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T.react CIP installation manual 10 - Configure Milestone XProtect Corporate

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1 Introduction

1.1 Purpose

This installation manual explains how to configure Milestone XProtect Corporate for T.react CIP installations.

1.2 Scope

This manual is part of the overall T.react CIP system installation flow described in the main installation manual (see [INMMAIN] or [INMENTR] depending on the T.react CIP system to install).

This document describes the basic configuration of Milestone XProtect Corporate 2020 R1 in a T.react CIP installation.

The procedures described in this document apply to both virtual and physical server installations.

It is assumed that the reader has a basic knowledge of Milestone XProtect Corporate and Windows operating systems.

Note: The steps in this manual are describing the configuration of Milestone XProtect Corporate 2017 R3 but apply also to Milestone XProtect Corporate 2020 R1.

1.3 Application

This document is intended for T.react CIP installation personnel.

2 References

Ref.	Doc. No.	Title
[INMMAIN]	751606-HI	T.react CIP Single-Server Installation Manual
[INMENTR]	1410438-HI	T.react CIP Entry-Level Installation Manual
[INM07]	1034668-HI	T.react CIP Installation Manual 07 - Milestone XProtect Corporate Management Server (Redundant)
[INM08]	1034669-HI	T.react CIP Installation Manual 08 - Milestone XProtect Corporate Recording Server (Redundant)
[INM09]	1086404-HI	T.react CIP Installation Manual 09 - Milestone XProtect Corporate Single Server
[MILESTONE]	768221-QD	MilestoneXProtectCorporate_Administrators_Manual_en

3 Definitions

Term	Definition
AD	Active Directory (Microsoft)
CIP	Critical Infrastructure Protection
CPU	Central Processing Unit

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Term	Definition
fps	frame per second
VMS	Video Management System

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4 Structures

All illustrations in this document are associated with the numbered bullet above the illustration.

Text in program	Text found in program being described (typically shown on related illustration) – bold text
Button	Button in program being described (typically shown on related illustration) – bold + italic text
Key	Keyboard key to be entered – italic text
User entry	Text to entered by the operator – bold + Courier New text

The following writing styles are used in the document:

5 Prerequisites

- Milestone XProtect Corporate Management Server(s) and Recording Server(s) installed on one or several Windows Servers (see [INM09] or [INM07] and [INM08]).
- Cameras added to the desired Recording Server(s) in Milestone XProtect VMS

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6 Configuration of cameras in Milestone

1. Open the Milestone Management Client and connect to the Milestone Management server (here **SRVMGT)**

Milestone XProtect® MANAGEMENT CLIENT 2017 R3 Computer: srvmgt Authentication: Windows authentication (current user)	× _
Computer: srvmgt Authentication: Windows authentication (current user)	
Authentication: Windows authentication (current user)	
Authentication: Windows authentication (current user) -	
Windows authentication (current user) -	
Domain: TREACTCIP	
User name:	
TREACTCIP\cipdomainadmin +	
Password:	
Remember password	
Connect Close	

6.1 Motion detection (optional)

Motion detection on the cameras is not relevant in Milestone since recording is controlled by events sent from T.react CIP to Milestone (see chapter 7), and to improve server (CPU) performance, motion detection should be disabled for all cameras.

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 Disable Motion detection. Select Recording Servers on left pane, expand Recording Server (here placed in a Windows Controller domain and called SRVREC.treactcip.com), expand camera on which motion detection should be disabled, select Motion tab on Properties pane (right) and uncheck Motion detection.



3. Repeat step 2 for all cameras

6.2 Recording framerate

The live framerate (as presented in the Milestone Smart Client) is the framerate provided by the camera. Changing framerate on the camera will change live framerate. Recording framerate differs from live framerate and depends on the stream format. For MJPEG streams, it is possible to set recording framerate to any value equal to or lower than the live framerate, while it for MPEG4/H.264/H.265 streams is only possible to set recording framerate to either live framerate or keyframes (typically 1 fps). Here it is important to observe the difference in MJPEG video streams and MPEG4/H.264/H.265 video streams. Where in general, an MJPEG camera will be able to initiate a new stream with a different frame rate very fast, this is not the case with MPEG4/H.264/H.265 cameras – a change in the live frame rate of a MPEG4/H.264/H.265 camera will result in a pause in live images and recording. I.e. for MJPEG cameras, recording framerate can be increased by increasing the live framerate, while this is not a viable option for MPEG4/H.264/H.265 cameras where recording framerate will be either the current live framerate or keyframes.

In the T.react CIP system, videos will always be presented at full framerate (as configured in Milestone), while recording framerate will be controlled by T.react CIP, by use of Milestone events. Default live and recording framerates are configured as described next, while change of framerate is configured as presented in Section 7.

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6.2.1 JPEG video stream

4. Expand camera on which to set JPEG video stream, select **Settings** tab on **Properties** pane (right), find JPEG **Video Stream** and set default **Frames per second** (here 25). **Save**.

Milestone XProtect Management Clie	ent 2018 R3		– 🗆 X
<u>File Edit View Action Tools H</u> elp			
🗟 🦻 🕑 🗢 🛍			
Site Navigation 🗸 🦊 🕽	K Recording Server	Properties	→ #
Sale Tearly additional additaddititadditional additional additional additional additional ad	Improvemental general Improvemental general Improvemental Improvemental Improvemental Improvemental	Production DWNF Conformant Device Resolution Streaming method Video stream 3 - Modia profile Code Code Filters for executed Mational addessis Tomes per second Addessis Streaming method Fromes per second Addessis Info @S settings Streaming @ Record @ Mational Addessis Live: 1920-1080 245KB	1920x 1080 R17/R15P/TCP JPEG_L1S3 JPEG_VEG 25 20000 0000 0000 0000 0000 1920x1080 20000 1920x1080 20000 1920x1080 1920x1080 1920x1080 1920x1080 1920x1080 1920x1080 R1P/R15P/TCP v v V
Management Liner Frohie Marxix Rules and Events Molitation Profiles System Dashboard Grunent Tasks Site Navigation Federated Site Hierarchy	~	SSL Derjdyt 500 (16)	

5. Select **Streams** tab and set **Stream** to JPEG **Video Stream** from bullit 4. Ensure that **Live Mode** is set to **Always**, and **Default** and **Record** are checked. **Save**.



