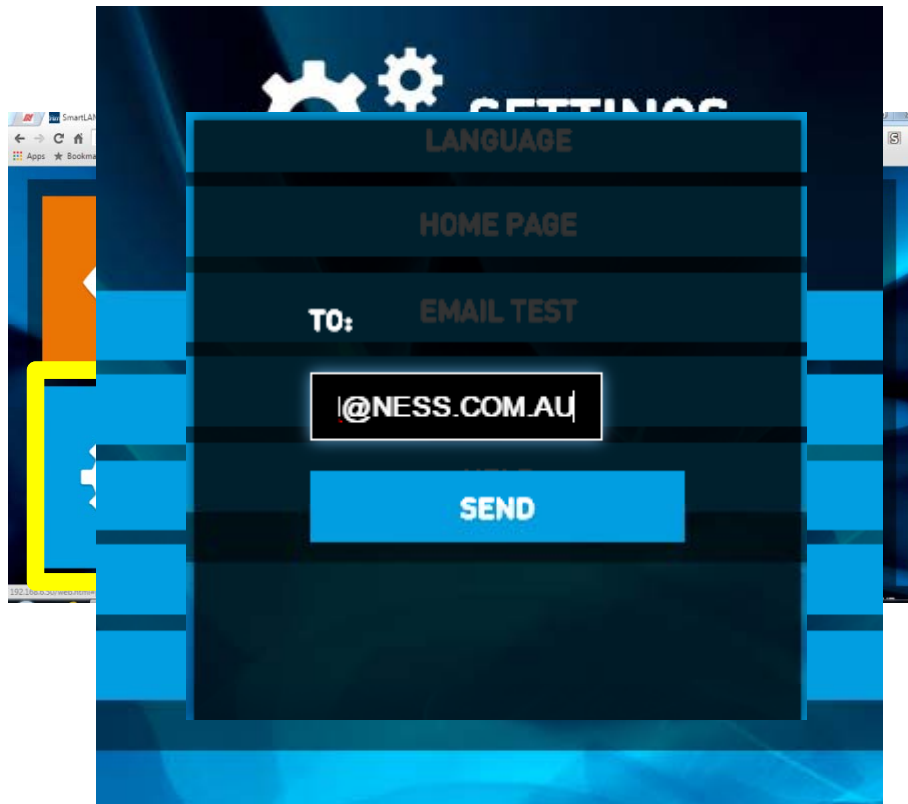
Before continuing it is best to test your mail server settings are working.

Enter the SmartLan **User/Pass**

Enter a valid **User Code**



Testing Email Settings



Before continuing it is best to test your mail server settings are working.

