

# Security Management System Configuring Secondary Storage Access from CMS

### Introduction

'Security management system server' software supports secondary recording feature, in which the camera streams are recorded to primary storage as well as to secondary storage simultaneously. This document describes configuration steps to set up secondary storage and to configure secondary storage access from CMS server (Central Monitoring Server).

This document describes steps to configure

 VMS server - 'Security Management System Server' software (VMS server) which is configured to record camera streams to primary storage as well as to secondary storage.
CMS server - 'Security Management System Server' software which is configured as CMS server. Video channels from one or more VMS servers are added to the CMS server, and secondary storage direct access is configured in the CMS server, as an option.
CMS client - 'Security Management System Client' software, which connects to one or more CMS servers and accesses primary storage or secondary storage; as per user inputs



# VMS server configuration

### **Primary storage**

Primary storage is mandatory and is always available in Security Management System server software.

The drives for primary storage can be selected from 'Data management -> Recording drives' page.

192.168.1.151	Data management → Recording drives
151	
Video devices	Low disk space alarm threshold: 10 GB
Audio devices	🗹 Pecycle drives
Device groups	📕 Do not delete alarms data 🛛 🐨
Alarm groups	Recycle start threshold: 20 GB 🕥
Status	Recycle stop threshold: 50 GB
Reports and Export	
Communication	
Security devices	Recording drive:
Keyboards and Joysticks	Recording drive list:
Users and Privileges	S. Drive Total size Free size Expected recording time
Alarm management	1 E:\ 180.21 GB 38.95 GB 4.95 hours
Data management	
Recording drives	
Preferences	
Activity logs	Status: Refreshing in 54 seconds
Manual operations	
Scheduled operations	
Recording history	
Secondary storage	
Remote backup	
Tasks	

Security Management System server software intelligently assigns recording drive for each of the camera added, with an option for users to over-ride the drive assignment for the cameras.



### **Secondary storage**

Security Management System provides fully flexible configuration for secondary storage. Secondary storage configuration is optional. Also the secondary storage configuration can be done only for some cameras, leaving out cameras which do not require secondary storage feature.

To enable secondary storage, please access the "Secondary storage-> Recording drives" menu from the left hand side navigation control

192.168.1.151	Secondary storage – Recording drives
151	Enable secondary storage
Video devices	
Audio devices	Low disk space alarm threshold: 10 GB
Device groups	Recycle drives
Alarm groups	Recycle start threshold: 20 GB
Status	Recycle stop threshold: 50 GB
Reports and Export	
Communication	Recording drive:
Security devices	Recording drive list:
Keyboards and Joysticks	
Users and Privileges	Sr No. Drive Total size(GB) Free size(GB)
Alarm management	
Data management	
Secondary storage	
Recording drives	Status: Configuration update in progress
Settings	
Recording history	
Remote backup	Maximum pending processing hours: 24
Tasks	Enable adding success logs
Linked servers	
Server settings	
Connect to CMS	

Click on the 'Edit' button available on the right hand side, which will enable the GUI and will allow editing the settings.

Click on 'Enable secondary storage' check box to enable it.

Select recording drive from available recording drives list and then click on 'Add' button to select recording drive for secondary storage. It will be added to the list of 'Recording drive list'.



192.168.1.151	Secondary storage Recording drives
151	V Enable secondary storage
Video devices	
Audio devices	Low disk space alarm threshold: 10 GB
Device groups	Recycle drives
Alarm groups	Recycle start threshold: 20 GB
Status	Recycle stop threshold: 50 GB Save
Reports and Export	
Communication	Recording drive:
Security devices	Recording drive list:
Keyboards and Joysticks	
Users and Privileges	Sr No. Drive Total size(GB) Free size(GB)
Alarm management	
Data management	
Secondary storage	
Recording drives	Status: Refreshing in 44 seconds
Settings	
Recording history	
Remote backup	Maximum pending processing hours: 24
Tasks	Enable adding success logs
Linked servers	
Server settings	
Connect to CMS	

It is possible to add multiple drives for secondary recording by selecting another drive and clicking on 'Add' button.

To remove any drive from 'Recording drive list, use 'Remove' button.

Click on 'Save' button to complete configuring recording drives.

Note – It is recommended to use different drives for primary recording and for secondary recording. Using same drive for primary recording as well as secondary recoding would cause problems in storage recycle operations

The secondary recoding configuration is not complete yet.

Required channels are needed to be added to the list of secondary storage enabled cameras. Security Management System server software provides flexibility to configure only few channels for secondary storage.