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6. Select **Record** and set default JPEG recording framerate in **Recording frame rate |** JPEG: (here 5 FPS). Save.



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6.2.2 MPEG4/H.264/H.265 video stream

 Expand camera on which to set MPEG4/H.264/H.265 video stream, select Settings tab on Properties pane (right), find MPEG4/H.264/H.265 Video Stream and set default Frames per second (here 25). Save.



8. Select **Streams** tab and set **Stream** to MPEG4/H.264/H.265 **Video Stream** from bullit 7. Ensure that **Live Mode** is set to **Always**, and **Default** and **Record** are checked. **Save**.



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 Select Record and check Record Keyframes only in Recording frame rate | MPEG-4/H.264/H.265:. Save.



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7 Milestone Rules and Events – Always Record configuration

NB. For a system with a large number of cameras or off-shore where it is unlikely the camera record anything of interest unless assigned to event, see chapter 8.

Milestone events and rules may be used to control Milestone recording settings from external software (e.g. the T.react CIP system).

In the following sections, Milestone XProtect VMS is set up to continuously record on all cameras at low framerate by default and to increase the framerate when an external event is received (from the T.react CIP system, when an offending object is detected and followed by a camera).

7.1 Always record rule

The Always Record rule will force all cameras to continuously record video.

1. Open the Milestone Management Client and connect to the Milestone Management server (here **SRVMGT**)

Milestone XProtect® MANAGEMENT CLIENT 2017 R3	× _
Computer:	
Authentication: Windows authentication (current user) 💌	
User name:	
Password:	
Remember password	
Connect Close	

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2. Right-click Rules in Site Navigation pane and select Add Rule ...

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3. Name the new rule Always Record, select Perform an action in a time interval and click Next

Manage Rule				-		×
Name:	Always Record					
Description:						
Active:						
	St	ep 1: Type of rule				
Select the rule type y	you want to create					
 Perform an action Perform an action 	n on <event> n in a time interval</event>					
Edit the rule descript	tion (click an underlined item)					
Perform an action in a	a time interval					
Help	<u>C</u> ancel	< <u>B</u> ack	<u>N</u> ext >		<u>F</u> inish	

4. Select Always and click Next

Manage Rule				-		\times
Name:	Always Record					
Description:						
Active:						
		Step 2: Conditions				
Select condition	s to apply	otop 2. conditions				
☐ Within selec ☐ Outside sele ☐ Within the tir ☐ Day of week ☑ Always	ted time in <time profile=""> cted time in <time profile=""> ne period <start time=""> to <end is <day></day></end </start></time></time>	time>				
Edit the rule des	cription (click an underlined it	em)				
Perform an action always	n in a time interval					
Help	<u>C</u> ancel	< <u>B</u> ack	<u>N</u> ext >		<u>F</u> inish	

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Manage Rule		_		×	
Name: Description:	Always Record				
Active:					
	Step 3: Actions				
Start recording of Start feed on <dd Start feed on <dd Set <smart wall<br="">Set <smart wall<br="">Set <smart wall<br="">Remove <camer Set live frame ra Set recording fra Set recording fra Start patrolling of</camer </smart></smart></smart></dd </dd 	Select actions to perform Start recording on <devices> Start feed on <devices> Start feed on <devices> Set <smart wall=""> to opreset> Set <smart wall=""> connitor> to show <cameras> Set <smart wall=""> connitor> to show text '<messages'< td=""> Remove <cameras> from <smart wall=""> monitor <monitor> Set live frame rate on <devices> Set recording frame rate on <devices></devices></devices></devices></devices></devices></devices></monitor></smart></cameras></messages'<></smart></cameras></smart></smart></devices></devices></devices>				
Edit the rule descrip Perform an action in always start recording <u>immer</u>	otion (click an underlined item) a time interval <u>diately</u> on <u>recording device</u>				
Help	Cancel < Back Next >		<u>F</u> inisł	۱ 	

5. Select Start recording on <devices> and click recording device

6. Select all cameras, click Add and click OK

Select devices and groups	X
Device Groups Recording Servers	Selected:
	OK Cancel

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7. Click Next

Manage Rule		-		×				
Name:	Always Record							
Description:	ription:							
Active:								
	Step 3: Actions							
Select actions to pe	rform							
Start recording of Start feed on <de< td=""><td>nr <devices> avices> > to <preset></preset></devices></td><td></td><td></td><td></td></de<>	nr <devices> avices> > to <preset></preset></devices>							
Set <smart td="" wall<=""><td>> <monitor> to show <cameras></cameras></monitor></td><td></td><td></td><td></td></smart>	> <monitor> to show <cameras></cameras></monitor>							
Bemove <camer< td=""><td>><monitor> to snow text as> from as> from </monitor></td><td></td><td></td><td></td></camer<>	> <monitor> to snow text as> from as> from </monitor>							
Set live frame ra	te on <devices></devices>							
Set recording fra	ame rate on <devices></devices>							
Set recording fra	ame rate to all frames for MPEG-4/H.264/H.265 on <devices></devices>							
Start patrolling o	n <device> using <profile> with PTZ <priority></priority></profile></device>			¥				
Edit the rule descrip	tion (click an underlined item)							
Perform an action in	a time interval			_				
always	tistely on All comerce							
start recording miller	Jacely on <u>Air Cameras</u>							
Help	Cancel < Back Next >		<u>F</u> inish	1				

