

# **User Manual**

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#### 1. What's New?

**FUSION-Eclipse** delivers the complete-package. ONVIF conformant Profile-S, innovative functionality; HD images, PSIM capable; resilient servers with fail-over, hybrid interoperability; a totally open platform and with cost-neutral licensing.

The most complex VMS Meyertech has ever developed (Powerful, Versatile and Innovative) it is still the easiest VMS to use on the market and with the new levels of cost versus performance that FUSION-Eclipse achieves it really is the only VMS you will ever need. It simply evolves with you.

## **Summary of Features**

- Onvif Profile S conformant with future support for Profile Q.
- Discover, add and integrate all of your Onvif devices with a click of the mouse.
- 3D mapping support.
- Meyertech H.264 Decoder support No SDK's required.
- New Scalable Licensing Model providing a cost effective, scalable Video Management System.
- Resilient Server fail over support
- Powerful GUI
- User friendly
- Enhanced Alarm handling features
- Monitor Copy and Track
- Enhanced Fusion Patrol Editor
- Enhanced Zonal switch functionality
- Android IOS support
- Fusion Capture support
- Meyertech NVS Compatible A powerful new ONVIF recording solution coming soon.
- Enhanced administrator debugging tools
- Auto Log Off features
- Fusion Security Server support Prevent Users logging on to multiple workstations.
- String Tags If bandwidth is limited Fusion Eclipse allows you to choose between encoder source and or NVR for your live video feeds.
- Improved Video monitoring Generate alarms automatically when bandwidth deteriorates. "No more frozen images on video walls".

#### 2. System Overview

#### **Next Generation Technology**

The Meyertech® brand has always been recognised for its quality and technologically advanced CCTV products. Now with the launch of Fusion Eclipse, it's all new ONVIF conformant Security Management Software, Meyertech has produced a scalable, coherent product to manage CCTV based security systems in the 21st Century, setting new benchmarks for integration.

#### Intelligent Mapping

Fusion Eclipse allows users to drag the map around the screen for navigation and use the mouse scroll wheel to zoom in and out through the map layers. Any number of map layers can be constructed and map transition zoom levels specified during configuration.

Multiple maps can be easily opened and displayed in Fusion Eclipse using simple drag & drop operations. Maps can also be 'tagged' for quick reference and the Atlas-browser feature gives users the ability to select and navigate maps and hyperlinks directly on a named basis.

A unique feature is map-flow which is activated using CTRL-TAB on the keyboard. With each press of TAB a new map is pushed to the front.

All new 3D maps are supported in Fusion Eclipse as well as retaining the market leading GIS deepzoom and Xaml maps.

#### Intuitive GUI

The flexibility of Fusion Eclipse provides supervisors with powerful features to configure individual users Security Management Console (SMC) and working environment. A users personal SMC is then saved and recalled whenever they log in, enabling multiple users to operate from the same workstation without having to continually reconfigure it.

The GUI is navigated using a standard PC mouse supporting all the normal mouse functions (left & right click, scroll wheel) you would expect in a Windows program, e.g. Drag and Drop camera selection. Fully user definable in every way, Fusion Eclipse is simplicity itself to operate.

#### **Dual-Monitor Operation**

The Fusion Eclipse operating environment provides the user with true dual-monitor operability. Typically, monitor 1 would be dedicated to the maps and monitor 2 used as a local spot monitor.

#### Floating Virtual Monitors (VM)

Virtual Monitors are windows which the user can open to display live 4 video images directly off the network.

These floating video windows can be re-sized and dragged to any part of Fusion Eclipse and can be opened on any or both of the dual-monitors.

#### Virtual Monitor Wall

The Virtual Monitor Wall (VMW) director console provides operators the power to select and modify different layouts for each screen in the Virtual Monitor Wall.

Layouts typically change and are updated during major incidents or crisis when the VMW is used as a shared resource to manage the incident.

Layouts are completely customisable and can also be programmed to change automatically under the control of Fusion Eclipse events e.g. Scheduled events, user logon and alarm events.

#### Instant review facilities

Users can instantly review events and incidents from any camera recorded on the system using Fusion Eclipse technology, which integrates 3rd Party NVR and DVR systems.

If a camera has review capability a Review icon is displayed when the operator moves their mouse over the bottom left corner of a Virtual Monitor.

Selecting the Review icon allows instant review of the camera through controls which appear in the Virtual Monitor.

#### **Revolutionary Virtual-Monitor PTZ**

Fusion Eclipse incorporates revolutionary PTZ control functionality. If a camera has PTZ capability a PTZ icon is displayed when the operator moves their mouse over the bottom left corner of the Virtual Monitor.