Please access the 'Secondary storage-> Settings' menu from the left hand side navigation control



192.168.1.151	Secondary storage – Settings	
151		
Video devices ^	Secondary storage mode: Data Conv (Immediate)	$\bigcirc$
Audio devices		<b></b>
Device groups	Data Copy (Immediate)	6
Alarm groups		
Status		<b>W</b>
Reports and Export	Sr No. Channel name Channel ID Recording drive Synchronized until	
Communication		
Security devices		
Keyboards and Joysticks		
Users and Privileges		
Alarm management		
Data management		
Secondary storage		
Recording drives		
Settings		
Recording history		
Remote backup	< >	
Tasks	Note: Click on 'Refresh' button to check data processing status	
Linked servers		
Server settings		
Connect to CMS		

Keep 'Secondary storage mode' as 'Data Copy (Immediate)' and click on 'Add...' button. This will pop up the 'Add Cameras' dialog box.

Θ	Add o	cameras	×
	Recording drive:	Y:\ 🗸	
	Select channels		
	Select camera	Parameter1	^
	✓ Cam3727	E:\Sample002	
	Cam3728	E:\Sample002	
	Com5725	192.100.1.110	
	Cam3730	192.168.1.104	-
	Cam3731	192.168.1.12	
	Cam3732	192.168.1.104	
	Cam6212	192.168.1.152	
	Cam6213	192.168.1.152	
		100 160 1 150	× ĕ
	<	>	
	6	0	

Select recording drive from available options

Select cameras which are expected to use the selected drive for 'Secondary storage'.



Click on 'Add' button, to finish adding the cameras.

The configured cameras will be displayed in the list.

Associated secondary recording drive will also be displayed for each of the cameras. Secondary recording will be processed for the cameras present in this list.

192.168.1.151	Seco	ndary sto	rage → Settings				
151							
Video devices		Secondar	rv storage mode:	Data Conv (	Immediate)	×	$\bigcirc$
Audio devices		00000000	, storage moder	Data Copy (	ininediace)	•	<b>9</b>
Device groups		Data Co	py (Immediate)				6
Alarm groups							
Status						V	<b>3</b>
Reports and Export		Sr No.	Channel name	Channel ID	Recording drive	Synchronized until	
Communication		1	Cam3727	VC_Cam3727	Y:\	Not available	
Security devices		2	Cam3728	VC_Cam3728	Y:\	Not available	
Keyboards and Joysticks							•
Users and Privileges							
Alarm management							
Data management							
Secondary storage							
Recording drives							<b>S</b>
Settings							
Recording history							
Remote backup		<				>	
Tasks		Note: Cl	ick on 'Refresh' butt	on to check data proc	essing status		
Linked servers							
Server settings							
Connect to CMS							

'Add' button can be used to configure more cameras for secondary recording. 'Delete' button can be used to remove selected cameras from secondary recording. 'Edit' button can be used to update secondary recording setting for any of the cameras in the list.

Please use 'Refresh' button to check data processing status for secondary storage.

At any stage, the primary storage recoding and secondary storage recording can be compared using 'Compare' button

Secondary storage data can be accessed using the 'Playback', 'Export' and 'Video search' buttons



## CMS server configuration

#### Add cameras from VMS software

There is no separate CMS server (Central Monitoring Server) software. Security Management System server software can be configures as CMS server. Please install Security Management System server software on the CMS server computer.

The CMS server monitors the cameras already added in the VMS software. The recording of the cameras is managed by the VMS server. CMS server allows centralized management of cameras from multiple VMS servers.

- 1. In the CMS server software, navigate to the 'Video devices -> Channels' page.
- 2. Click on 'Add multiple video channels' button to pop up dialog box.
- 3. Select 'Video source type' as 'SMS Server (local VMS)', provide user name and password configured in the VMS server software
- 4. Click on 'Add cameras in IP range...' button which will pop up dialog box to enter IP range. Input IP address range (these are the IP addresses of the VMS softwares) and click on 'Add button to add all cameras from selected VMS softwares into CMS'.



		Add Multiple Video Channels		×
		Video Source Type:	SMS Se	rver (local VMS) 🗸 🗸
		IP Address: Channel Name:		
192.168.1.152	Video devices - Char	Confirmed share share	_	
CMS 01		Conligured channels.	Sr No.	IP Address Channel Name
Video devices				
Channels	Sr No. Channel			
Sequences				
Device Discovery				
Audio devices		User Name:	admin	Add cameras in IP range ×
Device groups		Password:	•••••	
Alarm groups		Port forwarding enabled at server:		Start IP address: 192 . 168 . 1 . 151
Benetta and Expert		TCP Port 1:	5500	End ID addresses 192, 168, 1, 151
Communication		RTSP Port(TCP):	1024	
Security devices		RTP Port(UDP):	20000	Note: All the channels from the devices
Keyboards and loysticks		RTCP Port(UDP):	20001	with the selected IP address will be added
Users and Privileges		HTTP Port(TCP):	9900	
Alarm management				
Data management		Display stream 1	_	
Secondary storage		Stream type: Display Stream1	~	Select stream: Use different stream ~
Remote backup	<			Stream type: Display Stream2 ~
Tasks		Recording stream		- Motion detection and video analytics stream
Linked servers		Select stream: Use display stream 1	~	Select stream: Use display stream 1
Server settings		Stream type: Display Stream1	~	Stream type: Display Stream1
Connect to CMS 🗸				
			6	) 🔕 🕢

The video channels will be listed in 'Channels' list.