8. Click Next

Name:	Always F	Record			
Description:					
Active:	\checkmark				
		St	ep 4: Stop criteria		
Select stop crite	eria				
Perform stop No actions r	p action when til performed on rul	ne interval ends			
	enonned on rui	e enu			
Edit the rule des	ecciption (click -	underlined item)		 	
Edit the rule des	scription (click a	an underlined item)		 	
Edit the rule des Perform an actio always	scription (click a	an underlined item) al		 	
Edit the rule des Perform an actio always start recording in	scription (click a n in a time interv nmediately on <u>All</u>	an underlined item) al <u>cameras</u>		 	
Edit the rule des Perform an actio always start recording in Perform an actio	scription (click a n in a time interv n <u>mediately</u> on <u>All</u> n when time inte	an underlined item) al <u>cameras</u> rval ends		 	
Edit the rule des Perform an actio always start recording in Perform an actio	scription (click a n in a time interv nmediately on All n when time inte	an underlined item) al <u>cameras</u> rval ends		 	
Edit the rule det Perform an actio always start recording in Perform an actio	scription (click a n in a time interv nmediately on All n when time inte	an underlined item) al <u>cameras</u> rval ends		 	
Edit the rule des Perform an actio always start recording in Perform an actio	scription (click a n in a time interv umediately on All n when time inte	an underlined item) al <u>cameras</u> rval ends		 	
Edit the rule des Perform an actio always start recording in Perform an actio	scription (click a n in a time interv nmediately on All n when time inte	an underlined item) al <u>cameras</u> rval ends		 	
Edit the rule des Perform an actio always start recording in Perform an actio	scription (click a n in a time interv nmediately on All n when time inte	an underlined item) al <u>cameras</u> rval ends			

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9. Click Finish to create Always Record rule (recording should now start on all cameras)

Manage Rule		-	×
Name:	Always Record		
Description:			
Active:			
	Step 5: Stop actions		
Select stop action to	perform		
Stop recording Stop feed Set <smart wall=""> Set <smart wall=""> Remove ccamera Restore default in Restore default re Restore default re Restore default re Restore default re</smart></smart>	to <preset> <monitor> to show <cameras> <monitor> to show text '<message>' s> from <smart wall=""> monitor <monitor> /e frame rate coording frame rate to ording frame rate of keyframes for MPEG-4/H.264/H.265</monitor></smart></message></monitor></cameras></monitor></preset>		~
Edit the rule descripti Perform an action in a always start recording <u>immedi</u> Perform an action whe stop recording <u>immedi</u>	ion (click an underlined item) time interval ately on <u>All cameras</u> an time interval ends ately		

7.2 Create framerate change events and rule

This section is based on the assumption that video streams are configured at full/max frame rate for live viewing and a lower frame rate when recording (e.g. keyframes – typically 1 fps – for H.264/H.265). A rule (and corresponding events) is created to set the recording video framerate to full/max frame rate based on external input (from the T.react CIP system, when the camera is allocated to an event). It is important to spell the events correctly as described in this section.

<u>Note</u>: If for some reason a change in recording framerate is not desired, it is possible to deactivate the corresponding rules(s) or simply not define these rules and events in Milestone.

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7.2.1 Create events

1. To create new events, right-click **User-defined Events** in the **Site Navigation** pane and select **Add User-defined Event** ...



2. Enter the name (Normal recording) of this user-defined event and click OK

Add User-defined Event		×
Enter name for user-define	ed event:	
Normal recording		
	ОК	Cancel

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Create an additional event: High red Milestone XProtect Management Client 2020 R	cording 1
File Edit View Action Tools Help 🔲 🌍 🕝 🗢 🏛	
Site Navigation 🚽 🕂 🗙	User-defined Events 🚽 🕂
SRVCIP - (20.1a) SRVCIP - (20.1a) Servers Client Client Rules and Events Time Profiles Ver-defined Events	Events High recording Normal recording

7.2.2 Create High recording rule and bind it to High recording event

1. Create a new rule (see 7.1) called High recording rule

Name: High recording rule Description: Active: Step 1: Type of rule Select the rule type you want to create Perform an action on <event> Perform an action on <event> Perform an action on a <recurring time=""> Edit the rule description (click an underlined item) Perform an action on event from devices/recording server/management server</recurring></event></event>	/lanage Rule				-)
Description: Active: Step 1: Type of rule Select the rule type you want to create Perform an action on <event> Perform an action on <event> Perform an action on a <recurring time=""> Edit the rule description (click an underlined item) Perform an action on event from devices/recording server/management server</recurring></event></event>	Name:	High recording rule				
Active: Step 1: Type of rule Select the rule type you want to create Perform an action on <event> Perform an action on a <recurring time=""> Edit the rule description (click an underlined item) Perform an action on <u>event</u> from <u>devices/recording server/management server</u></recurring></event>	Description:					
Step 1: Type of rule Select the rule type you want to create Perform an action on <event> Perform an action on a <recurring time=""> Edit the rule description (click an underlined item) Perform an action on event from devices/recording server/management server</recurring></event>	Active:					
Select the rule type you want to create Perform an action on <event> Perform an action in a time interval Perform an action on a <recurring time=""> Edit the rule description (click an underlined item) Perform an action on event from devices/recording server/management server</recurring></event>			Step 1: Type	of rule		
Edit the rule description (click an underlined item) Perform an action on <u>event</u> from <u>devices/recording server/management server</u>						
Perform an action on <u>event</u> from <u>devices/recording server/management server</u>						
	Edit the rule des	cription (click an underlin	ied item)		 	

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2. Select **Perform an action on <event>**, click <u>event</u> and select **High recording** userdefined event

Manage Rule		-		\times
Name: High r	cording rule			
Description:				
Active:				
	Step 1: Type of rule			
Select the rule type you want	o create			
Perform an action on <ev Perform an action in a time</ev 	Select an Event			×
Perform an action on a <r (clic="" action="" an="" description="" devices="" edit="" event="" from="" on="" perform="" recording<="" rule="" td="" the=""><td>currit Events Hardware Devices External Events Generic Events User-defined Events Vormal recording Normal recording Serve System Monitor Other</td><td></td><td>Canad</td><td></td></r>	currit Events Hardware Devices External Events Generic Events User-defined Events Vormal recording Normal recording Serve System Monitor Other		Canad	
	ОК		Cancel	
Help	Cancel < Back Next >		Finish	

