SATATYA VMSP Server Quick Start







Matrix SATATYA VMSP Server

Video Surveillance Solution

Quick Start



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This is a general documentation for all models of the product. The product may not support some of the features and facilities described in the documentation.

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Warranty

For product registration and warranty related details visit us at: https://www.matrixcomsec.com/warranty/#IP-video-surveillance

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Introduction

Thank you for choosing the Matrix SATATYA VMSP, the video surveillance recorder.

This Quick Start is meant to help you get familiar with SATATYA VMSP, install the device and configure its basic parameters.

This is a common document for all the configurations of SATATYA VMSP Server. The terms Matrix SATATYA VMSP and Enterprise Network video recorder are used interchangeably.

If you have any concerns regarding the installation procedure, consult the Matrix Customer Care.

To view or download the documents related to this product, scan the QR Code printed on the Product Label/Packaging Label.

You may also view or download the documents from https://www.matrixcomsec.com/support/ ipvs-product-manuals/

For product registration and warranty related details, please visit: https://www.matrixcomsec.com/warranty/#IP-video-surveillance

Notices

The following symbols have been used for notices to draw your attention to important points.



Important: to indicate something that requires your special attention or to remind you of something you might need to do when you are using the system.



Caution: to indicate an action or condition that is likely to result in malfunction or damage to the system or your property.



Warning: to indicate a hazard or an action that will cause damage to the system and or cause bodily harm to the user.



Tip: to indicate a helpful hint giving you an alternative way to operate the system or carry out a procedure, or use a feature more efficiently.

Know Your VMSP Server

In today's era, the technological need of organizations are no longer similar. The business solutions required by a Small Medium Enterprise are different from that of a Large Enterprise. So, most of the modern organizations want to invest in an economical business solution that accomplishes their specific technological needs.

Keeping in mind, the aspect of enterprise functionalities as well as the technological need of each and every organization, we offer the Matrix SATATYA VMSP Server.

Matrix offers VMSP Server as Integrated Hardware and Software Solution. It consists of SATATYA SAMAS Application ported on the VMSP Server. This perfect combination of a software application with a hardware platform, fulfills the business need of almost all the modern organizations.

Built on a high performance Xeon processors, video compression technology along with dual redundant Power Supply, as well as inbuilt GPU and Hardware RAID Controller, the VMSP provides uninterrupted performance while recording, monitoring and playback, best image quality with minimum storage space requirement. The solution supports Raid 0, 1, 5 and 10 functionality.

The Matrix SATATYA SAMAS is a sophisticated video management solution designed for large enterprises with multi-site surveillance requirements. This suite of applications provides comprehensive management and support for large number of cameras and other video surveillance devices, with centralized monitoring and control. The solution offers centralized management of Management Server, Recording Server, Admin Client, Media Client (Smart Client), Media Player (Backup Player), SATATYA devices and Cameras in a distributed network.

VMSP series uses Microsoft Windows10 IoT Enterprise LTSC Version as an Operating System. Hence this Server cannot be used as a general purpose application other than as VMSP Server. The Operating System must only be used in combination with VMSP Server. The Terms and Conditions for the use of Microsoft Windows Operating System are regulated by Microsoft's End User License Agreement. Matrix assumes that these Terms and Condition are acceptable to the End User.

VMSP Server

8 Bay Variant



SATATYA VMSP2020XCTP: VMSP having configuration of SATATYA SAMAS Platform License (Default Licenses: 5 Camera License, 1 Concurrent User License, 1 ANPR, 1 CREAM, 1 EIVA, 5 VTPM, Matrix Access Control Integration and Multi-display) and expandable upto 255 IP channels using SATATYA SAMAS Software Camera License having 8 hard disks.

VMSP Panels

You can view the details of the panel below:

VMSP2020XCTP

Front View - VMSP2020XCTP



Front Controls and Indicators - VMSP2020XCTP



Sr.No.	Interface	Description
А	ID Switch	Press the button to activate system identification.
В	Power Switch	Press button for system power on.
С	NMI Button	Push the button to activate user-defined function.
D	Reset Button	Push the button to activate system reset.
E	USB 3.0	USB 3.0, used for Scheduled and Manual Backup. To connect USB Mouse. To connect Dongle.
F	USB 3.0	USB 3.0, used for Scheduled and Manual Backup. To connect USB Mouse. To connect Dongle.
G	LAN1 LED	Blinks when internet is busy
н	LAN2 LED	Blinks when internet is busy
T	LAN3 LED	Blinks when internet is busy
J	LAN4 LED	Blinks when internet is busy
К	HDD Activity LED	Blinks when HDD is busy
L	Failure LED	Blinks when there is a failure

Rear View - VMSP2020XCTP



Label	Interface	Description	
А	Power Supply	Redundant Power Supply (1+1) of 800W	
В	PS/2 Keyboard/Mouse Port	To connect Keyboard/Mouse	
C	USB 3.2 Gen1 Port 5	To connect USB Mouse/Keyboard.	
	USB 3.2 Gen1 Port 6	To connect Dongle /Hard Disk for Eternal Storage	
D	1G LAN RJ45 Port	To connect Ethernet cable to the port of the Server (IPMI-Management Port).	
E	USB 3.2 Gen1 Port 3	To connect USB Mouse/Keyboard.	
	USB 3.2 Gen1 Port 4	To connect Dongle /Hard Disk for Eternal Storage	
F	VGA Port	To connect a VGA compatible Monitor. HDMI 2.0b	
G	Display Connectors		
u	10G RJ45 Port 1	To connect Ethernet cable to the port of the Server.	
н	10G RJ45 Port 2	To connect Ethernet cable to the port of the Server.	
I	Power On Button	Press to turn on the system.	

General Specifications

Parameters	Description	
Power Supply	100 to 240 VAC, 10-5A at 50/60 Hz - Dual Input	
	800W Hot Swap Redundant Power Supply (1+1)	
Operating Temperature	10°C ~ 50°C	
Non-operating Temperature	-40°C to 70°C	
Humidity	20% to 90% RH Non-Condensing	

The User Interface

The SATATYA SAMAS Application provided various user interfaces which servers different user requirements:

SATATYA SAMAS Admin Client

The SATATYA Admin Client enables you to configure — Users, Servers, Access Control, Features etc offered by the Matrix SATATYA SAMAS.

To know more, refer to the SATATYA SAMAS Administrator Guide.

This guide is available in the Software itself. On the Home page of the Admin Client, click

Settings @- and then select Help.

SATATYA SAMAS Smart Client

The SATATYA Smart Client enables access to live and stored video images of VMSP Server from a remote location through the Web. Using the Smart Client you can access, search, browse, display and transfer stored video to a remotely connected workstation. You can configure the VMSP Server and camera settings, receive notification of events such as alarm, motion detection and video loss.

To know more, refer to the SATATYA SAMAS Smart Client Manual.

This guide is available in the Software itself. On the Home page of the Smart Client, click

Settings @- and then select Help.

SATATYA SAMAS Vision

SATATYA Vision is a mobile application which supports live view of the channels and allows the user to view the live recordings any time, anywhere, on your smart devices. SATATYA Vision supports Android and iOS-based devices.

To know more, refer to the FAQs for Android and iOS respectively in their respective software.

SATATYA VMSP2020XCTP

HARDWARE		
Processor - CPU	Intel Xeon processor E-2356G @ 3.2 GHz	
Memory	32GB DDR4	
OS Drive	Enterprise-grade M.2 SSD 240GB	
SATA 3.0 Channels	8 Bay	
Storage Capacity	Max 144TB (support upto 18TB each HDD)	
PCle Type	- 2 PCle3.0 x8 - 1 PCle4.0 x8 - 1 PCle4.0 x16	
Video Display	- 1x HDMI on board	
Chassis	2U chassis with 12G	
Hot Swap HDD Bays	8 SATA HDD/ SSD 3.5" or 2.5"	
Graphics	A speed AST2600 with 64MB VRAM	
RAID Controller (inbuilt)	LSI-9361-8i 12G SAS 1GB (Hardware RAID)	
RAID Support	RAID 0/1/5/6/10/50/60	
NETWORK MANAGEMENT , INTER	FACES & SECURITY	
Network	2x 10GbE RJ45	
Sensor In/ Alarm Out	Yes Through Sensor Controller Panel200 device	
Audio In/ Out	No In built	
USB	 4x USB3.2 rear 2x USB3.0 front 1x USB3.2 onboard 1 x USB3.2 Gen1 (header, 2 ports) 1 x USB2.0 (header, 2 ports) 	
Security	TPM header support	
ELECTRICAL		
Input Voltage	100 to 240 VAC, 10-5A at 50/60 Hz - Dual Input	
Power Supply System	1+1 800W hot swap RPS	

Power Consumption	Approx. 206W at Normal Temperature (without HDD)	
MECHANICAL		
Dimension (D x W x H)	625 x 482.6 x 87mm (24" x 19" x 3.5")	
Material	SGCC	
Nett Weight	12.8 KG	
ENVIRONMENTAL		
Operating Temperature	 Ambient Temperature: 55°C Operation temperature: 10°C ~ 50°C Non operation temperature: -40°C ~ 70°C 	
Relative Humidity	Non operation humidity: 20% ~ 90% (Non condensing)	
CERTIFICATION		
CE; FCC; BIS	Yes	
SOFTWARE		
Operating System	Microsoft Windows 10 IoT Enterprise LTSC HIGH END	
Event Database	Microsoft SQL Server Express Edition (upto 10 GB of Storage)	
Software	Suilt-in Cyber Secured Video Management Software - SATATYA	
VIDEO SURVEILLANCE MANAGEM	IENT	
VIDEO SURVEILLANCE MANAGEM	IENT 5 IP Channels (User can expand up to 255 IPC using SAMAS software Cam licenses)	
VIDEO SURVEILLANCE MANAGEM IP Camera Channels Resolution Support	5 IP Channels (User can expand up to 255 IPC using SAMAS software Cam licenses) 12MP, 8MP, 5MP, 3MP, 2MP, 720P, D1, CIF	
VIDEO SURVEILLANCE MANAGEM IP Camera Channels Resolution Support Compression	5 IP Channels (User can expand up to 255 IPC using SAMAS software Cam licenses) 12MP, 8MP, 5MP, 3MP, 2MP, 720P, D1, CIF H.265, H.264, MJPEG	
VIDEO SURVEILLANCE MANAGEM IP Camera Channels Resolution Support Compression Onvif Profile Support	5 IP Channels (User can expand up to 255 IPC using SAMAS software Cam licenses) 12MP, 8MP, 5MP, 3MP, 2MP, 720P, D1, CIF H.265, H.264, MJPEG Onvif S and G	
VIDEO SURVEILLANCE MANAGEM IP Camera Channels Resolution Support Compression Onvif Profile Support IP Camera Supports	5 IP Channels (User can expand up to 255 IPC using SAMAS software Cam licenses) 12MP, 8MP, 5MP, 3MP, 2MP, 720P, D1, CIF H.265, H.264, MJPEG Onvif S and G Matrix Brand, Third Party - Onvif Profile S and G Supported	
VIDEO SURVEILLANCE MANAGEM IP Camera Channels Resolution Support Compression Onvif Profile Support IP Camera Supports Active Directory Support	5 IP Channels (User can expand up to 255 IPC using SAMAS software Cam licenses) 12MP, 8MP, 5MP, 3MP, 2MP, 720P, D1, CIF H.265, H.264, MJPEG Onvif S and G Matrix Brand, Third Party - Onvif Profile S and G Supported Yes	
VIDEO SURVEILLANCE MANAGEM IP Camera Channels Resolution Support Compression Onvif Profile Support IP Camera Supports Active Directory Support User Roles and Rights	5 IP Channels (User can expand up to 255 IPC using SAMAS software Cam licenses) 12MP, 8MP, 5MP, 3MP, 2MP, 720P, D1, CIF H.265, H.264, MJPEG Onvif S and G Matrix Brand, Third Party - Onvif Profile S and G Supported Yes Yes	
VIDEO SURVEILLANCE MANAGEM IP Camera Channels Resolution Support Compression Onvif Profile Support IP Camera Supports Active Directory Support User Roles and Rights DISPLAY	5 IP Channels (User can expand up to 255 IPC using SAMAS software Cam licenses) 12MP, 8MP, 5MP, 3MP, 2MP, 720P, D1, CIF H.265, H.264, MJPEG Onvif S and G Matrix Brand, Third Party - Onvif Profile S and G Supported Yes Yes	
VIDEO SURVEILLANCE MANAGEM IP Camera Channels Resolution Support Compression Onvif Profile Support IP Camera Supports Active Directory Support User Roles and Rights DISPLAY Split (Through LAN/HDMI)	ENT 5 IP Channels (User can expand up to 255 IPC using SAMAS software Cam licenses) 12MP, 8MP, 5MP, 3MP, 2MP, 720P, D1, CIF H.265, H.264, MJPEG Onvif S and G Matrix Brand, Third Party - Onvif Profile S and G Supported Yes Yes 1x1, 2x2, 3x3, 4x4, 5x5, 6x6, 8x8, 1+3, 1+5, 1+7 and Sequential views and Windows Sequence	
VIDEO SURVEILLANCE MANAGEM IP Camera Channels Resolution Support Compression Onvif Profile Support IP Camera Supports Active Directory Support User Roles and Rights DISPLAY Split (Through LAN/HDMI) Local Decoding	5 IP Channels (User can expand up to 255 IPC using SAMAS software Cam licenses) 12MP, 8MP, 5MP, 3MP, 2MP, 720P, D1, CIF H.265, H.264, MJPEG Onvif S and G Matrix Brand, Third Party - Onvif Profile S and G Supported Yes Yes 1x1, 2x2, 3x3, 4x4, 5x5, 6x6, 8x8, 1+3, 1+5, 1+7 and Sequential Views and Windows Sequence 1x 4K 4x D1 @H.264	
VIDEO SURVEILLANCE MANAGEM IP Camera Channels Resolution Support Compression Onvif Profile Support IP Camera Supports Active Directory Support User Roles and Rights DISPLAY Split (Through LAN/HDMI) Local Decoding Digital Zoom on Live	5 IP Channels (User can expand up to 255 IPC using SAMAS software Cam licenses) 12MP, 8MP, 5MP, 3MP, 2MP, 720P, D1, CIF H.265, H.264, MJPEG Onvif S and G Matrix Brand, Third Party - Onvif Profile S and G Supported Yes Yes 1x1, 2x2, 3x3, 4x4, 5x5, 6x6, 8x8, 1+3, 1+5, 1+7 and Sequential Views and Windows Sequence 1x 4K 4x D1 @H.264 Yes	

