

VideoManager EX 16.0 Getting Started with ONStream and Genetec Security Center Guide

This document is intended to serve as a guide for enabling live streams, and configuring VideoManager EX to work with ONStream and the Genetec Security Center system.

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Intended purpose	This document is intended to configuring VideoManager E Security Center system.	This document is intended to serve as a guide for enabling live streams, and configuring VideoManager EX to work with ONStream and the Genetec Security Center system.			
Document ID	ED-009-051-01-NA				
Conventions	This document uses the follo	wing conventions:			
	Convention	Description			
	► For more information	A cross-reference to a related or more detailed topic.			
	[]	Text enclosed in square brackets indicates optional qualifiers, arguments or data.			
	<	Text enclosed in angle brackets indicates mandatory arguments or data.			
Contact address Safety notices	Motorola Solutions Ltd. Nova South, 160 Victoria Str London SW1E 5LB United Kingdom	reet ardous situation which, if not avoided, could result			
		nry, damage the product, or lead to loss of data.			

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1 Welcome to VideoManager EX

Thank you for choosing Motorola Solutions VideoManager EX as your aggregator of evidential-ready media. VideoManager EX is designed as an intuitive browser-based system, requiring minimal training. This document assumes administrative familiarity with VideoManager EX already. For more information, please see the Administrator Guide.

The administrator can connect Security Center to VideoManager EX, using VideoManager EX's ONVIFcompliant interface. This enables VideoManager EX to pass live streams and recordings from body-worn cameras straight to Security Center. To do so, the administrator must configure live streaming and ONStream on VideoManager EX, and then configure Security Center to accept the streams. This document will cover all three steps.

2 Configure Streaming

Body-worn cameras on VideoManager EX should be configured to live stream before users configure ONStream and the Security Center system. These live streams will be automatically passed on to the Security Center system once it has been connected to VideoManager EX. To configure live streams:

1. Configure firewalls.

This step is only necessary if VideoManager EX is configured to use anything other than its default port **or** if VideoManager EX is set up on a public network.

>> For more information, see Configure Firewalls on page 6

2. Configure VideoManager EX's public address.

>> For more information, see Configure VideoManager EX's Public Address on page 8

Create a user-specific WiFi network, if the user will be live streaming over a personal hotspot.

>> For more information, see Create User-Specific WiFi Networks on page 9

4. Create a WiFi profile which can be used for streaming.

>> For more information, see Create a WiFi Profile on page 11

5. Assign the body-worn camera to a user, and begin streaming media.

>> For more information, see Assign a Body-Worn Camera for Streaming on page 13

6. View the live stream.

Here, the administrator can check that their live streams are working before they enable and configure ONStream.

>> For more information, see View Live Streams on page 15

2.1 Configure Firewalls

Sometimes, body-worn cameras will be unable to stream to VideoManager EX without prior firewall configuration. There are two reasons that firewall configuration might be necessary: the user has either changed VideoManager EX's default port, or has connected it to a public network. The steps below differ, depending on which situation applies to the user's instance of VideoManager EX.

If the user has changed VideoManager EX's default web server port, they must create a new inbound rule. This may also be necessary for the ONStream port that the Security Center system will connect to. To do so:

- 1. In the Windows menu, navigate to the *Control Panel* tab.
- 2. Select the System and Security pane.
- 3. Click the Windows Defender Firewall section.
- 4. In the left-hand menu pane, click **Advanced Settings**.
- 5. Select Inbound Rules.
- 6. In the right-hand menu pane, click *New Rule...*.
- 7. Set the rule type to Port, and click Next.

8. In the *Specific Local Ports* section, enter VideoManager EX's port, and click *Next*. This can be found on VideoManager EX, in the *Web Server* section of the *System* pane, in the *Admin* tab.

- 9. Ensure that Allow the connection is checked, and click Next.
- 10. Check the relevant profiles for this rule. If in doubt, leave all checked, and click Next.
- 11. Enter a name for the rule and click *Finish*.

If the user has other firewalls or NAT routers in the network between VideoManager EX and the WiFi network to which body-worn cameras will connect, they must also be configured to allow TCP connections between the body-worn camera and the VideoManager EX server.

If the user has connected VideoManager EX to a public network:

- 1. In the Windows menu, navigate to the Control Panel tab.
- 2. Select the System and Security pane.
- 3. Click the Windows Defender Firewall section.
- 4. In the left-hand menu pane, click **Advanced Settings**.
- 5. Select Inbound Rules, and scroll down until the VideoManager EX Web rule is visible.

A

- 6. Double-click on the rule and in the *Advanced* section, ensure that **Public** is checked.
- 7. Click **OK**.

2.2 Configure VideoManager EX's Public Address

When a body-worn camera connects to VideoManager EX, it does so using VideoManager EX's public address. If the body-worn cameras are connecting to the same IP network as VideoManager EX, users can utilise the same IP address as the VideoManager EX machine.