3. Click OK and Next and select Day of week is <day>

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Manage Rule				-	-		×
Name:	High re	ecording rule					
Description:							
Active:	\checkmark						
		Ste	p 2: Conditions				
Select conditions	to apply						
Within selecte	d time in ⊲ti ted time in ⊲t	ime profile>					
Within the time	e period <st< td=""><td>tart time> to <end time=""></end></td><td>,</td><td></td><td></td><td></td><td></td></st<>	tart time> to <end time=""></end>	,				
Day of week is	s <day></day>						
Event is from	<motion td="" wir<=""><td>ndow></td><td></td><td></td><td></td><td></td><td></td></motion>	ndow>					
Edit the rule desc	ription (clic	k an underlined item)					_
Perform an action	on High rec	ording					-
from External							
day of week is da	<u>ys</u>						
Usta	1						_
Helb		Cancel	< Back	Next 5		Finish	

4. Click days and select all days

vianage Kule				
Name:	High recording rule			
Description:				
Active:	\square			
	Step 2: Conditions			
Select condition Within select Outside sele Within the tin Day of week Event is from	is to apply ted time in <time profile=""> scted time in <t me period <stat is <day> n <motion wind<br="">✓ Monday ✓ Monday ✓ Tuesday ✓ Wednesday ✓ Thursday ✓ Friday ✓ Saturday ✓ Sunday</motion></day></stat </t </time>			
Edit the rule dea Perform an actio from Externa day of week is c	avs			
Help	Cancel < Back Next >	,	<u>F</u> inish	

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5. Click OK and Next and select Set recording frame rate on <devices>

Manage Rule		-	- 0	×
Name:	High recording rule			
Description:				
Active:				
	Step 3: Actions			
Select actions to pe	form			
Start recording o	1 <devices></devices>			~
Start feed on <de< td=""><td>/ices></td><td></td><td></td><td></td></de<>	/ices>			
Set <smart td="" wall<=""><td>to <preset></preset></td><td></td><td></td><td></td></smart>	to <preset></preset>			
Set <smart td="" wall<=""><td><monitor> to show <cameras></cameras></monitor></td><td></td><td></td><td></td></smart>	<monitor> to show <cameras></cameras></monitor>			
Set <smart td="" wall<=""><td><monitor> to show text <message></message></monitor></td><td></td><td></td><td></td></smart>	<monitor> to show text <message></message></monitor>			
Cat live frame ra	is> from <5mart Wall> monitor <monitor></monitor>			
Set recording fra	e on sdevices>			
Set recording fra	me rate to all frames for MPEG-4/H 264/H 265 on <de< td=""><td>vices></td><td></td><td></td></de<>	vices>		
Start patrolling o	<pre></pre> device> using <profile> with PTZ <priority></priority></profile>			~
Edit the rule descrip	ion (click an underlined item)			
Perform an action on	High recording			
day of week is Mond	ay, Tuesday, Wednesday, Thursday, Friday, Saturday, S	Sunday		
set recording frame r	te on devices			
to frames per s	econd			
Help	<u>C</u> ancel < <u>B</u> ack	<u>N</u> ext >	<u>E</u> ir	nish

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6. Click *devices*, select Use devices from metadata and click OK

Manage Rule			-	- 🗆	×
Name:	High recording rule				
Description:					
Active:					
		Step 3: Actions			
Select actions to per	form				
Start recording or Start feed on <dee Set <smart wall=""> Set <smart wall=""> Set <smart wall=""> Remove <camera Set live frame rat Set recording framerat</camera </smart></smart></smart></dee 	n <devices> vices> to <preset> < cmonitor> to show <camer < cmonitor> to show text '<rr ss> from <smart wall=""> mon e on <devices> me rate on <devices></devices></devices></smart></rr </camer </preset></devices>	as> iessage>' itor <monitor></monitor>			
Set recording fram	me rate to all frames for MP n <device> using <profile> 1</profile></device>	Select Triggering Device	S	×	~
Edit the rule descript Perform an action on from <u>External</u> day of week is <u>Monda</u> set recording frame ra to <u>frames per set</u>	ion (click an underlined ite <u>High recording</u> ay, <u>Tuesday, Wednesday, T</u> te on <u>devices</u> econd	Use devices from me Select devices OK	tadata Cancel		
Help	<u>C</u> ancel	< <u>B</u> ack	<u>N</u> ext >	<u> </u>	ish

7. Click *frames per second*, select recording framerate (here 25) and click OK

Manage Rule				-		×
Name:	High recording rule					
Description:						
Active:						
	S	tep 3: Actions				
Set exercises of the set of the	on <devices> levices> ll> to <preset> ll> <monitor> to show <cameras> ll> <monitor> to show text '<mess rras> from <smart wall=""> monitor ate on <devices> iame rate on <devices></devices></devices></smart></mess </monitor></cameras></monitor></preset></devices>	age>' <monitor></monitor>				^
Set recording fi	rame rate to all frames for MPEG- on <device> using <profile> with</profile></device>	4/H.264/H.265 (PTZ <priority></priority>	on <devices></devices>			~
Perform an action of from External	iption (click an underlined item) In <u>High recording</u>	danı Fridanı Catı	Frame Rate		×	<
set recording frame to frames per	rate on the devices from metadata second	Select frame rate:		25.00 🜩		
			ОК	Can	cel	

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8. Select Set recording frame rate to all frames for MPEG-4/H.264/H.265 on <recording devices

Manage Rule			-	- C	X נ						
Name: High recording rule Description:											
Active:											
Step 3: Actions											
Select actions to per Start recording o	form n <devices></devices>				^						
Start feed on <de< td=""><td>vices> > to <preset></preset></td><td></td><td></td><td></td><td></td></de<>	vices> > to <preset></preset>										
Set <smart wall=""></smart>	<monitor> to show <cameras></cameras></monitor>										
Remove <camer< td=""><td><monitor> to snow text <mess as> from <smart wall=""> monitor</smart></mess </monitor></td><td>age> <monitor></monitor></td><td></td><td></td><td></td></camer<>	<monitor> to snow text <mess as> from <smart wall=""> monitor</smart></mess </monitor>	age> <monitor></monitor>									
Set live frame rat	te on <devices></devices>										
Set recording fra	me rate on <devices> me rate to all frames for MPEG:</devices>	-4/H 264/H 265 on <de< td=""><td>vices></td><td></td><td></td></de<>	vices>								
Start patrolling o	n <device> using <profile> with</profile></device>	PTZ <priority></priority>			~						
Edit the rule descrip	tion (click an underlined item)										
Edit the rule description (click an underlined item) Perform an action on <u>High recording</u> from <u>External</u> day of week is <u>Monday. Tuesday, Wednesday. Thursday, Friday, Saturday, Sunday</u> set recording frame rate on the <u>devices from metadata</u> to <u>25 frames per second</u> and set recording frame rate to all frames for MPEG-4/H.264/H.265 on <u>recording device</u>											
Help	<u>C</u> ancel	< <u>B</u> ack	<u>N</u> ext >	E	inish						