OSD	Channel Number and Name, Status, Video Loss, Recording and Disabled Channel (As per camera support)		
RECORDING			
Pre-Record	Up to 30 Sec		
Post-Record	Up to 30 Sec		
Snapshot Format	JPG		
Recording Format	Native		
Recording Types	Continuous, Manual, Alarm and Motion Detection		
Special Recording	Time Lapse Recording and Day-Highlights		
Auto Retrieval from SD Card	Yes		
Adaptive Recording Automatically Reduces the Number of Frames Captured Pe Second Where There is No Motion, Thereby Saving Storage Space			
INTEGRATED PLATFORMS Over N	etwork		
Redundant Service	Yes. Storage & Recording Services (N+1),		
Failover Service	Yes. Recording Services (N+1) & Network ISP Service (1+1)		
Matrix IVA Service	Yes (Basic & Advance IVAs, ANPR, Parking Management & More Over Ethernet)		
Access Control System	Yes. Matrix COSEC Server and COSEC PANEL200 for Aux I/O Integrations		
Streaming Services	Yes. For Integrations with Third Party IVA and Investigation Agency		
VMSP Clients	Desktop Client: SATATYA Smart Client, Video Wall Client Mobile Clients for Android and i-OS Devices		
PLAYBACK & BACKUP			
Synchronous Playback	1 channels @ 1080P (via Ethernet)		
Search Mode	Date, Camera, Recording Type		
Playback Modes	Fast Forward, Fast Reverse at Different Speed Control,		
Backup & Archive	3 Levels, Video Grooming Technology		
Network Protocol	TCP/IP, DHCP, FTP, SMTP, RTP/RTSP, CIFS/NFS, UDP, LDAP, ONVIF		
Maximum User	99+1		
Remote Operation	Monitor, PTZ Control, Playback, System Setting, File Download, Log Information,		

PERCEPTIVE MONITORING FEATU	JRES	
Hierarchical E-map	Yes	
Alarm Management	Yes (Report, Acknowledge, Close & Alarm Logs)	
System Health Dashboard	Yes	
Investigator	Video Content Analysis on Recorded Video (Over Ethernet)	
One Click Control	IPC view, Recording Status, Health, Snapshot, Manual Recording	
On Screen PTZ Control	Yes using Virtual PTZ Joystick	
SURVEILLANCE LOGS		
Logs	Event Logs, Audit Trails, Alarm Logs and Online User information	
Reports	Summary Report, Downtime Analysis Report, Evidence Reports, System Health Reports	
Report Scheduler Yes (Daily, Weekly, Monthly, Yearly)		
EVENTS & ACTIONS		
EVENTS	Video Surveillance Events, System Events, User Events, Audit Trails Events	
ACTION	Recording on Selected Channel, Upload Images on FTP/Email server, Email Notification with Snapshot, Trigger IVA, Recall PTZ Preset Position, Turn On/Off Alarm Outputs, Buzzer Notification, SMS Notification, Calling from Mobile App, Share files data, Trigger Aux Output	
SYSTEM SETUP		
LED Indication	System Power; Ethernet Connection, SATA Connectivity	
Power On & Reset Switch	Yes	
For More Information on Software Part	Please refer to the VMS SAMAS Datasheet.	

SATATYA VMSP2020XCTP



Installing VMSP Server

Package Contents

SATATYA VMSP2020XCTP

- 2 qty 250V-10A Power Cable
- 2 qty Sliding Rails for Rack installation
- 2 qty Jumper for HDD Board Panel
- 1 qty Number Strip
- 3.5" HDD screws
- 2.5" HDD internal screws
- 2.5" HDD screws
- Cable tie for system
- Mother Board Screws

Things You Will Need

- A Power Hand Drill
- A Wire Stripper
- Insulation Tape
- A Screwdriver set
- Device (IP Cameras, NVR).
- · Monitors with the appropriate cables to connect.
- At least one SATA Hard Disk (upto 18TB), if you want to record on a hard disk in the SATATYA VMSP Server. You can install 8 hard disks.
- A USB Mouse or Keyboard (Wired or Wireless) to operate the SATATYA VMSP Server.
- A personal computer or a LAN computer to access the Admin Client or the Smart Client.
- An Ethernet cable to connect to a computer/LAN/WAN (over a DSL Modem or Router).
- A rack to mount the SATATYA VMSP Server in a rack.

Safety Instructions

- The Matrix device is intended for indoor use and can only be Rack Mounted. Equipment must
 thus be installed into a controlled, dry, clean and secure environment where temperature and
 humidity are within product specifications.
- Examine site conditions prior to installation. Notify the person concerned if unsuitable conditions are encountered. Do not start installation until site conditions are acceptable.
- Use the power cord which is supplied along with the equipment. The product should be operated with appropriate power voltage supply as mentioned in the specification sheet. Ensure adequate earthing at the installation site.
- Do not touch the product with wet hands. Equipment must be installed by a trained professional.
- Prevent metallic, foreign or liquid substances from getting inside the product. This includes insecticide or flammable cleaning spray.
- Make sure in the Rack there is minimum 1-2 inches air gap between two systems (bottom and top). Vent holes are provided in the system for air ventilation, make sure there is no obstruction to block it.
- · Make sure the operating temperature for the systems is between 10°C to 50°C day and night.
- Ensure appropriate mains filtering and UPS are used in areas where the power source is susceptible. Damage through power source fluctuations, spikes, etc. is not covered by warranty.
- Do not cut off the power or move the unit when hard drives are operating. Doing so may cause damage and loss of data.
- Make sure you have complete the wiring and installation of all the devices you want to connect to VMSP Server.

VMSP Server will be provided with the following Services and Clients:

- Management Server
- License Server
- Recording Server
- Notification Server
- Transcoding Server
- ONVIF Server
- IVA Server
- Admin Client
- Smart Client

The following Devices, Services and Clients are supported by VMSP Server and can be installed/ connected as per your requirement:

- Smart Client in multi-monitor mode (needs to be installed in a separate Server)
- NVRs, DVRs and IP Cameras
- COSEC CENTRA Server
- COSEC PANEL200
- ARC IO 800 Controller
- Smart Client (needs to be installed in a separate Server)
- Media Player (needs to be installed in a separate Server)
- · Third Party / Business Application for Integration

Further the Installation and Connecting instructions have been divided into the following sections:

- Hardware Installations, refer "Hardware Installation of VMSP Server".
- Connecting, refer "Connecting VMSP Server".
- Software Installations, refer "Software Installation of the VMSP Server".

Recommendations

• Make sure you configure recording of maximum 64 channels in each HDD. If multiple HDD's are installed make sure you distribute the recordings.

For example, if you have installed 8 HDD's and 256 camera's, then in each HDD recording of 32 camera's can be configured.

- Make sure both the Power Supplies are connected. If one Power Supply is connected it will result in degraded performance and a buzzing sound may occur.
- We highly recommend separate workstation for Smart Client viewing purpose.

 The workstation requirement will vary if you want to run a configuration other that the one specified under Technical Specifications > Display > Local Decoding and Playback and Backup > Synchronous Playback.. For details, refer to "Technical Specifications". • Unpack your VMSP Server and check the package contents.

For details, refer to "Package Contents".

Do not discard the packaging material. If any of the items is missing or damaged, please contact the source from where you purchased the product.

- You are recommended to first install the hard disk(s and make the required cable connections. Refer to "Opening the Top Cover" and "Installing the Hard Disk".
- For Rack mounting, refer to "Rack Mounting" instructions.

Opening the Top Cover

- Always wear an electrostatic discharge preventive wrist strap or belt and use a grounding mat.
- Make sure the power supply is disconnected. Unplug the power cable, if you have connected it to your VMSP Server.
- Make sure the thumb finger touches downward, and then push back the rear back cover.
- Check and release the screws from the sides.



• Place your hand on the front top cover and pull it out.

Installing the Hard Disk

VMSP Server support maximum 8 Hard disks. Each hard-drive can support upto 18 Terabytes. By default, no Hard disk is provided with the system. You can install them as per your requirement.

You are recommended to install video surveillance SATA Hard disks of any standard brand.



Any electrostatic energy coming in contact with the hard disk or the internal parts of the VMSP Server can cause permanent damage to them. Before you begin the installation of the hard disk, make sure your workstation is static-free. Always wear an electrostatic discharge preventive wrist strap or belt and use a grounding mat.

- Insert the hard drive on the tray.
- Use four screws to fix the HDD.
- Slide the tray into the HDD bay.



• Push the lever to latch HDD tray.



Maximum torque to be applied for tightening the screws is 3 kgf.cm. Applying more than specified torque will cause a damage to the HDD and the emboss.

Rack Mounting

There are two rails — inner rail and outer rail. You can install the rails into the racks using the round holes or square holes.

Follow the instructions given below:

• Release and detach the inner rail from the outer rail.



• Align the inner rail with the system.



• Fasten it with the P-head to make sure it is well locked and the inner rail does not loosen from the system.



• Attach the outer rail to the rack.



• Make sure the bearing retailer in locked forward. Horizontally install the system half way into the slide rail.



• Slide the release tab on the side and push system into the rack.



• You can use Round Hole pins or Square hole pins. Align the holes of the system with those of the rack and insert the screws. Tighten them to fix the system in place.



Connecting VMSP Server

Connecting Devices

Cameras

VMSP Server	Number of IP Cameras supported (default)	Number of HDD supported
SATATYA VMSP2020XCTP	5	8

Make sure the camera's are installed as per your requirement.

Server

The provided Server does not have any default IP Address. Contact your Network Administrator and configure the same. The Default User Name is **admin** and Password is **1234**.

Monitors

- You can connect a HDMI compatible Monitor to the HDMI Ports.
- Connect one end of the cable to the Video IN of the monitor and the connect the other end to the HDMI port.



The recommended length of the cable is upto 3 meters (9.8 ft.).

LAN/WAN

You can connect VMSP Variants to a LAN switch or to a WAN.

- Connect the Ethernet cable from your computer/LAN Switch to the LAN Port on the Rear panel.
- To connect the Server to the Internet, connect its LAN port either directly to the DSL Modem or Router or over a LAN Switch.

When connecting the LAN Port of the Server to a network computer, you may need to change the IP Address, the Subnet Mask and Gateway address of the Server. You may ask your Network Administrator for the IP Address assignment used on the network, the IP Address, Subnet Mask and Gateway Address for the Server, refer "Changing the IP Address (Windows10)".

Backup Storage Device

To store back up of the recordings, you may connect any removable storage device such as an external hard disk to the USB Ports.

Mouse/Keyboard

· You can connect a wired or wireless Mouse or Keyboard to the USB port.

Connecting Power Supply

- Connect one end of the Power cable into the Power Supply on the Server and the other end into the power outlet. Make sure the port is a Dual Input port as two Power Supply's need to be connected.
- Switch on power supply. Wait for the reset cycle to complete.

Changing the IP Address (Windows10)

To change the IP Settings, follow the steps given below:

- Select Ethernet 🖳 , then select Ethernet Network you are connected to.
- Right-click on the selected Ethernet Network and click Properties.
- Under Properties, select IP Network Version 4.
- Click Properties, select Automatic (DHCP) or Manual.
 - To specify the IPv4 settings manually,
 - Under Edit IP settings, select Manual, then turn on IPv4.

