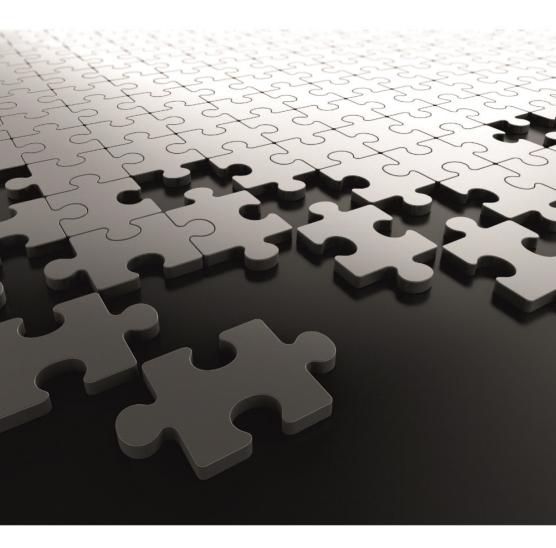
# SATATYA VMSP Server Quick Start







## **Matrix SATATYA VMSP Server**

Video Surveillance Solution

**Quick Start** 



## Documentation Disclaimer

Matrix Comsec reserves the right to change, at any time, without prior notice, the product design, specifications, components, as engineering and manufacturing may warrant.

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



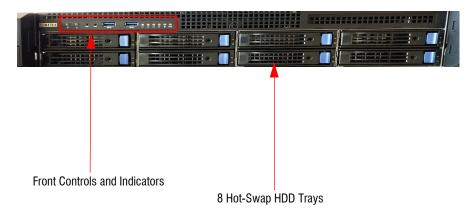
**SATATYA VMSP2020XCTP:** VMSP having configuration of SATATYA SAMAS Platform License (Default Licenses: 5 Camera License, 1 Concurrent User License, 1 ANPR, 1 CREAM, 1 EIVA, 5 VTPM, Matrix Access Control Integration and Multi-display) and expandable upto 255 IP channels using SATATYA SAMAS Software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

### **VMSP** Panels

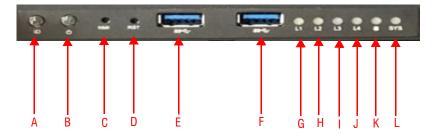
You can view the details of the panel below:

### VMSP2020XCTP

### Front View - VMSP2020XCTP

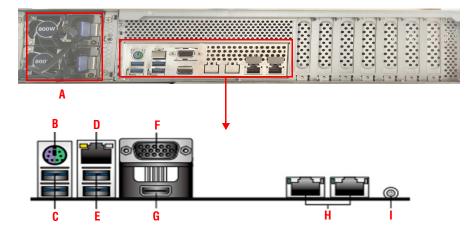


### Front Controls and Indicators - VMSP2020XCTP



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
I	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			
С	USB 3.2 Gen1 Port 5	To connect USB Mouse/Keyboard.			
U	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.			
G	Display Connectors	HDMI 2.0b			
н	10G RJ45 Port 1	To connect Ethernet cable to the port of the Server.			
11	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 Вау	
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 Panel Lite device	
Audio In/ Out	No In built	
USB	<ul> <li>4x USB3.2 rear</li> <li>2x USB3.0 front</li> <li>1x USB3.2 onboard</li> <li>1 x USB3.2 Gen1 (header, 2 ports)</li> <li>1 x USB2.0 (header, 2 ports)</li> </ul>	
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	

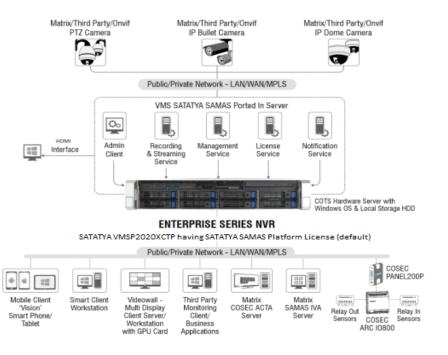
Power Consumption	To be Calculated*	
MECHANICAL		
Dimension (D x W x H)	625 x 482.6 x 87mm (24" x 19" x 3.5")	
Material	SGCC	
Nett Weight	12.8 KG	
ENVIRONMENTAL		
Operating Temperature	<ul> <li>Operation temperature: 10°C ~ 50°C</li> <li>Non operation temperature: -40°C ~ 70°C</li> </ul>	
Relative Humidity	Non operation humidity: 20% ~ 90% ( Non condensing)	
CERTIFICATION		
CE; FCC; BIS	Work In-Progress	
SOFTWARE		
Operating System	Microsoft Windows 10 IoT Enterprise LTSC HIGH END	
Event Database	Microsoft SQL Server Express Edition (upto 10 GB of Storage)	
Software	Video Management Solution - SATATYA SAMAS	
VIDEO SURVEILLANCE MANAG	GEMENT	
IP Camera Channels	5 IP Channels (User can expand up to 255 IPC using SAMAS software Cam licenses)	
Resolution Support	12MP, 8MP, 5MP, 3MP, 2MP, 720P, D1, CIF	
Compression	H.265, H.264, MJPEG	
Onvif Profile Support	Onvif S and G	
IP Camera Supports	Matrix Brand, Third Party - Onvif Profile S and G Supported	
Active Directory Support	Yes	
User Roles and Rights	Yes	
DISPLAY		
Split (Through LAN/HDMI)	1x1, 2x2, 3x3, 4x4, 5x5, 6x6, 8x8, 1+3, 1+5, 1+7 and Sequential Views and Windows Sequence	
Local Decoding	1x 4K/ 4x 1080P/ 16 x D1 @H.264	
Digital Zoom on Live	Yes	
Snapshot	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	
Adaptive Recording	Automatically Reduces the Number of Frames Captured Per 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)	
Business Application	SAP, ERP and PoS	
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	16 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	
Maximum User	99+1	
Remote Operation	Monitor, PTZ Control, Playback, System Setting, File Download, Log Information,	

PERCEPTIVE MONITORING FEATURES			
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)		
EVENTS & ACTIONS			
EVENTS	Video Surveillance Events, System Events, User Events, Audit Trails Events		
Recording on Selected Channel, Upload Images on F server, Email Notification with Snapshot, Trigger IVA, Recall PTZ P 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.		