9. Click *recording device*, select Use devices from metadata and click OK

Manage Rule				- 🗆	\times
Name:	High recording rule				
Description:					
Active:					
	Ctop 2:	Select Trigger	ring Devices		×
Select actions to pe	step 5. i				
Start recording of Start feed on <de Start Smart Wall:</de 	on <devices> evices> > to <preset></preset></devices>	● Use devic ○ Select dev	es from metadata ⁄ices		
Set <smart wall:<br="">Set <smart wall:<br="">Remove <camer Set live frame ra</camer </smart></smart>	> <monitor> to show <cameras> > <monitor> to show text '<message>' ras> from <smart wall=""> monitor <moni te on <devices></devices></moni </smart></message></monitor></cameras></monitor>		OK	Cancel	
Set recording fra	ame rate on <devices> ame rate to all frames for MPEG-4/H.26 on <device> using <profile> with PTZ <</profile></device></devices>	64/H.265 on <dev priority></dev 	vices>		~
Edit the rule descrin	ation (click an underlined item)				
Perform an action on from <u>External</u> day of week is <u>Mond</u> set recording frame r	n <u>High recording</u> day, Tuesday, Wednesday, Thursday, Fr ate on the devices from metadata	iday, Saturday, S	junday		
to <u>25 frames per</u> and set recording f	<u>second</u> frame rate to all frames for MPEG-4/H.26	64/H.265 on rec	ording device		
Help	<u>C</u> ancel	< <u>B</u> ack	<u>N</u> ext >	<u>F</u> in	ish

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10. Click OK and select Make new <log entry> (scroll down on action list)

Manage Rule					-		×				
Name:	High recording	rule									
Description:											
Active:											
		5	itep 3: Actions								
Select actions to pe	rform										
Start patrolling o	n <device> using</device>	<profile> with</profile>	PTZ <priority></priority>				~				
Pause patrolling	on <devices></devices>	-									
Move <device> t</device>	to <preset> positi</preset>	on with PTZ <p< th=""><td>priority></td><td></td><td></td><td></td><td></td></p<>	priority>								
Move to default p	preset on <device< td=""><th>s> with PTZ <</th><td>priority></td><td></td><td></td><td></td><td></td></device<>	s> with PTZ <	priority>								
Set device outpu	it to <state></state>										
Create bookmar	k on <devices></devices>										
Play audio <mes< td=""><td>sage> on <devic< td=""><th>es> with <prior< th=""><td>rity></td><td></td><td></td><td></td><td></td></prior<></th></devic<></td></mes<>	sage> on <devic< td=""><th>es> with <prior< th=""><td>rity></td><td></td><td></td><td></td><td></td></prior<></th></devic<>	es> with <prior< th=""><td>rity></td><td></td><td></td><td></td><td></td></prior<>	rity>								
Send notification	to <profile></profile>										
✓ Make new <log e<="" p=""></log>	entry>										
Start plug-in on	<devices></devices>						×				
Edit the rule descrip	tion (click an und	derlined item)									
Perform an action on	High recording										
from External											
day of week is Mond	lay, Tuesday, We	dnesday, Thurs	day, Friday, Saturday	<u>, Sunday</u>							
to 25 frames per	ate on <u>the device</u> second	s from metadata	2								
and set recording f	rame rate to all fra	mes for MPEG	4/H.264/H.265 on th	e devices from meta	<u>data</u>						
and Create log entry: "log entry"											
1											
Help		Cancel	< Back	Nexts		Finish					

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11. Click <u>'log entry'</u> and create log entry using e.g. <u>Rule name</u> <u>Triggering time</u> <u>Event</u> <u>name</u> and <u>Device name</u> resulting in a **Text to log** entry looking like *\$RuleName\$ \$TriggerTime\$ \$EventName\$* (this log will be displayed in T.react CIP when the **High recording rule** is triggered in Milestone). Click **OK**.

Manage Rule					—		\times
Name:	High record	ding rule					
Description: Active:		Select a Log Ent	ry				×
Select actions to pe	rform m <device> u:</device>	Text to log: \$RuleName\$ \$Tr Add system info	riggerTime\$ \$EventNa	ame\$ \$DeviceName\$ insert variables in log te:	d)		
Add system information (click links to insert variables in log text) Add system information (click links to insert variables in log text) Add system information (click links to insert variables in log text) Add system information (click links to insert variables in log text) Add system information (click links to insert variables in log text) Add system information (click links to insert variables in log text) Add system information (click links to insert variables in log text) Add system information (click links to insert variables in log text) Device name Event name Triggering time Rule name Send notification to <profile> Make new dog entry></profile>							
Edit the rule descrip Perform an action on from External day of week is Mono set recording frame r to <u>25 frames per</u> and set recording f and Create log ent	totion (click an high recordin day, Tuesday, ate on the dev second frame rate to al row rate to al ry: log entry	underlined item) 9 Wednesday, Thurs iices from metadata I frames for MPEG-	day, Friday, Saturday, 1 4/H.264/H.265 on <u>th</u>	Sunday e devices from metadata		Jancel	
Help		<u>C</u> ancel	< <u>B</u> ack	<u>N</u> ext >		<u>F</u> inish	

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12.	Click	Next,	and	select	Perform	stop	action	on	<event></event>
-----	-------	-------	-----	--------	---------	------	--------	----	-----------------