- To specify the IP address, in the IP Address, Subnet prefix length and Gateway boxes, type the IP address settings.
- To specify the a DNS server address, in the **Preferred DNS** and **Alternate DNS** boxes, type the address of the primary and secondary DNS servers.
- When you select **Automatic (DHCP)**, the IP address settings and DNS server settings are set automatically by your router or other access point.
- When you select **Manual**, you can manually, set your IP address settings and DNS server address.
- Select Save.

Pre-requisites for RAID Installation

- VMSP Servers come pre-equipped with Hardware RAID Controller.
- Hard-drives added to an empty server need to be configured before they can be used for video recording.
- As and when the HDD is mounted in the drive successfully, the same will be indicated by Green LED on the respective Disk slot.
- As and when the HDD is mounted in the drive and if a Red LED glows on the respective Disk slot, it indicates that the HDD is faulty.
- The RAID configurations of new hard drive must be set-up manually via pre-installed RAID Management Application or BIOS.
- Only after the configurations are done the server will provide full functionality of RAID for storage.

The Software Installation of VMSP Server includes two steps:

- "Installing and Configuring RAID"
- "Installing SATATYA SAMAS Components"

Make sure you have the Administrator rights.

Installing and Configuring RAID

Follow the steps for installing and configuring RAID.

• Below is the image of the Hardware RAID controller.



• Below is the image of the cable, using which you can connect the RAID controller to the expander backplane of the Server.



 Mount the RAID controller on the Server board as displayed in the image (Green color circuit board). Insert one end of the cable into the RAID controller and the other end into the Server backpane.



• In Search of windows, enter System Information and press enter.



• Under System Information > Storage, the RAID controller is displayed.

System Information			
le Edit View Help			<u>^</u>
intern Summary	ten	value	
Hardware Resources	Name	Microsoft Storage Spaces Controller	
- Conflictu/Sharing	Manufacturer	Marosoft	
DMA	Status	OK .	
- Forced Hardware	PNP Device ID	ROOT(SMCEPORT(X030	
-10	Driver	clywedowriuysten 32)priwrriupaolportuys (10.0.17703.1.437.88 All 1034,110 =	
-RQs			
Memory	Namo	AlaGO MegaRAD SAS Adapter	
© Components	Manufacturer	Acquiled	
@ Mutimedia	3580.5	OK	
Audio Codeci	PNP Device ID	PC/VEN_1000BDEV_0CSDBSUBCK5_936A1000BREV_02/AA2KTRADOVBCBARURV	
- Video CodeCi	Memory Address	0644200000-0644200707	
CO-HOM	Memory Address	OKAA100000 OMAUTITE	
- Sound Device	IRE2 Channel	HQ 4254967286	
- Unputy Information	WIQ Charnel	90,4394967265	
HIPHO	RQ Chared	NI1 4194967284	
u npu	MG Charcel	RQ 4294967283	
- Regionard - Resistant Desire	IRQ Channel	IND 4294957282	
Modern	IRQ Channel	IRD 4234567281	
G teteork	1RQ Channel	RQ 423/017280	
- Adacter	IRQ Charmel	RQ.4254967279	
- Protocol	RQ Charged	RQ 4254067276	
WinSoc	BQ Charrel	RQ 48/4/60277	
8 Parts	IRQ Channel	RQ 4294367276	
Seral	IRC) Channel	BQ 4294967275	
Paralle	IRQ Channel	M0.4294997274	
B Storage	1RQ Channel	18D 4294547273	
Drives	IPQ Charnel	IRQ 4254567222	
Disks	RQ Channel	RQ 4294562771	
	IRQ Channel	RQ405WR7270	
CX	IRQ channel	NQ 4294967269	
-Peeting	IRQ Channel	MG 4594907260	
Problem Devicits	IPE2 Channel	IRQ 4294367267	
- USA	RIQ Channel	IRQ 4294967266	
a Provide Distriction	RQ Channel	IRQ 4234967285	
	RQ Channel	IRQ 4234567264	
	RQ Channel	(81) 4294567263	
	sig Channel	IRD 4284967262	~
	80.0000	Distance and Dista	
Find what		Fing Glose Find	
C Search selected	category only	Search category names only	
Distant Horars			

• Now install the Software for the RAID controller from this link.

 After installing, open the software. It displays the Host, IP Address, OS. Click on the Host or IP Address.

MegaRAID Storage Manager 13.04.04.00 - Host View				×
			L	.51 🏋
Server Details				
This page displays all the servers that were discovered.Choos You will be prompted for entering host credentials while logging	e a server and click on Login to start managing that server. g in.			
Use Configure Host to configure the hosts that you want to vi	ew.			
🗌 Lise LDAP Login 🛛 🧐				
IP Address: 192.168.1.127 Discover Host	Stop Discovery		0	efer an Mast
	-14		701	ngure nost
Remote gervers:				
Host	IP Address	Operating System	Health	
DESKTOP-B9RSH63	192.168.1.127	Windows 8	Optmal 0	
Fodu				
1 Server(s) found. Discovery completed.				

• A pop-up appears. Enter the **UserName** and **Password** (This is the windows UserName and Password you entered. Enter the same here.)

	LSI 羚
Sener Details The page departs of the seness that were documented. (Noose a server and dok on Login to start managing that server. I use Lonfigue Hoat Configue The hoats that you want to twee. I use Lonfigue Hoat Login	
P Address: [192.168.1.127] Discover LSI 5	Configure Host
Remote generals Server : 192.168.1.127 Hout Ue your Opening System logn username Health	
DESITIOR-999943 and passing to Sign the HOM server O Optimal Uper Name:	
Enseword: Loop Bode: Full Access ↓	
Logn Great	
66	

• Click Login.

• You will be directed to the Dashboard where you can view the connected drives, whether RAID is created or not, etc as well as the storage details.

MeasPAID :	torage Manager	- 13.04.04.00					- o ×
Manage Go To	Log Jools H	elp.					
S 50	e 🕫 😡						
							1 0 1 10
							LOIN
						Welcome: admin [Vil Access) Los 01
romannes but	rece Logical						
Controller:	AVASO MIQURAZ	0 143 9264-B(B.6 139,Dev 0)					
Properties			Chage		Background Operations		
A Status	e	Optimal					
E Incloares	1				Suprai quiva abecagave si buobueer q		
TH Destations			Table Cap	adlyi			
			2.728 18				
APA DEMEN	3			uned Capacity:	Drive operations in programs: 0		
B Drive group	e: 0		1000000				
VIDAR DOM			2.720	TB			
-			200%				
THE MCORE	100				Mare details		
Man O LO Las	Contra contrate o	Faching	Alters		1 main		
regarded rate		Chables	Create victual drive		Haw to use MSH2		
Perpetual Cal	100.000	Enderse a	Create CacheCade**-550 Caching		How to create vitilial drive?		
NegeRA30 Sef	eStore	Enabled	Logit configuration		tions to enable Mercel 470 Advanced Software (Internet		
MegaRAED RAD	20	Enabled					
MegaRA30 8.43	D4	Enabled	Codate Streeters		Spennex		
Manage Maga	RAID Advanced S	oftware Options	Distance alores				
**							
10	Ensir Level	Date / Time		Description			
10000	préormation, 0	2022-12-15, 17:	18:50	Successful log on to th	e server User: admin, Clent: 292, 568. L. 127, Access Mode: Fu	A, Clert Yine: 2022-12-15, 17:18:58	^
91	bréarmation, cl	2022-12-18, 174	28.07	Cardrater ID: 0 PD #	werbels Port 4 - 712 12		
247	Enformation, ()	2022-12-15, 173	35:34	Controller ED: 0 Devic	te intented Device Type: Disk Device Id: 7		
91	Information, C	2023-12-15, 174	35.34	Controller ID: 0 PO #	series) Port 4 - 71 2-14		
91	Enformation, ((2023-12-15, 17-1	12:36	Controller ID: 0 PD in	verted: Port 4 - 7119		
243	Sedarmation, O	2023-12-18, 16-	20-51	Cerviceler ID: 0 Ferr	spred sharged on endourer: 3 Fan - 4		
243	Enformation, O	2022-12-15, 16: 2023-12-15, 16:	831	Controller ID: 0 Fan I	apped changed on encourse: 1 Fan 2 apped changed on encourse: 1 Fan 2		
243	[Information, 0]	2023-12-19, 16.	20.91	Controller IDs O Parts	spred changed on enclosure: 1 Pan 1		
44	[Information, 0]	2022-12-15, 16:	8:51	Controller ED: 0 Time	established since power on: Time 2023-12-15, 96:20.51 99	Seconda	
247	brformation, of	24 seconds from 24 seconds from	reboot	Contraiter (Dr. O. 1980)	essences; changing we regra envire to WT, Perced WB VDs are no to meeted. Device Type: Endoquie Device M. 9	a anneces	
91	Enformation, CE	34 seconds from	reboot	Controller ID: 0 PD in	verted: 9		
167	Sedarmation, Of	24 seconds from	releasi	Carvinales ID: O. Com	munication revisional on endosures 1		
86	Enformation, ()	12 seconds from	reboot	Controller ID: 0 Board	Azvision: 058		
261	[Industrian, 0]	12 seconds from	releast	Controller IDs O Fasha	age version 24.21.0-0199		
Cited age in the second	Between the	112 seconds from	sebest 1	Controller Hr. O. Bath	er a hint Brassent		
							17.19 m
- P	- 14						11 A 12 44 646 15-12-2023

Click Create Virtual drives and the following screen appears. Click Simple and then click
 Next.

Serage Go	To Log Icols Help					
ष 🐐 🕗	E 40 Q					
						LSI
					Webco	ne: edmin [Pull Access]
Dephoord a	Physical Legical					
Cardraler	AVAID NegaRAZD SAS	0 9364-B(Bus 138,Dev 0)				
Properties			Usepe		Sedaround Operations	
A Date:	🙂 Op	plinal				
sil reduces					Shikai drive operations in progressi D	
fb come	50 L					
Beckplan	es: 0		A1110	2,729.70		
CP Driver:	3			- Configured Capacity:	Create Vistual Drive - Chause mode X	
-				O Bybes		
and the bo	upe: 0			Unconfigured Capacitys	LSI	
Vrtual Dr	We00: 0			2,726 15		
-	e confin		200%		The search can help you quickly create or rate.	
					Overage how the vertical driver:	
MACHINE STO A	Annest to Annes To Ann		Article		· E Snois	
Manual ST. S.	In Web	Realized	-	-	TypesTry a limited number of settings and have the system pick drives for you. This is the eadest way to create a relevant drive	
Manual ST. C	and and a first of the	Read and	MERCE SCREEKING			
negative.	achevade mo 2.4	crases	Greate CacheCade** - 1	ID Cadros		
меранало с	androne	Chaolee	Load configuration		O Advanced	
MegaRA30 R	CALD6	Chabled			Choose additional settings and customize virtual drive creation. This option provides greater floxibility when creating with all drives for virus concretions are accessed.	
MegaRA30 R	RAIDS	Enabled	Update firmulate			
Manage Par	spikAlb Advanced Softw	and California	Silence alarm			
A.Y						
10	Error Level	Date / Time		Description		
19000	(Information, 0)	2023-12-15, 17:1	550	Successful log on to the		
247	[Information, 0]	2023-12-15, 17:0	207	Controller ID: O Devic		
247	Defendation, 0	2023-12-15, 17/2	834	Cantralier ID: 0 Devic	Carcal Bet	
91	(Information, 0)	2023-12-18, 17/3	1.34	Cardoaler ID: 0 PD #	with Part 4 - 7.1.14	
247	(Information, 0)	2023-12-15, 17/3	5.38	Cantraler ID: 0 Devic	visiented Device Type: Dals Device Idi 10	
91	Deformation, (1)	2023-12-13, 17-0	238	Controller ID: 0 PD #	erten Port4-719	
243	Drformation, (I)	2023-12-15, 16-2	251	Controller Etc. 0. Fan	beet changes on enclosure 1 Pan - 3	
243	[Information, 0]	2023-12-15, 16:2	251	Controller ID: 0 Fan	peed changed on enclosure: 1 Fan 2	
243	[Information, 0]	2023-12-15, 16:2	251	Controller ID: 0 Fan	seed charged on enclosure: 1 Fan 1	
195	Marrina, al	24 seconds from a	wheel	Cantraler ID: 0 BBU	estables sharp one of the source of the sour	
247	(Information, 0)	34 seconds from a	rissed	Cardrafer ID: 0 Devic	Visited Device Type: Endisare Device bit 9	
91	(Information, 0)	34 seconds from r	eboot	Cardraler ID: 0 PD in	etet 3	
164	Enformation, (i)	22 seconds from a	ebook shout	Controller ID: 0 Com	uncestor restored on encesure: 1	
266	[Information, 0]	12 seconds from a	shoot	Controller ID: 0 Board	Revision: 038	
261	[Information, 0]	12 seconds from r	shoot	Controller ID: 0 Packa	privation 2421.0-0159	
Capitaring log	from server	It records from	1000	cocolectly 0 fats	sched societies	
• The RAID options will be appear based on the number of disks inserted. For example, here we have selected the RAID 5.