Important Notice	This Product uses 'Microsoft Windows 10 IoT Enterprise Version" as an Operating System. So, the server can not be used as a General Purpose application other than E-NVR/VMSP Server. The included Microsoft Windows Operating System must only be used together with the Product (E-NVR/VMSP Server) and must hence not be used on any other computer hardware. The terms and conditions for the use of the Microsoft Windows Operating System is regulated by Microsoft's End User License Agreement and it is accepted to the End User ("Customer purchasing the E- NVR/VMSP Product").
*	*Work and Validation in Progress

#### 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.

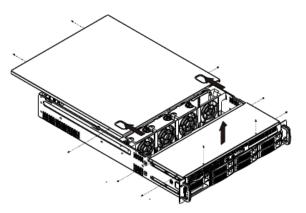
For details, refer to "Package Contents".

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

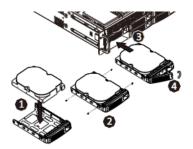
VMSP Server support maximum 8 Hard disks. Each hard-drive can support upto 18 Terabytes. By default, no Hard disk is provided with the system. You can install them as per your requirement.

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.



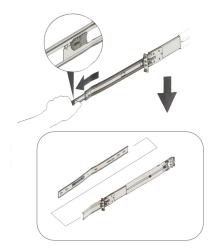
Maximum torque to be applied for tightening the screws is 3 kgf.cm. Applying more than specified torque will cause a damage to the HDD and the emboss.

### 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.



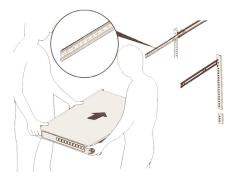
• Fasten it with the P-head to make sure it is well locked and the inner rail does not loosen from the system.



• Attach the outer rail to the rack.



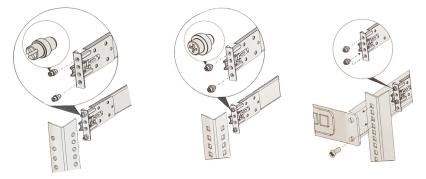
• Make sure the bearing retailer in locked forward. Horizontally install the system half way into the slide rail.



• 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.



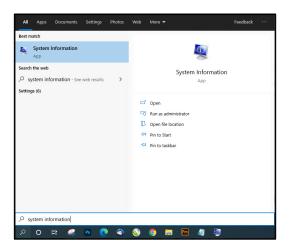
• Below is the image of the cable, using which you can connect the RAID controller to the expander backplane of the Server.



 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.

e Edit Vew Help	ten	value	
ystem Summary	Name	Microsoft Storage Spaces Controller	
Hardware Resources	Manufactarer	Microsoft	
- Conflicts/Sharing	Status	CK	
CMMA	INP Device ID	BOOTISMCEPORT/2000	
- Forced Handware		clainedewriupsterrisztjonwrrispaceport.sys (10.0.17703.1.637.80 KB (653,112 -	
-10	Driver	Charles and Charle	
Memory		AutoD MegaRAD SAS Adapter	
Components	Name	Augsted	
- Matimeda	Manufacturer	OK CK	
Audie Codecs	3586,5	PC/VEN_100080EV_005085U85Y5_936A100088EV_02VAA20178650980800020	-
- Video Codecs	PNP Device ID	044220000-04420111	
- CD-ROM	Memory Address	BALLORD GRADATT	
-Sound Device	Memory Address	BLA15000 0000 mm	
- Display	BRD2 Channel	80,43946725	
- Infrared	FIQ Charnel	NU 4/9490/200 NU 4/94967284	
to aput	RQ Charrel RQ Charrel	BO 4294957283	
Keyboard	RO Chanel	HQ 4294597282	
- Pointing Device	IRQ Chamel	PRL 4294997281	
Modem	IRQ Channel	RD 4234047280	
Network	IRQ Charael	RQ 4254947279	
- Adaptar	R0 Chanel	RO 4214/62276	
- Protecci - Werker	RQ Charrel	RQ 42/48/J277	
8-Refs	BQ (hanel	BQ 4294107276	
- Senal	RD chamel	80.4294967275	
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E Storage	RD Charnel	IRQ 4294567223	
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- Disks	RQ Channel	RQ 4294567771	
B	RQ Channel	RQ 454967270	
DX ·	BC Charvel	NQ 4554967269	
- Preting	IRD Channel	HG 4/54907200	
Problem Devices	WD Channel	BQ 4294967267	
- 058	RQ Channel	IRQ 4294967266	
B Software Environment	RQ Charnel	RQ 4234967265	
	RQ Chartel	IRQ 4234/67254	
	RQ Charrel	#11,4234567263	
	HQ Chavrel	IND 4294097262	
	10 00000	en estanthis	
Find what		Find Dose Find	
	d category only	Search category names only	

• 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				Х
			L	SI 🎌
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	iew.			
🗌 Use LDAP Login 🛛 🥹				
IP Address: 192.168.1.127 Discover Host	Stop Discovery		<u>C</u> o	nfigure Host
Remote gervers:		1		
Host DESKTOP-89R5H63	IP Address 192.168.1.127	Operating System Windows 8	Health Optmal	
DESKTOP-B9RSH63	192.168.1.127	Windows 8	Optmal Optmal	
Login				
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.)

MegaRAID Storage Manager 13.04.04.00 -	Host View			×
				LSI
Server Details This page displays all the servers that were discor You will be prompted for entering host credentials Use Configure Host to configure the hosts that yo Use LDAP Login	s while logging in.		×	
IP Address: 192.168.1.127		LSI		Çonfigure Host
Remote gervers: Host	Server :	192.168.1.127 Use your Operating System's login username	Health	
DESKTOP-89RSH63	Liser Name:	and password to login the MSM server	Optimal	
	Password: Login Mode:	Full Access 🗸		
		Login Cancel		
Login				

• 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.