Manage Rule				-		×
Name:	High recording rule					
Description:						
Active:	\checkmark					
	Step 4: Stop	criteria				
No actions pe	tion after <time> formed on rule end</time>					
Edit the rule desc	iption (click an underlined item)					
Perform an action from <u>External</u> day of week is <u>Mo</u> set recording fram- to <u>25 frames p</u> and set recordin and Create log e Perform stop actio from <u>devices</u>	on <u>High recording</u> nday, Tuesday, Wednesday, Thursday, Frida rate on the devices from metadata <u>ir second</u> frame rate to all frames for MPEG-4/H.264/ http: ' <u>\$RuleName\$</u> <u>\$TriggerTime\$</u> <u>\$EventNa</u> to n <u>event</u> <u>frecording</u> <u>server/management</u> <u>serve</u>	ny, Saturday, Sunda H. 265 on the <u>device</u> me\$ \$DeviceName! C	⊻ es from metadat \$	a		
Help	<u>C</u> ancel <	Back	<u>N</u> ext >]	<u>F</u> inish	

13. Click <u>event</u>, expand External Event, expand User-defined Events and select Normal recording. Click *OK*.

Description: Active: Select an Event Select stop crite Perform stop Perform stop Perform stop No actions p External Events Perform stop Perform stop Perform stop Perform stop Perform a nation Edit the rule des Perform an action System Monitor Dother Other Other Perform stop action on event from External events Perform an action on event from devices/recording servers OK Cancel	Name:	High recording rule		
Active: Select an Event X Select stop crite Select stop crite Form stop Perform stop No actions p Edit the rule des Perform a action Form External Betric Control Form Stop Conter Conte	Description:			
Select stop crite Select stop crite Ferform stop No actions p Edit the rule des Perform an actio from External Berform an actio Berform an actio Ferform an actio Berform an ac	Active:	Select an Event	×	
Edit the rule des Perform an action from External day of week is M set recording fran to 25 frames and set recordi and Create log OK Cancel Perform stop action on event from devices/recording server/management server	Select stop crite Perform stop Perform stop No actions p			
and Create log OK Cancel	Edit the rule des Perform an action from External day of week is <u>N</u> set recording fran to <u>25 frames</u> and set record			
from devices/recording server/management server	and Create log	OK Cancel		
	from device	on on <u>svera</u> s/recording server/management server		

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14. Click *Next* and use default setting (restore default recording frame rate <u>immediately</u> and restore default recording frame rate of keyframes for MPEG-4/H.264/H.265 <u>immediately</u>)

Manage Rule	-		×								
Name: High recording rule Description:											
Active:											
Select stop action to	Step 5: Stop actions										
Stop recording Stop feed Set <smart wall=""> to <preset> Set <smart wall=""> <monitor> to show <cameras> Set <smart wall=""> <monitor> to show text '<message>' Remove <cameras> from <smart wall=""> monitor <monitor> Restore default live frame rate Restore default recording frame rate of keyframes for MPEG-4/H.264/H.265 Resume patrolling</monitor></smart></cameras></message></monitor></smart></cameras></monitor></smart></preset></smart>											
Edit the rule descrip	tion (click an underlined item)										
day of week is Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday set recording frame rate on the devices from metadata to 25 frames per second and set recording frame rate to all frames for MPEG-4/H.265 on the devices from metadata and Create log entry: ' <u>\$RuleName\$ \$TriggerTime\$ \$EventName\$ \$DeviceName\$</u> ' Perform stop action on Normal recording from External											
room External restore default recording frame rate immediately and restore default recording frame rate of keyframes for MPEG-4/H.264/H.265 immediately											
Help	Cancel < Back Next >	<u>F</u> inis	h								

15. Click Finish to create the rule

Rule Information Rule Information Record - all cameras t Goto Preset when PTZ is don t Play Audio on Request Rule t Record on Request Rule t Record on Motion Rule the Cord on Motion Rule tt Start Audio Feed Rule tt Start Feed Rule
t Play Audio on Request Rule t Record on Bookmark Rule t Record on Rodenst Rule t Record on Request Rule t Start Audio Feed Rule tt Start Rule tt

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8 Milestone Rules and Events – Record Event Only configuration (optional)

On some sites at which T.react CIP is deployed, it is preferable not to record video all the time, but instead limit recording to periods when a given camera is allocated to an event. Reasons for this limitation include:

- Large number of cameras in system, which implies that excessive storage space is required on the recording server
- Site is off-shore and therefore cameras are unlikely to record anything of interest unless allocated to an event

This section describes how to configure Milestone to only record during events. It is presumed that the standard 'Always Record' configuration, described in Section 7, has been configured and the present section only describes subsequent changes to the configuration required to limit recording to times when events are present.

8.1 Add Rule 'EventStartRecording'

1. Deactivate the existing Rule 'Always Record' by unchecking the Active checkbox

- 2. Add Rule by right clicking on the Rules element under Rules an Events.
- 3. In the Name edit box, enter EventStartRecording
- 4. Click event

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5. Navigate to 'External Events' / 'User Defined Events' and select 'High Recording'



6. Click Next

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7.	Select	'Day of	week is	<day>'</day>	and	click	on	<u>days</u>
----	--------	---------	---------	--------------	-----	-------	----	-------------

	Manage Rule				-	_		×
	Name:	EventSt	artRecording					
1	Description:							
di	Active:							
at et			St	ep 2: Conditions				
ra ry on dir tre	 Within selected Outside selected Within the time p ✓ Day of week is Event is from 	time in <tir d time in < period <sta <day> motion wind</day></sta </tir 	ne profile> time profile> rt time> to <end time<br="">dow></end>	>				
	Edit the rule descrip	ption (click	an underlined item)					
	Perform an action on from <u>External</u> day of week is <u>days</u>	n <u>Hiqh reco</u>	rding					
	Help		Cancel	< Back	Next >		Finish	

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(T)

8. Select Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday and click OK

Manage Rule				_		×
Name:	EventStartRecording					
Description:						
Active:	Step	p 2: Conditions				
Select conditions to	apply					_
Edit the rule description of week is days	Select Days Select	Cance				
Help	Cancel	< Back	Next >		Finish	