MegeRA(D)		.04.00				- 0 ×
Manage Go To	o Log Jook Help					
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						1 CINIA
						LSI
					Wolcomer advice (Pull Arrana)	Ine Off
Dashboard at-	mand formed					1001.001
	and copie					
Controller	Analoo regariato papito	ereges tarrer o				
Properties			Usage		Background Operations	
A Status	😇 Optina	•				
Sil Parlamente					Symaal drive operations in progressi: 0	
000000						
E Backplanes	ы 0		1	Total capecity: 2,279,78		
-C			A10000		Create Virtual Drive - Drive aroup and Virtual drive settings X	
100 00 0000				Computed Capacity:		
Drive group	pe: 0		-		I SI Y	
	-		-	Chooring und Capacity:	Lore	
			102%		Use the suscentred who without other settings or choose them if periods.	
Yes server	profile					
					Pick a RAID level to specify the amount of fault talerance and performance for the virtual drive(i).	
Manufactor and	and failures Calmer		Autom		RAD 5 v Fill RAD level is suitable for multi-user environments (database	
Man O KO Ka	and the second s	Problem	- ALANA		or the system) with large 10 size and high proportion of read activity.	
require res		0.0000	Create virtual drive		History with a second description upon the availability of elable has some candidate down A had	
MegallAD Ca	sheCade Pra 2.0	trabled	Overte CacheCade** - 5	ID Carbon	(E.Q.) space drive takes over a failed drive and ensures that the data remains	
NepsRAID Sel	fe2are	Enabled			Characterization (C). Does seturity method of he assured describes upon the carbody	
MINISAD RA	1206	Ecolded	Load configuration		Op drive security will make the virtual drive secure by applying encryption logic	
Man Damage	174	Provident .	Lodate fromare		Is the data in the drive	1
- Agencia in	40.7	0.0000			Select number of virtual drives to greate.	
Manage Mag	RAD Advanced Software	Cotors	Sience alarm			
					Density	
					Lata the v Select the capacity for the virtual drive (i). Each virtual drive will have the same capacity.	
10	Error Level	Date (Time		Description		
10000	Information (f	2023-12-15, 12:1	10-50	Successful loss on t		le.
247	Information, 6	2023-12-15, 17/2	rixd7	Controller ID: 0 E		
91	(Information, C)	2023-12-15, 17/9	19/37	Controller ID: 0	Cancel Back Stret Selp	
247	Information, Cl	2023-12-15, 17:0	5:34	Controler ID: 0 E		
The P	Television, C	2023-12-15, 170	12.22	Controler IDC 0 1	A Reserve Post P A La P	
91	Information, Cl	2023-12-15, 17-9	2.35	Controler ID: 0 1	Oreented Dort 1 - 21/3	
243	Information, ()	2023-12-15, 16c3	0:51	Controller ID: 0 1	ien speed changed on endosure: 1 Pan 4	
243	Enformation, 6	2023-12-15, 16:20	0151	Controller ID: 0	in speed changed on endosure: 1 Fan 1	
843	(Information, C)	2023-12-15, 16-2	0.91	Controler ID: 0 1	an seed (hanged on endosure) 1 Pan 2	
44	Information, ()	2013-12-15, 16:2	NC31	Controler ID: 0 1	an speed changes on shootset: 1 nm 1 marketblacks from changes on The 2005113-15 (6/2015) 40 Seconds	
233	Marries 1	24 seconds from a	reload	Centraley ID: 0 1	BU deaded : changes IIII logical drives to WT. Forced IIII VDs are not affected	
207	Information, Cl	34 seconds from t	rebook	Controller ID: 0 C	evice inserted Device Type: Endosure Device 10: 9	
81	Information, 6	34 seconds from r	reboot	Controller ID: 0 1	Örærled: 9	
167	(Information, 6)	34 seconds from a	reboot	Controller ID: 0	communication restored on endocure: 1	
36	Information ()	12 seconds from a	report	Controler ID: 0 8	composite deposite is a series of the series	
361	Information, 61	12 seconds from r	reboot	Controler ID: 0 P	date write: 24.31.0-0189	
147	Stoome ti	17. seconds from a	relieved.	Destudes ID: 0.1	National Part Research	~
reduction and part	11 10 VB					
1 0	81 .	AT			a ~ 10 dd 10	17522
-	~					13-12-2023

• After selecting the RAID, click Next, You will see the summary of the selected RAID.

Streetwork 1	Acres (11-11-11)	2010100					
garoeb -							
LORDONE DO TO	red teep Heb						
U 🗢 🕗 I	e 🕫 🕗						
							LOI
							welcome: admin [Full Access]
Deshboard pty	ecal Logical						
Controller :	AVAGO Megercago SAS	(0 v9064-6@ke 138,Dev 0)					
Properties			Chage		Background Operations		
A Date:	🙂 Opt	timal					
1000					Sintual drive operations in progress: 0		
En Encouver:	1						
III Eachplanese				Tutal capacity:	Create Virtual Drive - Summary	,	
Co Doome							
Carl of West				Configured Capacity:		1 51 1/2	
Drive group	41 0					LOIN	
Fill Wheel Drive				2.728 TB			
			100%		Review the summary and go back if you need to make carry	schore. The virtual shree(s) will be created when you click frosh.	
Tien server	coffie.				Summary:		
					Dana Destantions	Detachiland	
					NATE LOCALIZATI	NATE S	
MegallA30 Adv	anced Software Option	re	Actions		Number of virtual drivest	1	
MIGIRAD FM	230	Enabled	Construction of Advance		Capacity of each virtual drive:	1.010 TB	
Number Con	and sets that 3.0	Easthird	COMPANY OF CAME OF THE		Not Spare :	No	
integration con			Create CalleCade ^{TT} - 15	D California	Drive security method:	No encryption	
NegaCAID I.d	-Dure	Enabled	Load configuration		Number of draves used:	3	
MegaRA3D RAI	26	Enabled					
NegaliA30 8.43	D5	Enabled	Update fravore				
Manager Manager		and destinant	Simon dama				
(m)	From Local	Onto J Terra		Onumbritien			
10000	Defension (4	2022.12.18.12.1	1.72	Conceptor in the first of			
247	Deformation, Cl	2022-12-18, 17.0	9.07	Cardrater ID: 0 Device in	<	,	×
91	prformation, 0	2022-12-15, 17:0	9.07	Controller ED: 0 PD meet			
247	prformation, ()	p025-12-15, 17:0	6:34	Controller ID: O Device in		Cancel Book Einish Help	
247	Deformation (1	and 12-15, 17-0	0.09	Contrator ID: 0 PO rear	actual Parcentration Park Descents M. 15		
1	Enformation, of	2022-12-15, 17.0	2128	Controller ID: 0 PD meet	ed: Port 4 - 7119		
243	Enformation, ()	3023-12-15, 15-2	9:51	Controller ID: 0 Fan ope	d changed on enclosure: 5 Fan 4		
243	Enformation, Cl	0025-12-15, 16-2	0:51	Centraler ID: 0 Fan spe	d changed on enclosures 3 Fan 3		
243	Enformation (f	0003-12-15, 18-2 0725, 10, 15, 16-2	0.51	Controler ID: 0 Fan ape	d changed on enclosure: 1 Ean 1		
44	Enformation, G	2023-12-15, 15-2	9:51	Controller ID: 0 Time en	bloked since power on: Time 2023-12-15, 19:20:51 99 1	Seconda	
195	(Alarrang, 1)	34 seconds from	releast	Coveraley ID: O BBJ disc	andy changing VIB logical drives to U/T, Parced WB VDs are not	affected	
247	prformation, 0	34 seconds from	rebeat	Cantralier IDs O Device #	erted Device Type: Endoeure Device M: 9		
91	priormation, 0	p+ seconds from	NEDGOT	Controler ID: 0 PD inter	901 V		
18-1	Deformation, O	32 seconds from	referred .	Cardrater ID: 0 185 era	ince docovered) 1		
256	prformation, 0	12 seconds from	reboot	Controller ID: O Board Ra	vision: 058		
261	prformation, ()	12 seconds from	reboot	Controller ID: 0 Package	eration 24/21.0-0159		
Displaying log fro	re server	and second lines		a second ID- 0. Rathers			
		100 Aug. 100					
- P	m 🥪						A, V 10 00 10-12-2023

• Click Finish. The Virtual Drive will be created with the configured RAID.

MegaRAID Store	ge Menager - 13.0	104.00			- 0 ×
Manage Go To Lo	g Icols Help				
i 🗣 🛸 🕗 🗃 •	•0 📀				
					LSI
					Welcome: admin [Full Access] Los S
Dashboard Physical	Logical				
Controller: AVAL	IO MegaNAZO SAS 9	64-8(845 138,0ev 0)			
Properties			Usige		Rackground Operations
A Date:	🙂 Contem	*			
10 Enclosures	1				igitual dhile operators in progress: 0
III facinianan			100% Tel	al case/for	Construction of Construction (Construction)
			- A	29.10	Create visual Live - Survivary
Car Crivesi				Configured Capacity: 2,728 TB	1 511
Drive groups:	1			Unconfigured Capacity:	LOIN
Virtual Drive(s):	1		· · ·	0 Bytes	Designs the supervised and hard of use paper to make consistence. The sixtual disadd will be created when you did finish
Very server really					Seman-
					Data Protection: Ulandled
MegaRAID Advance	d Software Options		Actions		Namer of Virtual Contentiations - compare A
NegaRA30 FeatPath		Crebled	Create virtual drive		Capacity of each vi 👔 The Vitual diver successfully created
MegaRA3D CacheCa	sde Pro 2.0	Enabled	Dwate CatheCade** - SID Co	data	Not dpare :
NegaRA3D SafeStor	N	Crabled			Nakley of drives us
NepaRA30 RA206		Crabled	Long comparison		
MegaRA3D RA2DS		Enabled	Update fromate		
Manage HegeRAL	Advanced Software	Options	Sience alarm		
**					
10 Dr	for Level	Date / Time		Description	
338 04	formation, 0	2023-12-15, 17	22.57	Controller 10: 0 Controller r Controller 10: 0 10 Bart Ney	
12 24	formation, d)	2023-12-15, 171	22:57	Controller 30x 0 Shitakaataa	
20 Dri	formation, (i)	2923-12-15, 17:	22:56	Controller 30: 0 Past initials Controller 30: 0 Rollow chas	Cancel Beck Brinh 1940
370 04	formation, 0)	2923-12-15, 17	22:55	Controller 3D: 0 10 is availab	alle vbro
130 04	formation, 0	2023-12-15, 17:	22:55	Controller 3D: 8 Created VD	0.0
114 Dri	formation, 0]	2023-12-15, 17:	22.55	Controller ID: 0 State chang	nge: P0 = Port 4 - 7: ±14 Previous = Linconfigured Good Current = Online
114 04	formation, 0)	2023-12-15, 17	22/33	Controller 3Di 0 State chang	rger I/D = Pix1 4 - 73 x12 Pressus = Ukanyfigured Good Current = Online 200 - Fluid - 73 x12 Pressus = Ukanyfigured Good Current = Online
10000 214	formation, 0)	2023-12-15, 171	18.58	Successful log on to the ser-	har to fort a strained and the strained
247 04	formation, 0)	2923-12-15, 179	09/07	Controller 30: 0 Device inte	seried Device Type: Disk Device Id: 11
247 04	formation, 00	2923-12-15, 179	05:24	Controller 3D: 0 Device inter	and The Test Test Dek Device Id: 7
91 (Pr	formation, 0	2023-12-15, 179	05:34	Controller ID: 0 PD inserte	Sed: Part 4-70134
81 Dr	formation, 0)	2023-12-15, 179	02.30	Controller 3D: 0 Device inse Controller 3D: 0 PD inserts	Server unversion uner unerschaft als seit Server 2015
243 DV	formation, 0	2023-12-15, 164	20.51	Controller 3D1 D . Ran speed	ed dhanged on endosure: 1 Pan - 4
Displaying log from se	ner (f)	1003-10-10 IA	4755	Controller, Cr. D. East speed	an reason of another structure and the structure
= 0	Ht .	N			~ ~ 1723 명
	~				

• Click the **Logical** tab. The created RAID is displayed.

