

Security Management System Central Monitoring Station with Push Mode Connectivity

Introduction

Security Management System supports distributed deployment architecture, which involves -

- (a) Central Monitoring Station
- (b) Clients connected to central monitoring station
- (c) Local sites which use VMS software or Embedded VMS device
- (d) Local clients



The Security Management System include unique feature where local VMS sites do not require static IP address for communication with the central monitoring station.

The central monitoring station has static IP address (or port forwarding enabled on its router) and connects to the local VMS sites with 'push mode'.

The central monitoring station can manage multiple local VMS sites.

This document describes the Security Management System configuration for push mode connectivity.

Security Management System - Central Monitoring Station with Push Mode Connectivity



Step 1 - Configuring Local VMS Site

- 1. Please install Security Management System server software on the local VMS site computer.
- 2. Navigate to the 'CMS Configuration -> CMS for push mode' page from the left hand side navigation links
- 3. Click on 'Add' button. This will pop up the 'Add CMS' dialog box.

192.168.0.66	2	CMS Config	uration → CMS for p	oush mode	
Site_645A04B1213C	2	_			
Video devices	^		<		
Audio devices					
Device groups		Sr No.	CMS IP	Port number	Status
Status					
Reports and Export					
Communication				Add CMS	X
Security devices					
Keyboards and Joysticks			CMS IP add	ress: 119 .	9 . 104 . 210
Users and Privileges					
Alarm management			TCP Port nu	mber: 5500	
Data management					
Remote backup					
Tasks					
Linked servers					
Server settings					
CMS Configuration		Noto: Th			wara is expected to
CMS for push mode		commun	icate with the Cen	tral Monitoring Statio	n(s) using 'push mode'
Video panorama					
Under Vehicle Surveillance	~				

- 4. Type 'CMS IP address' and click on the 'Add'. This is the IP address used by the the Central Monitoring Station (CMS) software.
- 5. This will link the VMS software to the CMS. The CMS will be displayed in the list now. The 'status' column displays the status of connection between the VMS and the CMS. Please click on the 'refresh' button to refresh the status.
- 6. Click on the 'Edit' button available next to the site name text at the left-top.

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- 7. Note the 'Site ID' mentioned on the 'Update Site ID and Site name' dialog box.
- 8. Click on the 'cancel' button to close the dialog box.
- 9. Add channels to the software for monitoring. The added channels will be listed in the 'Video devices -> Channels' page



192.108.0.00	4	vide	o devic	es - channels						
Site_645A04B1213C	2			L 🔉 💉	a 🔬 💼			00	00	
Video devices	^			F 👱 🖉	P	10	\sim	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	X	
Channels			Sr No	Channel Name	Channel ID	Description	Video	Parameter1	Dist	
Cam164			1	Cam164	VC_Cam164	Cam164	Video	F:\SoftwareV	320	
Cam184		-	2	Cam184	VC_Cam184	Cam184	Infino	192.168.1.103	352	
Cam185			3	Camil85	vC_Camitas	Camiloo	March	192.108.1.102	/20	
Sequences										
Audio devices										
Device groups										
Status										
Reports and Export		-								
Communication										
Security devices										
Keyboards and Joysticks										
Users and Privileges										
Alarm management										
Data management			/							Ļ
Remote backup		Ľ							/	· ·
Tasks										
Linked servers	~									

10. Note the channel names displayed under 'Channel Name' column.

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Step 2 – Configuring Central Monitoring Station (CMS)

- 1. Please arrange for a computer which has static IP address (or is exposed on internet through port forwarding). Any computer on internet should be able to connect to this computer. This computer will host the Central Monitoring Station (CMS) software
- Please install Security Management System server software on the CMS computer. (Note – 'Security Management System server software' works as CMS and no separate software is required)
- 3. Note the IP address, displayed in the left-top corner. If this IP address is not the static IP address, click on the 'Edit' button available next to the IP address text and select the target IP address

119.9.104.210	Video d	evices → Channels					
Site_BC764E1C2961						00 00	
Video devices		' 🐨 🚨 🖉	J 🖉	10	<u>~</u>	7	
In Channels	Sr	No. Channel Name	Channel ID	Description	Video Stream Type	Parameter	
Cam001	1	Cam001	VC_Cam001	Cam001	Video Clip	C:\Prograr	-
	2	Cam002	VC_Cam002	Cam002	Video Clip	C:\Prograr	
Cam002	3	Cam006	VC_Cam006	Cam006	SMS Server (loca	Site_645A	
Cam006	4	Cam007	VC_Cam007	Cam007	SMS Server (loca	Site_645A	
Cam007	5	Cam008	VC_Cam008	Cam008	SMS Server (loca	Site_0022	
= ==	6	Cam009	VC_Cam009	Cam009	SMS Server (loca	Site_0022	
Cam008							
Cam009							
Sequences							
Audio devices							
Device groups							
Status							_
Reports and Export							
Communication							
Security devices							
Keyboards and Joysticks							÷