192.168.1.152	Video	devices	→ Channels						
CMS 01	$\overline{\mathbf{O}}$		00	00	00			$\sim$	
Video devices			<b>W</b>	🕑 😻	<b>U</b>		<b>(7</b> )	Ø 蒙	
Channels	s	Cha	nnel Name	Channel ID	Vide	o Stream Type	Parameter	1	6
Cam37117	1	Can	137117	VC_Cam3711	7 SMS	Server (local VM	S) 192.168.1	.151(Cam372	
Cam37118	2	Can	137118	VC_Cam3711	8 SMS	Server (local VM	S) 192.168.1	.151(Cam372	6
Cam37110	3	Can	137119	VC_Cam3711	9 SMS	Server (local VM	5) 192.168.1	.151(Cam372	-
Cam5/115	4	Can	137120	VC_Cam3712	0 SMS	Server (local VM	5) 192.168.1	.151(Cam373	
Cam3/120	5	Can	13/121	VC_Cam3712	1 SMS	Server (local VM	5) 192.168.1	.151(Cam373	6
Cam37121	0	Can	13/122	VC_Cam3/12	2 SMS	Server (local VM	5) 192.168.1	151(Cam3/3	0
Cam37122		Can	37124	VC_Cam3712	3 5MS	Server (local VM	5) 192.108.1	151(Cam621	
Cam37123	9	Can	37125	VC_Cam3712	5 SMS	Server (local VM	5) 192.168.1	.151(Cam621	
Com27124	1	D Can	37126	VC Cam3712	6 SMS	Server (local VM	5) 192.168.1	.151(Cam621	
Calli37 124	1	1 Can	137127	VC Cam3712	7 SMS	Server (local VM	5) 192.168.1	.151(Cam621	
Cam37125	1	2 Can	137128	VC_Cam3712	8 SMS	Server (local VM	S) 192.168.1	.151(Cam621	
Cam37126	1	3 Can	137129	VC_Cam3712	9 SMS	Server (local VM	5) 192.168.1	.151(Cam621	
Cam37127	1	4 Can	137130	VC_Cam3713	0 SMS	Server (local VM	S) 192.168.1	.151(Cam621	R
C===27120	1	5 Can	137131	VC_Cam3713	1 SMS	Server (local VM	S) 192.168.1	.151(Cam621	C
Cam37128	1	5 Can	137132	VC_Cam3713	2 SMS	Server (local VM	S) 192.168.1	.151(Cam622	6
Cam37129									U
Cam37130									
Cam37131	<		_	_	_			>	V
Cam37132									
Sequences									
Device Discovery									
Audio dovicos									

The 'video source type' 'SMS Server (local VMS)' indicates that the server software is only monitoring this camera. Actual recording is managed by the local VMS server where this camera is added



#### Configure secondary storage access mode

- 1. Please navigate to the 'Status-> Local VMS' page.
- 2. This page displays the list of VMS servers added in this CMS software

168.1.152	) Status →	Local VMS			
	5				
	List of	configured Local V	MS servers:		
tue	Sr N(	Site Name	Site ID	Local VMS IP	Total C
annol status	1	151	Site 74867A59E2FD	192.168.1.151	16
arding status					
andwidth atatua					
eo analytics status					
brage space					
eo parameters					
nera parameters					
nected clients					
one communication					
card					
agnostic tests					
cal VMS					
cal VMS (Push Mode)					
irms report	<			_	
sk usage					(3) (3)
mory allocations					
ion Detection					
168.1.152		Local VMS			
	4				
ce groups	List of	configured Local V	MS servers:		
r groups		condany storage -	Access sees to	v storage through Chr	conver
S	50	econdary storage d	Disabled	y storage through CMS	server S
anner status			Disablea		
cording status					
idwidth status					
deo analytics status					
orage space					
leo parameters					
mera parameters					
nnected clients					
ione communication					
) card					
ignostic tests					
al VMS					
cal VMS (Push Mode)					
ms report	<				
c usage					(3)
ory allocations					
Detection					
on Detection					