Administration		Web Server	
🛎 People	>	Web Server Settings	
Devices	>		
중 Connectivity	>	SERVER LISTEN ADDRESS	(all addresses)
Policies	>	PORT	9080
User Interface	>	USE SSL?	OFF
Firmware	>	SSL CERTIFICATE	
≢ System	>		
🖧 Legal	>	PUBLIC ADDRESS	192.168.86.25 GUESS PUBLIC ADDRESS
		PORT	0800

To configure a public address:

- 1. On VideoManager EX, navigate to the *Admin* tab.
- 2. Select the *transformation System* pane.
- 3. Click the **Web Server** section.
- 4. In the *Public address* field, either enter the public address or click *Guess public address* to guess what this address should be.
- 5. Ensure that Use SSL? is set to Off.
- 6. Click Save settings.

VideoManager EX should be configured to use fixed address LAN infrastucture, and operate on a **Private** or **Domain** network, wherever possible.

2.3 Create User-Specific WiFi Networks

It is possible for users to create user-specific WiFi networks which will only appear on their profile and cannot be viewed by other users on the system. These can be added to WiFi profiles later, but they will still be kept private. This is useful if the user has created a mobile phone hotspot for streaming.

[↑] New user-specific WiFi network			
SSID*	Enter SSID		
Security type	WPA2-PSK -		
Passphrase *	Enter passphrase 💿		
Band	Any -		
Use static IP	No		
Disconnect on low signal	Off		
Hidden network	Off		
Cancel	Add		

The steps for creating a user-specific WiFi network differ, depending on whether the user is creating the network for **another user on VideoManager EX or for themselves**.

If the user is configuring a user-specific WiFi network for another user, the steps are as follows:

- 1. Navigate to the *Admin* tab.
- 2. Select the People pane.
- 3. Click the **Lusers** section.
- 4. Next to the user to be edited, click > Go to user.
- 5. In the **?** *WiFi networks* pane, click **Add network**.
- 6. In the *Network name (SSID)* field, enter the name of the WiFi network or hotspot. This cannot be changed later.
- 7. From the **Security type** dropdown, select which security configuration the user-specific WiFi network will use. The options are **WPA2-PSK**, **WPA-PSK**, **WEP**, or **Open**.

- 8. In the *Passphrase* field, enter the passphrase of the WiFi network or hotspot.
- 9. From the *Band* dropdown, select which frequencies the body-worn cameras will attempt to connect to. The options are as follows:
 - Any this option is suitable for all body-worn cameras.
 - 2.4GHz only this option is suitable for all body-worn cameras.
 - **5GHz only** this option is only suitable for VB400s.
- 10. If *Use static IP* is set to *On*, the user must enter the corresponding static IP details.
- 11. If *Disconnect on low signal* is set to *On*, body-worn cameras trying to stream over this network will disconnect from it if its signal is weak.

Users will have the option to define the "weak" signal as a percentage, and the time in seconds that the body-worn camera must be connected to the specified signal level, after which the body-worn camera will disconnect.

12. Click *Add* to save the network.

If the user is creating the user-specific WiFi network for themselves:

- 1. In the top right-hand corner of VideoManager EX, click the 📥 icon.
- 2. Select Account Profile from the dropdown.
- 3. In the **?** User-specific WiFi networks pane, click **Add network**.

4. In the *Network name (SSID)* field, enter the name of the WiFi network or hotspot. This cannot be changed later.

- 5. From the *Security type* dropdown, select which security configuration the user-specific WiFi network will use. The options are **WPA2-PSK**, **WPA-PSK**, **WEP**, or **Open**.
- 6. In the Passphrase field, enter the passphrase of the WiFi network or hotspot.
- 7. From the *Band* dropdown, select which frequencies the body-worn cameras will attempt to connect to. The options are as follows:
 - Any this option is suitable for all body-worn cameras.
 - 2.4GHz only this option is suitable for all body-worn cameras.
 - **5GHz only** this option is only suitable for VB400s.
- 8. If **Use static IP** is set to **On**, the user must enter the corresponding static IP details.
- 9. If **Disconnect on low signal** is set to **On**, body-worn cameras trying to stream over this network will disconnect from it if its signal is weak.

Users will have the option to define the "weak" signal as a percentage, and the time in seconds that the body-worn camera must be connected to the specified signal level, after which the body-worn camera will disconnect.

10. Click *Add* to save the network.

2.4 Create a WiFi Profile

Administrators must create a WiFi profile which is suitable for live streams. A WiFi profile is a collection of WiFi networks, one of which a body-worn camera must connect to before it can live stream.

4 Back		WiFi profile actions :	•	>)
ন্ন Create WiFi Profile				
Details				
Name	Enter name			
Default profile	No			
Wireless Networks				
User-specific networks	No			
Networks	Add network			

To create a WiFi profile:

1. Navigate to the *Admin* tab.

-`Ċ´-

- 2. Select the **?** Connectivity pane.
- 3. Click the **?** WiFi Profiles section.
- 4. Click **Create wifi profile** in the top right-hand corner.
- 5. Enter the following information for the WiFi profile (this will apply to all body-worn cameras which use the profile in question):
 - In the *Name* field, enter a name for the WiFi profile.
 - Ensure that **Default profile** is set to **On**.

This ensures that, regardless of how body-worn cameras are assigned, they will always have access to this WiFi profile.

• If the administrator has already created user-specific WiFi networks, they can be added to the WiFi profile by setting *User-specific networks* to *On*.

>> For more information, see Create User-Specific WiFi Networks on page 9

• To add a new network to the WiFi profile, click **#** Add network.

