milestone

VERTA D4ZC-36S

**Installation Guide** 

### **Schematic Diagram**



Tyrone VERTA D4ZC-36S



VERTA series from Tyrone Systems, consolidates all your storage requirements in a single all-in-one storage solution which is the most flexible solution around. Apart from offering flexibility, it bundles enterprise class features such as extremely high.













Specifications - VE	RTA D4ZC-36S
File Protocols	CIFS/SMB, AFP, FTP, NFS & NFS over RDMA
Block Protocols	iSCSI Target, FC Target, SRP Target
Interface Ports (per controller)	Gigabit Ethernet: Up to 12 ports (RJ45) 10G,25G,40G,100G Ethernet: Up to 4 ports (SFP+) 40G Ethernet: Up to 2 ports (40GBASE-CR4) Fibre-Channel: Up to 4 ports EDR InfiniBand: Up to 4 ports (QSFP) Intel Omni-path: Up to 2 ports (In development)
Advanced Features	SSD Acceleration Snapshot Deduplication Replication Tape Emulation (VTL)
System Hardware	Processor: 2 Xeon Memory: 32GB (Max 512GB) RAID Levels: 0/1/5/6/10/50/60, with flash backed cache HDD/SSD Bays (Hot-plug): 36 LFF HDD/SSD Type: SAS/SATA Max Expansion (JBOD): 450 Form Factor: 4U

### **TYRONE VERTA ISCSI DISK CREATION**

### INTRODUCTION

#### <u>Log in</u>

To log in to the system, first acquire the IP address of the box. The default IP of OPSLAG FS2 is 192.168.0.60 After Logging, run a browser (preferably Mozilla Firefox) from any machine on the same network and access the IP.

#### **OPSLAG Verta**

Default IP: 192.168.0.60

User Type: Full Access Default

Password: opslag

### RAID

RAID (redundant array of independent disks; originally redundant array of inexpensive disks) is a way of storing the same data in different places on multiple <u>hard disks</u> to protect data in the case of a drive failure. However, not all RAID levels provide <u>redundancy</u>.

#### RAID Set Function:

In this tab we have the option to create/delete Raid set and create/delete Hot Spare. By the help of these tabs we can Configure Raid.

#### Create Raid Set:

Here it shows hard disk and help to Create Raid Set. For Creating NAS Storage you have to Create RAID of the disks and then Add volume then it will show in Disk Configuration.



For Milestone we have created 1 raid set having 20 disks.

### Volume

#### Volume Set Functions:

Volume set function is created by the help of Raid Set so if you want to create Volume set then first you need to create Raid Set. In Volume Set Function are two options first Create Volume set and Delete Volume Set.

#### Create Volume Set:

If you select Raid Set then you will have this info put volume Set Name and click on create and you can change Raid Level according to your wish.

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VG setup:

In the Volume creation Section create the Volume. This can add only if VG is set up before. Otherwise No free disk available option will come.

Here we have added 1 volume for milestone:

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ADD Volume:

Here We add the Volume Group Which is set by volume set Function.

### **Volume Configuration**

#### **Disk Configuration:**

In this Section display the volume Information, and show the information of used and free size.

#### **Disk Creation option:**

In this Section, when Click on the bottom of volume Configuration the a pop-up box is open and an option like NAS Disk,VTL Disk,Bio Disk and FIO Disk is pop-u.

#### **Disk Creation:**

When click on the NAS disk option then a fancy-box is open for creation of NAS disk creation. On every option click like VTL BIO and FIO the same fancy-box will be open. Disk name cannot be more than 8 Char.





### **Disk List**

In this Section Display all the created Disk Information. Click on the bottom of disk then an option will show like Increase size, Information and Delete. When you want Increase the disk size, click increase the small window will open and increase the size.