 Navigate to the 'Status -> Local VMS (Push Mode)' page from the left hand side navigation links. Make sure that Site ID of the local VMS site configured in Step 1 is listed and its status is displayed as 'active connection'

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119.9.104.210	2	Status → Lo	cal VMS (Push Mode)		
Site_BC764E1C2961	2				
Video devices	^	List of o	onnected Local VMS (push mod	le) components:	
Audio devices					
Device groups		Sr No.	Local VMS (Push Mode) ID	Local VMS (Push Mode) IP	Status
Status		1	SILE_045A04B1213C	1/5.100.143.110	Last communication at: 20.
Channel status					
Recording status	≡				
Video analytics status					
Bandwidth status					
Storage space					
Video parameters					
Camera parameters					
Connected clients					
Phone Communication					
SD Card					
Diagnostic Tests					
Local VMS (Push Mode)					
Reports and Export		<		Ш	>
Communication					
Security devices	~				

5. Navigate to the 'Video devices -> Channels' page from the left hand side navigation links

119.9.104.210	2	Video devic	es → Channels					
Site_BC764E1C2961	2			a		•		
Video devices	^	<u> </u>	7	J 🖉 📉 🖤	%	×	7 X	
Channels		Sr No.	Channel Name	Channel ID	Description	Video Stream Type	Parameter	
Cam001		1	Cam001	VC_Cam001	Cam001	Video Clip	C:\Prograr	V
C		2	Cam002	VC_Cam002	Cam002	Video Clip	C:\Prograr	
Camuuz		3	Cam006	VC_Cam006	Cam006	SMS Server (loca	Site_645A	
Cam006		4	Cam007	VC_Cam007	Cam007	SMS Server (loca	Site_645A	
Cam007		5	Cam008	VC_Cam008	Cam008	SMS Server (loca	Site_0022	
Cam008	≡	6	Cam009	VC_Cam009	Cam009	SMS Server (loca	Site_0022	
Cam009								
Sequences								
Audio devices								
Device groups								
Status								
Reports and Export								
Communication								
Security devices								
Keyboards and Joysticks		4					>	Ŷ
Users and Privileges								
Alarm management								
Data management	$\overline{}$							

6. Click on 'Add video channel' button. This will pop up the 'Add video channel' dialog box.

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		Add vid	eo channel		×
	Channel Name: Channel ID: Channel Description:	Cam2092 VC_ Car Cam2092	m2092		
	Video Source Type:	SMS Serve	er (local VMS) - Push	Mode	
	Site ID: Channel Name:	Site_0022 Cam2154	2197FCE3A 4		
Display stream 1	1		Display stream 2		
Stream type:	Display Stream1	~	Select stream:	Use different stre	am 🗸
			Stream type:	Display Stream2	~
Recording stream	m		Motion detection	and video analytics	s stream
Select stream:	Use display stream 1	~	Select stream:	Use display stream	m 1 🗸
Stream type:	Display Stream1	~	Stream type:	Display Stream1	~
		4			20

7. Select video source type 'SMS Server (local VMS) – Push Mode'.

Enter 'Site ID'. This is the site ID noted in step 1 point 7, as described in the section above.

Enter 'Channel Name' of the target channel. This should match one of the channel names listed in step 1 point 10, as described in the section above.

Select stream types to match with the stream selection for the target channel, as defined in local VMS.

Click on 'Add video channel' button to complete adding video channel in the CMS software.

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8. Navigate to the 'Users and Privileges -> Users' page from the left hand side navigation links

	-	and the second sec					
ite_BC764E1C2961	2						
Video devices	^						
Audio devices							
Device groups		Sr No.	User Name	Privilege	Enabled	Туре	
Status		1	admin	Administrator	Enabled	In Built	
		2	ор	Operator	Enabled	Configured	
Reports and Export		3	mop	Smartphone Cli	Enabled	Configured	
Communication		4	wop	Web Client	Enabled	Configured	
Security devices	=						
Keyboards and Joysticks							
Users and Privileges							
Users							
admin							
ор							
тор							
wop							
Active directory users							
Privileges							
PTZ priority			1				
Change password							
Marm management	~						

9. Add a user which has 'Operator' privilege.

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Step 3 – Configuring Client Software

- 1. Install Security Management System Client software on any computer with internet connectivity
- 2. Execute the client software
- 3. On the login page, specify IP address of the CMS and specify user name and password for the 'operator' privilege user configured in the CMS

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