MegaRAD Storag	pe Manager - 13.04.0	1.00				
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Dashinand Physical	Logical					THEOREM, BATH (CARANT
Controller: AVAD	D MILLIPLAN SAL SHI	million 128 Day 00				
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sil trobures					State gave oberations is buddeners o	
				tel capacity:		
Endplaces:	•			28 18		
CP Drivest	3			Configured Capacity: 0 Bytes		
Crive groups:					Drive operations in progress: 0	
When privately			•	Unconfigured Capacity: 2,720 TB		
			200%			
they serve profile					Mare deliala	
Menal All Advanced			deline			
MenaRATO FarrEnts		Enabled				
Measure Calleca		Enabled	Create victual drive		How to use MSH2	
NeosBatt SafeStee		English	Create CacheCade***-550 Ca	aching	them to meate virtual drive?	
MINIMAZI RAZDE		Enabled	Lead configuration		How to enable MegaRAID Advanced Software Optione?	
MegaRAED RAZES		Enabled	update frevare		dosary	
					STORE &	
Manage MegaRAID.	Advanced Selfonane O	25012	Stenie alors			
-						
	ar Level	Date / Time		Description		
0000 Brfc	ormation, 0	0022-12-15, 1711	1.58	buccessful log on to th	and the server User: admin. Clent: 192, 168.1, 127. Access Mode: Fu	. Clert Time: 2022-12-15.17:18:58
247 2+4:	presion ()					
11 [prife (47 [prife	armation, 0] prmation, 0]	2022-12-18, 17.0	107	Cavitraties ED: 0 PD at	entedi Port 4 - 715 12 sinserted Device Type: Dak Device Id: 7	
	emation, 0					
		2022-12-19, 17.0	1.28	Controller ID: 0 Devic	a inserted Device Type: Disk Device 55: 55	
1 Dr4:	ermation, (d)	2023-12-15, 17-0	- 38	Controller ID: 0 PD in	serted: Port 4 - 7:15 area sharood on emilia et al. 5 An - 4	
	armatian, Cl	2022-12-15, 16-2			peed changed on enclosure: 1 Fan 4 peed changed on enclosure: 1 Fan 3	
	smation, G	3023-12-15, 15-2	151	Controler ID: 0 Farm	peed changed on enclosure: 1 Fan 2	
44 Dr.6:	ormation, 0	2023-12-15, 16-2	1:51	Controller ED: 0 Time	established since power on: Time 2023-12-15, 36:20:51 99	leconds
195 Nor	ming, U preation, of	24 seconds from	eceos	Nervreer ID: 0 880	isobled; changing UB logical drives to UT, Parced WB iCs are no a merited. Device Type: Endoaure Device 33. 9	APROX A
et pro-	ormation, O	34 seconds from	shoot	Controler ID: 0 PD in	network 9	
147 Defe	emolien, O	14 seconds from	elena)	Certraler ID: O Com	surication reviored on endosure: 1	
16-4 (br6)	ormation, of	22 seconds from	ebeot	Cantralier ED: 0 SES	ndoeure decovered: 1	
286 281 286	emotion, (d)	12 seconds from	epoor.	Controler (Dr. O. Board	Revelor: 058 or version: 24.21.0-0189	
(A) Non-		13 seconds from	ahoor	Controlar I'v A fath	na hant Granaent	
newtool of you re-		_				e <sup>n</sup> ∧ t <u>a</u> d≬ two
	H 💄 🖡					

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

	ED Storage Manager - 1					- 0 X
	To Log Icols Help					
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						LSI
						LOI
					Welcome: admir	(Nal Access)
Deebboard	Physical Lenical				Webone1.edm	Pui Acom)
		A 939-10 (But 138, Dev 0)				
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	00		Usage		Stadiume Cateriane	
A Date		o sea			What drive aperations is properties 0	
El troise	res: 1					
III Sectors				Total capacitys		
-> Drivers				2.729 78	Create Vistual Drive - Chaster mode X	
				Configured Capacity: D Bytes		
Crive g	oupe: 0				LSU	
Vrtuel			1000	Unconfigured Capacitys 2,728 78		
			100%		This worard will help you quiddy create varual drives.	
Tien se	eer profile					
					Orosee how to create the virtual drive:	
					* indi	
	Advanced Software Option		Actions	-	Topeofy a limited number of settings and have the system paix drives for you. This is the excess way to create a	
Megalitizz		Brokled	Create vetalitidere		vitual drive.	
Negatiax	CacheCade Pro 2.0	Enabled	Overte CasheCade*** - 1	III Cadave		
MegaRA3	SafeStore	Enabled			Olderend	
MegaRAX	RAIDS	Chebled	Load configuration		Occurs additional settings and customize virtual drive creation. This option provides greater flexibility when creating	
MediRAX	PAINS	Grabled	Update females		verbal drives for your specific requirements.	
			Since sizes			
Macaga	segaRAID Advanced Soft	1000.000000				
10	Error Level	Dele / Time		Description		
10000	Deformation, 00	2023-12-15, 1718		Successful log on to the		
247	Enformation, 01	2023-12-15, 17:0	847	Controller ID: 0 Devic	AG	
91	[Information, d]	2023-12-15, 17:0	ka)	Controller ED: 0 PD in	In the second se	
247	priorvator, d	2023-12-15, 17/3	\$34	Cantralier ID: 0 Devic	AND METERS METERS AND	
247	Defermation, 0	2023-12-18, 17/3	2.38	Cantralier ID: 0 PD #	Valentelli Port 4 - 73 14 de Foncteur Ferner Tale - Del Devan Million - 10	
91 243	(Information, 0)	2023-12-15, 1793	2.38		inseried: Port 4:7)19	
243	Deformation, 0)	2023-12-15, 16:3	0.51	Controller ID: 0 Fan:	n speed changed on enclosure: 1 Pan : 4	
243	Drivenation, 0) Drivenation, 01	2023-12-15, 16:2	0.51	Controller ID: 0 Fan:	n speed funded on endbarre: 1 Fan 3 named funded on endbarre: 1 Fan 3	
243	Enformation, (1)	2023-12-15, 16:2	0.51	Controller Ets Q Fan I	n apeed changed on enclasure: 1 Fan 1	
44	(Information, d)	2023-12-15, 16:20	0.51	Controller ID: 0 Time	te established ance power on: Time 2022-12-15, 16:20:51 99 Seconds	
245	(Marring, 5) Defermation, 0)	24 seconds from a 24 seconds from a	reboot		U diable/di diargen (Williopal dirves to VT, Porced WII VCs are not affected one inserted Deviation Town - Revisioner Device 10, 9	
91	(Information, 0)	34 seconds from a	rebook	Controller ID: 0 PD in	inserted 3	
157	Drivenation, 0)	34 seconds from t		Controller ID: 0 Com	emunication restored on endosure: 1	
154	Drivenation, 0) Drivenation, 01	32 seconds from a 12 seconds from a		Controller Et: 0 SES	5 ereleaure discoverent 1	
266	Deformation, 0)	12 seconds from 1 12 seconds from 1			end Ravision: 038 Sase version: 24/21-04/259	
	Retention of	12 seconds from a	orboot	Controller Dr. O. Kath	Mar a Kert Diseased	
+	р 🖽 🍤	M 18				A <sup>β</sup> ∧ \$20 di ENG 17:20 □

• The RAID options will be appear based on the number of disks inserted. For example, here we have selected the RAID 5.