Record size- 30TB

Archive size- 40TB

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MONITORING	>				
7 HELP	>				
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Disk List Images List					
Filter by volume	ALL				
Filter by Disk	ALL				
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		Disk is free			
archive	record				

### **Volume Disk Information**

Volume disk Information gave us basic idea about for the disk, volume and <u>ISCSI/SRP/FC</u> disk Information.

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	live			1		N	*					

#### ISCSI/FC/SRP

A storage area network (SAN) is a dedicated network that provides access to consolidated, block level data storage. SAN are primarily used to enhance storage devices, such as disk arrays, tape libraries, and optical jukeboxes, accessible to servers so that the devices appear like locally attached devices to the operating system.

#### Volumes:

If we will add any disk to SAN from Disk list or from Image list it will come up here.

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### ISCSI

ISCSI is an acronym for Internet Small Computer System Interface, an Internet Protocol (IP)- based storage networking standard for linking data storage facilities. By this option we can check ISCSI status, ISCSI target, Disk to Target Properties Target Information, Session Information.

#### Create ISCSI Target:

An ISCSI target is often a dedicated network-connected hard disk storage device, but may also be a general- purpose computer, since as with initiators, software to provide an ISCSI target is available for most mainstream operating systems. ISCSI Target is the option to create new Target or you can Delete the target.





#### ISCSI Disk to Target:

In the ISCSI disk to target, we have to add a disk and LUN number in the target but before that make sure BIO disk is added and disk is added to SAN otherwise disk will not appear here and remove a disk from the target option is also present here before removing disk make sure initiator is not added to the disk, otherwise you will not able to remove disk from target.

Here is image showing how to add disk to a Target:

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#### **ISCSI** Authentication:

It is the act of confirming the truth of an attribute of a datum or entity. This might involve confirming the identity of a person or software program, tracing the origins of an artifact, or ensuring that a product is what its packaging and labeling claims to be. Authentication often involves verifying the validity of at least one form of identification.

After adding disk to target we have to create or add an initiator and select the particular eth port for initiator.

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#### **ISCSI Target Information:**

As the name suggest targets Target name, Disk, Initiator.

#### **ISCSI Session Information:**

In this section get a target information of the target- Target name, Disk name and Initiators name.



#### How to use iSCSI Targets on a Windows

- 1. Open iSCSI Initiator in Windows under Control Panel > Administrative tools.
- 2. Go to Discovery tab and click on Discover Portal.
- 3. Enter the IP Address or the DNS Name of which is hosting the iSCSI Target, then click on OK.



Format iSCSI Target for Use on Windows:

- 1. Open Computer Management under Control Panel > Administrative tools.
- 2. Select Disk Management on the left panel. Right click on the iSCSI Target (Disk1) and choose Online.
- 3. Right click on the iSCSI Target (Disk1) again and choose Initialize Disk.
- 4. A prompt will be displayed to initialize the newly added virtual drive. Please select a partition style most appropriate for the disk to be used then click on OK.

Quick Connect		×		
Targets that are available for connect provided are listed below. If multiple to each target individually.	ion at the IP address or DNS name that you targets are available, you need to connect			
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-	1			
Connect	Done			
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- 5. After the disk has been initialized, right click on the new disk (indicated by the black field), and select New Simple Volume.
- 6. Now your Windows system has an additional drive NODE1.



### **Milestone Management Client Configuration**

#### Install the Management Client

To install the Management Client the X Protect VMS has a built-in administrative installation web-page. From this webpage administrators can download and install the Management Client or the X Protect system components to any other computer on same network.