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# 3. Getting Started – Basic Operation

## 3.1 Starting Fusion

- 1. Double click the Fusion Eclipse icon on the desktop
- 2. Wait for Logon window

## 3.2 System Model

- 1. The Fusion System Model will load automatically, or can be configured to allow you to select a particular system model.
- 2. New Creates a new System Model
- Open Launches a Windows explorer window and allows you to manually search for a system model.
- Import Allows you to Import a system model from .CSV file. (Importing and exporting Fusion System Models should only be carried out by Engineers).
- Download System Model Allows you to download a particular system model from another machine on the network.
- Select Default This will automatically load the default system model. Please see appendices for for further information.



## 3.3 Logging On



## 3.4 Logging Off

Click the 'Log Off' button.	1.	Log Off

## 3.5 Map Window



Once you have logged on you will be presented with the start-up map for your system.

Depending on how your Fusion Eclipse system is setup you can choose the map required by:

- 1. Selecting from the Atlas list in the Map/Camera Control Window.
- 2. Selecting from any of the map tabs in a Map Window.



Fig 2.5 Start-up map

2.5.1 Atlas	2.5.2 Maps/Cameras Window	2.5.3 Search
Map Window	Map Window	Map Window
Atlas	Map's CamerasImage: CamerasABC123C1 360Vision PTZ CameraC2 Panogenics Static ImageC3 Panogenics - Cam1C4 Panogenics - Cam2C5 Panogenics - Cam3C6 Panogenics - Cam4C10 HIKVISION PTZ CameraC11 VeracityC12 VeracityC13 VeracityC14 VeracityC15 VeracityC16 VeracityC17 VeracityC18 VeracityC18 VeracityC20 AxisC21 AxisC22 AxisC23 AxisC24 AxisC25 AxisC30 Axis Conference PTZ Camera	Search Vigram Vi
Fulwith Gate Fulwith Grove Fulwith Mill Lane Fulwith Road Gables Court Gale Gate Cale Cate A Map's Cameras Se	Maps/Cameras - only	Search – Search for cameras
	contains list of cameras from the currently selected map.	and areas of interest. Search results will show from all maps configured in the system.

Navigation to other maps can be achieved by:

- 1. Selecting from the Atlas list.
- 2. Selecting from any of the map tabs in a Map Window.
- 3. Select a Hyperlink from the map. These will be highlighted in the map graphics and when the mouse is over one the pointer changes to a finger.
- 4. Zoom into a known area or building and Fusion Eclipse will automatically switch to a map of that area or building
- 5. Zoom out of a known area or building and Fusion Eclipse will automatically switch to the map "above".

## 3.6 Selecting a Camera

The user will have a "current" monitor, that is the currently selected monitor and it will be shown highlighted in green.	VRIB Without Meetor
Select a camera icon from the map and the current monitor will show that camera	
Select a camera icon from a map and drag it onto one of your spot monitors or one of the monitors in the video wall to make the camera switch to that monitor.	
Qwerty Keyboard – Using the PC keyboard allows you to switch cameras and monitors by using a combination of mouse clicking and entering the numerical values. E.g. M1 followed by the 'Enter' key selects Monitor 1 as your current monitor. You can then type 'C123' to select camera no 123 to Monitor 1. You can also use the + and – keys to skip through the cameras in the list for that particular map.	+ - C1 M1

## 3.7 Camera Icons

Static Camera Icon - Normal	-
Static Camera Icon - Current	
PTZ Camera Icon - Normal	-
PTZ Camera Icon - Current	-
PTZ Camera Icon - Controlled	-
PTZ Dome Camera Icon - Normal	0
PTZ Dome Camera Icon - Current	4
PTZ Dome Camera Icon – Controlled	÷
Note: All types of static camera are represented by same type of icon.	

## 3.8 Controlling a PTZ Camera

If your workstation includes a CCTV keyboard that is integrated with Fusion Eclipse, you can use this with its control joystick and buttons (often referred to as using the keyboard in PCI mode). Fusion Eclipse provides advanced software controls for operators who don't have a keyboard or who wish to use the PC.	
When the operator selects a camera that has controllable functions, Fusion will display a PTZ icon on the monitor.	
When the operator clicks on this icon the auxiliary control buttons will appear for the camera. These buttons can then be used as required.	Wash Wiper Lamp Aux1 Aux2 Aux3
If the operator then clicks the middle mouse wheel button, the camera Pan & Tilt can then be controlled using the mouse position relative to the centre of the monitor.	
To switch off the Pan & Tilt control, simply click the middle mouse wheel button again.	Cick to enter PTZ mode or use middle moune button

#### 3.9 Fusion Control Window

Video		Presets	Aux.
Camera:	1	Preset:	Lamp on Wash
Site:	1	Patrol:	Wipe on
Monitor:	101	Patrol Status: 🔘	Aux. 1 on Aux. 2
Sequence:	(	Start Patrol	Apply to all cameras
Manual			
🗌 Iris			
🔳 Focus			

#### With No Camera Selected

By entering the camera number manually and a monitor, then hitting 'Enter' the operator can mimic the controls normally available on a matrix controlling keyboard. This example will switch camera 1 (site 1) to monitor 101.