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9. Click *Next* and select "Start recording on <devices>"

Manage Rule		_		×
Name:	EventStartRecording			
Description:				
Active:				
	Step 3: Actions			
Select actions to per	form			
Start recording o	n <devices></devices>			^
Start feed on <de< td=""><td>vices></td><td></td><td></td><td></td></de<>	vices>			
Set <smart td="" wall:<=""><td>• to <preset></preset></td><td></td><td></td><td></td></smart>	• to <preset></preset>			
Set <smart td="" wall<=""><td><pre><monitor> to show <cameras> </cameras></monitor></pre></td><td></td><td></td><td></td></smart>	<pre><monitor> to show <cameras> </cameras></monitor></pre>			
Bemove <camer< td=""><td>ass from <smart <monitors<="" monitor="" td="" walls=""><td></td><td></td><td></td></smart></td></camer<>	ass from <smart <monitors<="" monitor="" td="" walls=""><td></td><td></td><td></td></smart>			
Set live frame ra	te on <devices></devices>			
Set recording fra	me rate on <devices></devices>			
Set recording fra	me rate to all frames for MPEG-4/H.264/H.265 on <devices></devices>			
Start patrolling o	n <device> using <profile> with PTZ <priority></priority></profile></device>			~
Edit the rule descrip	tion (click an underlined item)			
Perform an action on	High recording			_
from External				
day of week is Mond	ay, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday			
start recording immed	lately on recording device			
1				
Help	Cancel CBack Nevt		Finish	
пер			<u>F</u> inisi	·

10. Select 'recording device'

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Manage Rule		_		\times
Name:	EventStartRecording			
Description:				
Active:				
	Step 3: Actions			
Select actions to p	verform			
Start feed on < Start feed on < Set <smart wa<br="">Set <smart wa<br="">Remove <cam Set live frame I Set recording f Set recording f Set recording f Edit the rule descr</cam </smart></smart>	devices> II> to <pres ii=""> controlevices> II> controlevices> Select Triggering Devices X II> <monito eras=""> from rate on <de (clic)="" cancel<="" controlevice="" iption="" ok="" td=""><td></td><td></td><td>~</td></de></monito></pres>			~
Perform an action of from <u>External</u> day of week is <u>Mor</u> start recording <u>imm</u>	on <u>High recording</u> nday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday ediately on <u>recording device</u>			
Help	Cancel < Back Next >		<u>F</u> inish	1

12. Click Next

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13. Select Perform stop action on event

Manage Rule		_		×
Name: Description: Active:	EventStartRecording			
Select stop criteria Perform stop action Perform stop action No actions perform	Step 4: Stop criteria			
Edit the rule descripti Perfom an action on J from <u>External</u> day of week is <u>Monda</u> start recording <u>immedia</u> Perform stop action or from <u>devices/rec</u>	on (click an underlined item) High recording y, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday ately on the devices from metadata o <u>event</u> cording server/management server			
Help	Cancel < Back Next >		<u>F</u> inish	

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14. Click event and select 'External Events' and then 'User-defined Events'

Manage Rule		_		\times
Name:	EventStartRecording			
Description:				
Active: Se	lect an Event	×		
Select stop crite	Events Hardware Devices External Events Generic Events User-defined Events High recording Mormal recording System Monitor System Monitor			
Edit the rule des Perform an action from <u>External</u> day of week is <u>M</u> start recording <u>im</u> Perform stop acti from <u>device</u>				
Help	Cancel < Back Next >		<u>F</u> inish	

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15. Select 'Normal recording' and click OK

Manage Rule		-		×			
Name:	EventStartRecording						
Description:							
Active:							
	Step 5: Stop actions						
Select stop actio	to perform						
Stop recording]			^			
Stop feed	Berlin and State						
Set <smart td="" w<=""><th>III> to <preset> III> (monitor) to show (comerce)</preset></th><td></td><td></td><td></td></smart>	III> to <preset> III> (monitor) to show (comerce)</preset>						
Set <smart td="" w<=""><th>all> <monitor> to show text '<message>'</message></monitor></th><td></td><td></td><td></td></smart>	all> <monitor> to show text '<message>'</message></monitor>						
Remove <car< td=""><th>eras> from <smart wall=""> monitor <monitor></monitor></smart></th><td></td><td></td><td></td></car<>	eras> from <smart wall=""> monitor <monitor></monitor></smart>						
Restore defa	Restore default live frame rate						
Restore defa	It recording frame rate						
Restore defa	t recording frame rate of keyframes for MPEG-4/H.264/H.265						
Resume patro	ling			¥ .			
Edit the rule des	ription (click an underlined item)						
Perform an action	on High recording						
from External							
start recording im	nday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday rediately on the devices from metadata						
Perform stop action	n on Normal recording						
stop recording im	ediately						
1							
Help	Cancel < Back Next	, T	Finis	h			
The p							

16. Click *Finish*

Finally, T.react CIP has to be configured to execute the High Recording event in Milestone for all values of event severity.

This is done by adding to the config.properties file, which is located in the "treactcip\<...>\windows-x64\server" folder:

com.terma.treactcip.application.milestonemanagement.increasefps=1

(The default value required to execute the High Recording event is 10)

After the described configuration changes:

- High recording and High live Milestone events are sent to Milestone, when a camera is allocated to an event with severity >=1, i.e. when a camera is allocated to and event, then the High recording event is executed by Milestone.
- Normal recording and Normal live Milestone events are sent to Milestone when a camera is deallocated from an event, i.e. the recording stops.

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9 Updating Milestone license

Licensing in Milestone relates to the cameras registered in the system. After changes in the camera composition, the license needs to be re-activated (there is a 30-day grace period when a camera is added to the system).

Depending on whether the Milestone XProtect Corporate Management Server has online access or not, the license can be activated online or offline.

See [MILESTONE] for details about how to import and activate a Milestone XProtect license.

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10 Storage configuration

Before the Milestone storage configuration is performed, a storage plan should be defined (the storage plan is customer specific).