1	Storage Manager - 13.04					- a ×
		1.04.00				- 0 ×
	o Log Jock Help					
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						LSI
						LOI VI
					Wildows: admin (h	ull Access) Los Off
Dephoord pt	voted Logical					
Controller:	AAAGO NegeliA3D SAS 93	984-8426s 138,Dev 0)				
Properties			USING		disclorand forestone	
	C Costru					
🌧 Status	Copena Copena					
all trobuses					graad drive operations in progress: 0	
				Total capacity:		
E Dackplanes	ы 0			2,728 18		
C Divers					Create Virtual Drive - Drive group and Virtual drive settings X	
				Configured Capacity: 0 Bytes		
Drive group	pe: 0				LSIX	
			A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O	Unconfigured Capacity: 2,729 TB	LSI	
🕑 Witwei Driv	+(A) 0		1000	- 2.72818		
Venterver			100%		Use the suggested virtual drive settings or change then if needed.	
THEN DECKE	DOUGH I				Pick a RAD level to specify the amount of fault talerance and performance for the virtual drive(s).	
					BAD 5      This RAID level is suitable for multi-user environments()stabase     the suitable for multi-user to see and fails researching if end activity.	
MegaRATD Ad	vanced Software Options -		Actors		RAD 5 - Final This RAD level is subable for nulf-user environmental/stableses	
NegeRAD Fe	and and	Enabled	Create virtual drive		EFT on up shared and with a fe to and an up to the second strength.	
	direCade Pro 2.0		Create Vital Brid		Assign a hot spare will be assigned depending upon the availability of eligible hot spare candidate drives A hot	
		trabled	Overte CatheCade** - 5	ID Carbon	Ansyn a hyt topre 4(3) pare drive take over a failed with and ensures that the data remain	
NegeRAID Se	fe2are	Enabled			Use drive security ging bries security method will be avagined depending upon the controller	
MINISTER OF	1756	Enabled	Load configuration			
			Update fromare		to the data in the drive	
NegaRAID RA	408	Enabled	Contraction of the local division of the loc		ystaal drives	
Manage Mag	aRAID Advanced Software	Cotone	Sience alarm		Select number of virtual drives to oreste.	
					Greethy	
					Lata TB - Oscillation of the structure drived classification of the structure of the struct	
10	Error Level	Date / Time		Description		
10000	Information, 05	2023-12-15, 17:1	10:50	Successful log on		^
247	Information, 6 Information, 6	2023-12-15, 17:0		Controller ID: 0		
247	Information, Cl	2023-12-15, 17/3		Controler ID: 0	Cancel (pair (print	
81	Enformation, ()	2023-12-15, 179	0.14	Controler ID: 0	PD Interfact: Port 4 - 71014	
247	Information, pl	2023-12-15, 17/3	12, 28	Controler ID: 0	Printerina Contraction Data Device 50, 20	
91	Information, Cl	2023-12-15, 17/0	2:35	Controler ID: 0	PD Interfect: Port 4 + 71(r)	
243	Information, (§	2023-12-15, 06:2	0:51	Controller ID: 0	Fan speed changed on endosure: 1 Fan 4	
243	Information, 6	2023-12-15, 56:2			Fan apeed changed on endoeure: 1 Fan 3	
243	(Information, C)	2023-12-13, 34/2			Panspeel charged on enclosures 1 Pan 2	
243	Information, ()	2023-12-15, 16:2			Fan speed changed on endosure: 1 Pan 1	
44	Information, 6] [starring, 1]	2023-12-15, 96c2			Time established since power on: Time 2023-12-15, 16(2):021. W Seconds time dealeded characteristic diverse to VT. Proceed into VD. are end affected.	
247	(Information, Cl	24 seconds from			Bild dauking) diserging IIII logical drives la VPT, increde IIII VPS are not affected.	
81	Information, ()	24 seconds from		Controler ID: 0		
167	Information, pl	24 seconds from	reboot	Controler ID: 0	Communication restored on endoques: 1	
194	Information, Cl	32 seconds from	reboot	Controler ID: 0	325 endoure dooverel: 1	
286	Information, (4	12 seconds from	reboot	Controller ID: 0	loard Revision: 000	
261	Information, 6	52 seconds from	reboot	Controller ID: 0	adage venion 34.31.0-0199	
147 Displaying log fr	Brownen 11	17. seconds from	celoud.	Destroles ID- 0	Reflect Ref Preparit	
		_				
= o	- H	N				A <sup>R</sup> ∧ 13 40 ENG 15-12-2023 10
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• After selecting the RAID, click Next, You will see the summary of the selected RAID.

Streetwork	Storage Manager - 12	2010100					- 0 X
guoteb	s Log Icols Help						
🖲 🛸 🕗	= -C 🕗						
							LSI
							LOI
							Welcome: admin [Full Access] Log Off
Deshboard pty							
	AVAGO Megentato sal	19364-8@ke 138,Dev 0)					
Properties			Chage		Background Operations		
A Date:	🙂 Op	tmal					
sil Indearer					Sintual drive operations in progress: 0		
En Droberres	1						
III Endployee				Tetal capacity: 2,728 TB	Create Virtual Drive - Summary	×	
<> Driver							
				Configured Capacity:		LSI	
Drive group	0 100					L31-7*	
Fill Writed Drive			10000	Choordgured Capacity: 2,728 TB			
-			100%			ections. The virtual drive( $x$ ) will be created when you click finish.	
Yes server	profile				Summary:		
					Date Protection:	Disabled	
					BAID level:	RAID 5	
NegaliA30 Adv	ranced Software Option	re .	Actions		Number of virtual drives:	1	
MIGHTAD FM	1711	Enabled	Create virtual drive		Capacity of each virtual drive:	1,910 10	
MenaRATI Ca	cheCade Pro 2.0	Enabled			Not Space :	No	
Mean AD In		Enabled	Create CalleCade <sup>TT</sup> - 15	D Cadrog	Drive security method:	No encryption	
			Load configuration		Number of drives used:	3	
NegaRA3D RA		Enabled					
NegeliA30 8.4	405	Enabled	Update fravore				
Manager Mana	RAD Advanced Softw	are Onlines	Sience alors				
10	Error Level	Oate / Time		Oescription			
10000	Enformation, (§	2022-12-15, 12:1	1.72	Successful log on to the se			
					<	>	
91	prformation, 0	2022-12-15, 17.0	9.07	Controller ED: 0 PD inser			
247	Enformation, () Enformation, ()	2023-12-15, 17-0 2023-12-15, 17-0	6:34	Controller (Dr. 0. Device in Controller (Dr. 0. PO mer		Cancel Book Enish Help	
047				Controller ID: O Device in	ented Device Type: Disk Device 14: 12		
11	Enformation, O	2022-12-15, 17.0	2:39	Controller IDs 0 PD inter	ed: Port 4 - 711 P		
243	Information, ()	2023-12-15, 15-2	9:51	Controller ED: 0 Fan spor	d changed on endosure: 1 Fan 4		
243	Deformation, Cl.	2023-12-15, 16-2	0:51		d charged on enclosure: 1 Fan 3 d charged on enclosure: 1 Fan 2		
243	Enformation, O	2023-12-15, 16:3	0.51	Controler ID: 0 Fan oper	d changed on endosure: 1 Fan 2 d changed on endosure: 1 Fan 1		
	Enformation, ()	2022-12-15, 15:3	9:51	Controller (Dr. 0) Time eat	blahed since power on: Time 2023-12-15, 39:30:51 99	Seconda	
185	(Warrang, 1)	34 seconds from 14 seconds from	releast	Controller ID: 0 BBU dise	and, shanging VIB logical drives to UT, Parcent VIB VDs are no	I affected	
247	priformation, 0 Enformation, 0	34 seconds from		Controller ID: 0 Device in Controller ID: 0 ED inter	erted Device Type: Endoure Device Id: 9		
91		34 seconds from			cation restored on endosure:		
18-1		32 seconds from	relation				
256		12 seconds from	reboot	Controller ED: 0 Board Ra	vision: 058		
81 142	Enformation, ()	12 seconds from 13 seconds from		Controller ID: 0 Package Controller ID: 0 Rational	eration 2421.0-0159		
Displaying log \$1	on server						
# .P	H 💄	10 A					1732
<i>بر</i>							n <sup>2</sup> ∧ 12 de tene 15-12-2023 🖏