#### With A Camera Selected

When selecting this window with a camera selected, the user is provided with additional selections for:

- 1. Presets
- 2. Patrols
- 3. Lamps, Auxiliary functions
- 4. Iris and Focus

#### 3.10 Fusion Patrols

The patrols can be triggered the same way as normal patrols. A patrol can be selected by typing in its number in the *'patrol'* text box and hitting return just like a standard patrol. Alternatively, patrols can be toggled on or off using the Start / Stop button situated underneath should you prefer to use the mouse. Selecting patrol '0' will stop the camera from patrolling.

A status light will change colour to indicate the patrol state of the currently selected camera. **Orange** indicates the status is not currently known. **Green** indicates the camera is currently patrolling. **Red** indicates the camera is not patrolling.

Controls			8
Video		Presets	Status
Camera:	1	Preset:	Indicator
Site:	0	Patrol: 1	Start / Stop
Monitor:	1	Patrol Status: 💕	button
Sequence:		Stop Patrol	
Aux.		Manual	
Lamp on	Wash	🛄 Iris	
Wipe on		Focus	
Aux. 1 or	Aux. 2		
Aux. 3 or	۱ <u> </u>		
Apply to	all cameras		

Figure 1 - Control window with patrol interface

In addition to these new items in the control window, there is a small addition to the camera icons on the map. When a camera is currently patrolling a small cog will appear in the lower right of the icon.



## 3.11 Fusion Alarm Window

When an alarm(s) is raised this is highlighted next to the Scale slider.	Alarm Status : 6 Active Alarms Scale
Dependant on how Fusion Eclipse is setup to display alarms they may be shown in a floating or docked window or in a tab.	Alarms Postponed ( 0 ) Accepted ( 0 ) Reported ( 6 ) Parked ( 0 ) No Comms C4 Site : Local
<ul> <li>Here, the alarms are shown in a floating window in one of 5 tabs:</li> <li>1. Reported: new alarms</li> <li>2. Accepted:</li> <li>3. Parked:</li> <li>4. Postponed:</li> </ul>	■ No Comms C3 Site : Local ■ Tamper C3 Site : Local No Video C3 Site : Local Ø Dial-in alarm D4 A255 Site : Local ■ Tamper C23 Site : Local
<ol> <li>Custom:</li> <li>If there are multiple Fusion workstations they will all show the same synchronised alarm status.</li> </ol>	Date : 3/13/2009 10:45:07 AM Description : No Comms Status : Reported Priority : 1
Accept an alarm.	
Park an alarm. The alarm will remain in the parked tab until moved.	<b>a</b>
Postpone an alarm. The alarm will automatically be raised again.	
Cancel/clear an alarm.	8

## 3.12 Fusion Alarm Icons



## 3.13 Zonal Switches

<b>Choose a Zonal Switch</b> The Zonal switch window is displayed with a list of the available Zonal switches. Select the required one and click 'OK'. This will then switch any number of predetermined cameras to any monitor or monitor wall server.	
Recent Zonal Switches	Clicking this menu item will show a list of the most recent Zonal switches used, which provides a fast way to repeat a Zonal switch.
Step back Zonal Switch	Clicking this menu item will revert the group of monitors, last set by a Zonal switch, to their previous displays. This can be useful following an alarm, where the operator wishes to see the displays, that have been changed due to the alarm, as they were pre-alarm.

Further to running Zonal switches from the window it is also possible to assign a number of Zonal switches to Zonal switch icons.

This makes it particularly useful if for example you wanted to open a door or turn a light on by clicking a button on the map.

## 3.14 Zonal Switch Icons





Stop

15 🚔

## 3.15 Zonal Switch Sequences

Zonal switch sequences can be particularly useful if you want to sequence between various zonal switches.
E.g. Monitor Wall Layouts and camera to monitor selections.
1. Highlight the pre-configured zonal switch sequence.
2. Set the Dwell Time.
3. Select 'Run'.

#### 3.16 Camera Sequences

Sequences, are ran and controlled from	Camera Sequences
the 'Camera Sequences' window.	New Edit Remove Stop
can contain a list of up to 64 cameras	
with or without pre-sets.	
Examples:	
<ul> <li>Sequence: a selection of cameras with no pre-sets</li> </ul>	
<ul> <li>Patrol: one camera with several pre-set views</li> </ul>	
<ul> <li>Tour : a selection of cameras with several pre-set views</li> </ul>	
To run a 'Camera Sequence' , drag from the available list to a monitor. To stop a 'Camera Sequence' , select it and click the 'Stop' button.	Dwell Time (seconds): 10

Dwell Time (seconds):

## 3.17 Covert Cameras

There are two types of Covert mode: Manual and Automatic.