						<i></i>
MegaR4D 9	korage Manager - 13.04.0	.64.00			-	D X
Managa Go To	Tod Joop Relb					
N 🗣 🕗 I	E 🕫 🕢					
					1.7	C1
						31 🖓
	_			Weissner	dmin [Full Access]	Log Of
Cashboard Phys	gical Logical					
The resource and	1041					
AVAGO M	lecaRAID SAS 9364-Billus	(130.Dev 0)	roperces			
B-Sid Mire	Graups 8, RAID 5		Count			
0.03 %	intual Drive(s):					
	🖉 Virtual Drivec O, 1.818 Ti	r8, Optimal	Total Capacity	1.918 78		
0.000	eves:					
	Percesure: 3003053030	09 (5), 584 9, 54	Drive Security Properties			
	➢ Enclasure: 200316 20200	09 (NI, Slot: 14, 5	Secured	No		
			Data Protection Properties:			
			A	Research		
			Cesa Presection	United		
<		>				
AT.						
10	Error Level	Data (Tina		Description		
~	Defension ()	2020 12 10 10	22.12	Among specific Control of the		
130	Deferration (1	2023-12-15 17	22-57	Controller 2014 For the Control Science Control on Science Control on Science Control		^^
235	Information, El	2023-12-15, 17:	22:57	Controller This 0 Whitehold table is desired, White		
72	Information, 61	2023-12-15, 171	22:57	Controller ID: 0 21tilialization complete on VC: 0		
72	(Information, E)	2023-12-15, 17:	22:56	Controller 3D: 0 Fast initialization started on VD: 0		
54	(Information, 6)	2023-12-15, 171	22:56	Controller ID: 0 Policy change on VD: 0 Previous = Current Write Policy: Write Bady, Nov = Current Write Policy: Write Through;		
370	(Information, I)	2023-12-15, 171	22:55	Controller 3D: 0 YD is available. YD: 0		
135	(Information, I)	2023-12-15, 17:	22:55	Controller 30: 0 Created VD: 0		
249	(Information, E)	2023-12-15, 171	22:55	Controller 30: 0 VD is new OPT3MAE, VD 0		
114	(Information, 1)	2023-12-15, 171	22:55	Controller 30: 0 State change: PD = Pwt 4 - 7:114 Previous = Unconfigured Good Current = Online		
114	[Information, E]	2023-12-15, 17:	22:55	Controller 3D: 0 State change: PD = Part 4 - 7.1:12 Previous = Unconfigured Good Current = Online		
134	(untornation, E)	2023-12-15, 171	2239	Controler 21:13 table change: PD = Mart 4 - 7.12M Walks = Uncompared Loop Current = Come		_
1000	Defendence ()	eres 12-15, D1	10100	Decision and on a set to be used a set of the decision of the set		
91	Defermation (1)	2023-12-15, 171	09:07	Controle ID: C Diversities Det A (2012)		
242	Information, El	2023-12-15, 170	05:34	Controller Di & Device Inserted Device Tone Disk Device Mr. 7		
91	Information, 61	2023-12-15, 179	05:34	Controller D1: 0 PD Inserted: Pot 4 - 7 2:14		
247	(Information, E)	2023-12-15, 175	02:38	Controller 3D: 0 Device Inserted Device Type: Disk Device 3d: 10		
91	(Information, E)	2023-12-15, 171	02:38	Controller ID: 0 PD inserted: Port 4 - 7:19		
243	Parformation 12	2023-12-15 16/	28-81	Controller Th- It. Ran severi channel on environmen. 1 Ran 4		· ·
refeated rod app		_				
. 0	88	A			- B 5 - 60 - 606	17524
/	~	and the second se			15	12-2023 (1)

• You can view the details of the RAID you created.

Map	RAID Starage Manager - 13.04.04.00							- 0 X
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2.6	Drive Group: 0, RAID 5		General			Current Wate Balan	The Through	
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	- Cir Endouver 20022622009 (t), Not 1		6m	1.01070		Access Bolice:		
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	Dedosure: 380336133009 (%), Set: 1	4.54	Parity Size	933.000 G8		Current Access Policy	Read Write	
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443	[Information, 6] 2023-12-	15, 171	23117	Cantralier ID: 0 VD : 0 is using CacheCade(1M)				~
111	Sylawabar, 6 2023-12-	23, 17,	22147	Cardouber ID: 0 Controller requests a host bus rescan				
72	Defermation, El 2023-12-	15, 17,	22:87	Cardrader ID: 0 Initialization consists on 1D: 0				
70	Drimetor, () 2023-12-	15, 17	22556	Controller ID: 0 Peet initialization started on VD: 0				
54	Drformation, 61 2023-12-	15, 17	22:56	Controller ID: 0 Policy change on VO: 0 Previous = Current Whi	e Policy: Write Bado Non = Current Write Policy: Write Throu	ah .		
5.0	Defendent () 2023-12-	15, 17 17	2010	Controller ID: 0 Volta analide, Vol. 0				
249	Defensetor, El 2022-12-	15, 17,	22:55	Controller ID: 0 VD is now OFTIMAL VD 0				
114	[Information, 6] 2023-12-	15, 17:	221.55	Controller ID: 0 State change: PD = Port 4 - 7:1:14 Previous =	Unconfigured Good Current – Online			
114	[Manadon, 6] 2023-12-	25, 171	22155	Cantralier ID: 0 State dhange: PD = Port 4 - 7/5 12 Previous =	unconfigured Good Current – Online			
114	Sylamator, E 2023-12-	23, 17,	1221.93	Cardouler ID: 0 State duarge: PD = Port 4 - 7:16 Prevaux = 1 Disconstitution on to the second Library advance Classic 107,168	Incompared Book Carrent - Online 177 Access Mode: Bull Class Tests, 2013;12:13:13:13:13			
247	Defender, 6 2023-12-	15, 17	09-07	Controller ID: 0 Device inserted Device Type: Disk Device	14: 11			
91	Drfmetor, () 2023-12-	15, 17	09-07	Centralier ID: 0 PD inserted: Part 4 - 7:1:12				
247	Drformation, 6] 2023-12-	15, 17:	05:34	Controller ID: 0 Device inserted Device Type: Disk Device	14: 7			
242	Defensation (I 2021-12)		02-30	Controller ID: 0 Desice inserted Desice Type: Disk Desice	14: 10			
91	Drfamator, 6 2023-12	15, 17:	02:30	Controller ID: 0 PD mented: Port 4 - 7:1/9				
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1.100		-						
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- Now, we need to allocate the disk/partition to the Virtual Drive we created.
- In Search of windows, enter create and format hard disk partitions and press enter.

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- AVAGO MegatiAID 545 938+8(5vs 138,Dev 0)	Fregeroes			1		
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Endosure: 380316333009 (8), Sol: 9, 54	524	1.818 78		Access Policy:		
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Create and format hard disk		121		CacheCade - Cachege		
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• The Disk Management pop-up appears.

📅 Disk Manageme	ent						_	×
File Action Vie	w Help							
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Volume	Layout	Туре	File System	Status	Capacity	Free Spa	% Free	
- (C:)	Simple	Basic	NTFS	Healthy (B	222.97 GB	167.90 GB	75 %	
💻 (Disk 0 partition 2	2) Simple	Basic		Healthy (E	100 MB	100 MB	100 %	
- Recovery	Simple	Basic	NTFS	Healthy (499 MB	485 MB	97 %	
The back of								 ^
Basic	Recovery			(C:)			7777	
223.56 GB Online	499 MB NTFS Healthy (OEM Par	tition)	100 MB Healthy (EFI Syste	222.97 GB NTF Healthy (Boot	S , Page File, Cra	sh Dump, Prima	ry Part	
ODisk 1								-
1862.00 GB Not Initialized	1862.00 GB Unallocated							
Unallocated 📕 🖡	Primary partition							

• The Virtual Disk pop-up appears. Select the GPT (GUID Partition Table) option.

Initialize Disk	Х
You must initialize a disk before Logical Disk Manager can access it. <u>S</u> elect disks:	
<u>♥</u> [Disk 1	
Use the following partition style for the selected disks:	
O MBR (Master Boot Record)	
● <u>G</u> PT (GUID Partition Table)	
Note: The GPT partition style is not recognized by all previous versions of Windows.	
OK Cancel	

• Right-click on Unallocated and click the New Simple Volume option.

File Action	View Help						17	×
(m m) (m m)	🖬 💷 🖉 🖉	3 📖						
Volume	Layout	Type	File System	Status	Capacity	Free Spa	% Free	
(C:) (Disk 0 partit) Recovery	Simple ion 2) Simple Simple	Basic Basic Basic	NTFS NTFS	Healthy (B., Healthy (E., Healthy (.,	222.97 GB 100 MB 499 MB	167.90 GB 100 MB 485 MB	73 % 100 % 97 %	
- Disk 0 Basic 223.56 GB Online	Recovery 499 MB NT Healthy (O	FS EM Partition)	100 M8 Healthy (EFI Syste	0C3 222.97 GB NTI Healthy (Boot	PS 1, Page File, Crat	sh Durng, Prima	ry Part	
- Disk 0 Basic 223.56 GB Ovline - Disk 1 Basic 1861.98 GB Ovline	Recovery 499 MB NT Healthy (O 1861.98 GB Unallocati	PS EM Partition) New Sim	100 M8 Healthy (ERI Syste	0C3 222.97 GB NTI Healthy (Boot	FS , Page File, Cra	sh Dump, Prima	ry Part	ĺ
Disk 0 Basic Z23.56 GB Online Disk 1 Basic 1861.98 GB Online Unallocated	Recovery 499 MB NT Healthy (O 1861.98 GB Unallocati Primary pa	PS EM Partition) New Sire New Stri New Mit New Rd	100 MB Healthy (ER Syste gite Volume need Volume ped Volume 0-5 Volume	0C3 222.97 GB NTI Healthy (Boot	FS , Page File, Cra	sh Dumg, Prima	ry Part	
- Diak 0 Basic 223.56 GB Online - Diak 1 Basic 1861.98 GB Online	Recovery 499 MB N/I Healthy (O 1861.98 GB Unallocational Primary participants)	PS EM Partition) New Sirr New Spa New Mir New RA New RA	100 MB Healthy (ER Syste gete Volume nored Volume ored Volume 0-5 Volume 55	0C3 222:37 GB NTI Healthy (Boot	PS , Page File, Cre	sh Dump, Prime	ny Part	

• The New Simple Volume Wizard opens.

New Simple Volume Wizard	× Welcome to the New Simple
	Volume Wizard
	This wizard helps you create a simple volume on a disk.
	A simple volume can only be on a single disk.
	To continue, click Next.
	< Back Next > Cancel

• Click Next.

• Under Specify Volume Size, keep the default values of the parameters.

Choose a volume size that is between	en the maximum and minimum sizes.	
Maximum disk space in MB:	14498664	
Minimum disk space in MB:	8	
<u>S</u> imple volume size in MB:	14498664	
	Care	

- Click Next.
- Under Assign Drive Letter or Path, in Assign the following drive letter, select the desired letter from the drop-down list.



- Click Next.
- Under Format Partition, select the option Format the volume with the following settings. In Volume Label, configure the name you wish to assign to the Volume.

Format Partition			
To store data on this partition, yo	u must format it first.		
Chaosa whathar you want to fam	ant this walking and if a	a ubstaattiaasusuuse	***
Choose whether you want to rom	iai triis volume, and ir s	so, what settings you war	it to use.
O Do not format this volume			
Format this volume with the	e following settings:		
File system:	NTFS	~	
Allocation unit size:	Default	~	
Volume label:	New Volume		
Perform a quick form	at		
	r compression		
Enable file and folde	Compression		
Enable file and folde	Compression		
Enable file and folde	Compression		

• Click Next.

New Simple Volume Wizard		×
	Completing the New Simple Volume Wizard	
	You have successfully completed the New Simple Volume Wizard.	
	You selected the following settings: Volume type: Simole Volume Disk selected: Disk 1 Volume size: 14499664 MB Dirve letter or path: D: File system: NTFS Allocation unit size: Default Volume labe: New Volume Outick format: Yes To close this wizard, click Finish.	
	< <u>B</u> ack Finish Cancel	

- To complete, click Finish.
- Click My PC/Computer this new volume appears as a new drive.

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File Computer	View				Maxir
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📌 Quick access	* POR	uers (7)			
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Pictures	1 👘	•			
New XCTP driv	/ers				
Screenshots		Videos			
XCTP drivers	1	nt			
This PC	∨ Dev	vices and drives (2)			
		Local Disk (C:)	New Volume (D:)		
Network	-	167 GB free of 222 GB	1.81 TB free of 1.81 TB		
0 items					8==

The Software for the RAID controller, provides Locate functionality to locate the specific Hard Disk (for example, in which HDD the recording is going-on). This is indicated by glowing of Red LED on the respective HDD slot.

Deletion of RAID

• Open the software of the Hardware RAID and click the Logical tab.