The administrator should enter the WiFi network's information. Unlike user-specific WiFi networks, this WiFi network will be used by all body-worn cameras in this WiFi profile, regardless of the users to which they have been assigned.

 If VB100s, VB200s, VB300s, or VB400s will be streaming, scroll down to the VB300/VB400 section set Enable streaming to On.



2.5 Assign a Body-Worn Camera for Streaming

Users can now operate a body-worn camera and live stream the media back to VideoManager EX. The steps differ, depending on how the body-worn camera will be assigned.

To assign a VB400 to a user through **single issue and RFID**, the user should tap their RFID card against the RFID reader associated with VideoManager EX. In the pool, a VB400's LEDs will light up and it will emit a beep. The user can undock and operate this body-worn camera. For more information, please see the Administrator Guide.

To assign a VB400 to a user through Single issue, Permanent issue, or Permanent allocation:

- 1. Navigate to the *Devices* tab.
- 2. Select the **Q** Search Devices pane.
- 3. Filter the body-worn cameras as necessary, and click *Find devices*.
- 4. Find the relevant VT100 or VB400, and click **4** Assign Device next to it.

ò-	This body-worn camera must be connected to VideoManager EX and unassigned. To
e e	unassign a body-worn camera, click Return Device .

The Assign Device dialogue opens.

- 5. In the *Operator name* field, enter the name of the user who will be recording with this body-worn camera. This must be a valid username on VideoManager EX.
- 6. Select which *Assignment mode* the body-worn camera will use.
 - **Single issue** the body-worn camera will be assigned to a user and when it is redocked, it will become unassigned and must be reassigned manually.
 - **Permanent issue** the body-worn camera will be assigned to the user and when it is redocked, it will stay assigned to the same user.
 - **Permanent allocation** the body-worn camera will be allocated to a user, who must then tap an RFID card before they can use it in the field. When it is redocked, it will stay allocated to the same user.

If **Permanent allocation** has been chosen, the user will **not** be able to select the relevant device profile and WiFi profile. However, this is not an issue - the default VideoManager EX device profile is suitable for streaming, and the WiFi profile should have already been set as the default.

-☆- If the WiFi profile has not already been set as the default, navigate to the Admin tab, select the **Connectivity** pane, click the **WiFi Profiles** section, click **Go to profile** next to the newly created WiFi profile, and set **Default profile** to **On**.

If **Single issue** or **Permanent issue** have been chosen, the user must do the following:

- 1. From the *Device profile* dropdown, select the default device profile.
- 2. From the *WiFi profile* dropdown, select the previously-created WiFi profile.
- 3. Click Assign Device.

Wait until the body-worn camera's status changes to *Ready*. At this point, the body-worn camera can be undocked and users can start streaming from their body-worn camera.

2.6 View Live Streams

Once streaming has been configured, a suitable body-worn camera has been assigned to a user, and the body-worn camera has started recording, the administrator should check that the live stream is working properly before enabling ONStream and connecting the Security Center system to VideoManager EX.



To view a body-worn camera's live stream:

- 1. Navigate to the *Devices* tab.
- 2. Next to the streaming body-worn camera, there will be two alerts one will say *Rec* and one will say *Live*. Click *View live*.
- 3. This will take the user to a page where they can view the live stream.



Only users with the permission to view body-worn cameras live can see live streams. However, even with this permission, they can only see live streams from body-worn cameras they have permission to view (this could be body-worn cameras they own, body-worn cameras they supervise, or all body-worn cameras).

4. Once a live stream has stopped, the screen will go blue and there will be a message reading *Device not streaming*.

3 Configure ONStream on VideoManager EX

Before the Security Center system can be configured, ONStream must be configured and enabled from VideoManager EX. To do so:

1. Enable ONStream on VideoManager EX, with a licence.

This step is only necessary if the user is running VideoManager EX version 14.2 or earlier.

>> For more information, see Enable ONStream on page 17

 Configure ONStream settings - these dictate how the Security Center system will connect to VideoManager EX.

>> For more information, see Configure ONStream Settings on page 18

3. Create outputs. These outputs determine how VideoManager EX users and body-worn cameras will be mapped onto the Security Center system.

>> For more information, see Create and Reset Outputs on page 20

3.1 Enable ONStream

From version 14.3 onwards, VideoManager EX enables ONStream by default as long as the user has at least one body-worn camera associated with VideoManager EX. For instances of VideoManager EX which are running version 14.2 or earlier, ONStream must be manually enabled. Users can do this by importing a licence into VideoManager EX. This is done from the *Licences* section of the *System* pane, in the *Admin* tab.

C Administration		Licences	¥ +
😤 People	>	Overall Licence Status	
Devices	>	Licensed features	🛱 No ovning data
중 Connectivity	>	DEVICES	No expiry date.
> Policies	>	ONSTREAM	
User Interface	>		Software assurance ends in 2 months
Firmware	>		
≢ System	>		
🕂 Legal	>		You have no device licences

To import an ONStream licence into VideoManager EX:

- 1. Navigate to the *Admin* tab.
- 2. Select the *i* System pane.
- 3. Click the **Licences** section.
- 4. Click **+** *Import licence*.

Users should select the ONStream licence provided to them by Motorola Solutions.