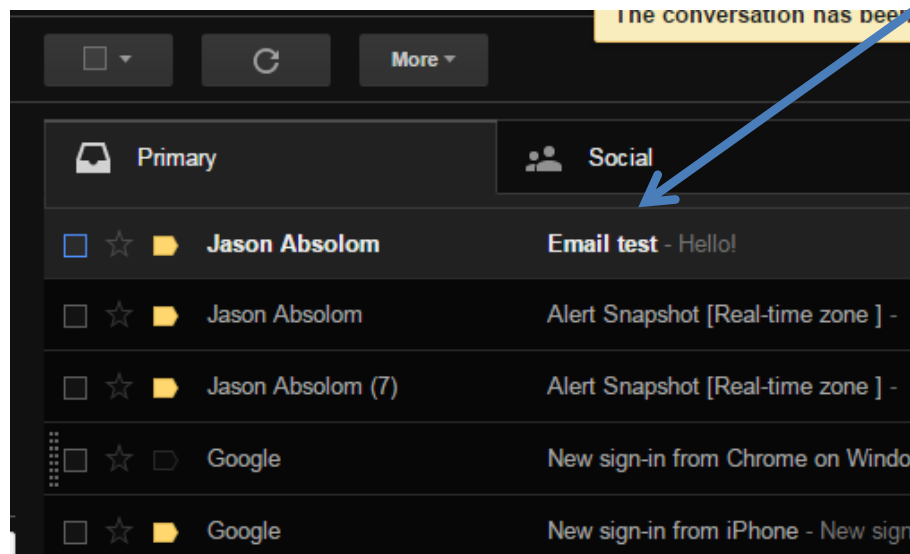
Select the **Settings** button

Select **Email Test**

Enter an **Email Address** to send a test message to and click **Send**



Testing Email Settings



You should receive a test email from the system within 1 minute

If a test is not received within 2 minutes check your mail settings

Also ensure all SmartLAN details have been Sent to the system



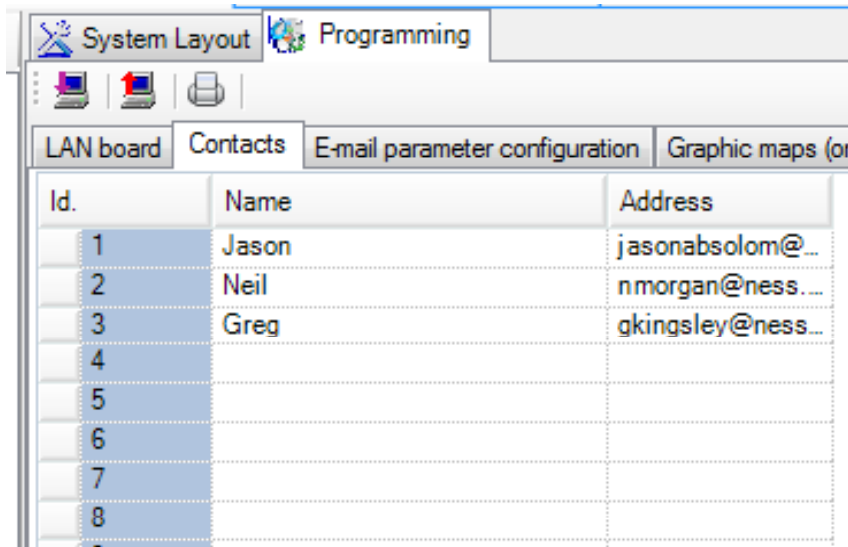
SMARTLIVING



Setup Email Contacts



Setup Email Contacts



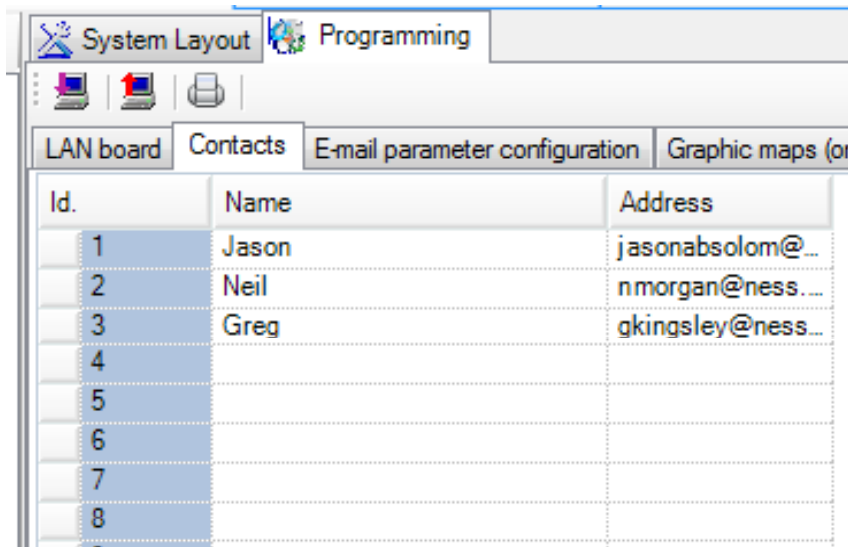
Id.	Name	Address
1	Jason	jasonabsolom@...
2	Neil	nmorgan@ness...
3	Greg	gkingsley@ness...
4		
5		
6		
7		
8		

To send Email alerts you need to setup the **Contacts** the system will use to send alerts.

This allows different events to send alerts to different or multiple people.