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

MegaRAID Store		.04.00			- 0	×
Manage Go To Lo						
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					LSI	22
					Welcome: admit [Full Access]	Los Off
<b>Dashboard</b> Physical	Logical					
Controllers AVAL	IO MegaRAID SAS 90	64-8(0.s 138,0ev 0)				
Properties			Usige		Rackgound Operations	
🌨 Slabor	Optim.					
S Enclosures	1		10010		groual drive operations in progress: 0	
E Deckplanes:				al capacitan 29 TD	Create Vistual Drive - Summary	
C Drivery						
Sel Drive groups			•	Configured Capacity: 2.728 18	LSIX	
	1			Unconfigured Capacity: 0 Bytes		
Vrtual Drive()():	1			0 Bytes	Review the summary and go back if you need to make corrections. The virtual drive(ii) will be created when you click finish.	
Very perver profile					Semant	
					Data Protection: Disabled	
					RAID level: Create Virtual Drive	
MegaRA3D Advance			Actions		Number of virtual (	
MegoRA30 PoorPath		Crebled	Create virtual drive		Capacity of each vi iii The Vitual drives were successfully created. Boo Spare :	
NegaRA3D CacheCa		Enabled	Dreate CacheCade** - SSD Ca	ating	Drive security met	
NegaRA3D SafeStor	14	Crabled	Losd configuration		Master of drives to	
MegeRA3D RAID6 MegeRA3D RAID6		Enabled	Update firmware			
Managa MagaRAI	Advanced Software	Options	Mence alarm			
	or Level	Date / Time		Description		
338 24	formation, 0)	2023-12-15, 171	22/87	Controller 3D: 0 Controller #		
335 Dr/	formation, 0) formation, 0)	2023-12-15, 17: 2022-12-15, 17:	22:57	Controller 3D: 0 10 Bad bloc Controller 3D: 0 Systematic		-
20 Def	formation, 0) formation, 00	2023-12-15, 17: 2023-12-15, 17:		Controller 30: 0 Stitulization Controller 30: 0 Fast initiality	e Cancel Beck Briefs 1960	- 11
54 50	formation, 0	2022-12-15, 171	221.96	Controller 30: 8 Policy chan		
330 Dri	formation, 0) formation, 0)	2923-12-15, 17: 2023-12-15, 17:		Controller 3D: 0 10 is availa Controller 3D: 0 Created VD		_
249 244	formation, 0)	2923-12-15, 171	22.55	Controller 3D: 0 10 is now C	OPTEMAL VD 8	
	formation, 0) formation, 0)	2023-12-15, 17: 2023-12-15, 17:			rge: DO = Nort 4 - 7:1:14 Previous = Unconfigured Good Current = Online Pipe TO = Nort 4 - 7:1:14 Previous = Unconfigured Good Current = Online Pipe TO = Nort 4 - 7:1:12 Previous = Unconfigured Good Current = Online	_
114 Drf	formation, 01	2023-12-15, 171	22:55	Controller 30: 0 State chara	nos: PD = Port 4 - 7:19 Previous = Unconfigured Good Current = Online	
	formation, 0) formation, 0)	2023-12-15, 171 2023-12-15, 179			anver User advin; Clavo: 190; 1881.1277, Access Moder Ful, Claer Trine; 2022-12-13, 121; 1878 metric Device Trans. Deb Device 10: 11	_
91 Dr.	formation, of	2022-12-15, 179	09037	Controller 3D: 0 PD interfo	rad: Part 4-71112	_
247 04	formation, 0) formation, 0)	2923-12-15, 179 2023-12-15, 179	05:34	Controller 3D: 0 Device ins Controller 3D: 0 PD inserts	new Head Darvice Types: Dak Device Id: 7	_
247 244	formation, 0)	2923-12-15, 179	02:35	Controller 3D1 0 Device ins	nertel Device Type: Dek Device 3d: 18	_
91 DM	formation, 0]	2023-12-15, 179 2023-12-15, 180		Controller 3D: 0 PD inserts	radi Dari4-7:13 edilongo di enviologeni 1 Pen - 4	
	formation (2)	2023-12-15 16	25.0	Controller Xir. 0. Fan men	en uneque un museur i a con - r	~
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Q. #	Ħ 🗦				یلا <sup>0</sup> ∧ ۲۵۵ وال ۲۵۹ م ۱۶-12-2021	1