3. The 'Refresh configuration' button will synchronize configuration with the selected VMS.

Security Management System – Configuring Secondary Storage Access from CMS (190517) www.infinova.com



4. The 'Details' button will pop up a dialog box which will display VMS server details

VMS IP:	192.168.1.151					
VMS Na	me: 151 (Site_74	867A59E2FD)				
Access :	secondary storag	e through CMS	server	: Disabled		
List of fa	ailover servers:					
Sr No.	IP address	Port nu	mber			
List of c	hannels:					
List of c Sr No.	hannels: Channel Name	Channel ID	Chi	annel details	Secondary storage	^
List of c Sr No. 1	hannels: Channel Name Cam37117	Channel ID VC_Cam371	Chi 17 192	annel details 2.168.1.151/Cam3727	Secondary storage Enabled	Ŷ
List of c Sr No. 1 2	hannels: Channel Name Cam37117 Cam37118	Channel ID VC_Cam371 VC_Cam371	Chi 17 192 18 192	annel details 2.168.1.151/Cam3727 2.168.1.151/Cam3728	Secondary storage Enabled Enabled	Â
List of c Sr No. 1 2 3	hannels: Channel Name Cam37117 Cam37118 Cam37119	Channel ID VC_Cam371 VC_Cam371 VC_Cam371	Chi 17 192 18 192 19 192	annel details 2.168.1.151/Cam3727 2.168.1.151/Cam3728 2.168.1.151/Cam3729	Secondary storage Enabled Enabled Disabled	Ŷ
List of c Sr No. 1 2 3 4	hannels: Channel Name Cam37117 Cam37118 Cam37119 Cam37120	Channel ID VC_Cam371 VC_Cam371 VC_Cam371 VC_Cam371	Chi 17 192 18 192 19 192 20 192	annel details 2.168.1.151/Cam3727 2.168.1.151/Cam3728 2.168.1.151/Cam3729 2.168.1.151/Cam3730	Secondary storage Enabled Enabled Disabled Disabled	î
List of c Sr No. 1 2 3 4 5	hannels: Channel Name Cam37117 Cam37118 Cam37119 Cam37120 Cam37121	Channel ID VC_Cam371 VC_Cam371 VC_Cam371 VC_Cam371 VC_Cam3712	Chi 17 192 18 192 19 192 20 192 21 192	annel details 2.168.1.151/Cam3727 2.168.1.151/Cam3728 2.168.1.151/Cam3729 2.168.1.151/Cam3730 2.168.1.151/Cam3731	Secondary storage Enabled Enabled Disabled Disabled Disabled	Ŷ
List of c Sr No. 1 2 3 4 5 6	hannels: Channel Name Cam37117 Cam37118 Cam37119 Cam37120 Cam37121 Cam37122	Channel ID VC_Cam371 VC_Cam371 VC_Cam371 VC_Cam371 VC_Cam371 VC_Cam371 VC_Cam371	Chi 17 192 18 192 19 192 20 192 21 192 22 192	annel details 2.168.1.151/Cam3727 2.168.1.151/Cam3728 2.168.1.151/Cam3729 2.168.1.151/Cam3730 2.168.1.151/Cam3731 2.168.1.151/Cam3732	Secondary storage Enabled Enabled Disabled Disabled Disabled Disabled	Ŷ
List of c Sr No. 1 2 3 4 5 6 7	hannels: Channel Name Cam37117 Cam37118 Cam37119 Cam37120 Cam37121 Cam37122 Cam37123	Channel ID VC_Cam371 VC_Cam371 VC_Cam371 VC_Cam371 VC_Cam371 VC_Cam371 VC_Cam371	Chi 17 192 18 192 19 192 20 192 21 192 22 192 23 192	annel details 2.168.1.151/Cam3727 2.168.1.151/Cam3728 2.168.1.151/Cam3729 2.168.1.151/Cam3730 2.168.1.151/Cam3731 2.168.1.151/Cam3732 2.168.1.151/Cam6211	Secondary storage Enabled Enabled Disabled Disabled Disabled Disabled Disabled Disabled	Ŷ
List of c Sr No. 1 2 3 4 5 6 7 8	hannels: Channel Name Cam37117 Cam37118 Cam37119 Cam37120 Cam37121 Cam37122 Cam37123 Cam37123	Channel ID VC_Cam371 VC_Cam371 VC_Cam371 VC_Cam371 VC_Cam371 VC_Cam371 VC_Cam371 VC_Cam371	Chi 17 192 18 192 19 192 20 192 21 192 22 192 23 192 24 192	annel details 2.168.1.151/Cam3727 2.168.1.151/Cam3728 2.168.1.151/Cam3729 2.168.1.151/Cam3730 2.168.1.151/Cam3731 2.168.1.151/Cam3732 2.168.1.151/Cam6211 2.168.1.151/Cam6212	Secondary storage Enabled Enabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled	Ŷ
List of c Sr No. 1 2 3 4 5 6 7 8 9	hannels: Channel Name Cam37117 Cam37118 Cam37119 Cam37120 Cam37121 Cam37122 Cam37123 Cam37124 Cam37125	Channel ID VC_Cam371 VC_Cam371 VC_Cam371 VC_Cam371 VC_Cam371 VC_Cam371 VC_Cam371 VC_Cam371 VC_Cam371	Chi 17 192 18 192 19 192 20 192 21 192 22 192 23 192 24 192 25 192	annel details 2.168.1.151/Cam3727 2.168.1.151/Cam3728 2.168.1.151/Cam3729 2.168.1.151/Cam3730 2.168.1.151/Cam3731 2.168.1.151/Cam3732 2.168.1.151/Cam6211 2.168.1.151/Cam6213	Secondary storage Enabled Enabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled	^