Setup Email Contacts



Id.	Name	Address
1	Jason	jasonabsolom@...
2	Neil	nmorgan@ness...
3	Greg	gkingsley@ness...
4		
5		
6		
7		
8		

Select the **Contacts** tab

Enter a **Name** for the contact

Enter the contacts **Email Address**

There are 20 contacts available. Be sure to **Send** to the panel



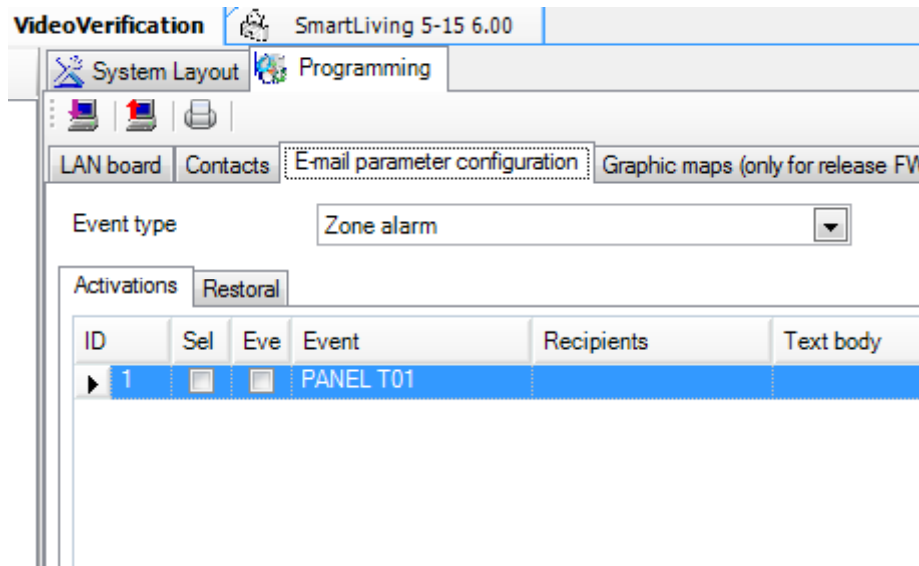
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Setup Email Alert Events



Setup Email Alert Events

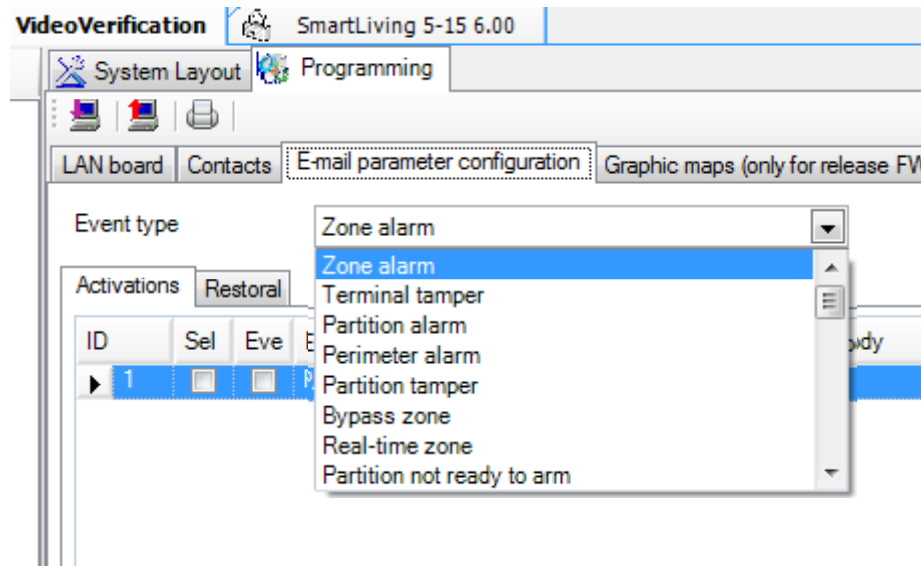


Every event in the system can be set to send an alert email AND video images on both Activation / Restore of the event