- 5. Click upload.
- 6. In the *Licensee name* field, enter the name provided by Motorola Solutions.

Caution

If the name entered here does not match the name set by Motorola Solutions, the licence **will not work**.

7. Click confirm.

8. Users will be asked to confirm again, by clicking *import*.

If successful, the licence should appear in the D Licences section as Valid.

3.2 Configure ONStream Settings

When enabled, ONStream presents an ONVIF-compatible interface with both Profile S (live streaming) and Profile G (recording retrieval) capability. ONStream presents live streams from body-worn cameras as channels in one or more ONVIF compatible multi-channel encoders. The administrator must configure ONStream settings on VideoManager EX. This is done from the **ONStream** section of the **Connectivity** pane, in the **Admin** tab.

Administration		ONStream		
🐸 People	>		_	
Devices	>	Enable ONStream	On	
중 Connectivity	>	Video codec	H264	•
≯ Policies	>	Audio codec 🕑	AAC	•
User Interface	>	Authentication mode	None	•
Firmware	>	Multi device mode 🕑	Off	•
≢ System	>	RTSP Port	2000	
🕰 Legal	>	Allow historic footage fetch 🕑	Off	

To configure ONStream:

- 1. Navigate to the *Admin* tab.
- 2. Select the **?** *Connectivity* pane.
- 3. Click the **ONStream** section.
- 4. Set Enable ONStream to On.
- From the Video codec dropdown, select which codec will be used to compress the live streams between devices and the Security Center system. The options are MPEG4 or H264.
- 6. From the *Audio codec* dropdown, select AAC.
- 7. From the *Authentication mode* dropdown, select whether users must enter additional credentials when connecting their instance of VideoManager EX to the Security Center system. The options are as follows:
 - None if selected, no additional authentication will be required.
 - **Basic** if selected, users will be prompted to create a *Username* and *Password* on VideoManager EX.

These credentials must be entered in the Security Center system when it is being configured to connect to VideoManager EX.

8. From the *Multi device mode* dropdown, the administrator can select whether VideoManager EX presents itself as a single multi-channel encoder to their VMS, or multiple encoders. Please see the relevant VMS's documentation for more information.

 In the *RTSP Port* field, the administrator can configure the port that VideoManager EX will use to pass streams to the Security Center system.

By default, this is 554. The administrator may need to change the default port if any software on the same machine as VideoManager EX is using port 554.

This will be the case if the administrator is running the Security Center system on the same machine as VideoManager EX. Motorola Solutions recommends choosing a port above 2000.

10. If *Allow historic footage fetch* is set to *On*, the Security Center system will be given access to **all** media on VideoManager EX and the ability to copy it.

This process will not start until the administrator has also configured the Security Center system to retrieve historic media.

>> For more information, see Configure Archive Transfer on page 32



Caution

Enabling **Allow historic footage fetch** will permit the Security Center system to retrieve restricted media.

- 11. Set Use Automatic Output Assignment to Off.
- 12. Click Save settings.

3.3 Create and Reset Outputs

Outputs determine how streams from individual users and body-worn cameras on VideoManager EX are mapped onto channels in an ONVIF compatible multi-channel encoder. This is done from the **ONStream** section of the **Connectivity** pane, in the **Admin** tab.

i≣ Ou	itputs		+ Create
1		230022	
2		Select a Device	
3		Select a Device	
4		Select a Device	
5		Select a Device	
		Cancol	Save Settings

There must be **one** output for every user OR body-worn camera which will be streaming to the Security Center system. To create an output:

- 1. Navigate to the *Admin* tab.
- 2. Select the **?** Connectivity pane.
- 3. Click the **ONStream** section.
- 4. Scroll to the **E** Outputs section.
- 5. To create outputs, click **+** *Create*.

The Create ONStream outputs window opens.

- 6. Enter the number of required outputs, and click *confirm*.
- 7. Select the type of output to be created. The options are as follows:
 - **Device** if selected, streams will correspond to the body-worn camera specified, regardless of the operator using the body-worn camera.

The user should enter the body-worn camera's serial number. VideoManager EX will suggest serial numbers which match the one entered.

• **Operator** - if selected, streams will correspond to the operator specified, regardless of the body-worn camera used to stream media.

The user should enter the username of an operator on VideoManager EX.

8. Click Save settings.

If the number of outputs should be raised or lowered after the outputs have been created, the outputs should be reset. Preexisting outputs will not be affected if the total number of outputs is raised. However, if the new number is lower than the previous number, a user's outputs will be deleted to match that number. To do so:

- 1. Navigate to the *Admin* tab.
- 2. Select the **?** *Connectivity* pane.
- 3. Click the **B** ONStream section.
- 4. Scroll to the **E** Outputs section.
- 5. Click **X** Reset.
- 6. Enter the new number of required outputs.
- 7. Click confirm.

4 Configure Security Desk

VideoManager EX 16.0 is capable of streaming footage live from body-worn cameras to Genetec's Security Desk system. To support this streaming, VideoManager EX functions as an RTSP server, capable of forwarding these streams to Security Center.

VideoManager EX is configured to form connections with Security Center. These connections exist even when they are not actively streaming, and as such, Motorola Solutions recommends that a suitable number are created, even if not all of these streams will be used immediately. This is because adding or deleting streams requires Security Desk to be reconfigured.