# 4. Advanced User Operations

## 4.1 Fusion Gadget Window

#### 4.1.1 Overview

The Fusion 'Gadget Window' allows you to select built in features that can be used and saved in to the Fusion Layout. The Gadgets offer added functionality to a range of Fusion Eclipse features.

#### 4.1.2 Accessing the Gadget Window

To access the gadget window from the Fusion menu Select 'Edit' > 'Gadget Window'.



Fig 3.1.2 Edit > Gadget Window

Once selected the 'Gadget Window' will appear on screen.

Available Gadgets	Selected Gadgets	
Alarm Gadget Alarm Sound Gadget Incident Gadget Keystroke Preview Gadget Stop All Patrols Save Clip Gadget Airlock Gadget	Add Remove Up	
Example		Stop All Patrols

Fig 3.1.3

The user can then select which gadgets they want to use in Fusion.

## 4.1.3 Choosing Gadgets

Alarm Gadget – Enabling this	
gadget will add an alarm status icon	Alarm Status:No Active Alarms 🛛 🛱
to the bottom of the Fusion Window.	*******
When an alarm is received it will	
store the alarm and flash red to alert	
the user of a new alarm and number	
of active alarms. This feature works	
alongside the Fusion Alarm Window	
and 'alarm sound' gadget.	
Alarm Sound Gadget – This gadget	No visible gadget on the display bar at the bottom
will enable Fusion to play a particular	of the screen.
sound file when an alarm is received.	
This works in line with the Alarm	
Action plans and can be particularly	
useful in busy control rooms to alert	
operators. See 'Alarm Action Plans'	
section for further information.	
Incident Gadget – This works	Fusion Incident
alongside Fusion Incident	Incident Number
Workstation and is used as an	Start
Incident recording trigger for Fusion.	
It also displays the current/previous	
Incident number.	
Keystroke Preview gadget - This	
allows Fusion to display any	
keyboard commands that allow	
camera switching and monitor	
selection.	
Stop All Patrols – This allows the	Stop All Patrols
user to stop all patrols currently	
running on the system.	
Save Clip Gadget – This allows the	Saving clip: No
user to track the download status of a	
recorded video clip. The progress of	
the download is displayed as a %	
and numerical value. E.G. 30%.	
Airlock Gadget – This can be used	
when there is a requirement to	Door 1 Door 2
Open/Close doors when used	
alongside a ZoneVU IOM8 controller.	
	4 4

4.1.4 Fusion Layout complete with Gadgets



Fig 3.1.4 Fusion Gadgets -

## 4.2 DVR Playback

4.2.1 Overview

Fusion Eclipse now supports an ever increasing range of Digital recording systems through its powerful GUI.

Instant review from each workstation with the ability to Time and date search, download clips and burn DVD's straight from Fusion.

(Please see Appendices for Supported peripherals).

## 4.2.2 The Playback Control Panel



Fast Forward. The recorded video will be played at x4 normal speed. Consecutive presses will increase the forward speed.	
Date/Time. Use this button to display a calendar and clock where the required date & time can be selected.	
Clip Download. Use this button to display the clip download window.	Choose start and end Sine for the clip and save it.

## 4.2.3 Clip Download

The ability to save video clips is achievable through Fusion by clicking on the 'Clip download' button.

	•	3	Octo	ber	201	3	•	multin
1	Мо	Tu	We	Th	Fr	Sa	Su	L'in /
	30	1	2	з	4	5	6	
	7	8	9	10	11	12	13	- O
	14	15	16	17	18	19	20	LE N
	21	22	23	24	25	26	27	-
	28	29	30	31	1	2	3	Tunna
	4	5	6	7	8	9	10	
								· · · _
								13:04:23 AM
								* * *

Enter a Start and End time and select Continue to save the video clip to the default location. The default location of the 'Video evidence vault' can be set in the Fusion configuration file.

It's also possible to assign the clip to a particular 'Incident'. This allows the user to associate the saved footage with Meyertech's Fusion Incident Logging packages.

## 4.2.4 Burn to Disc

1

With the addition of a DVD-RW drive it is possible to save the video clip and burn them straight to DVD from a one place.

To Access the 'Burn to disc' feature Select 'Tools -> 'Burn to Disc' from the Fusion menu. Users will require full 'Configuration' rights in order to do this.