- 5. Click on the 'OK' button to close the 'Local VMS Server Details' dialog box.
- 6. Select a VMS server. Click on the 'Secondary Storage Settings' button, which will pop up the configuration dialog box for the selected VMS server.

econdary Stora <u>c</u>	ge Settings		The Integrator's	$\frac{Manufactu}{\times}$
VMS Name: 1	.51 (Site_74867A59E2F	-D)		
VM5 IP: 192.	108.1.151			
Access se	condary storage throug	gh CMS server		
Access mo	de: Mapped driv	ve from CMS		$\sim$
VMS re	cording drive:	:\ <u>~</u>		
Map to	drive:	C:\		
	(			
List of	manned drives:	9		
List of	mapped drives:			
List of Sr No.	mapped drives: VMS recording drive	Mapped to	Channels mapped	
List of Sr No.	mapped drives: VMS recording drive	Mapped to	Channels mapped	
List of Sr No.	mapped drives: VMS recording drive	Mapped to	Channels mapped	
List of Sr No.	mapped drives: VMS recording drive	Mapped to	Channels mapped	
List of Sr No.	mapped drives: VMS recording drive	Mapped to	Channels mapped	
List of Sr No.	mapped drives: VMS recording drive	Mapped to	Channels mapped	
List of Sr No.	mapped drives: VMS recording drive	Mapped to	Channels mapped	
List of Sr No.	mapped drives: VMS recording drive VMS configured from els configured with sec els mapped: 0	Mapped to Mapped to n selected VMS: 16 ondary storage: 2	Channels mapped	

7. Enable 'Access secondary storage through CMS server' check box, and select 'Access mode' from the available options.

econd	lary Storage	e Settings			The Integrator's	<mark>s Manufac</mark> ×
VMS	Name: 15	51 (Site_74	1867A59E2F	D)		
VMS	IP: 192.1	.68.1.151				
✓ Ac	ccess sec	ondary sto	rage throug	h CMS server		
Acc	cess mod	le:	Mapped driv	e from CMS		~
			Mapped driv	e from CMS		
		I	Network pat	th direct access		
	VMS rec	ording driv	re: Y	:/ ~		
	Map to d	drive:	C	::\ ~		
			6			
			•	9		
	List of n	napped dri	ves:			
	List of n Sr No.	napped dri VMS reco	ves: rding drive	Mapped to	Channels mapped	1
	List of n Sr No.	napped dri VMS reco	ves: rding drive	Mapped to	Channels mapped	1
	List of n Sr No.	napped dri VMS recor	ves: rding drive	Mapped to	Channels mapped	1
	List of n Sr No.	napped dri VMS reco	ves: rding drive	Mapped to	Channels mapped	1
	List of n Sr No.	napped dri VMS reco	ves: rding drive	Mapped to	Channels mapped	1
	List of n Sr No.	napped dri VMS reco	ves: rding drive	Mapped to	Channels mapped	
	List of n Sr No.	napped dri VMS reco	ves: rding drive	Mapped to	Channels mapped	
	List of n Sr No.	napped dri VMS reco	ves: rding drive	Mapped to	Channels mapped	

- 8. There are 3 options available for the 'access modes'
- (a) Mapped drive from CMS In this mode, each of the secondary recording drive configured in the local VMS server is associated with a drive in the CMS server computer. While using this option, it is important that we the secondary storage is configured in local VMS server as mapped network drives; and same is configured in CMS server as mapped network drives; there is 1 : 1 co-relation between secondary storage recording drive configured in VMS server and secondary storage drive configured in the CMS server; and these 2 drives are configured as associated drives in CMS server, as per the configuration steps listed below.