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

	e Manager - 13.04.04.00				- n ×
				-	- a ×
Managa Gollo Log					
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					_SI ╬
					-DI 4/5
			Welcone as	dmin [Full Access]	Log Of
Dashboard Physical 4	Logical				
DESKTOP 698,9463		Properties			
AVAGO MecaRX	420 SAS 9364-0(Due 130 Dev 0)	roperces			
B-See Drive Graups	x 0, RAID S	General			
to the wood D	2rivefal:				
	ual Drive: 0, 1.515 TB, Optimal	Total Capacity	1.618.78		
⊖ 🖨 Drives:	leaver 380336303009 (9), Sloti 9				
	ionure: 380316303009 (9), Siet: 5				
	logure: 300316303009 (V), Slot: 1		No		
		Data Protection Properties:			
		Data Protection	Destried		
		Cella Presección	Unaded		
<		>			
**					
	c Level Date / Ti		Description		
		ne 15. 17:23:17	Laterpoon Controles 27:0 VD : 8 is using CacheCade(7H)		
	mator, 0 2023-12- mator, 0 2023-12-	15, 17:22:17	Controler 30: 0 VD : 6 in using CasheGades(%). Controler 30: 0 CasheGareageata Abata resear		^
		15, 17:22:57 15, 17:22:57	Controller To Controller Industra Index Currecton Controller To III That Index Chile A devend, NO D		
72 (Infor	metor, 6 2023-12	15, 17:22:57	Controler 2010 9 Disea 1000 Alberts Control 40 V		
70 3150		15. 17:22:56	Controller 3D: 0 Past initialization started on VD: 0		
S4 Barton	metor, E] 2023-12-	15, 17:22:56	Controller ID: 0 Policy change on VD: 0 Previous = Current Write Palicy: Write Back; Now = Current Write Palicy: Write Through;		
370 Infor	emotor, 6] 2123-12-	15, 17:22:55	Controller ID: 0 YD is available. YD: 0		
135 (Infor		15, 17:22:55	Controller ID: 0 Created VD: 0		
249 Ginfor		15, 17122155	Controller 3D: 0 VD is new OPTIMAL VD 0		
114 Dafee	metor, t] 2023-12-	15, 17:22:55	Controller 3D: 0 State change: PD = Part 4 - 7:1:14 Previous = Unconfigured Good Current = Online		
		15, 17:22:55	Controller 32: 0 State change: PD = Part 4 - 7:1:12 Previous = Unconfigured Good Current = Online		
		15, 17:22:55	Controller 3D: 0 State change: PD = Part 4 - 7:19 Previous = Unconfigured Good Current = Online		
13000 3afor 247 3afor		15, 17) 18:58 15, 17:09:07	Successful log on to the server User1 advin, Clent. 192, 198.1.127. Access Mode: Full, Clent Time: 2023-12-15, 17:18/58 Controller 3D: © Device mented: Device Type: Deli Device 3d: 11		
247 Janba	mator, 0 2023-12-	15, 17:09:07	Controller 201 0 Device metted Letter type: Unit Letter 201 11 Controller 201 0 PD Instantia Port 4-0.112		
		15, 17:06:04	Controle ID & Douce Inserting - Port - 7:012 Controle ID & Douce Inserted Design Prove: Disk Design M. 2		
		15, 17:05:04	Controller 1. F. Development (March 1997) USA Development 7 Controller 1. B. Di Vanetaria (March 1997) Development 7		
		15. 17:02:30	Controle 2: 0 Force material Device Type: Dak Device 32: 20		
\$1 Jatos	mator, E] 2023-12-	15, 17:02:38	Controller ID: 0 PO inserted: Port 4-7:19		
Displaying log from serve	enation El 2023-12-	14.16/20/81	Controller 33: E. Rin speed channel in ancien are: 3 Rin 4		· · · · ·
= 0 E	# 🐤 🖪 📰			x <sup>8</sup> ∧ 😨 40 ENG ,	15.12.2023
				A	15-12-2023 (1)

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

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	al Devec 0, 1.918 78, Opti	snal .	RAID Level		5	Default Write Policy	Write Back with 550	
E Dives	ware: 380336123009 (9),		\$29		18979	Access Policy:		
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@ took	ouve: 380336133009 (%).	Slot: 14, 54	Perity Set		931.000 G8	Current Access Policy	Read Write	
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			Write Policy:			Cached	No 2	
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10 Orner		ate / Time		Description				
443 Drfan		22-12-15, 13		Controller ID: 0 VD : 0 is using CacheCade Controller ID: 0 Controller requests a host	(M)			^
111 200		23-12-18, 13		Cardroller ID: 0 Controller requests a Fast Cardroller ID: 0 VD Red black table is cleare				
72 Drém	metor, () 200	23-12-15, 17	122:57	Controller ID: 0 Initialization complete on 1	010			
70 Drive	metors () 200	23-12-15, 17	122156	Controller ID: 0 Feet initialization started o	n VDr O			
54 Drifen	metor, El 20. metor, El 20.	02-12-15, 17 02-12-15, 17	122156	Controller ID: 0 Policy change on VD: 0 Pre Controller ID: 0 VD is evaluate. VD: 0	vious = Current Write Policy: Write Bado Now = Current Write Policy: Write Thro	oght .		
130 Dofer	metors (I 20)	22-12-15, 17	62555	Controller ID: 0 Created VD: 0				
<ul> <li>4</li> <li>5</li> <li>6 mm</li> <li>443</li> <li>9 Mini</li> <li>133</li> <li>9 Mini</li> <li>133</li> <li>9 Mini</li> <li>134</li> <li>9 Mini</li> <li>135</li> <li>9 Mini</li> <li>136</li> <li>9 Mini</li> <li>137</li> <li>9 Mini</li> <li>138</li> <li>9 Mini</li> <li>138</li> <li>9 Mini</li> <li>138</li> <li>9 Mini</li> <li>139</li> <li>134</li> </ul>	nation, E 20.	62-12-15, D	h22h\$5	Controller ED: 0 VD is now OPTIMAL VD 0				
114 Drfan	nator, E 20. nator, E 20.	02-12-15, 13 02-12-15, 13	122155	Controller ID: 0 State change: PD = Port 4	7.1114 Previous - Unconfigured Good Current - Online     7.1112 Previous - Unconfigured Good Current - Online			
114 Dofeo		22-12-18, 17	122188	Cantraler ID: 0 state dianae: PD = Port 4	<ul> <li>7) 3.9 Previous – Unconfigured Dood Current – Online</li> </ul>			
	metion, E) 200	23-12-18, 17	12:55	Successful log on to the server User Lades	in, Cleviti 192.168.1.127, Access Moder Pul, Clevit Time: 2023-12-15, 17-18-	M		
247 Drfm	netos () 20 netos () 20	93-12-15, 17 93-12-15, 17	09-07	Controller ID: 0 Device inserted Device * Controller ID: 0 PD repeted Part 4 -	Type: Disk Device Id: 11			
91 Drifer 247 Drifer 91 Drifer	neton (I 20	22-12-15, 17	105.34	Controller ID: 0 Device Inserted Device 1	Final Date Design Mr. 7			
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247 Dofen 91 Dofen	mator, 6 20. mator, 6 20.	02-12-15, 17 02-12-15, 17	102:30	Controller ID: 0 Device inserted Device * Controller ID: 0 PD inserted: Port 4 -	Type: Disk Device Id: 10			
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Displaying log from serve	r							
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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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Endosure: 380316303009 (9), Slot: 9, 54:	534		1.018 10		Access Policy:		
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Create and format hard disk partitions	~				550 Ceching	Drabled	
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• The Disk Management pop-up appears.