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	R OFFICIOR AND FAMILY							
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	12- La Drive Group: 0, RAX	5	General			Current Write Policy	write Through	
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Image: second	11 Sel Dives	Persona Victual Da	Lev	ral .	5	Default Write Policy	Write Back with BBU	
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	Consistent a	Deletes the specified y	inual cick 000	*	931.000.08	Current Access Policy	HEAR HEAR	
		Disable SSD Cecha	*3 540		254 KB	Default Access Policy	Read IIvite	
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M M	338 Drformation,	0 2023-12-15	17:22:57	Controller 30: 0 Controller requests a hee	t bus rescan			
Mark Mark <th< td=""><td>335 Defamation,</td><td>2023-12-18,</td><td>17-22-87</td><td>Controller 3D+ 0 VD Ead block table is clean</td><td>ved. NDx D</td><td></td><td></td><td></td></th<>	335 Defamation,	2023-12-18,	17-22-87	Controller 3D+ 0 VD Ead block table is clean	ved. NDx D			
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0 0	54 Defermation	303.0.15	12.22.56	Controller 10: 0 Pairs change on Vir 6 Pr	evine in Current Write Policy: Hinte Bade have in Current Write Policy: Hinte Three	alter		
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March March <th< td=""><td>138 Defension</td><td>2023-12-18</td><td>17.22.00</td><td>Controller 3D; 0 Created VD; 0</td><td></td><td></td><td></td><td></td></th<>	138 Defension	2023-12-18	17.22.00	Controller 3D; 0 Created VD; 0				
No. Description Descripi <thdescription< th=""> <thdescri< td=""><td>249 Defamator,</td><td>0 2023-12-15,</td><td>17.22.55</td><td>Controller 3D: 0 VD is now OPTIPAL VD D</td><td></td><td></td><td></td><td></td></thdescri<></thdescription<>	249 Defamator,	0 2023-12-15,	17.22.55	Controller 3D: 0 VD is now OPTIPAL VD D				
Image: Description Description <thdescription< th=""></thdescription<>	114 Deformation,	0 2023-12-15,	17:22:55	Controller 30: 0 State change: PD = Port	4 - 7:1:14 Previous = Unconfigured Good Current = Online			
Mit Monte Restance Res	114 Drivetor, 1	2023-12-15	17-22-55	Controller 301 0 State change: PO = Port	4 - 7:1:12 Previous = Unconfigured Good Ourrent = Online			
Open Party Open Pa	114 Difamation,	2033-12-18,	17.22.65	Controller 3D: 0 State change: PD = Port	4 - 7, 1/9 Previous = Unconfigured Doed Current = Orâne			
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applying log from server	241 Defension	0 2013-12-18	10.33.51	Controller The D. Ren speed charged on	entire and 1 feet of			
	Chaptaying tog from server							

• Select the RAID you wish to delete.

• Right-click and select the **Delete the Virtual Drive** option. A confirmation message appears. Click **Yes** to delete the selected RAID.

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				111	to and cather Policies.			-	on the virtual dick will be tool.	ALL PRODUCE PROPERTY.			
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443	Information, C	()	2023-12-15, 1	222	07	Controller ID+ 0 KD + 0 is using CacheCad	CTM2						
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22	Enformation (1123-11-15, 1		9	Controller EV 8 Initialization consists on	in a						
20	Information, C		3023-12-15, 1		14	Controller ID: @ Fast initialization started	0.00.0						
54	Subsenation, C	(2023-12-18, 1	8.224	54	Cantroller 3D: 8 Policy change on 1D: 8 Pr	evicus - Curre	A Marine B	falley: Write Back, New - Current Write Policy: Write Throu	eh:			
330	préarmation, c		2023-12-15, 1	7.22.1	33	Controller ED: 0 10 to available. VD: 0							
130	Enformation, C		3023-12-15, 1		50 //	Controller Str. 6 Changed VD: 0							
114	Information (3321-12-15, 1		9	Controller Er & State charger (P) = Port	4 - This Id Dreve		configured Good Current is Online				
114	Enformation, C		2023-12-18, 1	. 22	35	Controller ID: 0 State sharinge: PD = Port	4 - 71 la 12 Pres	ous - Lir	configured Dood Current = Online				
114	priformation, c		2023-12-19, 1	.22.1	55	Controller SDL 0 State change: PD - Port	4 - 7118 Previo	us = uno	onfigured Good Current – Online				
10000	prormation, C		2023-12-15, 1		58	puccessful log on to the server User: ad	un, chent: 195	190.1.1	27, Access Mode: PUR, Charlt Time: 2023-12-15, 17:18:59				
91	Information, C		2023-12-18, 1	109-	7	Cartaler D: 0 PO married: Part 4	2:1:12						
247	priormation, C		2023-12-19, 1		34	Cantraler ID: 0 Device married Device	Types Dak	Device 50	7				
91	priformation, C	()	2023-12-15, 1	7.65	34	Controller ED: 0 PD inserted: Part 4	211104						
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247	Televalue (A120-12-15, 1	220	28 11	Controller To: 0. East control channel on	2119	-					
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10	Error Level	Date / Time	Description		
114	[Information, 6]	2023-12-15, 17:39:21	Controller ID: 0 State change: PD = Part 4 - 71:1:94 Previous = Online Current = Unconfigured Good		•
114	[Information, 6]	2023-12-15, 17:39:21	Controller ID: 0 State change: PD = Port 4 - 7:1:12 Previous = Online Current = Unconfigured Good		
114	[Information, II]	2023-12-15, 17:39:21	Controller Dir 0 State changer PD = Fart 4 - 7 Lt9 Previous = Online Current = Unconfigured Good		
129	Defensation, c)	2023-12-15, 17:39:21	Controller LC CLERING VIC D		
222	Defension (1)	2012-12-13, 17-23-0	University of the state of the		
335	Defamation, 0	2021-12-15, 17:22:57	Controller Dr. 0. VD That block table is cleared. VD: 0		
72	Driamation, 61	2023-12-15, 17:22:57	Controller EX: 0 Initialization consists on VD: 0		
70	Information, 0	2023-12-15, 17:22:56	Controller Dr. 0 Part initialization started on VD: 0		
54	Drimeton, II	2023-12-15, 17:22:56	Controller (D) () Palicy change on VD) () Provides = Current Write Palicy: Write Back: Now = Current Write Palicy: Write Through:		
370	[Information, 0]	2023-12-15, 17:22:55	Controller EC 6 VD is available. ID: 0		
138	[Information, II]	2023-12-15, 17:22:55	Controller Dr. 6 Created VDr. 0		
249	[Information, 6]	2023-12-15, 17:22:55	Controller ID: 0 VD is now CPTIMAL VD 0		
114	[Information, 6]	2023-12-15, 17:22:55	Controller ID: 0 State change: PD = Part 4 - 71:1:14 Previous = Unconfigured Good Current = Online		
114	[Information, 0]	2023-12-15, 17:22:55	Controller ID: 0 State change: PD = Part 4 - 7:1:12 Previous = Linconfigured Good Current = Online		
114	[Information, 0]	2023-12-15, 17:22:55	Controller ID: 0 State change: PD = Part 4 - 7: L19 Previous = Unconfigured Good Current = Online		
10000	[Information, 0]	2023-12-15, 17:18:58	Successful log on to the server User: admin, Client: 192, 168, 1.127, Access Mode: Full, Client Time: 2023-12-15, 17:18:58		
247	[Information, 6]	2023-12-15, 17:09:07	Controller Dr. 0 Device Inserted Device Type: Disk Device 3d 11		
91	[Information, 6]	2023-12-15, 17:09:07	Controller Dr 0 PD inserted: Port 4 - 7/1:12		
Displaying in	Determation (1)	2022-12-15 12-05-24	Costroller Dr. 0. Device losseted . Device Tuber . Disk Device 10: 7		
1.4.1					
÷	p 🛱 🍃			a ⁿ ~ 12 44	BNG 15-12-2023

• The RAID will be deleted.

🗄 🖬 🦻 🕐 🔹 Hardware E420 controller - WordFrat	- a ×
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Carbon Park Park Park Park Park Park Park Park	
3 + 1 + 2 + 1 + 3 + 1 → 2 + 1 + 2 + 1 + 3 + 1 + 3 + 4 + 3 + 4 + 3 + 4 + 3 + 4 + 45 + 1 + 35 + 1 +	
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RAID5 Configuration

VMSP Servers come pre-equipped with the hardware controller and provide the following specifications:

No. of HDD Provision	HDD data transfer rate (in MBps)	Net Capacity (in GB)	Bandwidth (in mbps)	No. of IP Cameras
8	245	57344	600	255
Notoo	•	•		•

Notes:

- 1. This server has a provision of 8 HDDs
- 2. Approx. 245 MBps is the data transfer rate of a single HDD which is written in the Technical Datasheet of respective HDDs manufacturer.
- 3. The bandwidth field specifies the approx. bandwidth required for 255 IPC of 2MP resolution for recording.
- 4. Another system is required for monitoring other than the above specified details in the Datasheet.
- 5. By default, no RAID Configurations will be provided.

Now, you can proceed further with the installation of the SATATYA SAMAS components.

Installing SATATYA SAMAS Components

The following are already installed in the VMSP Server:

- Management Server
- License Server
- Recording Server
- Notification Server
- Transcoding Server
- ONVIF Server
- IVA Server
- Admin Client
- Smart Client

Create/Upgrade/Backup Database

The SATATYA SAMAS allows the user to create a new database and upgrade or take the backup of the existing one. Click on the links below for detailed information.

"Creating/Upgrading Database"

"Database Backup"

Creating/Upgrading Database

You can create and upgrade the SAMAS Database using Database (DB) Utility.

The DB Utility can be opened either by clicking on the **Click Here** link just after completion of the installation or click on your PC Search option and enter **Database Utility**. Click the same.

<u>13</u>	DataBase Utility App	
Searc	h the web	
, a	dataBase Utility - See web results	
, o	lataBase Utility	

The SATATYA SAMAS Database Utility window appears.



Make sure you have MS SQL Server 2008 on which the SAMAS database can be created.

🖹 SATATYA SA	MAS Database Utility	-	×
🖹 MAT	SATATYA SAMAS Database Utility		
@T)	Setup		
Ðø	Create/Upgrade Database		
	Maintain		
Eÿ	Backup Database		

Click Setup to create or upgrade an existing database.

The database utility setup page appears as shown below. Click **Change Settings** and select the **New Database** check box. Specify the Database Connection Settings as described below.

👬 SATATYA SAMAS Databa	-		×	
CALL SATA	TYA SAMAS Database Utility			
Database Type	MS SQL V	L	Jpgrade	
Server	KHUSHALSOJITRA\SQLEXPRESS	Char	nge Setti	ng
Authentication Mode	SQL Server Authentication ~	Sav	ve Setting	9
User Name	Sa	Test	Connecti	on
Password	•••••			
Database Name	SATATYA_SAMAS2			
New Database				
		Back	Clo	se

• Database Type: The database type supported is MS SQL Server.

• Server: Specify the database Server Name in the following format:- Database server name\Instance Name e.g. dbserver\sqlexpress.



The Server Name is the name/IP of the system where the MS SQL Server (DB Server) is installed.

- Authentication Mode: Select the desired option from the drop-down list— SQL Server Authentication or Windows Authentication.
- User Name: Specify the User Name of the user of SQL Server. By default, User Name is sa.
- Password: Enter the Password of the user of SQL Server. By default, Password is Matrix@123.



The password is case-sensitive. Make sure it is entered in the same format as mentioned above.

• Database Name: Specify the Database Name of the SAMAS application. By default the application creates a database by the name of "SATATYA_SAMAS".

Click **Create** to start the creation of the database.

SATATYA	SAMAS	Х
i	Database created successfully. Please restart Management Server and Notification Server.	
	ОК	

Click **Test Connection** to test the connection with the database server. The connection will be successful only if all the parameters have been configured correctly.

Save the settings once done by clicking Save Setting.

You can now start using the SAMAS applications installed on the computer.

Once the SAMAS database has been created using the above procedure, the administrator needs to subsequently only use the **Upgrade** option as and when required. Do not select **New Database.**

Click Upgrade to upgrade the database.



Database Backup

In the event of software or hardware problems, it is always a good idea to have a recent copy of your database files. The **Backup** option allows the administrator to take backup of the database at regular intervals.You can take the backup of the database using the Database Utility.

The Database Utility can be opened either by clicking on the **Click Here** link just after completion of the installation or click on your PC Search option and enter **Database Utility**. Click the same.

DataBase Utility									
Search the web	Search the web								
AdataBase Utility - See web results	>								

The SATATYA SAMAS Database Utility window appears.

👬 SATATYA SA	MAS Database Utility – 🗆 🗙
🖹 MAT	SATATYA SAMAS Database Utility
(MT)	Setup
Eo	Create/Upgrade Database
(E)))	Maintain
	Backup Database

Click Maintain to take the backup of the database.

👯 SATATYA SAMAS Database Utility				×
號 MATRIX	SATATYA SAMAS Database Utility			
Backup				
Database Type	Sql Server			
Server Name	KHUSHALSOJITRA\SQLEXPRESS			
User Name	sa			
Database Name	SATATYA_SAMAS2 ~			
Backup Path	C:\Program Files\Microsoft SQL Server\MSSQL15.SQLEXPRESS \MSSQL\Backup\			
Backup				
·	I	Back	CI	ose

- Select the Database Name from the drop-down list.
- In **Backup Path**, the path of the backup file is displayed where the MS SQL has been installed. This path cannot be changed.

• Click **Backup**. The system will start the backup process as shown below.