Email events are configured under the **Email Parameter Configuration** tab



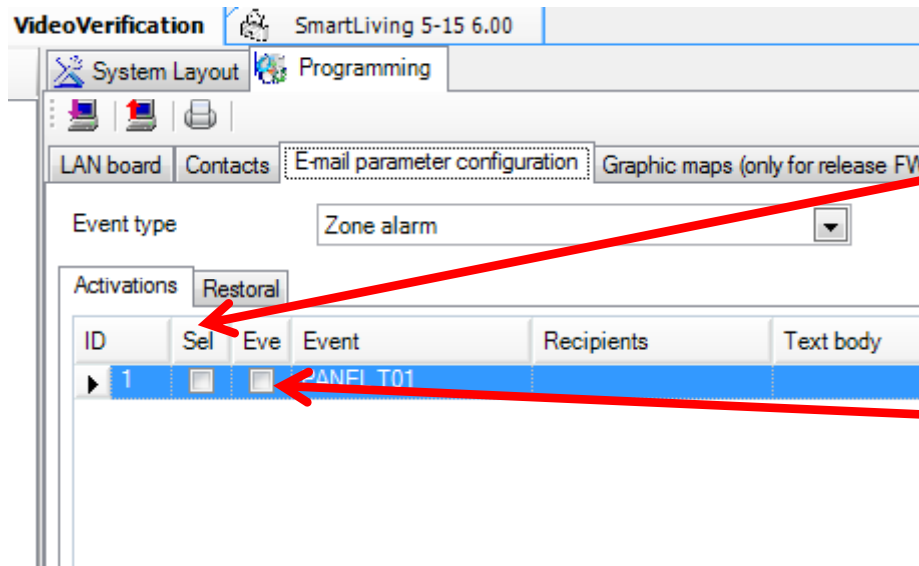
Setup Email Alert Events



Select an **Event Type** that will trigger an alert



Setup Email Alert Events



Select an **Event Type** that will trigger an alert

Select the **SEL** option to select this event as active

Select the **Event Log** option to include the event information:

03/01/2000 16:31:27

Zone alarm

PANEL T01

[PARTITION 001]



Setup Email Alert Events

figuration Graphic maps (only for release FW 5.00 of SmartLanG or later) ONVIF camera management

Recipients
 Text body
 Attachment
 Camera
 Write on SD

Test Camera

Sel	Id	Name	Address
<input type="checkbox"/>	1	Jason	jasonabsolom@gmail.com
<input type="checkbox"/>	2	Neil	nmorgan@ness.com.au
<input type="checkbox"/>	3	Greg	gkingsley@ness.com.au
<input type="checkbox"/>	4		
<input type="checkbox"/>	5		
<input type="checkbox"/>	6		
<input type="checkbox"/>	7		
<input type="checkbox"/>	8		
<input type="checkbox"/>	9		
<input type="checkbox"/>	10		
<input type="checkbox"/>	11		
<input type="checkbox"/>	12		
<input type="checkbox"/>	13		
<input type="checkbox"/>	14		
<input type="checkbox"/>	15		
<input type="checkbox"/>	16		
<input type="checkbox"/>	17		
<input type="checkbox"/>	18		
<input type="checkbox"/>	19		
<input type="checkbox"/>	20		

Apply

Apply to events of the selected group

Apply to selected control panel events

Hover mouse over **Recipients** field to show the selection box. Click to open **Contacts**

Select contacts to send this alert to and **Apply**



Setup Email Alert Events

Configuration | Graphic maps (only for release FW 5.00 of SmartLanG or later) | ONVIF camera management

Recipients	Text body	Attachment	Camera	Write on SD
	Test	<input type="checkbox"/>	Test Camera	<input checked="" type="checkbox"/>

Message text body

This is a test message|

Apply

Apply to events of the selected group

Apply to selected control panel events

To add custom Text message to alert hover mouse over **Text Body** field and select the options box