Whenever CMS server tries to access secondary storage for any of the cameras, (either directly from CMS server or from connected CMS client); it will use the related mapped drive in CMS server

(b) **Network path from CMS** – In this mode, each of the secondary recording drive configured in the local VMS server has a network path defined for it in the CMS server.

It is important to configure the network path in the CMS to exact same physical storage location where corresponding secondary storage drive from local VMS server is configured.

Whenever CMS server tries to access secondary storage for any of the cameras, (either directly from CMS server or from connected CMS client); it will use the related network path in CMS server

Note – this option will work only when the network path is accessible from CMS server computer. You will have to provide user credentials to access the network path. If network path is configured for accessing without user name and password, please keep username and password BLANK.

(c) **Network path direct access** – In this mode, each of the secondary recording drive configured in the local VMS server has a network path defined for it in the CMS server. The configuration is same as that for the 'Network path from CMS' option.

The only difference in this mode is that, when connected CMS client software accesses secondary storage data, it will directly connect to the secondary storage using the configured network path. CMS server will not be involved in the access of the secondary storage from CMS client

Note – this option will work only when the network path is accessible from CMS client computer. You will have to provide user credentials to access the network path. If network path is configured for accessing without user name and password, please keep username and password BLANK.



9. Configuration for 'Mapped drive from CMS' mode -

🕘 Seco	ndary Storag	je Settings				×				
VM VM	VMS Name: 151 (Site_74867A59E2FD) VMS IP: 192.168.1.151									
	Access see	condary storag	e through CMS	server						
	Access mode: Mapped drive from CMS									
	VMS recording drive: Y:\ ~   Map to drive: Z:\ ~									
	List of	mapped drives		11	ch l					
	1 1	Sr No. VMS recording drive Mapped to Channels mapped   1 Y:\ Z:\ 2								
	Total ch Channe	nannels configu els configured v	red from select	ted VMS: 16 v storage: 2						
	Channe	els mapped: 2 els to be mappe	ed: O							
			0	0						

The 'VMS recording drive' drop-down shows all secondary recording drives configured in the target VMS server.

The 'Map to drive' drop-down shows all drives available on the CMS server.

Select 'VMS recoding drive' and 'Map to drive'

These selected drives are expected to be associated with exactly same physical location on the secondary storage.

Click on the 'Add' button to add the pair to the mapped drives list.



Similarly add 'VMS recoding drive' and 'Map to drive' pairs for other secondary recording drives available in the VMS server.

When all secondary recording drives from the selected VMS server are associated with the drives from the CMS server computer, the 'Channels to be mapped' status at the bottom of the page will display 0. This indicates that configuration is complete.

Click on OK button to complete the configuration.

The information on the 'Status->Local VMS' page will be updated to display the current configuration done.

192.168.1.152	$\overline{2}$	Statu	us → Local VMS			
CMS 01	$\overline{\mathcal{O}}$					
Device groups	^		ist of configured Local VMS s	ervers'		
Alarm groups			List of configured Local VHS 3			
Status			Secondary storage channe	els Access secondary storage	through CMS server Second	ary
Channel status	- 1		2	Mapped drive from CMS	2	
Recording status						-
Bandwidth status						
Video analytics status						-1
Storage space	- 1					-
Video parameters						
Camera parameters	- 1					
Connected clients						
Phone communication						
SD card						
Diagnostic tests						
Local VMS						
Local VMS (Push Mode)						
Alarms report			<			>
Disk usage		(	S 🗋 📦 📃		😳 🚱 🕻	
Memory allocations						-
Motion Detection						
Reports and Export						



10. Configuration for 'Network path from CMS' mode -

Secondary Sto	rage Set	ttings			×					
VMS N VMS IP	VMS Name: 151 (Site_74867A59E2FD) VMS IP: 192.168.1.151 Access secondary storage through CMS server									
Acces	Access mode: Network path from CMS									
	VMS r Map tr L	recording drive: Y o network path: Jser Name: Password:	Y:\ v \\192.168.1.244\FShared\ user1 ••••••							
L	List of mapped drives:									
-	Sr No.	VMS recording drive	Mapped to	User Name	c					
	1	Y:\	\\192.168.1.244\FS	user1	2					
To Ch Ch Ch	tal cha nannel nannel nannel	annels configured from s configured with seco s mapped: 2 s to be mapped: 0	selected VMS: 16 ondary storage: 2		, )					
			00							

The 'VMS recording drive' drop-down shows all secondary recording drives configured in the target VMS server.

Select 'VMS recoding drive'. Specify 'Map to network path' by using browse button (...) or you can type network path in the text box provided.