The steps for configuring Security Desk are as follows:

1. Configure the firewall to let Security Desk through.

>> For more information, see Open Firewall Ports for Security Desk on page 24

2. Add VideoManager EX to Security Desk. This will enable administrators to view live streams from Motorola Solutions body-worn cameras on Security Desk.

>> For more information, see Add VideoManager EX to Security Desk on page 25

3. **Optionally** configure media file offload or Clearance, to pass media files or incidents from VideoManager EX to Security Desk or Clearance, respectively.

>> For more information, see Configure Media file Offload or Clearance on page 26

4. If historic media fetch has been enabled on VideoManager EX, configure Security Desk to pull historic media.

>> For more information, see Configure Archive Transfer on page 32

5. **Optionally** configure Security Desk to automatically record incoming live streams from body-worn cameras.

>> For more information, see Configure Security Desk Recording on page 34

6. Optionally rename live streams on Security Desk.

>> For more information, see Rename Body-Worn Camera Live Streams on Security Desk on page 36

7. View live streams on the Security Desk system.

>> For more information, see View Live Streams on Security Desk on page 37

8. Watch recorded media on the Security Desk system.

>> For more information, see Watch Recorded Media on page 38

4.1 Open Firewall Ports for Security Desk

In order to communicate with Genetec Security Desk, VideoManager EX requires that certain ports be opened in the firewall of the computer running it.



To open the relevant firewall ports:

- 1. Open the Windows Control Panel.
- 2. Select System and Security.
- 3. In the *Windows Defender Firewall* section, click *Allow an app through Windows Firewall*.
- 4. Authenticate as an administrator if necessary.
- 5. If the list of apps is greyed out, click Change Settings and click Allow another app....
- 6. In the *Path* field, browse to VideoManager EX's installation location and select *pss_service.exe*.

By default, VideoManager EX's installation location is C:\Program Files (x86)\Motorola SolutionsVideoManager EX\pss_service.exe.

- 7. Click *Network Types...* and select the appropriate type of network (Domain, Public or Private).
- 8. Click OK, then Add and then OK.
- 9. Navigate back to the Windows Defender Firewall section.
- 10. Click Advanced Settings in the left-hand menu pane.
- 11. Select *Inbound Rules* in the left-hand menu pane.
- 12. From the list, select *File and Printer Sharing (Echo Request ICMPv4-In)* and enable it from the right-hand menu pane.

4.2 Add VideoManager EX to Security Desk

Once the firewall is configured to allow live streams from VideoManager EX through to Security Center, VideoManager EX must be added to Security Desk.

it enrollment			
A Start discovery			¢
Unit	IP address 🔺	Status	
Motorola Solutions VideoManager Motorola Solutions			

To add VideoManager EX to Security Desk:

- 1. Open the Security Desk application.
- 2. In the left-hand menu pane, navigate to the Tools tab.
- 3. Click Config Tool.

The tool will open in a separate window.

- 4. In the left-hand menu pane, navigate to the *Tools* tab.
- 5. Click Unit Enrollment.
- 6. Click *Manual Add...* in the bottom right-hand corner.
- 7. Select Video.
- 8. From the *Manufacturer* dropdown, select Genetec Protocol.
- 9. From the *Product Type* dropdown, select All.
- In the *IP Address* field, enter the IP address of VideoManager EX.
 This corresponds to the *Public address* field in the *Web Server* section on VideoManager EX.
- In the *HTTP port* field, enter VideoManager EX's port.
 This corresponds to the *Port* field in the *Web Server* section on VideoManager EX.
- 12. If authentication has been enabled from the **ONStream** section on VideoManager EX, set **Authentication** to Specific. Enter the username and password which was created.
- 13. Click Add and Close.

4.3 Configure Media file Offload or Clearance

VideoManager EX can transfer media files or incidents to Security Desk or Clearance automatically, if the feature has been licensed.

Administration		▲ File Exports
😩 People	>	
Devices	>	Auto file export Off
중 Connectivity	>	
Policies	>	Clearance export On
User Interface	>	Video files coming from the recording devices will be automatically queued up for export to Cenates Clearance. Videos will be stored
Firmware	>	as MP4 files.
≢ System	>	
실호 Legal	>	

The steps for configuring Clearance differ, depending on the type of software the administrator has.

• If the administrator has Security Desk on their PC, they must complete the steps for media file offload.

>> For more information, see Configure Media file Offload on page 27

• If the administrator has Clearance as a cloud service, they must complete the steps for Clearance.

>> For more information, see Configure Clearance on page 29

Once the Security Desk system has been configured, the administrator must import the configuration into VideoManager EX.

>> For more information, see Configure VideoManager EX for Media file Offload or Clearance on page 30



Clearance must have been licenced from Motorola Solutions first.

4.3.1 Configure Media file Offload

VideoManager EX can automatically transfer media files to Security Desk, if the feature has been licenced.