#### Steps to install Management Client:

1. To access the administrative installation web-page, enter the following URL in your browser:

http://[ip address]/Installation/Admin





2. Click ALL Languages for the Management Client Installer. Run the download file.

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	Coglich 🕬		
Milestone XProtect VMS contains a set of administrative applications which are downloaded ar	d installed from this page. User	8	
applications can be found on the default download page. If you want to view this page in anot menu in the top right corner.	her language, use the language		
Recording Server Installer The XProtect Recording Server has features for recording of video and audio feeds, and for communicati devices in the surveillance system.	ion with cameras and other		
Recurding Nerver Includie 12.20 (c4 lot) All Languages Management Cleart Testaller			
The XProtect Management Client is the system's administration application, used for setting up hardwar Henesystemt Client Installer 2016 83 (64 bit) All Languages	e, recording servers, security, etc.		
Event Nerver Installer The Event Nerver manages all event and map related communication. If stores events, image files and a states information about the surveillance system available.	map configurations, and makes		
Event Server Insteller 12.0s (64 bit) Alf Languages			
Log Server Installer The Log Server manages all system logging.			
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3. Click Yes to all warnings. Unpacking starts.

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- 4. Select the language for installer. Click continue.
- 5. Read and accept the License agreement. Click continue.
- 6. Select the file location and product language. Click continue.
- 7. The installation is complete. A list of successfully installed components is displayed. Click close.
- 8. Click the icon on the desktop to open the Management Client.



9. The Management Client login dialog appears.

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XProtect Smart Clie	Microsoft Edge	server sn		Milestone XProtect <sup>®</sup> Management Client 2020 R2
This PC	PRO_v24.2	server site		Computer: localhost
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- 10. Specify the host name or IP address of your management server in the Computer field.
- 11. Select authentication, type your user name and password. Click Connect. The Management Client launches. To read in detail about the features in Management Client and what you can accomplish with your system, Click Help in tools menu.



### To install Recording servers on a XProtect system

You must have at least one recording server running on any X Protect system. To add or install a recording server, do the following steps.

#### Steps to install Recording server

 To add or install a recording server on a local or remote system, open a web browser and navigate to <u>http://<server>/Installation/Admin.</u> Login with credentials for a local Windows administrator when prompted, the click on the link to download and install record server.

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Milestone XProtect VMS contains a set of administrative applications which are downloaded an applications can be found on the default download page. If you want to view this page in anoth menu in the top right corner.	d installed from this page her language, use the lang	. User juage			
Recording Server Installer, The XProtect Recording Server has features for recording of video and audio feeds, and for communicatio devices in the surveillance system.	on with cameras and other				
Recording Server Installer 12.3a (64 bit) All Languages					
Management Client Installer The XProtect Management Client is the system's administration application, used for setting up hardware	e, recording servers, security,	, etc.			
Management Client Installer 2018 R3 (64 bit) All Languages					

- 2. Run the downloaded file.
- 3. Click yes to all warnings. Unpacking starts.

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4. Choose language click continue.

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5. Select installation type Typical.

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Microsoft Edge	♦ Milestone XProtect* Recording Select an installa	tion type	×
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Thu PC	Falover	Installs a recording server that temporary takes over the tasks of another recording server if it fails.	
Pie luenk	Gastorn	This ophon allows you to change the detault values of the installation parameters for the Nederland Server server	
Control Panel			A CONTRACTOR
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6. Now specify the recording server settings. Give the recording server name, management server address with port and database location the click continue.

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9	♦ Milestone XProtect × Recording Server
Edge	Specify recording server settings
	Recording server name:
nodeł	DESKTOP-9FVAU08
-	Management server address: 2020/20/100
	Examples: locahost, managementserver.domain.com and managementserver.domain.com:81
This PC	Select your media database location:
	you save your vice recordings and a drive after from where you install the program. You select the installation location in the next step.
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- 7. Give the service account password and continue.
- 8. Select file location and give product language. Click Install.

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After the installation process completes, the installer lists the components that were successfully added to the system.

A Recording Server service icon appears in the system notification tray. If the server starts successfully, the icon appears with a green arrow :



- 9. The Recording Server will now appear in the Management Client and you can further configure it there. Close the Installer to complete the installation.
- 10. Now go to the Management Server and open X Protect management client.
- 11. Click on the Server tab then right click on Recording Server and click refresh.
- 12. After that it will display all the recording server list.