The selected VMS secondary storage recording drive and the specified network path are expected to be associated with exactly same physical location on the secondary storage.

Also, you need to provide Windows login credentials (user name and password) will be used to authenticate when access the mentioned network path is done.

Click on the 'Add' button to add the pair to the mapped drives list. This will validate user credentials to access the path. Once access is successful, it will add path to the mapped drives list. If authentication fails, it will report such error.

Similarly add 'VMS recoding drive' and 'Map to network path' pairs for other secondary recording drives available in the VMS server.

When all secondary recording drives from the selected VMS server are associated with the network paths, the 'Channels to be mapped' status at the bottom of the page will display 0. This indicates that configuration is complete.

Click on OK button to complete the configuration.

The information on the 'Status->Local VMS' page will be updated to display the current configuration done.



11. Configuration for 'Network path direct access' mode -

Secondary St	torage Se	ttings			×					
VMS I VMS I	Name: 1 IP: 192. cess sec	151 (Site_74867A59E2 168.1.151 condary storage throu	2FD) gh CMS server							
Acce	Access mode: Network path direct access									
	VMS Map t	recording drive: to network path: User Name: Password:	Y:\ v \\192.168.1.244\FShared\ user1 ••••••							
	List of r	napped drives:								
	Sr No.	VMS recording drive	Mapped to	User Name	с					
L	1	Y:\	\\192.168.1.244\FS	user1	2					
	< Total cha Channel Channel Channel	annels configured from Is configured with sec Is mapped: 2 Is to be mapped: 0	n selected VMS: 16 ondary storage: 2		,					
			0							

The 'VMS recording drive' drop-down shows all secondary recording drives configured in the target VMS server.

Select 'VMS recoding drive'.

Specify 'Map to network path' by using browse button (...) or you can type network path in the text box provided.



The selected VMS secondary storage recording drive and the specified network path are expected to be associated with exactly same physical location on the secondary storage.

Also, you need to provide Windows login credentials (user name and password) will be used to authenticate when access the mentioned network path is done.

Click on the 'Add' button to add the pair to the mapped drives list. This will validate user credentials to access the path. Once access is successful, it will add path to the mapped drives list. If authentication fails, it will report such error.

Similarly add 'VMS recoding drive' and 'Map to network path' pairs for other secondary recording drives available in the VMS server.

When all secondary recording drives from the selected VMS server are associated with the network paths, the 'Channels to be mapped' status at the bottom of the page will display 0. This indicates that configuration is complete.

Click on OK button to complete the configuration.

The information on the 'Status->Local VMS' page will be updated to display the current configuration done.

12. The 'Playback', 'Export' and 'Video search' buttons available at the bottom right corner on the 'Status->Local VMS' page can be used to access and test the secondary storage data as per the user specified access mode.



## CMS client software configuration

- 1. Install 'Security Management System Client' software.
- 2. Execute 'Security Management System Client' software using the desktop shortcut or the programs menu shortcut
- 3. In the login screen, please specify CMS server IP address, and CMS user login name and password.