	💮 Meyertech Bun	nMedia		23
See the 'Help' section for step by instructions of how	DVD burner: Files:	G\CD-DVD drive + From local Video Evidence Vault +	Help 1. Insert blank media to burner 2. Press 'Detect Media' button 3. Choose source of the files	
to burn to disc.	Volume label:		<ol> <li>Press 'Add Files/Add Incident Files' and ch</li> <li>Press 'Burn' button and wait</li> <li>Remove media</li> </ol>	noose files
	Files to burn	Add Incident Files Remove Files	Media Detect Media No media, not empty media or not supp O Progress Burn Cancel	orted media! OMB

## 4.3 Monitor Walls

## 4.3.1 Overview

Fusion Eclipse supports traditional Analogue monitor switching and Virtual (Digital) Monitor walls, providing a hybrid video switching platform. The application works seamlessly with ZoneVU VMW servers to allow the user to select cameras to any Virtual monitor throughout the system.

The Monitor Wall window shows either a live virtual monitor wall ('local' mode) or a representation of a live virtual monitor wall that is being displayed on a physical wall monitor ('remote' mode). In either mode, dragging and dropping a camera icon onto one of its virtual monitors switches the video stream from that camera to that virtual monitor. The right mouse-click context menu can be used to change the sizes and arrangements of the virtual monitors by selecting a different local or global layout.

Select this from the main Fusion Eclipse Menu: Window > Monitor Wall By selecting this menu item the operator can create a new Virtual Monitor window, which can be left floating or can be docked.



#### 4.3.2 Switching Cameras

To switch a camera to a monitor wall simply left mouse click over a camera and drag the camera to the chosen monitor.

## 4.3.3 Changing Layouts



By Right clicking over the Fusion monitor wall it's possible to select a number of options.

- 1. Monitor Wall Change the current monitor wall to any of the other monitor walls configured in your system.
- 2. Wall Mode Put the current monitor wall in to 'Local' or 'Remote' mode.
- 3. Local Configurations Select any of the local configurations (Layouts) assigned to that particular monitor wall.
- 4. Global Configurations Select any of the global configurations (Layouts) and assign it to any monitor wall.
- 5. On-screen display Tick this to enable OSD on the monitor wall.
- 6. Full Screen Puts the monitor wall in to full screen mode.

NB: The Fusion Monitor Wall Editor will allow you to configure all monitor walls, layouts and OSD. Please see separate Fusion Administration manual.

## 4.4 Zonal Switches

## 4.4.1 Overview

Zonal switches can be used to make multiple camera to monitor selections and pre-sets with a single action.

They are particularly useful when configured as alarm events or populating whole or partial monitor wall servers.



## 4.4.2 Creating and Editing Zonal Switches

## 4.4.3 Local/Global Zonal switches

Zonal switches can be saved as 'Local' or 'Global' zonal switches.

Local Zonal switches are saved local to the workstation and can only be ran from there.

Global Zonal switches are saved 'Globally' and will be available from all other workstations.

## 4.5 User Layouts

#### 4.5.1 Overview

Fusion Eclipse allows all windows to be moved and left floating or docked. Depending on where your mouse is at the time Fusion will indicate the options for docking.

## 4.5.2 Docking Windows

To move a window, use the mouse to click and drag on the window Title Bar. Depending on the options available, as set by Fusion Eclipse, the user will see several icons as per the table below, these are called docking areas.

1 5	These are the options for docking <i>within</i> the current window. 1. Dock to the top of the current window				
	2. Dock to the right of the current window				
4	3. Dock to the bottom of the current window				
	4. Dock to the left of the current window				
3	5. Add as a new tab to the current window				
<b>^</b>	Dock to the top of the current window				
>	Dock to the right of the current window				
-	Dock to the bottom of the current window				
•	Dock to the left of the current window				

## 4.5.3 Saving/Editing Layouts

Choose a Layout



## 4.6 User Groups and Users

#### 4.6.1 Overview

Each user will have a password and will belong to one or more groups.

User Groups are used by Fusion Eclipse to logically group the users so that permissions and access rights can be readily granted/denied by a single setting – for instance if there are 24 persons capable of logging onto Fusion2 it would be a tedious task to reset the permissions of all 24 without the use of a group.

It is also possible to add cameras to a user group, thereby being able to control which users have access to which cameras.

I It is likely that the system integrator will setup the necessary groups and their relationships, plus the initial setup of which user belongs to which group. It is then a task of keeping the users grouping up-to-date as staff changes occur – this is seen as a task that a system supervisor can perform.

#### 4.6.2 Users

Each user will have a password.

Each user will belong to one or more groups



## 4.6.3 Groups

Each user will have a password.

Each user will belong to one or more groups.

Groups can belong to groups, eg if group À belongs to group B then group A inherits all the permissions of group B.