		🎦 📢 🥥Admin@genetecbah) 🚦 Mon 11:05 📃 🖬 🔤 🗙
Search		
Tasks	Ch Config Teol = Video ×	
Private tasks	ing < > III	
Public tasks	Co Search	
Tools	Se ▲ © GENETECEAH ▶ ≣ Archiver ☆ Media Router	
Options	🕂 Add an entity 🔶 Video unit	
About	ang Unit enrollment Show all → @ Alarm @ Video unit Sort by → ∰ Archiver î Wearable Camera Manager	
Log off	✓ Show inactive entities ✓ Area ● Web Client Server % Refresh F5 Marcia Audiany Archiver ● Web-based SDK ● Marcio ● Zone ✓ Zone Marcio ● Web Client Server ● Marcio ● Zone ● Media Gateway ● Marcio ●	

To configure media file offload:

- 1. Open the Security Desk application.
- 2. In the left-hand menu pane, navigate to the *Tools* tab.
- 3. Click Config Tool.

The tool will open in a separate window.

- 4. In the left-hand menu pane, navigate to the Tasks tab.
- 5. Select the *Video* task. If there is already a role in the left-hand pane called *Wearable Camera Manager*, go straight to the next step. If not, perform the following steps:
 - 1. In the left-hand pane, right-click and select Add an Entity.
 - 2. Click Show All, and select Wearable Camera Manager.
 - 3. Give the new role a name, click *Next* through the default values, and click *Create*.
- 6. Double-click the Wearable Camera Manager role.
- 7. In the top navigation bar, navgiate to the *Hardware* tab.
- 8. Under the *Camera Stations* pane, click the + button.

This will create a configuration file which will be imported to VideoManager EX later.

9. Enter a name and click *Apply*.

A configuration file will be created.

10. Next to the new configuration file under the *Actions* pane, click *Go to file location*. This will download it to the administrator's PC.

The administrator can also optionally configure whether media files are only sent from body-worn cameras to Security Desk at certain times of day. To do so:

- 1. On Security Desk, in the left-hand menu pane, navigate to the *Tools* tab.
- 2. Click Config Tool.
- 3. In the left-hand menu pane, navigate to the *Tasks* tab.
- 4. Click Video.
- 5. Expand the *Archiver* section.
- 6. Navigate to the *Resources* tab.
- 7. Click Advanced Settings... in the bottom right-hand corner.
- 8. Set Enable Edge Playback Results to On.
- 9. Click OK.
- 10. In the top navigation bar, click *Archive transfer*.
- 11. Click 🕂 .
- 12. Select Retrieve from edge.
- 13. In the *Name* field, enter a name for the transfer group.
- 14. Below the **Sources** section, click +, and select the body-worn cameras whose media should be transferred.
- 15. Click Add.

-`Ċ́-

16. From the *Recurrance* dropdown, select the desired interval.

All media files must be downloaded to VideoManager EX before this transfer occurs. For this reason, it is recommended that the Security Desk transfer time is set to a few hours after body-worn cameras are initially docked to VideoManager EX.

17. Click Save.

4.3.2 Configure Clearance

If it has been licenced, Clearance allows incidents created on VideoManager EX to be manually exported to the Clearance cloud service. To do so:

- 1. Log in to Clearance in an internet browser.
- 2. Click Configurations.
- 3. Click + in the top right-hand corner.
- 4. Select Service.
- 5. Click Save.
- 6. In the top right-hand corner, click **Download Configuration**. This will create a configuration file which will be imported to VideoManager EX later. The file will be downloaded to the administrator's PC.

4.3.3 Configure VideoManager EX for Media file Offload or Clearance

Once a configuration has been created, either from Security Desk or the Clearance cloud service, it must be imported into VideoManager EX. After this, it is possible to configure VideoManager EX to pass media file and incidents to Security Desk or the Clearance cloud service, respectively.

Administration	
😩 People	>
Devices	>
중 Connectivity	>
Policies	>
User Interface	>
Firmware	>
幸 System	>
🖧 Legal	>

To import the previously downloaded configuration to VideoManager EX:

- 1. Navigate to the *Admin* tab.
- 2. Select the **?** *Connectivity* pane.
- 3. Click the **Clearance** section.
- 4. Click + *Import configuration*, and select the config file downloaded from Security Desk/Clearance.
- 5. Click import.

Once the configuration has been imported, exports should be configured so the correct information is passed onto Security Desk/Clearance. These steps differ, depending on whether the administrator has VideoManager EX on their PC or as a cloud service.

If the administrator has Security Desk on their PC:

- 1. On VideoManager EX, navigate to the *Admin* tab.
- 2. Select the **Policies** pane.
- 3. Click the **1** *File Exports* section.
- 4. Set *Clearance export* to *On*. This means that all media files downloaded to VideoManager EX will be automatically transferred to Security Desk.

This is mutually exclusive with File Exports - media files can either be sent to the path -ờ́determined by File Exports, or to Security Desk, but not both.

5. If the administrator has configured the deletion policy so that old media is automatically deleted, they must also configure it to ensure that media is not deleted from

VideoManager EX until it has been sent to Security Desk. To do so, navigate to the *Admin* tab, select the *Policies* pane, and click the *Deletion Policy* section. Set *Keep footage until auto file export complete* to *On*.

This is useful because, if VideoManager EX cannot connect to Security Desk in order to transfer media, non-exported media will be kept despite the deletion policy until it can be exported.