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olume	Layout	Type	File System	Status	Capacity	Free Spa	% Free	
(C:)	Simple	Basic	NTFS	Healthy (B	222.97 GB	167.90 GB	75 %	 
<ul> <li>(Disk 0 partitio</li> </ul>		Basic		Healthy (E	100 MB	100 MB	100 %	
Recovery	Simple	Basic	NTFS	Healthy (	499 MB	485 MB	97 %	
Dick 0								 
Disk 0	Recovery						77772	 
	<b>Recovery</b> 499 MB NTFS Healthy (OEM F	Partition)	100 MB Healthy (EFI Syste	(C:) 222.97 GB NTF Healthy (Boot		h Dump, Prima	ny Part	

• 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. Select disks:	
Uisk 1	
Use the following partition style for the selected disks:	
<ul> <li>○ MBR (Master Boot Record)</li> <li>● GPT (GUID Partition Table)</li> </ul>	
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.

T Disk Manag File Action		Help						7	×
(= =)   <u>    </u>	2 01	J 🖓 🗩							
Volume	1	Layout	Туре	File System	Status	Capacity	Free Spa	% Free	
= (C:) = (Disk 0 partiti = Recovery	ion 2) 1	Simple Simple Simple	Basic Basic Basic	NTFS NTFS	Healthy (B., Healthy (E., Healthy (.,	222.97 GB 100 MB 499 MB	167.90 GB 100 M8 485 M8	73 % 100 % 97 %	
-Disk 0			_						 -
223.56 GB	499 5	MB NTFS thy (OEM P	Partition)	100 MB Healthy (EFI Syste	0C:0 222:07 GB NTI Healthy (Boot		sh Dump, Prima	ry Part	
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- Disk 1 Basic 1061.98 GB Online	499 h Healt	MB NTFS thy (OEM F .98 GB locati	New Sirry New Spa New Strip New Mar	Healthy (EFI Syste	222.97 G8 NTI		sh Durng, Prima	ry Part	
	499 h Healt	MB NTFS thy (OEM F .98 GB locati	New Sirry New Spa New Strip New Mar	Healthy (ERI Syste ple Volume nned Volume oed Volume ored Volume 5-5 Volume	222.97 G8 NTI		uh Dump, Prima	ny Part	

• The New Simple Volume Wizard opens.

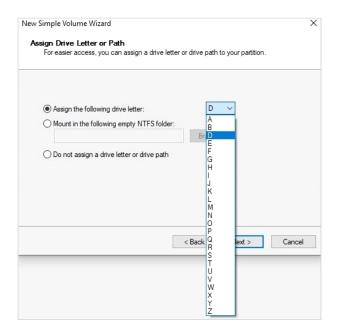
New Simple Volume Wizard	×
	Welcome to the New Simple Volume Wizard
	This wizard helps you create a simple volume on a disk.
	A simple volume can only be on a single disk.
	To continue, click Next.
	< Back Next > Cancel

• Click Next.

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

14498664
8
14498664

- 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.		
Choose whether you want to fom	ant this walking and if a	a ubstactions usu use	***
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		
Enable file and folde	r 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: Simple Volume Disk selected: Disk 1 Volume size: 14439664 MB Drive letter or path: D: File system: NTFS Allocation unit size: Default Volume label: 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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New XCTP driv	/ers				
Screenshots		Videos			
XCTP drivers	<b>1</b>	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		
9 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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Image: second			Lovel	5	Default Write Policy	Write Back with BBU	
Note:     Note:     Note:     Note:     Note:       Image:     Image:     Image:     Image:     Image:     Image:     Image:       Image:     Image:     Image: <t< td=""><td>- C Endoeure: 3</td><td></td><td></td><td>1.010 78</td><td>Access Policy:</td><td></td><td></td></t<>	- C Endoeure: 3			1.010 78	Access Policy:		
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Operation         Operation <t< td=""><td>338 Drifernation,</td><td>0 2023-12-15</td><td>7-22-57</td><td>Controller 3D: 0 Controller requests a host bus rescan</td><td></td><td></td><td></td></t<>	338 Drifernation,	0 2023-12-15	7-22-57	Controller 3D: 0 Controller requests a host bus rescan			
Open Description         Open Description         Open Description         Open Description         Open Description           101         Marcol	335 Defamation,						
Open Description         Open Description         Open Description         Open Description         Open Description           101         Marcol	72 Svarvabor,	2023-12-15,	7.22.67				
Open Description         Open Description         Open Description         Open Description         Open Description           101         Marcol	54 Defermation	303.0.15	2.22-56		rite Radio New in Current Write Policy: Histe Through:		
Instrume         Normalies         Normalies <th< td=""><td>330 Defension</td><td>2023-12-18</td><td>7 22-58</td><td>Controller ID: 0 (D) is evaluation. VD: 0</td><td></td><td></td><td></td></th<>	330 Defension	2023-12-18	7 22-58	Controller ID: 0 (D) is evaluation. VD: 0			
US         Description         Descripion <thdescription< th=""> <thdescr< td=""><td>138 Defension</td><td>2023-12-18</td><td>7,22,00</td><td>Controller 20: 0 Created VD: 0</td><td></td><td></td><td></td></thdescr<></thdescription<>	138 Defension	2023-12-18	7,22,00	Controller 20: 0 Created VD: 0			
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Display         Display <thdisplay< th=""> <thdisplay< th=""> <thd< td=""><td>114 Deformation,</td><td>0 2023-12-15,</td><td>(2.22:55</td><td>Controller 30: 0 State change: PD = Port 4 - 7: 1:14 Previous = Unconfigur</td><td>ed Good Current = Online</td><td></td><td></td></thd<></thdisplay<></thdisplay<>	114 Deformation,	0 2023-12-15,	(2.22:55	Controller 30: 0 State change: PD = Port 4 - 7: 1:14 Previous = Unconfigur	ed Good Current = Online		
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DP/Ferradus, 0         DDI 2014, DMM         Determine from types. Bit Determine from types.         Determine from types.           0         pf/related, 0         DDI 2014, DMM         Determine from types.         Determine from types.           0         pf/related, 0         DDI 2014, DMM         Determine from types.         Determine from types.           00         pf/related, 0         DDI 2014, DMM         Determine from types.         Determine from types.           00         pf/related, 0         DDI 2014, DMM         Determine from types.         Determine from types.           00         pf/related, 0         DDI 2014, DMM         Determine from types.         Determine from types.           00         pf/related, 0         DDI 2014, DMM         Determine from types.         Determine from types.           00         pf/related, 0         DDI 2014, DMM         Determine from types.         Determine from types.	247 Drfamation,	0 2023-12-15,	1/10/07	Controller all: U Device inserted Device Type: Disk Device Id: 11			
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		303-12-15	242-9	Controller Ti: 0. 20 essented: Dect 4, 2112			
Displaying log from server		0 2013-12-18	M-33-51	Controller The D. Even warmed characterizes are 1. Even 4.			
	Displaying log 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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									You have chosen to delete Virtual Disk 0. All data				
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72	Enformation, C		3023-12-15, 1	2.22	57	Controller ED: 0 Enitialization complete on							
20	Information, C	-	2023-12-15, 1 2023-12-18, 1		56	Controller ID: 8 Past initial option started		_	Indexe Write Regis New a Carrent Write Policy: Write Trends				
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• The RAID will be deleted.