Enter a message that will be included with the emailed event and click Apply

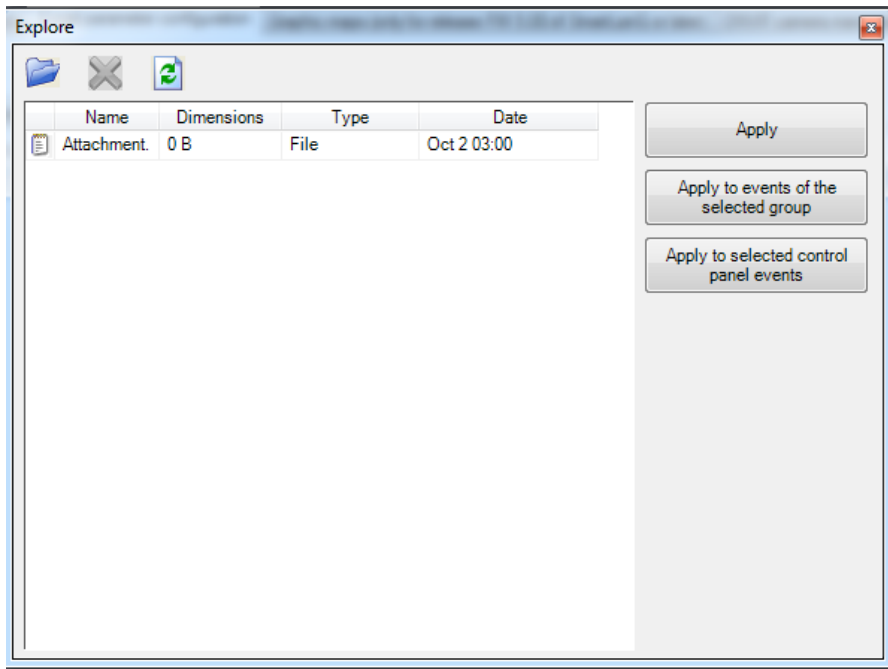


Setup Email Alert Events

Configuration | Graphic maps (only for release FW 5.00 of SmartLanG or later) | ONVIF camera management

▼

Recipients	Text body	Attachment	Camera	Write on SD
Test		<input type="checkbox"/>	Test Camera	<input checked="" type="checkbox"/>



To add an **Attachment** to the email alert hover mouse over **Attachment** field and select the options box

Select the **Open** button to locate a file on your computer to add as an attachment then click Apply.

The file will be stored on the SD card and attached with an email.



Setup Email Alert Events

Configuration | Graphic maps (only for release FW 5.00 of SmartLanG or later) | ONVIF camera management

Recipients	Text body	Attachment	Camera	Write on SD
	Test		Test Camera <input type="checkbox"/>	<input checked="" type="checkbox"/>

Select Onvif camera

Camera	<input type="text" value="Test Camera"/>	<input type="button" value="Apply"/>
(select)		
<input type="text" value="Test Camera"/>	<input type="button" value="Apply to events of the selected group"/>	
(select)		
Preset 2	<input type="text" value="(select)"/>	<input type="button" value="Apply to selected control panel events"/>

To add **Camera Snapshots** hover mouse over **Camera** field and select the options box

Select the configured camera to grab the snapshots from and click **Apply**



Setup Email Alert Events

Configuration | Graphic maps (only for release FW 5.00 of SmartLanG or later) | ONVIF camera management

Recipients	Text body	Attachment	Camera	Write on SD
	Test		Test Camera	<input checked="" type="checkbox"/>

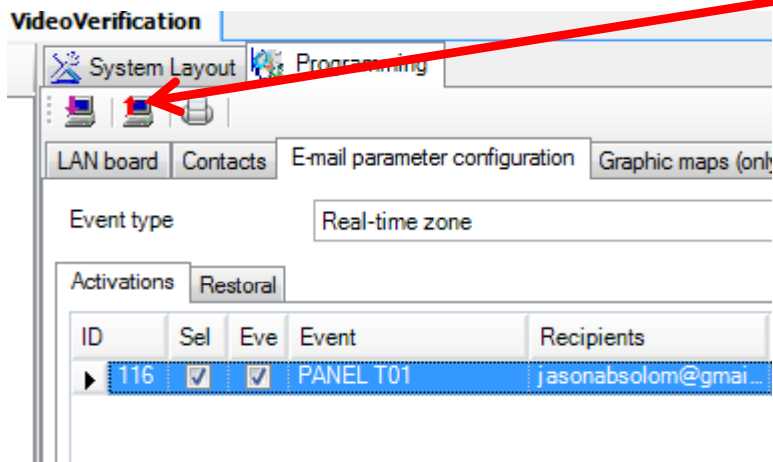
Select the **Write on SD** option to record the event and images to the SD card.



Stored images and events can be reviewed with the web GUI and Smartphone App.