👯 SATATYA SAMAS Database Utility —			-		×
💐 MATRIX	SATATYA SAMAS Database Utility				
Backup					
Database Type	Sql Server				
Server Name	KHUSHALSOJITRA\SQLEXPRESS				
User Name	sa				
Database Name	SATATYA_SAMAS2 ~				
Backup Path	C:\Program Files\Microsoft SQL Server\MSSQL15.SQLEXPRESS \MSSQL\Backup\				
Backup Please wait					
		Ba	ick	Clo	ose

On successful completion of the process, the system displays the path as well as the name of the backup file.

🖹 SATATYA SAMAS Da	tabase Utility	-		×
😹 MATRIX	SATATYA SAMAS Database Utility			
Database Backup fi \MSSQL15.SQLEXP \SATATYA_SAMAS2	le C:\Program Files\Microsoft SQL Server RESS\MSSQL\Backup 2_17052023_160628.bak generated Succes	sfully		
Backup				
Database Type	Sql Server			
Server Name	KHUSHALSOJITRA\SQLEXPRESS			
User Name	sa			
Database Name	SATATYA_SAMAS2 ~			
Backup Path	C:\Program Files\Microsoft SQL Server\MSSQL15.SQLEXPRESS \MSSQL\Backup\			
Backup				
		Back	Clo	ose

The database backup file is created at the specified location as shown below:

Backup					- 🗆 X
File Home	Share View				^ 🔮
Pin to Quick Copy access	Paste Baste Shortcut	Move Copy to * Copy	ame New folder	Properties	Select all Select none Invert selection
CI	ipboard	Organize	New	Open	Select
Image: A state of the state					
$\leftarrow \rightarrow \land \uparrow$	« Microsoft SQL Server	> MSSQL15.SQLEXPRESS > 1	VISSQL > Backup	ע ט ג⊂ Sea	rch Backup
E Desktop	🖈 ^ Name	^	Date modified	ype Size	
Downloads	* SATATVA_SA	MAS2_17052023_160628	17-05-2023 16:06 B	AK File 1	3,529 KB

Setting-up the VMSP Server using the Manager Utilities

Once the SAMAS Database installation is successfully completed, the you must perform the following steps before configuring the *Admin Client*.



The Management Server, License Server and Database must be in the same network, in-case of Server Based License Dongle.



Crystal Reports Runtime 13.0 which is required for report generation and must be installed where Management Server is installed. Matrix does not provide this software for installation.

Step 1: Configure License Server Settings using the License Server Manager Utility.

The License Server Settings helps to configure the Listening Port of the installed License Server.

- Ensure that you have license dongle with you and the License Server and Dongle must be on the same PC.
- Click on your PC Search option and enter License Server Manager. Click the same.



• The License Server icon appears in the Tray. Right-click on the License Server icon.



• Select Configuration Settings. The SAMAS Server License Manager window appears.

SAMAS License Server Manager		
License Server Port	8095	
Debug Enable		
	OK Cancel	

License Server

• Specify the Listening **Port** on which License Server communicates with the Management Server.

Debug

- Select the **Enable** check box to enable the debug. Click **Export Logs** and specify the path of the local system where you wish to store the logs.
- Click **OK** to save the License Server Settings.

Now from the Tray, right-click on the **License Server** icon again and select **Start License Server** to start the server.

Step 2: Configure Management Server Settings using the Management Server Manager Utility

The Management Server is responsible for centralized authentication, logging (events, actions, user activities, etc.) and configuration of the security system consisting of video surveillance devices.

• Click on your PC Search option and enter Management Server Manager. Click the same.

Best match
Management Server Manager
Search the web
Management Server Manager - See web results
℅ Management Server Manager

• The Management Server icon appears in the Tray. Right-click on the **Management Server** icon.



Select Configuration Settings. The SAMAS Management Server Manager window appears.

 SAMAS Management Server Mana	ager	×
Management Server		
Non SSL	SSL	
Admin Client Port	8711	
Recording Server Listening Port	8090	
Media Client Port	8085	
COSEC Port	8089	
IVA Server Port	8100	
SAMAS TCP API Port	8200	
SAMAS HTTP API Port	8300	
Transcoding Server Port	8400	
ONVIF Server Port	8500	
License Verification		
Select Mode	Service Based 👻	
IP Address	127 . 0 . 0 . 1	
Port	8095	
Debug		
Enable	[♪	
	OK Cancel	

 In the Management Server Manager window, enter Port configurations for establishing communication with Admin Client, Recording Server, Media Client, COSEC Server, IVA Server, HTTP and TCP Port and License Server with SSL or Non SSL connection as required.

The following communication between Client and Server will be secure.

Client	Server
Media Client (Smart Client, Multi- Monitor Client)	Management Server
IVA Server	Management Server
Media Client (Smart Client, Multi- Monitor Client)	Recording Server
IVA Server	Recording Server

The Non SSL connection ports are shown as below:

SAMAS Management Server Man	ager 🗙
Management Server	
Non SSL	SSL
Admin Client Port	8711
Recording Server Listening Port	8090
Media Client Port	8085
COSEC Port	8089
IVA Server Port	8100
SAMAS TCP API Port	8200
SAMAS HTTP API Port	8300
Transcoding Server Port	8400
ONVIF Server Port	8500
License Verification	
Select Mode	Service Based 🔹
IP Address	127 . 0 . 0 . 1
Port	8095
Debug	
Enable	[≁
	OK Cancel
	OK Cancel

License Verification for Non SSL

License Verification for Non SSL connection can be done with **Service Based** mode where the license dongle is to be connected to the License Server machine.

IP Address: Enter the IP address of the License Server machine where the Licensed Dongle is connected.

Port: Specify the Listening Port on which License Server communicates with the Management server.

Debug

Select the **Enable** check box to enable debug. Click **Export Logs** and specify the path of the local system where you wish to store the logs.

The **SSL** connection port settings is shown as below:

SAMAS Management Server Man	ager X
Management Server	
Non SSL	SSL
Enable Secure Connection	✓ ⊥
Admin Client Port	7711
Recording Server Listening Port	7090
Media Client Port	7085
COSEC Port	7089
IVA Server Port	7100
SAMAS TCP API Port	7200
SAMAS HTTP API Port	7300
Transcoding Server Port	7400
ONVIF Server Port	7500
License Verification	
Select Mode	Service Based 👻
IP Address	127 . 0 . 0 . 1
Port	8095
Debug	
Enable	
	OK Cancel

To know more about **SSL** refer to the SATATYA SAMAS Installation Guide.

License Verification for SSL

License Verification for SSL Connection can be done with Service Based or Device Based mode.

Service Based

Select Service Based mode from the **Select Mode** drop-down list if the license dongle is to be connected with the License Server machine.

- IP Address: Enter the IP address of the License Server machine where the Licensed Dongle is connected.
- **Port:** Specify the Listening port on which License Server communicates with the Management server. Make sure the same Port number is entered in the License Server.



To know more about Device based license refer to the SATATYA SAMAS Installation Guide.

Debug

Select the **Enable** check box to enable debug. Click **Export Logs** and specify the path of the local system where you wish to store the logs.

• Click **OK** to save the settings.

Now again from the windows taskbar, select **Start Management Server** to start the service on the system.

Step 3: Configure Recording Server settings using the Recording Server Manager Utility.

The Recording Server is responsible for communicating with the video surveillance devices, recording the video streams into its storage drive, and streaming live and recorded videos to the clients.

• Click on your PC Search option and enter Recording Server Manager. Click the same.

Best match
Recording Server Manager
Search the web

• The Recording Server icon appears in the Tray. Right-click on the Recording Server icon.



- Click Configuration Settings and the following configuration window appears.
- Select Configuration Settings and the SAMAS Recording Server Manager window appears.



It includes the configuration of Management Server, Recording Server as well as the Debug. For details, click on the respective link.

"Management Server" "Recording Server" "Debug"

Management Server

For the Recording Server (RS) to communicate with the Management Server (MS), a connection between them needs to be established by configuring the MS IP Address and Port in the RS-Manager. But it is not necessary that both the components are located in same network (private), they may be located in two different networks (public). Hence, SAMAS allows to configure 3 Preferred Networks where you can add private network as well as public network of MS.

Expand the **Management Server** panel as shown below to configure parameters for Preferred Network 1 (PN1), Preferred Network 2(PN2) and Preferred Network 3 (PN3).

Management Server		
Preferred Network 1		
IP or Server Name	127.0.0.1	
Port	8090	
Preferred Network 2		
IP or Server Name		
Port		
Preferred Network 3		
IP or Server Name		
Port		
Recording Server		
Debug		

- IP Address or Server Name: Enter either the Private or Public IP address of Management Server or enter Host Name, Domain Name or Server Name of ISP1 and ISP2.
- Port: Enter either Private or Public Port.

Recording Server

Live Stream of the cameras can be accessed using clients such as Admin Client, Smart Client and IVA Server. For this, clients has to communicate with the Recording Server (RS).

Also, it is not necessary that both client and RS are located in the same network, they may be located in two different networks. So to serve both the scenarios, SAMAS allows to configure preferred networks, where user can add private as well as public networks of RS.

Expand the **Recording Server** panel as shown below to configure the following parameters.

0
1
168.103.99
)

- SSL Port: Specify the SSL Port where secure connection with RS will be established.
- Auto Add Device Port: Specify the Auto Add Device Port to communicate with SATATYA Devices like VMSP Server and automatically add the devices into SAMAS.

Recording Server (RS) will listen to Auto Addition Device request on this port.

 Auto-Detect IP Address: If the Auto-Detect IP Address check box is enabled then IP Address of your PC where Recording Server is installed is considered as IP Address of Recording Server. Whenever the IP Address of the PC is changed then the same is updated as Recording Server IP.

If Auto-Detect IP Address is disabled then you need to specify the **IP Address** and **Port** of Recording server.

Enter the following parameters of Recording Server in Preferred Network 1,2 and 3.

- IP Address or Server Name: Enter either Private or Public IP address of Recording Server. In this field, you can also enter Host Name, Domain Name or Server Name of ISP1 and ISP2.
- Port: Enter either Private or Public Port on which RS listens client request.

For Private Network, enter the 'Recording Server Port'.

For Public network, enter the forwarded port (ISP1 Port/ISP2 Port) that has been mapped with the internal 'Recording Server Port'.

• Click **OK** to save settings.

Debug

SAMAS Recording Server Manager	×
- Management Server	
 Recording Server 	
* Debug	
Trace Settings	
Trace Log	
Communication Log	
IP-Camera Log	
Matrix-Device Log	
OK Cancel	

· Select the check boxes of the desired options for which you wish to enable debug. Click

Export Logs and specify the path of the local system where you wish to store the logs.

- Now again from the windows taskbar, select Start Recording Server to start the service on the system.
- The Recording Server will show Activation Pending till the server is not activated. The Servers are activated from the Admin Client. Refer "Accessing the Admin Client".
- After activating, the Recording Server will start.

Step 4: Configure Notification Server settings using the Notification Server Manager Utility.

The E-mail and SMS Notification Server is responsible for configuration of Mail Server and SMS Service provider to send E-mail and SMS notifications to the User.

• Click on your PC Search option and enter Notification Server Manager. Click the same.

Best match	
Notification Server Manager	
Search the web	
Notification Server Manager - See web results	>
Q Notification Server Manager	
,	

• The Notification Server icon appears in the Tray. Right-click on the **Notification Server** icon.



Select Configuration Settings. The SAMAS Notification Server Manager window appears.

SAMA:	SAMAS Notification Ser	rver Manager	×
	User Name	admin	
	Password	••••	۲
	Login	Cancel	

- Enter the **User Name** and **Password** as configured in Admin Client.Refer "Accessing the Admin Client".
- Click Login.

SAMAS Notification	Server Manager X
User Name Password	admin
Login	Cancel

Make sure the user has the configuration rights of E-mail and SMS Settings in System Accounts of Admin Client.

The Notification Server Manager window appears as shown below:

SAMA	S Notifica	ation Server Manager		×
Email	SMS	Debug		
- Email S	ettings -	SMTP Server SMTP Port Number Sender Display Name User Name Password Alert Cycle Retry Count Active Days Enable SSL Enable Sending Email	25 10 3 1	(1 - 120 seconds) (3 - 99) (1 - 9 days)
Test		Email Id		Send
			A	pply Cancel

E-mail Settings

For the E-mail Settings, configure the following parameters.

SMTP Server: Specify the IP Address or Name of the configured SMTP Server.

SMTP Port Number: Specify the TCP port for the SMTP service as set in the SMTP Server.

Sender E-mail ID: Enter the sender's E-mail ID.

Sender Display Name: Enter the User Name that will be displayed in the E-mails.

User Name: Specify the User Name as set in the E-mail account.

Password: Specify the Password as set in the E-mail account.

Alert Cycle: Specify the time in seconds between successive send attempts when the system tries to send the pending messages.

Retry Count: Specify the number of times the system needs to retry to send the same E-mail message in the event of an unsuccessful attempt.

Active Days: Specify the number of days the system needs to keep the unsent messages active in the event of the service being stopped.

Enable SSL: In the event of using an external SMTP Server like Gmail, then make sure this is enabled.

Enable Sending E-mail: Select this check box to enable the mail sending functionality.