🗢 Esti Dae Grupp	Select Edit > User Groups
Name - Type Member Of Installers System Group Make Cameras Datas Operators System Group New Broup  New Broup  Remove Respectee. Effective Member Of Close	There are two default systems groups that should not be removed: Installers and Operators.
Add new group:	Click on New Group.
😁 Edit User Grou System Group Properties	You can choose from :
Name - Group Name: New	a) System Group
Mobile Member Off	b) Cameras Group
Permissions	For all but cameras choose (a).
Allow Est	Enter the name of the group.
Change Alarm View Configuration	Define which groups, if any, this group
Change Monitor Wall Change Monitor Wall Change Monitor Wall Configuration	belongs to.(this would normally be setup by
Covert Trunk Permission 0	complex area)
New Gs Edit Map	Add the Users to the group as required.
OK Cancel	Set the permissions as required.
Change a group:	Select a group
	Click on Properties.
	Edit as per descriptions for Add new.
Delete a group	Select a group
	Click on Remove.
Check your groups	Select a group
	<i>I</i> As previously mentioned, the task of setting up groups
	main risk is in-advertantly giving a user higher privileges
	group. Use this feature to check effective membership,
	showing the hierarchical list of groups.
Add a new group of cameras	Click on New Group.
	Give the group a name
	One the group a hame.



## 4.7 Programming Pre-set's

#### 4.7.1 Overview

Camera Pre-sets can be configured and programmed through Fusion Eclipse via the intuitive GUI interface.

By putting Fusion into Map editing mode and selecting a camera pre-set icon from the

#### 4.7.2 Preset Icons

Before setting a static preset ensure the camera of interest is selected and you have control of it. Then, before dragging a new preset icon onto a map, ensure the camera is set correctly for pan, tilt, zoom and focus.



	Drag from the Camera's yellow dot to the location on the map where the preset is located.
Lift airs	Repeat as required, remembering to manually control the camera before dragging the new preset icon onto a map to ensure the camera is set correctly for pan, tilt, zoom and focus.
	Give the preset icons meaningful names, then they can be accessed by the Fusion Eclipse search facility.
	Select the camera you want to assign to the icon from the properties Window. Enter a pre-set number

#### 4.8 Patrols

#### 4.8.1 Overview

For most devices patrols will be managed and executed on the device itself. Typically this means programming the patrol on the device and then simply selecting the patrol in a 'fire and forget' style through fusion. This has the benefit of being very efficient as no processing is done on the VMM and the site controller only has to translate a single patrol selection message.



For scenarios where the device does not support patrols natively, patrols can now be managed and processed on the VMM using a plugin. This will run through a sequence of presets on the camera in order to carry out a patrol. Unlike native patrols, these emulated patrols are not fire & forget and the patrol state of a camera is synchronised between workstations. One downside to this emulation is that more processing is carried out on the VMM, thus the site controller will have to handle a larger number of preset selection messages instead of a single patrol selection.



#### 4.8.2 Patrol Editor

For standard patrols you need to configure the individual patrols for a camera on the device through propriety protocol or application. This is not an option for devices without hardware patrol support, so each patrol for a camera is saved in the system model. There is no limit on the number of patrols that can be stored for a camera.

To add a patrol to a camera, or edit an existing one, simply select a camera and open the *Patrol Editor* window. Each patrol is numbered, and occupies a tab along the top of the window. Modify the patrol as required by configuring the sequence of presets in the datagrid below.

Patrol Editor				x	
Camera: C1 Axis Dome           1         2         3         4         5         6         +           Patrol Points:					
PresetNumber	DwellTime	IsEnabled	8		
1	00:00:30				
2	00:00:15	<b>V</b>			
3	00:00:15	1			
7	80:00:00		- Preset Sequence		
5	00:00:10		Treset sequence		
4	00:00:10	<b>V</b>			
15	00:00:10	<b>V</b>			

Figure 3 - The patrol editor

#### 4.8.3 Using Patrols

The patrols can be triggered the same way as normal patrols. A patrol can be selected by typing in its number in the *'patrol'* text box and hitting return just like a standard patrol. Alternatively, patrols can be toggled on or off using the Start / Stop button situated underneath should you prefer to use the mouse. Selecting patrol '0' will stop the camera from patrolling.

A status light will change colour to indicate the patrol state of the currently selected camera. Orange indicates the status is not currently known. Green indicates the camera is currently patrolling. Red indicates the camera is not patrolling.

Controls			8	
Video		Presets	Status Indica	tor
Camera:	1	Preset:		
Site:	0	Patrol: 1	Start / Stop	
Monitor:	1	Patrol Status: 🝎	button	
Sequence:		Stop Patrol		
Aux.		Manual		
Lamp on	Wash	🛄 Iris		
Wipe on		Focus		
Aux. 1 or	Aux. 2			
Aux. 3 or	1			
Apply to	all cameras			

Figure 4 - Control window with patrol interface

In addition to these new items in the control window, there is a small addition to the camera icons on the map. When a camera is currently patrolling a small cog will appear in the lower right of the icon.