10.1 Default storage configuration plan

The default storage configuration plan is as follows:

- a. Primary storage: recordings are stored at originally recorded framerate for 24 hours.
- b. First archive: after 24 hours recordings are moved from the Primary storage to the First archive, still at originally recorded framerate. It is stored here for 6 days (until recordings are 7 days old total).
- c. Second archive: after 6 days in the First archive, recordings are moved from the First archive to the Second archive down sampling the framerate to 1 fps. It is stored here for 83 days (until recordings are 90 days old total).
- d. When recordings are 90 days old, they are deleted from storage.

10.2 Setting up storage configuration

The following setting describes how storage is configured (here according to the default storage configuration plan as described in 10.1.

NB. the schedule for when moving recordings from one storage location to another, has not been considered here. All schedules are configured to be at 00:00. Generally archiving should be performed when load on the system is low – this will be installation site specific. See [MILESTONE] for details. Furthermore, storage sizes of primary and archive storages (see 10.1) will depend on factors specific to a given installation. E.g. the number of cameras (video streams) connected to Milestone, the resolution of the configured video streams, codecs used, the number of days to store the recordings in the storage, etc. I.e. schedule and storage sizes needs to be evaluated for each specific installation.

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1. Select **Servers** on the **Site Navigation** pane, the relevant Recording Server on the **Recording Server** pane and finally the **Storage** tab on the **Properties** pane.

Milestone XProtect Management Client 2018 R3	-		х
File Edit View Action Iools Help			
日 🦻 📀 🌨 🏛			
Site Navigation - 4 × Recording Server - 4	Properties		• 4
CIPSERVER11 (12.a) Construction Construction	Storage configuration Storage configuration Control to the recording server if a recording storage is unavailable Name Device Usage Default Local default 24 Recording and archiving configuration Recording and archiving co		
Gecurity ✓ ✓		ź	3
Site Navigation Federated Site Hierarchy	👔 Info 📔 Storage 💱 Failover 📣 Multicast 🚏 Network		

2. Select the default storage (here **Recording** configured to **E:\MediaDatabase**) and click **Edit Recording Storage** button ())

	Device Usage	Default	
cal default	<u>24</u>		
1 (iii			
ording and archiving configuration			
Recording			
E:\MediaDatabase			
Delete when recordings are	7 day(s) old		

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3. The Storage and Recordings Settings window is opened.

Select storage path and folder (here **E:\MediaDatabase** – create new folder if needed) and set retention time (1 Day(s) according to 9.a) and maximum size (here 500 GB) and click **OK**

Storage and F	Recording Settin	gs		×
Storage	Name: Local	default		
Recording	Path: Retention time: Maximum size: Signing: Encryption: Paseword:	E:\MediaDatabase 1 Day(s) 500 GB None	~	~
<u>H</u> elp			ОК	Cancel

a. If the recording server storage (database) is moved to a new location, a warning is displayed – click **Yes**



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- Properties Storage configuration Name △ Device Usage Local Default • 14 Recording and archiving configuration Recording 500 GB (749 bytes used) Moving recordings to E:\LiveMediaDatabse. 0% done ŧ Delete when recordings are 7 day(s) old 🐱 👿 💺 2 🚺 Info 🥃 Storage 뒷 Failover 💠 Multicast 💥 Network
- b. Moving of storage starts

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c. If move status doesn't change try refreshing view (e.g. select the **Info** tab and then the **Storage** tab again)



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4. Add archive according to storage policy (see b) by clicking Add Archive button (

ivame	A	Device Usage	Default	
ocal default		<u>24</u>		
4				
ecording an	d archiving configuration			
	Recording			
	500 GB (39.0 GB used)			
	E:\MediaDatabase			
÷.	Delete when recordings are 1 day(s) old			

5. The Archive Settings window is opened.

Select storage path and select (or create) storage folder (here **E:\Archive1**), set retention time (6 Day (s) according to 9.b) and maximum size (here 1000 GB) and click **OK**

Archive Settings		×
Archive		
Name:	Archive 1	
Path:	E:\Archive1	2
Retention time:	6 🖨 Day(s) 🗸	
Maximum size:	1000 🖨 GB	
Schedule:	Occurs every day at 00:00	(?)
Reduce frame rate:	5.00000 + Frames per second	
	Note:	
	MPEG-4/H.264/H.265 will be reduced to keyframes. Audio recordings will not be reduced.	
<u>H</u> elp	ОК	Cancel

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6. Add archive according to storage policy (see 9.c) by clicking Add Archive button (III)

		vice Usage	Default	
ocal default		<u>24</u>		
and a set of the set of				
cording and archiving configuration				
Recording				
E:\MediaDatabase				
Archive recordings older	than 1 day(s) at the next ar	chive schedule		
Archive 1				
1000 GB (970 bytes use	d)			
Delete when recordings	are 6 day(s) old			
Delete when recordings	are 6 day(s) old			
Delete when recordings	are 6 day(s) old			

7. The Archive Settings window is opened.

Select storage path and select (or create) storage folder (here E:\Archive2), set retention time (83 Day (s) according to 9.c), check Reduce frame rate checkbox and set frames per second to 1, and set maximum size (here 1000 GB) and click OK

Archive Settings		>
Archive		
Name:	Archive 2	
Path:	E:\Archive2	2
Retention time:	83 🜩 Day(s) 🗸	
Maximum size:	1000 🖨 GB	
Schedule:	Occurs every day at 00:00	()
Reduce frame rate:	✓ 1.00000 ♣ Frames per second]
	Note: MPEG-1/H 261/H 265 will be reduced to keyframes	
	Audio recordings will not be reduced.	
Help	ОК	Cancel

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8. The final storage configuration will be as follows. Note that recordings are deleted after 83 days in Archive 2 – i.e. after a total of 90 days as stated in 9.d.



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11 User configuration

The following must be configured in Milestone XProtect Corporate VMS according to the customer user policy:

- Smart Client profiles if the Milestone Smart Client is used in the T.react CIP installation.
- Management Client Profiles
- Milestone roles
- Milestone users

See [MILESTONE] for further details.