If the administrator has Clearance as a cloud service:

- 1. On VideoManager EX, navigate to the *Admin* tab.
- 2. Select the *Policies* pane.
- 3. Click the **1** Incident Exports section.
- 4. Click Create new export profile.
- 5. From the *Type* dropdown, select Clearance.

Now, whenever an incident is being exported, the administrator can choose the *Clearance* export profile - instead of downloading the incident to the PC, it will be sent straight to the cloud.

6. Optionally, set *Export incident on create* to *On*. This means that whenever an incident is created on VideoManager EX, a copy is automatically exported to Clearance.

4.4 Configure Archive Transfer

It is necessary to configure archive transfer if *Allow historic footage fetch* has been set to *On* on VideoManager EX. The administrator must configure which body-worn cameras will have their historic media pulled to Security Desk.

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Archiver		Advanced settings		×	J	
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ア Media Gateway		Digital signature:	OFF		L	
茾 Media Router	Database					
🐝 Unit Assistant	Database status: 🧊 Conr	Delete oldest files when disks are full:	UN			
Wearable Camera Manager	Database server: (local)\S	Enable edge playback requests:	ON			
	Database: Archive	Enable thumbnails requests:				
	Actions: 🕂 Crea	Enable archive consolidation:	O OFF			
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	Database security	Max archive transfer throughput:	0 -	- mbps 🕡 0 = No limit	I	
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	Recording	Maximum length: 20 <table-cell-rows> min.</table-cell-rows>				

To configure archive transfer:

- 1. Open the Security Desk application.
- 2. In the left-hand menu pane, navigate to the *Tools* tab.
- 3. Click Config Tool.
- 4. In the left-hand menu pane, navigate to the Tasks tab.
- 5. Click Video.
- 6. Expand the *Archiver* section.
- 7. Navigate to the *Resources* tab.
- 8. Click *Advanced Settings...* in the bottom right-hand corner.
- 9. Set Enable Edge Playback Results to On.
- 10. Click OK.

Next, the administrator can immediately transfer their historic media to Security Desk. To do so:

- 1. In Security Desk, in the left-hand menu pane, navigate to the *Tools* tab.
- 2. Click Config Tool.
- 3. In the left-hand menu pane, navigate to the *Tasks* tab.
- 4. Click Video.

- 5. In the top navigation bar, click *Archive transfer*.
- 6. In the bottom right-hand corner, click *Transfer now*.
- 7. Below the **Sources** section, click +, and select the body-worn cameras whose historic media should be transferred.
- 8. In the *Time range* field, configure which media files will be transferred, determined by when they were recorded.
- 9. Click Start.

The transfer will start immediately. Because media files are copied to Security Desk, not moved, the original media files on VideoManager EX will still be subject to VideoManager EX's deletion policies, and the copied media files will be subject to Security Desk's deletion policies.

4.5 Configure Security Desk Recording

It is possible to configure Security Desk to record the live streams from body-worn cameras automatically.

🚓 Config Tool 🖉 🐨 Video 💦 😒 System 🛛 🗙							
💽 General settings 🞽 Roles 🗰 Schedules 👼 Scheduled tasks 🚿 Macros 🛱 Output behaviors < 🔉 🛤							
Ę	Custom fields	Domain: All			•		
Events		Entity name: Search			•		
		Entity	Event	Action	Arguments	Details	Schedule
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0		When:	Streaming Started				
User password settings							
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5	Audio	Action:	Stop recording		a l		
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To configure Security Desk to record live streams, the administrator must create two actions: one which prompts Security Desk to start recording the live stream, and one which prompts it to stop. To do so:

- 1. Open the Security Desk Config Tool.
- 2. In the left-hand menu pane, navigate to the Tasks tab.
- 3. Click System, then General Settings.
- 4. Select *Actions*, and click +.
- 5. From the When: ... occurs dropdown, select Streaming Started.
- 6. From the *From:* dropdown, select a body-worn camera connected to VideoManager EX.
- 7. From the Action: drodpown, select Start recording.
- 8. From the Camera: dropdown, select the same body-worn camera.
- 9. From the *Recording duration:* drodpown, select Infinite.
- 10. Click Save.
- 11. In the same pane, click + again.
- 12. From the When: ... occurs dropdown, select Streaming Stopped.
- 13. From the *From:* dropdown, select the same body-worn camera as in the previous action.
- 14. From the *Action:* drodpown, select **Stop recording**.
- 15. From the *Camera:* dropdown, select the same body-worn camera.

- 16. From the *Stop in:* drodpown, select **Specific**. Enter *15 seconds* to ensure no media is lost.
- 17. Click Save.

4.6 Rename Body-Worn Camera Live Streams on Security Desk

By default, the live streams added to Security Desk will have the naming convention *Motorola Solutions VideoManager EX Camera (number)*, where *(number)* is the output number on VideoManager EX associated with this live stream. The administrator can optionally change this, in the Config Tool.



To rename a body-worn camera live stream on Security Desk:

- 1. Open the Security Desk Config Tool.
- 2. In the left-hand menu pane, navigate to the Tasks tab.
- 3. Click Video.
- 4. Expand the Archiver section.
- 5. Expand the *Motorola Solutions VideoManager EX* input. This will show a list of the outputs configured on VideoManager EX.
- 6. Double click the relevant live stream name in the left-hand menu pane. The live stream's information will open in the main pane.
- 7. In the Name field, rename the live stream.
- 8. Click **✓** Apply.