Figure 5 - Icon for patrolling camera

## 4.9 Hyperlinks

#### 4.9.1 Overview

Fusion Hyperlinks allow you to create 'shortcut's' to areas of interest within the Fusion Mapping area. An infinite number of Hyperlinks can be set up and assigned to icons or pinned to the Hyperlinks menu in the Atlas window.

Meyertech System Models that also incorporate GIS deepzoom maps contain hyperlinks which are generated from the text description fields of the map database. This allows the user to search for any road/street name in the mapping area.



## 4.9.2 Hyperlink Editor

To Create a New Hyperlink the user is required to right mouse click on the Hyperlinks folder located in the Atlas window and select 'Add new Hyperlink'.

You can also create new folder structures within the Hyperlinks folder to organise them into particular areas of key interest. For example if you had multiple maps in the system for a block of flats you might want to name hyperlinks for each floor level. E.g. Level 1, Level 2. The 'Import Hyperlinks' feature is used when configuring Hyperlinks for a Fusion system containing deepzoom maps. The Hyperlinks for the GIS database are generated by Meyertech into an Excel spreadsheet and then Imported.



Once the new Hyperlink is created the Hyperlink Properties window will appear. You will need to position the cross hairs over the exact location you require making sure you are zoomed in to the correct level.

Once confirmed you will need to set the options in the properties window to 'True'.

- June				N	Set 'Use Location' to True.
P	ro	perties	- ù	Sec	Set 'Use Map' to True.
	4	Hyperlink			Set 'Use Zoom' to True.
	Þ	Current	Meyertech.Fusion2.Map		
		Hyperlink Title	SALISBURY AVE		
		View Map	Harrogate		
	Þ	View Position	143709.532285,35421.		
	Þ	View Position GP	-2.703631,54.058355		
		View Scale	1.52E+000		
	4	Options			
		Use Location	True		
		Use Map	True		
		Use Zoom	True		
			Letter cert		
-					
2					

## 4.9.3 Hyperlink Icons

Hyperlink Icons are a particularly useful way of using an icon image to trigger/run a hyperlink shortcut. An ideal scenario to use this feature would be if you wanted to access different maps from your main Deepzoom map.E.g. You have a multi-storey car park with individual Bitmaps and a deepzoom map in your system model. You have 'Parking' image on the main Fusion deepzoom map which once clicked with the mouse will take you into the multi-storey car park bitmaps. From here you can navigate to each car park map and get back out to the main Fusion map by zooming out with the mouse wheel.

Hyperlinks Hyperlink	Hyperlink icons can be added to the Fusion maps and hyperlinks assigned to the particular icon. The icons are then used to navigate to key areas of interest.
Polygonal hyperlink	
	The Polygon hyperlink can be sized and shaped to cover any area of interest. Once Selected with the mouse it can be edited in the hyperlink properties window.
Properties • 0	The Hyperlink properties window allows you to configure the hyperlink icon.
Misc     Background Colc     Transparent     Hyperlink     (None)     Location	Background colour – Assign a colour from the Windows palette or set to Transparent to make the hyperlink invisible.
Map (No-Map) Zoom Zoom To Map False	Hyperlink – Browse the list of configured hyperlinks and select the one you want to assign to the icon.
Aaximum scale	Zoom to Map – Set to True or False if you want the hyperlink to zoom in or out.
Hyperlink Contains location, zoom level and map to move.	Zoom Trigger – A maximum and minimum zoom scale can be applied to the zonal switch. These values can be altered to trigger the hyperlink when the zoom level on the particular icon exceeds the two parameters.

# 5. System Model Editing

#### 5.1 Overview

A System model is a single file that stores all the Fusion Eclipse configuration settings and supporting files, including maps, Users and User Groups. Files are named with a .sm extension.

## 5.2 Saving and Distributing System Models

When a control room manager or engineer has made any changes to the system it is likely that these will be needed by the other workstations on the network. To do this the manager will use the Distribute System Model function available from the main Fusion Eclipse Menu: File > Distribute System Model... A list of workstations and servers will be given and the administrator can select all or some of these to distribute the new system model to. Progress of this is shown by each workstation going orange then green.

When editing the system on the local PC the administrator can use the Save command or the Save As command as and when required.

When Fusion starts it may bring up a select System Model window, in which case the user can select the required one. More likely, is that Fusion has been configured to use a default System Model.

This default System Model can be set using the main Fusion Menu: File > Open On Start. Then simply browse to the .sm file required.

Use main menu File > Save	Updates the currently used system model.		
Use main menu File >Save As	Creates a new system model file and saves the currently used system model + updates to the new file.		
Use Distribute System Model To update the other Fusion Eclipse VMS workstations and servers .	System Model Databalism      System Model     Name System/Acdel     Last Modified 13/11/0104 05/05/02     Wenion: 28      System     Online     Vession     Founty Need To Logoff     Status      System     Online     Vession     Pounty Need To Logoff     Status      Online     Vession     Pounty Need To Logoff     Status		
Use main menu File > Open On Start	This will prevent the dialog box from opening, asking the operator to choose a system model. This function will request which system model to open by default.		
Use main menu File > Recent Models	Clicking this menu item will present the operator with a list of recently used system models. Selecting one of these will cause the Fusion VMS to initialise with this system model.		