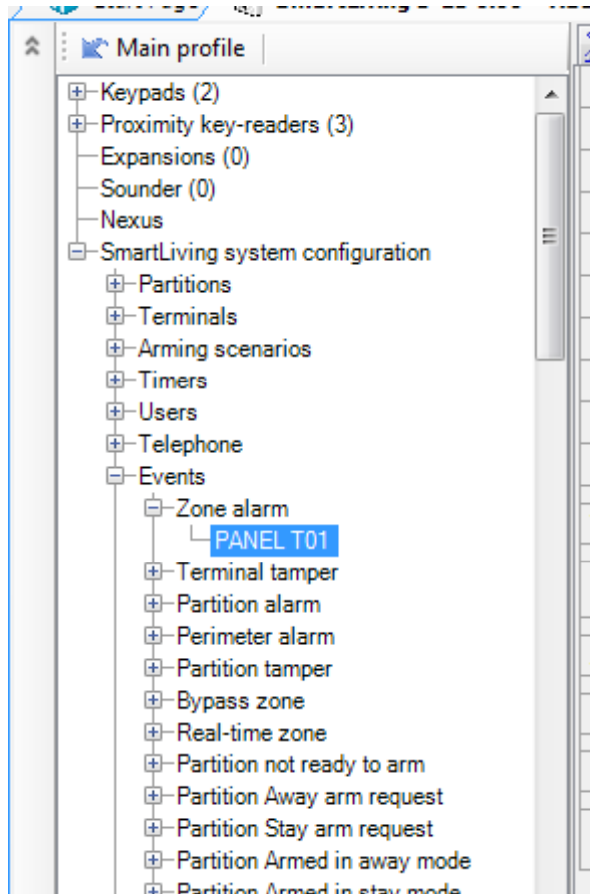
Setup Email Alert Events



Once completed click **Send to Control** to load new SmartLan changes into the system.



Setup Email Alert Events



Lastly, select the **Events** tree and locate each event configured for email alerts



Setup Email Alert Events

NUMBER 006	<input checked="" type="checkbox"/>
NUMBER 007	<input checked="" type="checkbox"/>
NUMBER 008	<input checked="" type="checkbox"/>
NUMBER 009	<input checked="" type="checkbox"/>
NUMBER 010	<input checked="" type="checkbox"/>
NUMBER 011	<input type="checkbox"/>
NUMBER 012	<input checked="" type="checkbox"/>
NUMBER 013	<input type="checkbox"/>
NUMBER 014	<input type="checkbox"/>
NUMBER 015	<input type="checkbox"/>
Vocal message on KEYPAD 001	<input type="checkbox"/>
Output	RELAY(Ext Siren)
Activate periodic event	<input type="checkbox"/>
Clear call queue	<input type="checkbox"/>
Memory	<input checked="" type="checkbox"/>
Output scenario	(select)

Lastly, select the **Events** tree and locate each event configured for email alerts

Ensure the **Memory** option is set for each event in order to send alerts.

Send any changes to the system



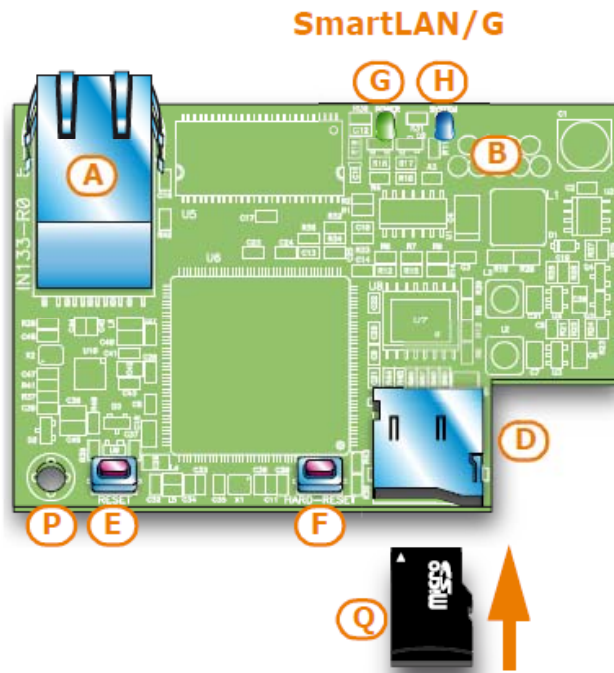
SMARTLIVING



Testing Events



Testing Events



Before testing ensure all details have been sent to the system

Note that when sending details to the SmartLanG module it can take up to 1 minute before it is ready.

Check the **Blue Status LED (H)** is flashing before testing



Testing Events



- Trigger a configured event.