E-mail Id: Enter the E-mail ID to check the connectivity and click Send.

Click Apply to save the settings.

Now again from the windows taskbar, select **Start Notification Server** to start the service on the system.

SMS Settings

For the SMS settings, select **Custom** as the Service Provider.

Custom Service Provider Settings

You can add a Service Provider other than the ones provided by default. To do so,

- Select Custom as the Service Provider option. Maximum 99 service providers can be added.
- Click Add + .

SMS Settings					
_	Service Provider	Custom	Ŧ	+	

Specify the API configuration parameters for the new Service Provider:

Request

Service Provider Name: This is the Service Provider's Name.

Service Provider URL: This is the Service Provider's Website used for registration etc. E.g. www.smsgatewaycentre.com.

Base URL: This is the URL to which arguments such as user name, password etc. are to be appended. E.g. http://smsgatewaycentre.com/library/send_sms_2.php?

API Argument: Enter the argument required to be mentioned while constructing the URL. E.g. "User", "Password" etc.

Argument Value: Select a value to be mapped against the defined API Argument. Select "Custom" to define a custom static value.

Click Add Argument to save the new argument and value.

Custom Service Pr	ovider		×	
Request			_	
	Service Provider Name	SMS Lane		
	Servie Provider URL	www.smslane.com		
	Base URL	http://world.smslane.com/vendorsms/Glob		
	API Argument			
	Argument Value	User Name 👻		
	Custom			
		Add Argument Cancel		
API Argument	Argument Va	lue Delete		
User	User Name	Ē		
Password	Password	Ē		
	Argument Separator	;		
	Request Method	POST		
	Request Preview	http://world.smslane.com/vendorsms/ GlobalPush.aspx??		
Balance			_	
	Balance Check			
	Balance URL			
		Apply Can	cel	

Response	
API Response	Error 404
SAMAS Response	Failure
	Add Response Cancel

Argument Separator: Define a character that can be used as a valid separator between arguments used to construct the API URL. E.g. "&".

Request Method: Select a method by which the request is to be sent.

Request Preview: Displays the preview of the updated API request.

Balance

Balance Check: Select this check box if you want the Balance URL to be displayed.

Balance URL: Displays the URL, which can be edited, if required.

Response

API Response: Define the response or error codes. Maximum 99 responses can be configured.

SAMAS Response: For the configured API response, select the corresponding SAMAS Response. Such as Success or Failure. E.g. Error 404 should be considered as Failure.

Click Add Response to save the response configuration.

Debug

Email	SMS	Debug		
Trace S	ettings		Enable	

Select the **Enable** check box to enable debug. Click **Export Logs I** and specify the path of the local system where you wish to store the logs.

Click **Apply** to save the changes.

Now from the Tray, right-click on the **Notification Server** icon again and select **Start Notification Server** to start the service.

Communication of Management Server (MS), Recording Server (RS) and License Server (LS)

If the License Server is located at the Head Office - 192.168.104.20, Management Server is at the Branch Office - 192.168.104.17 and Recording Server with cameras is located at the Server Room - 192.168.104.23

To view cameras in the Server Room from Branch Office, specify the License Server Port (where SAMAS Dongle is connected) in the License Server Manager of Branch Office PC.

License Server			
	Port	7010	
Debug			
E	nable	\checkmark	

In the Management Server Manager enter the License Server IP 192.168.104.20 and Port 7010.

SAMAS Management Server Manager	
Management Server	
Non SSL	SSL
Admin Client Port	8711
Recording Server Listening Port	8090
Media Client Port	8085
COSEC Port	8089
IVA Server Port	8100
SAMAS TCP API Port	8200
SAMAS HTTP API Port	8300
Transcoding Server Port	8400
ONVIF Server Port	8500
License Verification	
Select Mode	Service Based
IP Address	192 . 168 . 104 . 20
Port	7010
Debug	
Enable	
OK Cancel	
Now the Recording Server is installed at 192.168.104.23. So open the Recording Server Manager and enter the IP Address as 192.168.104.17 and port as 8090 of MS.

Management Server		
Preferred Network 1		
IP or Server Name	192.168.104.17	
Port	8090	
Preferred Network 2		
IP or Server Name		
Port		
Preferred Network 3		
IP or Server Name		
Port		
Recording Server		
Debug		

The RS will send request to MS to activate. From the Admin Client the RS has to be activated and then cameras of the RS can be viewed in the Smart Client.



For the Version details about each Server, right-click on the particular Server icon on the Windows taskbar and click **About** as shown below.

About	×
SATATYA SAMAS License Server	
Copyright © Matrix ComSec 2014 www.matrixcomsec.com	
All rights reserved	

To configure the IVA Server, refer to the SATATYA SAMAS Installation Guide.

Configuring the VMSP Server

Accessing the Admin Client

Follow the step-by-step installation procedure as instructed in the Installation Guide. On



completion of installation, the *Admin Client* shortcut icon Admin Client appears on your Windows desktop.

Make sure you have provided full access rights (manually) to the SATATYA SAMAS Admin Client Folder you installed.

Double-click on this icon to launch the *Admin Client* application. The login page appears as shown below.

an MATR	SATATYA SA Admin Client	MAS	
👗 User Name		٢	
<u>У 8 5 К</u>	tv c		
Remember Pa	issword	Login	
		igot i associa:	

To access the Admin Client, make sure the Management Server is installed and configured, so that the connection between the Admin Client and Management Server (MS) can be established.

Follow the steps below:

Click to expand the panel. Enter the IP Address and Port.

SATATYA SAMAS Admin Client
Login via SSL SSL Capton SSL Capton SSL Forgot Password?

SATATYA SAMAS Admin Client	
192.168.111.164 8711	©-
≗ admin 	
V 8 5 K t V C y85Ktv	
Login via SSL Forgot Password?	

- IP Address or Server Name: Enter either Private or Public IP address of Management Server. You can also enter the Host Name, Domain Name or Server Name of ISP1 and ISP2.
- Port: Enter either Private or Public Port.
- The first login can be performed using the default User Name "admin".
- Enter the Captcha code. The Captcha code helps in increasing security of application by differentiating between real and automated users. Click **Refresh** to refresh the Captcha code.
- Click Login.

- At the time of first login, you will be prompted to set a new password. The SAMAS stores a list of frequently used passwords in a database and compares the new password with the same. SAMAS will not allow you to configure such frequently used passwords to enhance security.
- To create a strong password make sure you enter one special character, one number, one lowercase and one uppercase character. The Password Meter displays the strength of the password you enter. Make sure you enter 12 characters (default value) as the password length. For details, refer to SATATYA SAMAS Admin Client Manual, General Settings > System Settings > Password Settings.
- Click Show to view the password. The icon toggles to Hide so to hide the password.

SATATYA	SAMAS
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Stron	ی ۱g
•	۲
Remember Password	Login Cancel
Please set a password to log in to	your account.

Thus, the user can now use the new credentials to login into the Admin Client.



At the time of first login, you will be prompted to set a new password. Create a strong password and make sure you note it down in a secure place for future reference.



Select the I accept the terms and conditions of End User License Agreement (EULA) check box and click Submit.



The SATATYA SAMAS Admin Client Homepage appears as shown below:

For configuring, refer to the SATATYA SAMAS Administrator Guide.

Accessing the Smart Client

Follow the step-by-step installation procedure as instructed in the Installation Guide. On

completion of installation, the Smart Client shortcut icon



desktop.



Make sure you have provided full access rights (manually) to the SATATYA SAMAS Smart Client Folder you installed.

Double-click on this icon to launch the Smart Client application.

The Smart Client login page appears:

SATATYA SAMAS Smart Client	
🋔 User Name i€ Password 👁	•
C Captcha Code Remember Password Login Auto Login Forgot Password?	

Customized logo will be shown on the login page, Set Password and Forgot Password page instead of **MATRIX** logo, if it is configured in SAMAS Admin Client. Refer SATATYA SAMAS Administrator Guide for the configuration of custom logo, in General Settings > System Settings > Logo Personalization.

Follow the steps given below to configure the network parameters.

Click to expand the panel. Enter the IP Address and Port.

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		SATA Smar	ATYA SAMAS rt Client	
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		g admin	۲	
		rgjyve8		
			Forgot Password?	

• IP Address or Server Name: Enter either Private or Public IP address of Management Server. In this field, you can also enter Host-name, Domain name or server name of ISP1 and ISP2.

Port: Enter either Private or Public Port.

- The first login can be performed using the default User Name "admin".
- Enter the **Captcha code**. The Captcha code helps in increasing security of application by differentiating between real and automated users. Click Refresh to refresh the Captcha code.
- Click Login.
- At the time of first login, you will be prompted to set a new password. The SAMAS stores a list of frequently used passwords in a database and compares the new password with the

same. SAMAS will not allow you to configure such frequently used passwords to enhance security.

- To create a strong password make sure you enter one special character, one number, one lowercase and one uppercase character. The Password Meter displays the strength of the password you enter. Make sure you enter 12 characters (default value) as the password length. Make sure you note down the created password at a secure place for future reference. For details, refer to SATATYA SAMAS Admin Client Manual, General Settings > System Settings > Password Settings.
- Click Show et to view the password. The icon toggles to Hide et al. Click Hide

SATATYA S Smart Client	SAMAS
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	Strong
Remember Password	Login
 Auto Login Please set a password to log in to ; 	Cancel your account.

• Click Login. The Smart Client Home page appears.

Thus, the user can now use the new credentials to login into the Smart Client.

The Smart Client home page appears.

SAMAS S	mart Client	 1% € ¢	≝ ସ	Ø 8	⊚- ■	T	x
Live View Playback Inve	stigator Alarms Emaps	System Monitor	Dashboard				
enteras verteras ver						Details	
My Views 🔻						Camera Controls	
Window Sequences 🛛 🔻						PTZ Controls	
Device Audio 🛛 🔻						Monitor Controls	
COSEC Doors 🛛 🔻						Events	
Manual Triggers 🛛 🔻						Event Counter	
Map List 🛛 🔻						Emap Alerts	
Layouts 🔻							
		EventLog >>	< 1/75	✓ > 10 Sec	• 🕑 👻		
	Severity \Xi Time	Event					
					•		

Customized logo will be shown on the Title Bar of each tabs instead of **MATRIX** logo if it is configured in SAMAS Admin Client. Refer SATATYA SAMAS Administrator Manual for the configuration of custom logo, in General Settings > System Settings > Logo Personalization.

For detailed configurations, refer to the SATATYA SAMAS Smart Client Manual.

Accessing the Multi Display Client (from separate workstation system)

The Matrix Multi Display Client¹ provides the user with an interface to view live stream of cameras on Multiple Displays configured on a single System. The single CPU can connect to multiple Displays through a graphic card.

Sometimes it is desirable to view various Camera Stream on different Displays to get a large Desktop Space in a single System. The Multi Display Client serves this purpose. The user can view the live stream through the created views.

For details, refer to the SATATYA SAMAS Multi Display Manual.

^{1.} In the future releases, the Multi Display Client will be merged with the Smart Client.

Accessing the Media Player (from separate workstation system)

The Matrix SAMAS Media Player provides the user with an interface to view the records stored in Backup Storage. With the Media Player, user can scan the video records, perform basic playback functions viz. 'Play', 'Pause', 'Stop', 'Smooth Reverse Play', 'Speed-up', 'Speed-down', 'Previous frame' and 'Next frame'.

It is also sometimes desirable to play recorded videos from selected cameras in a synchronous manner i.e. all videos being played synchronously with reference to a single time instance. This feature shall also be supported in the Media Player. Also the IVA operations can be performed with the SAMAS Media player.

For details, refer to the SATATYA SAMAS Media Player Manual.

Appendix

Disposal of Products/Components after End-Of-Life

Main components of Matrix products are given below:

- Soldered Boards: At the end-of-life of the product, the soldered boards must be disposed through e-waste recyclers. If there is any legal obligation for disposal, you must check with the local authorities to locate approved e-waste recyclers in your area. It is recommended not to dispose-off soldered boards along with other waste or municipal solid waste.
- **Batteries:** At the end-of-life of the product, batteries must be disposed through battery recyclers. If there is any legal obligation for disposal, you may check with local authorities to locate approved batteries recyclers in your area. It is recommended not to dispose off batteries along with other waste or municipal solid waste.
- Metal Components: At the end-of-life of the product, Metal Components like Aluminum
 or MS enclosures and copper cables may be retained for some other suitable use or it
 may be given away as scrap to metal industries.
- **Plastic Components:** At the end-of-life of the product, plastic components must be disposed through plastic recyclers. If there is any legal obligation for disposal, you may check with local authorities to locate approved plastic recyclers in your area.

After end-of-life of the Matrix products, if you are unable to dispose-off the products or unable to locate e-waste recyclers, you may return the products to Matrix Return Material Authorization (RMA) department.

Make sure these are returned with:

- proper documentation and RMA number
- proper packing
- pre-payment of the freight and logistic costs.

Such products will be disposed-off by Matrix.

"SAVE ENVIRONMENT SAVE EARTH"



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