# 6. Fusion Troubleshooting

#### 6.1 Fusion Eclipse Software Restart Procedure

- 6.1.1 Use menu File > Exit to close the Fusion Eclipse VMS workstation.
- 6.1.2 Start the Fusion Eclipse VMS workstation.
- 6.1.3 Logon to the Fusion Eclipse VMS workstation.

## 6.2 Fusion Hardware Restart Procedure

#### **Workstation Restarts**

A Workstation restart maybe performed by an operator as part of the initial fault fix/resolution to a problem.

All such fault fix/resolution restarts should be logged and reported as per the current maintenance and support contract guidelines.

Should a particular workstation be restarted, there is no requirement to restart any other servers or workstations on the Fusion network.

#### Workstation restart procedure

- 1. Use menu File > Exit to close the Fusion Eclipse VMS workstation.
- 2. Perform a Windows Shutdown & Restart.
- 3. When the PC has restarted, logon to windows using the standard user account provided.
- 4. Start the Fusion Eclipse VMS workstation.
- 5. Logon to the Fusion Eclipse VMS workstation.

Fault Scenario	Possible Reason	Fix
No camera switch to a particular monitor	Is the particular monitor selected ?	Select the monitor.
No PTZ camera control	Camera control maybe denied by a higher priority operator.	The higher priority operator needs to relinquish control by selecting another camera or by using the context menu of the camera and select 'Relinquish Control'. Check the status of the camera icon. A camera that is being controlled by another operator will

#### 6.3 Fault Finding and Diagnostics

		display 'Red' arrows when the particular operator tries to move it.
	The monitor on which the camera is displayed is not the current monitor.	Select the correct monitor.
The CCTV joystick controls a different camera from that expected.	The monitor on which the camera is displayed is not the current monitor.	Select the correct monitor.
Unresponsive or slow system.	Software problem.	Log off then back on to Fusion Eclipse. If problem persists restart the Fusion Eclipse software <sup>1</sup> . If problem persists perform a Windows restart <sup>2</sup> followed by restarting the Fusion Eclipse software <sup>1</sup> .

# 7. Support



Meyertech support can be accessed a number of different ways depending on whether you are a Meyertech Certified Partner (MCP), a Non-MCP with a current Support Menu or a customer who has just purchased a new product.

#### Meyertech Certified Partner (MCP) / Non-MCP with a Support Menu

- Request a Support Ticket <u>http://www.meyertech.co.uk/support.html</u>
- Email the Meyertech Service Centre <u>tech-support@meyertech.co.uk</u>
- Phone the Meyertech Service Centre +44 (0) 161 643 7956

#### **All Other Customers**

• Request a Support Ticket <u>http://www.meyertech.co.uk/support.html</u>

Only one issue maybe reported per **Support Case**. If multiple unrelated issues are reported Meyertech support engineers will create a separate support case for each unrelated issue.

Customers access Meyertech support by purchasing a **Support Menu** which meets their Requirements in relation to the support they require access to.

The concept of the Support Menu is based on a food theme. There are six menus to facilitate the provision of support to Meyertech partners, non-partners and SLA driven contracts.

If you are a customer who does not have a current Support Menu or currently not a Meyertech Certified Partner our Support Menus can be purchased or 'topped-up' with additional credits at any time. If you fall into this category you will receive GRATIS Support Credits every time you purchase a product. If you are a customer who has a Support Menu the GRATIS Support Credits are simply added to your current menu with every purchase you make.

# 8. Appendices

# 8.1 Network and Firewall Information

IP Port	Protocol	Description
Number		
4000	TCP	Axis Telemetry
12897	TCP	Data Layer
9090	TCP	Custom System Model Distribution
28190	TCP	Custom Security Service protocol
28920	TCP	Custom Monitor Wall Protocol
28921	TCP	Custom Covert Monitor Protocol
1000	TCP	Custom shared Serial Port
5900	TCP	Ultra VNC
9090	TCP	Custom System Model Distribution
28190	TCP	Custom Security Service protocol
28920	TCP	Custom Monitor Wall Protocol
28921	TCP	Custom Covert Monitor Protocol
1000	TCP	Custom shared Serial Port
80	TCP	Instek SDK Command
3514	TCP	Live Streaming Instek SDK
60006	TCP	Playback Veracity SDK
1433	TCP	SQL Server
1024-5000	TCP/UDP	Fusion Incident Workstation + Console