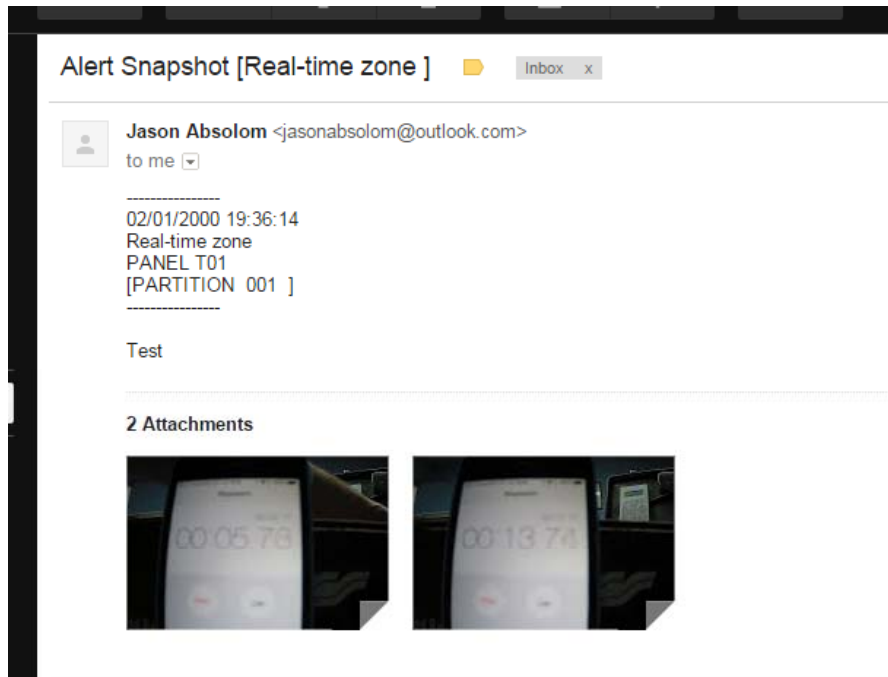
Zone 1 Alarm Example:

- Arm system. Wait for Exit Time.
- Trigger Zone 1
- Wait for system alarm

Check email after 1-2 minutes for event.



Testing Events



The Email alert should contain the information entered for the event and video snapshots of the event if selected.

Image 0 = When event occurred
Image1 = Approx 8 seconds after



Testing Events


Alert Snapshot [Real-time zone] Inbox x

Jason Absolom <jasonabsolom@outlook.com>
to me

02/01/2000 19:36:14
Real-time zone
PANEL T01
[PARTITION 001]

Test

2 Attachments



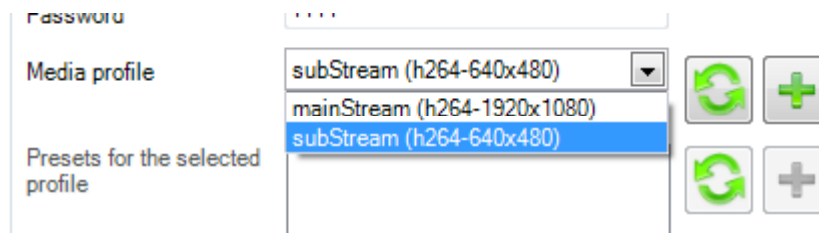
Email alerts will take approx 1 minute to be received.

To improve send time for alerts, choose a lower resolution media profile setting for the camera (if available)

password

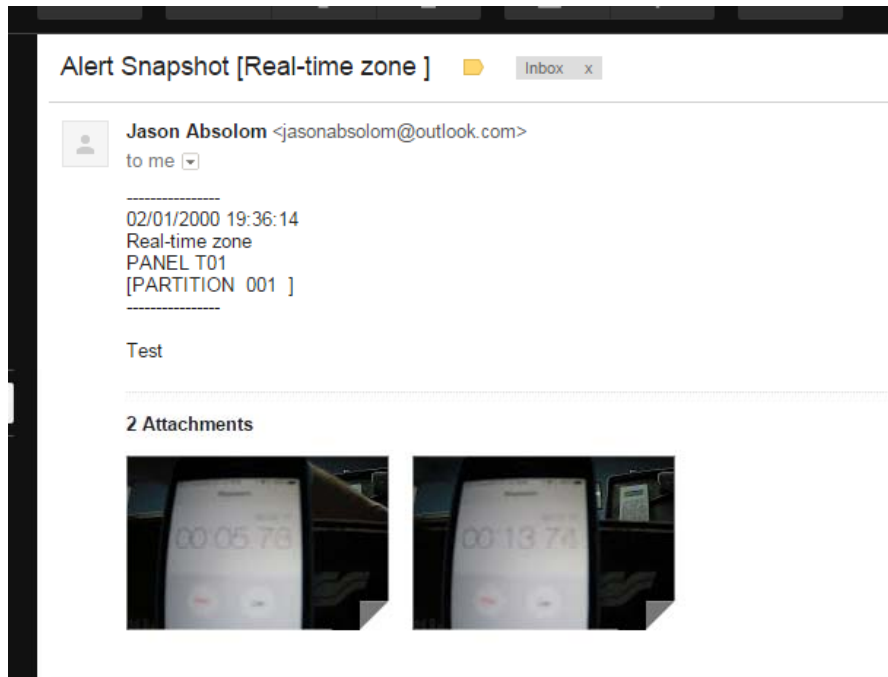
Media profile: subStream (h264-640x480)
mainStream (h264-1920x1080)
subStream (h264-640x480)