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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.

App DataBase Utility	
Search the web	
	>

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		
<b>(11)</b>	Setup		
Ξ¢	Create/Upgrade Database		
(T))	Maintain		
Độ	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	se Utility	-		×
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	
AdataBase Utility - See web results	>

The SATATYA SAMAS Database Utility window appears.

👬 SATATYA SA	MAS Database Utility — 🗆 🗙	
🖹 MAT	SATATYA SAMAS Database Utility	
(F)	Setup	
Eo	Create/Upgrade Database	
<b>M</b>	Maintain	
	Backup Database	

Click Maintain to take the backup of the database.

🖹 SATATYA SAMAS D	latabase 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 D	atabase 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					
1		Ba	ack	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	-		$\times$
😹 MATRIX	SATATYA SAMAS Database Utility			
\MSSQL15.SQLEXP	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 File Home	Share View						
Pin to Quick Copy access	Paste A Cut Paste Paste shortcut	Move Copy to *	Delete Rename	New item *	Properties	🔛 Open - DEdit	Select all Select none
	ipboard	Org	anize	New	0	pen	Select
✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	Microsoft SQL Server     Name	<ul> <li>MSSQL15.SQL</li> <li>^</li> </ul>		· .	v Ö	,⊂ Sear	ch Backup
Downloads	SAIAI TA_SA	MAS2_17052023_1	160628 17		AK File		,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.

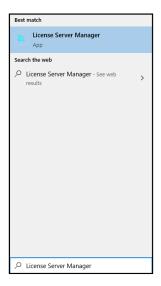


*Crystal Reports Runtime 13.0 which is required for report generation and must be installed where Management Server is installed. Matrix does not provide this software for installation.* 

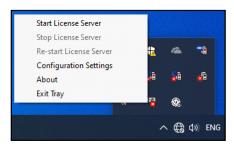
# Step 1: Configure License Server Settings using the License Server Manager Utility.

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 Ma	nager	×
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
App Management Server Manager
Search the web
Management Server Manager - See web results
𝒫 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:

SSL
SSL
~
0.1
2
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

 Select the Enable Secure Connection check box and upload the SSL certificate by clicking the Upload 
 <u>Upload</u> 
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To know more about **SSL** refer to the SATATYA SAMAS Installation Guide.

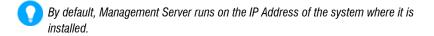
### License Verification for SSL

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	
Recording Server Manager - See web results	>
Recording Server Manager	

• 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.

- 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 Ma	inager
- Management Server	
<ul> <li>Recording Server</li> </ul>	
<ul> <li>Debug</li> </ul>	
- Trace Settings	
Trace Log	
Communication Log	
IP-Camera Log	
Matrix-Device 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.

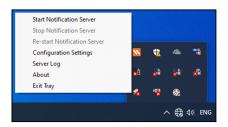
### Step 4: Configure Notification Server settings using the Notification Server Manager Utility.

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				
P 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.

 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	SAMAS Notification 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 SSL	© 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	C.

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				
	Enable	1	<b></b>	

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

SAMAS Management Server Mana	ager X
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	<b>•</b>
	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	L	Login orgot Password?	
		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 	
Y 8 5 K V C y85Kt	
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.

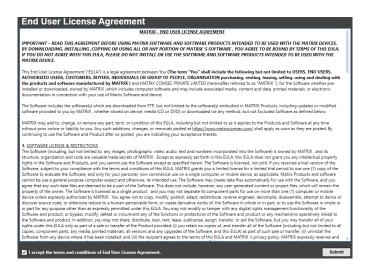
- At the time of first login, you will be prompted to set a new password. The SAMAS stores a list of frequently used passwords in a database and compares the new password with the same. SAMAS will not allow you to configure such frequently used passwords to enhance security.
- To create a strong password 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 . Click Hide to hide the password.

	MATRIX	SATATYA SAMAS Ndmin Client	
sv			
0 ••	•••••	Strong	۲
0	•••••		۲
Re	member Password	Login	
Please	set a password to	C log in to your account.	ancel

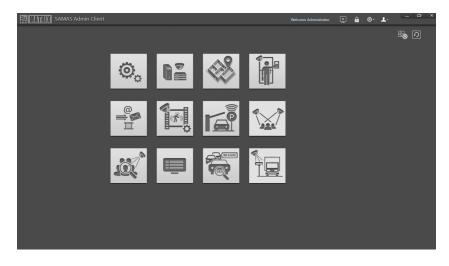
Thus, the user can now use the new credentials to login into the Admin Client.



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.

SATA Smart	TYA SAMAS Client			
Luser Name	۲	Î		
Remember Password	C			
🗌 Auto Login	Forgot Password?			
		SATA Smar	ATYA SAMAS rt Client	
		192.168.111.164 8085		٥.
		g admin	۲	
		PgjIV e 6	C	
			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 for the password. The icon toggles to Hide for the line of the line for the password.

SATATYA S Smart Client	
1 new	
	٢
	Strong
Remember Password	Login
<ul> <li>Auto Login</li> <li>Please set a password to log in to password to log</li></ul>	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
	stigator   Alarms   Emaps	System Monitor	Dashboard				
↔ Cameras ▼						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 📼 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 Client<sup>1</sup> 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.

<sup>1.</sup> 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"



### MATRIX COMSEC Pvt. Ltd.

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