to act accurry me	inagement system -	cheft (oser=op,Fittinege=o	perator) - (ccrv keyboard scre	ren index 1)					U ^	
ion Lay	out Na ®	ivigation Settin	gs Screens Live screens Playback ec	Active alarms	s Video Panorama	Help		Live video Current time: 2017/		
unity Management Sy CMS 01 (192.168 Device groups CG_AllCha CG_AllCha CG Car Car Car Car Car Car Car Car	*tem 3.1.152) ; mnets m37117 m37118 m37119 m37120 m37121	1-	Any Streen Search alan Export vide Search baol Object cour In Search alan Video searc Secondary I Secondary I	kmarks o kmarks string reports m images h storage storage - CMSP f insaction search f	2- Infinova <sup>®</sup> Playbadt Ervore videa		3-	3- Infinova*		
Con1712 Con1712 Con1712 Con1712 Con1712 Con1712 Con1712 Con1712 Con1712 Con1712 Con1712 Con1712 Con1712 Con1712 Con1712 Con1712 Con1712		•	LPR Monitor	Screen	Infinova <sup>®</sup>		D-	Infinova <sup>6</sup>		
		Infinova*			a: Infinova*		9.	₽- Infinova®		
0									Notification	
Alarm Type	Alarm Name	Alarm time	Site Name	Source ID	Source Name	Generator ID	Primary Channel I			
	Annu Type	Auronet System Second	Layout Navigation Setter   Image: Setter Setter Setter Image: Setter Setter Image: Setter Setter Image: Setter Setter   Image: Setter Setter Image: Setter Setter Image: Setter Setter Image: Setter Setter Image: Setter Setter   Image: Setter Setter Image: Setter Setter Image: Setter Setter Image: Setter Setter Image: Setter Setter   Image: Setter Setter Image: Setter Setter Image: Setter Setter Image: Setter Setter Image: Setter   Image: Setter Setter Image: Setter Setter Image: Setter Setter Image: Setter Image: Setter   Image: Setter Setter Image: Setter Image: Setter Image: Setter Image: Setter   Image: Setter Image: Setter Image: Setter Image: Setter Image: Setter   Image: Setter Image: Setter Image: Setter Image: Setter Image: Setter   Image: Setter Image: Setter Image: Setter Image: Setter Image: Setter   Image: Setter Image: Setter Image: Setter Image: Setter Image: Setter   Image: Setter Image: Setter Image: Setter Image: Setter Image: Setter   Image: Setter Image: Setter Image: Setter Image: Setter Image: Setter   Image: Setter <td>Dot Layout Navigation Settings Screens   Use Screens Image: Screens Image: Screens Image: Screens Image: Screens   Use Screens Image: Screens Image: Screens Image: Screens Image: Screens   Use Screens Image: Screens Image: Screens Image: Screens Image: Screens   Use Screens Image: Screens Image: Screens Image: Screens Image: Screens   Use Screens Image: Screens Image: Screens Image: Screens Image: Screens   Use Screens Image: Screens Image: Screens Image: Screens Image: Screens   Use Screens Image: Screens Image: Screens Image: Screens Image: Screens   Use Screens Image: Screens Image: Screens Image: Screens Image: Screens   Use Screens Image: Screens Image: Screens Image: Screens Image: Screens   Use Screens Image: Screens Image: Screens Image: Screens Image: Screens   Use Screens Image: Screens Image: Screens Image: Screens Image: Screens   Use Screens Image: Screens Image: Screens Image: Screens Image: Screens   Use Screens Image: Screens Image: Screens Image</td> <td>Dot Layout Navigation Settings Screent Active alarm   City Manual Lytem Image: City Manual Lytem</td> <td>On Layout Navigation Settings Screens Active alarms Video Panorama   City Manual System Image: Settings &lt;</td> <td>Dot Layout Navigation Settings Greens Active alarms Video Panoram. Help   City Manual Lysin Image: City Manua Lysin Image: City Manual Lys</td> <td>Dot Layout Navigation Settings Cerems Active alarms Video Panorana Help   Cite Alarma Image: Cite Alarma<td>Non-Layout Navigation Settings Screents Active alarms Video Parorana Heb   Image: Settings Image: Setting</td></td>	Dot Layout Navigation Settings Screens   Use Screens Image: Screens Image: Screens Image: Screens Image: Screens   Use Screens Image: Screens Image: Screens Image: Screens Image: Screens   Use Screens Image: Screens Image: Screens Image: Screens Image: Screens   Use Screens Image: Screens Image: Screens Image: Screens Image: Screens   Use Screens Image: Screens Image: Screens Image: Screens Image: Screens   Use Screens Image: Screens Image: Screens Image: Screens Image: Screens   Use Screens Image: Screens Image: Screens Image: Screens Image: Screens   Use Screens Image: Screens Image: Screens Image: Screens Image: Screens   Use Screens Image: Screens Image: Screens Image: Screens Image: Screens   Use Screens Image: Screens Image: Screens Image: Screens Image: Screens   Use Screens Image: Screens Image: Screens Image: Screens Image: Screens   Use Screens Image: Screens Image: Screens Image: Screens Image: Screens   Use Screens Image: Screens Image: Screens Image	Dot Layout Navigation Settings Screent Active alarm   City Manual Lytem Image: City Manual Lytem	On Layout Navigation Settings Screens Active alarms Video Panorama   City Manual System Image: Settings <	Dot Layout Navigation Settings Greens Active alarms Video Panoram. Help   City Manual Lysin Image: City Manua Lysin Image: City Manual Lys	Dot Layout Navigation Settings Cerems Active alarms Video Panorana Help   Cite Alarma Image: Cite Alarma <td>Non-Layout Navigation Settings Screents Active alarms Video Parorana Heb   Image: Settings Image: Setting</td>	Non-Layout Navigation Settings Screents Active alarms Video Parorana Heb   Image: Settings Image: Setting	

4. Client software main screen will be visible after successful login.

- 5. The 'Screens -> Secondary storage' menu can be used to access secondary storage data through the associated VMS server. Playback, Export video and Video search sub-menus are available under this menu.
- 6. The 'Screens -> Secondary storage CMS' menu can be used to access secondary storage data through CMS server, as per the secondary storage access mode configured in the CMS server. Playback, Export video and Video search submenus are available under this menu.