### **RAM DISK**

To reduce video latency due to slow access on shared storage, we use a software defined storage residing in memory on the feed server sharing the storage.

RAM Disk download from this link:

https://sourceforge.net/projects/imdisk-toolkit/

1. Download the RAM disk software and run installer.



- 2. The default settings appears, Click Next.
- 3. Set the Size to 1 GB.

matel Milestanet		
This PC PDO_v22.2 MilestonaX	Rambuck Configuration Tool	
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- 4. Enable the "Advanced Sharing" of the RAM disk.

5. Give permissions to use the Recording Server service.



### **Stable FPS Installation**

- 1. The Stable FPS is a device driver developed by Milestone systems for testing preliminary the performance of a X Protect system.
- 2. The stable FPS device driver can emulate video with MJPEG,H.264 and H.265 codecs.
- 3. Technically it is a normal multichannel device driver like device drivers used when adding physical multichannel cameras or video server to a Milestone X Protect System.
- 4. Each Stable FPS device can have between 1 to 200 video channels.

The Stable FPS package software and data is 700MB in size.

http://download.milestonesys.com/Certification/MilestoneCertificationTools.zip

#### Steps to install FPS driver:

- 1. Stop the recording service.
- 2. Unzip the downloaded file and open Milestone Certification
- 3. Tools 3 Go to stable FPS file.

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- 4. Then open "I\_AM\_LAZY\_INSTALL\_FOR\_ME.bat" batch file.
- 5. The command prompt windows will look like this.



- 6. For the first install we should select "A" for a full install of drivers and data.
- 7. Select the number of channels all the Stable FPS devices on this recording server will have.



- 8. Press Enter for the latest driver to be installed.
- 9. The installer will copy data and driver to the correct locations on the server. Press enter to exit the batch file.
- 10. Now you should start the Recording server service again.

#### Adding a Stable FPS device to a recording server:

- 1. Open the Management Client and Select the Recording server.
- 2. Right click on the recording server to Add Hardware.



- 3. You must select Manual method to add a Stable FPS device.
- 4. Stable FPS device does not check the credential, just click next.
- 5. Scroll down and select the Stable FPS and press NEXT.

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6. Now Assigned IP and add port number then click next.

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7. After a while the windows will show a success message, press NEXT.

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8. After a while you need to press NEXT again and this window will show up where you will have the options to disable /enable individual channels and functions like microphone and meta data, leave all check boxes as they are and press NEXT

File Edit View Action Tools	Help					
Hardware and cameras are enabl The hardware and its devices wil	led per default. Manually en I be assigned auto-generati	able additional devices to be u ed names. Alternatively, enter	ised. names manually.			
Hardware name template:		Device name temp	late:			
Default		~ Default		~		
Hardware to Add	Enabled	Name				
G StableFPS - 20 20 20.2						
Hardware:		StableFPS (20.20.20.2)				
Camera port 1:		StableFPS (20.20.20.2) - Ca	amera 1			
Camera port 2:		StableFPS (20.20.20.2) - Camera 2				
Camera port 3:		StableFP5 (20.20.20.2) - Ca	amera 3			
Camete port 4		StableFP5 (20.20.20.2) - Ca	smera 4			
Camera port 5		StableFP5 (20 20 20 2) - Ca	miera 5			
Camera port 6		StableFPS (20.20.20.2) - Ca	enera 6			
Camara port 7.	2	StableFPS (20.20.20.2) - Ca	mera 7			
Camera port 8:		StableFPS (20.20.20.2) - Ca	imera 8			
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- 9. Here you need to create a group for your video channels.
- 10. After you have pressed OK and finish the recording server view will look like this.



- 11. Selecting the Stable FPS device will show the info tab.
- 12. Select the setting tab, here you have the options to select codec, frame rate etc. For the device.
- 13. Press the save button.