Repeat this process for as many live streams as necessary.

4.7 View Live Streams on Security Desk

Once the previous configuration has been completed, administrators can view live streams from body-worn cameras in Security Desk.



To view live streams:

- 1. Open the Security Desk application.
- 2. In the left-hand menu pane, navigate to the *Tasks* tab.
- 3. Click the *Monitoring* task.
- 4. Either drag an output (body-worn camera) from the left-hand menu pane into a free tile, or double-click the output. This will open it in the next free tile.

To change the number of live streams presented simultaneously, click *Change tile pattern*. Here, the administrator can select one, four, nine, or sixteen tiles.

To remove a live stream, right-click on its tile and select *Clear*.

4.8 Watch Recorded Media

If the administrator has enabled **media file offload**, **live stream recording**, or **historic footage fetch**, all recorded media from body-worn cameras can be viewed from the *Archive* tab on Security Desk.

Cameras	🧱 Export report 🛛 🚔 Print report 🗧 🕌 Add to dashboard	0 items
Search \Upsilon	Camera Start ti • End time Preview Thumbnails Recording percentage	Origin type
DESKTOP-1011DOO 230082 230082 Motorola Solutions VideoManager - Camera - 0 Motorola Solutions VideoManager - Camera - 0 Motorola Solutions VideoManager - Camera - 0		
All available Time range Motorola Solutions VideoManager - Camera - 02	1 230082	
	No recorded video at this time.	

To watch recorded media on Security Desk:

- 1. Open the Security Desk application.
- 2. In the left-hand menu pane, navigate to the Tasks tab.
- 3. Click Archives.
- 4. In the left-hand menu pane, select the camera whose media should be accessed.
 - If the administrator has configured video offload or historic footage fetch, select a camera which has a body-worn camera icon.
 - If the administrator has configured live stream recording, select a camera which has a CCTV icon. This corresponds to an output on VideoManager EX.
- 5. Select the *All available* tab (to show all available records from the selected camera, broken down by date) or the *Time range* tab (to choose a specific time period).
 - If All available has been selected, choose a date.
 - If *Time range* has been selected, optionally add more cameras to the report, and choose a time period to cover.
- 6. Click Generate report.

This will return a list of all recorded media corresponding to the camera(s) and time(s) specified.

5 Glossary

Α

Assigned/Unassigned

If a body-worn camera has been assigned, it has been paired with a user and can record footage. An unassigned body-worn camera has not been paired with a user, and cannot record footage until it has been assigned.

D

Display Name

The name of a user that will be presented to others on the VideoManager system - this is not necessarily the same as a username.

L

Licence

Some features on VideoManager are not available unless a licence has been obtained from Motorola Solutions. Such features include assisted redaction, Tactical VideoManager, and ONStream.

0

ONStream

A licensed feature from Motorola Solutions which enables body-worn cameras to send a live stream to VideoManager over WiFi.

ONVIF

ONVIF is an open industry forum that provides and promotes standardized interfaces for effective interoperability of IP-based physical security products.

Ρ

Permanent allocation

If a body-worn camera has been assigned to a user with permanent allocation, it will be assigned to the user permanently, even when it is redocked. It does not need to be reassigned every time the user wishes to use it. Unlike permanent issue, the user can only use the body-worn camera with RFID touch assign.

Permanent issue

If a body-worn camera has been assigned to a user with permanent issue, it will be assigned to the user permanently, even when it is redocked. It does not need to be reassigned every time the user wishes to use it.

Permission

An individual rule which determines the actions users can perform on VideoManager.

R

Recording

This is the complete footage recorded by a body-worn camera, from the moment it is prompted to start recording until the moment it is prompted to stop (including any pre- and post-record periods). A recording will be split into multiple videos if it reaches a certain length, as defined in the body-worn camera's device profile.

Role

Instead of applying permissions directly to users, they are applied to a role, which is then applied to a user. This means that multiple users can belong to the same role.

S

Single issue

If a body-worn camera has been assigned to a user with single issue, it will only be assigned to the user for one trip. Once the body-worn camera is redocked, it will return to the pool and can be assigned to a different user.

System Administrator

A role which cannot be edited or deleted. Any users with this role will be able to access any aspect of VideoManager.

U

User

Every individual on an instance of VideoManager must have their own user.

User-specific WiFi Network

A WiFi network that only appears on the dashboard of the user who configured it - for instance, a mobile phone hotspot for streaming that other users shouldn't be able to access.

V

VB400

A VB400 is a robust body-worn camera designed and sold by Motorola Solutions. It can record for up to 8 hours in full HD and has 32GB of recording storage. It also has GPS-tracking, Bluetooth functionality, and can livestream footage to VideoManager over a WiFi network.

VT100

A VT100 is a lightweight, discreet body-worn camera designed and sold by Motorola Solutions. It can record for up to 4 hours, and has the capacity to livestream footage to VideoManager if connected to WiFi. It is the first body-worn camera in Motorola Solutions' VideoTag range to have haptic feedback.

W

WiFi Profile

A collection of individual WiFi networks that is then applied to a body-worn camera. The body-worn camera in question will stream to VideoManager over these networks.