Presets for the selected profile





Testing Events



Email alerts will take approx 1 minute to be received.

Also note that adding attachments to alerts will also increase the time to send.



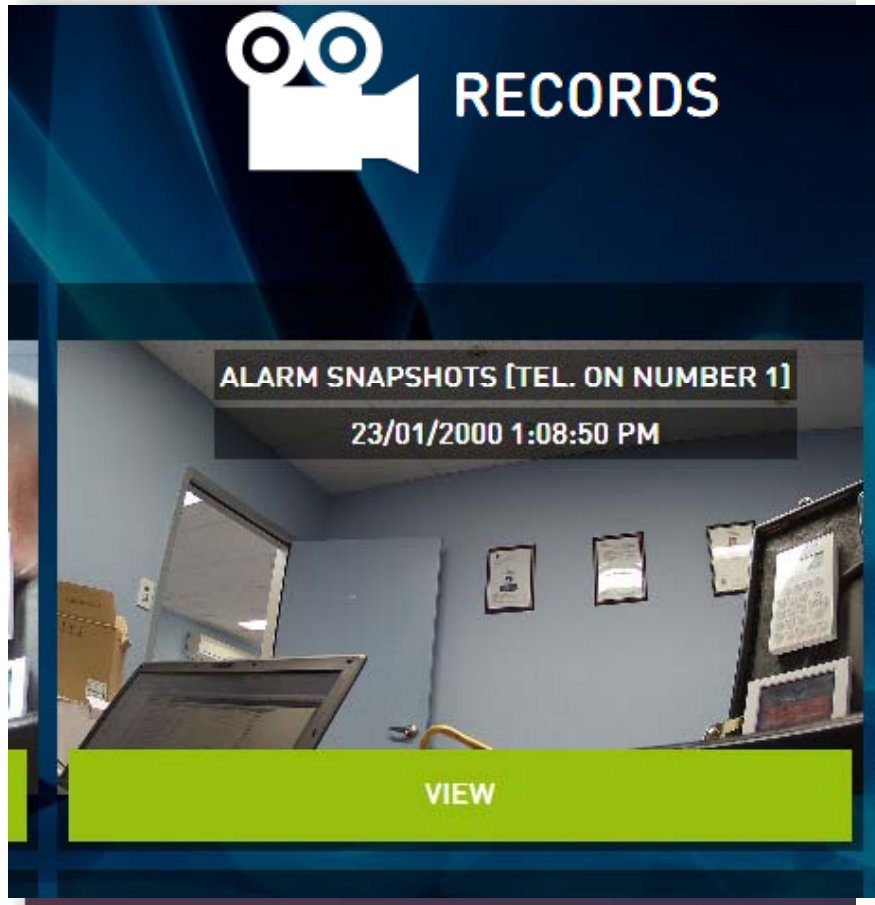
Testing Events



- If the event did not send:
- Can you send manual email?
 - Are all event parameters correct?
 - Is contact email correct?
 - Is the Memory option checked for the event?
 - Has a Global Send been done to send all info to the system?
 - Try power cycling the system



Testing Events



If the option **Write on SD** has been set for video events, check the events are recorded:

- Open the Web GUI page
- Select **Cameras**
- Select **Records**
- Check that event records have been recorded. If no events are recorded check the events and the SD card



Training Module Completed

