PROVISION ISR®

Now you can see!

ossia VMS

OC-TS(1U) Ossia VMS Transfer Server

USER MANUAL

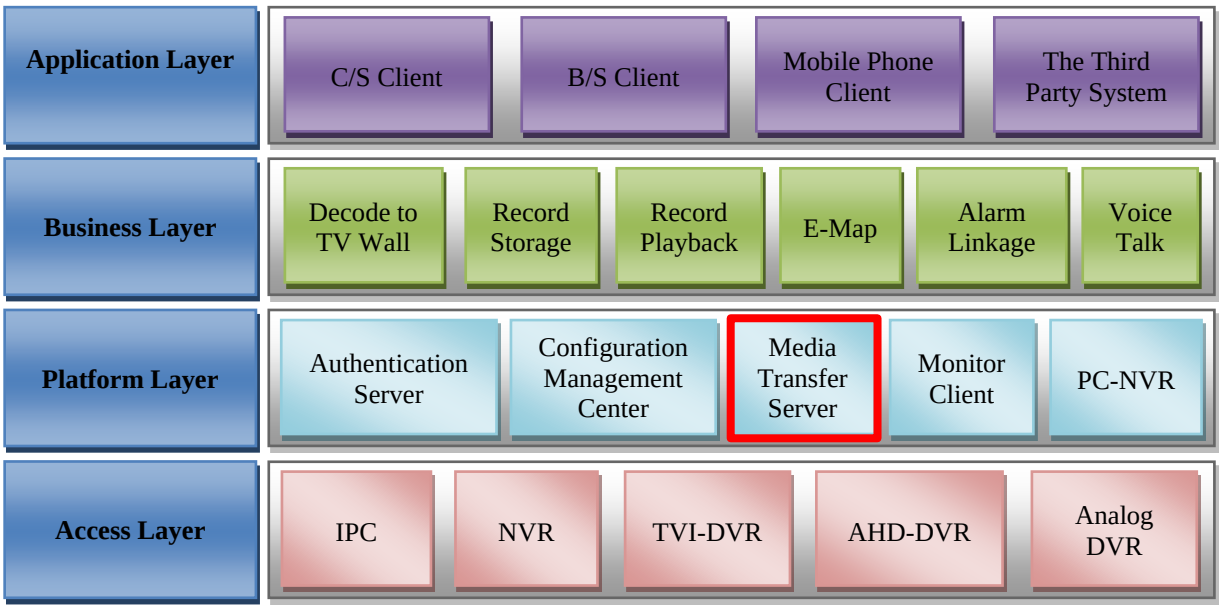
Contents

1 Introduction

1.1 Summary

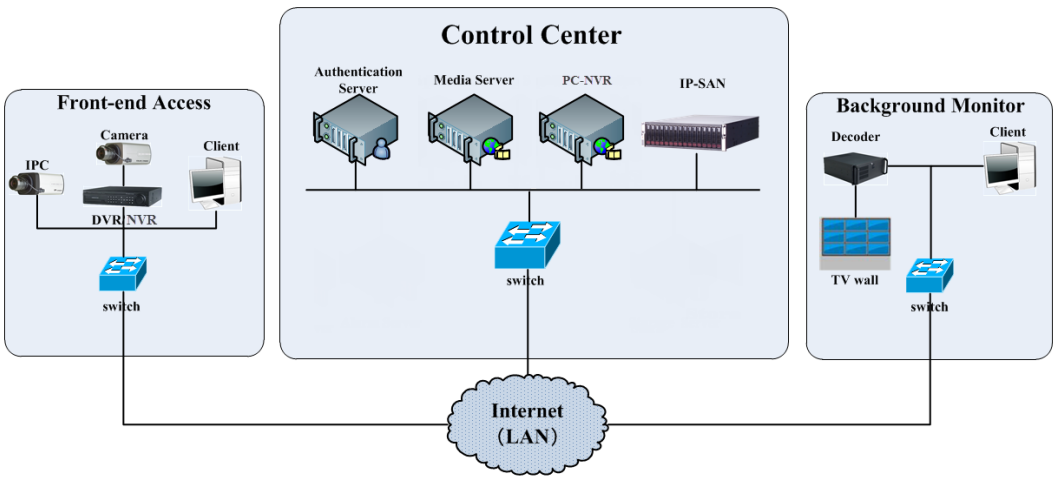
OC-TS(1U) Media Transfer server is a part of the Ossia VMS system. It cannot work independently and must be connected to any Ossia VMS managemenr server in order to be active

1.2 Software Architecture



1.3 System Components

1.3.1 System



1.3.2 System Role

The roles of the Media Transfer server are crucial. Without it, the system will not work properly and will not be able to stream video. Other roles include:

1) Streaming video to the Ossia VMS clients (PC / Web / Mobile App). Each video device you add to the Ossia VMS must be assigned with media transfer server. Once a client requests a video stream, the video will stream from the video device (IPC/NVR/DVR) to the client **via the selected transfer server.**
2) Increasing Bandwidth Capabilities: Each Transfer server will add 800Mbps to the total bandwidth of the Ossia VMS. If your calculation shows that you required bandwith that exceeds your server capacity, you will need an additional media transfer server (or more).
3) Allowing Multicast Video Streaming. Each connection to a device reduce an active user from the device. Once connected by the Ossia VMS, all clients connect to the VMS and not to the device directly and therefore only reduce one user capabilitiy.
4) Transferring device information to the management server (Saving port forwarding to all of the devices)

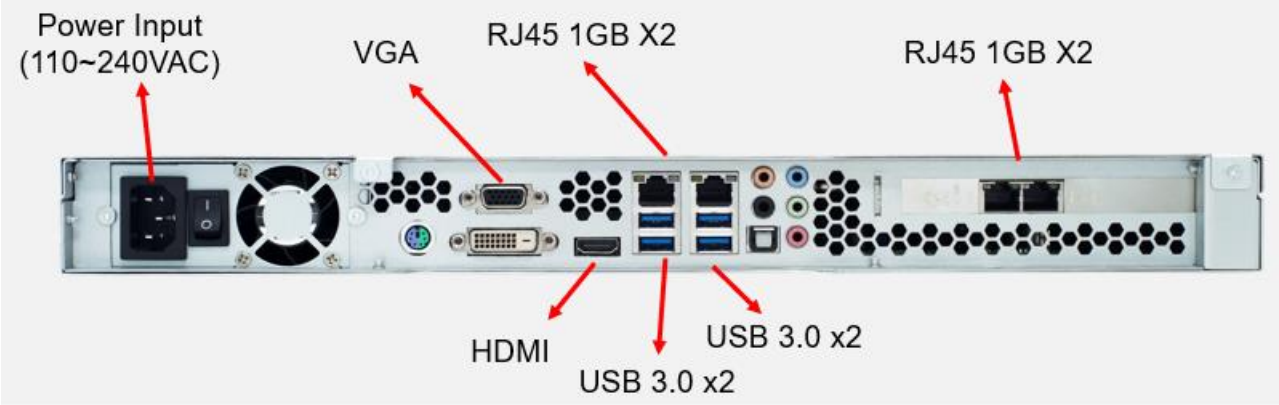
Please note: Any Ossia VMS management server has an integral media transfer server. In some cases, additional media transfer server are needed for the system to work properly.

2 Hardware installation:

The Ossia VMS HW servers are extremely simple to install. As easy as plug and play. If you are still not sure how to install it properly, please follow the quick guide below:

2.1 OC-TS(1U) HW Installation:

The OC-TS(1U) is designed to be installed inside a network rack. Install it properly before connecting the required cables and connectors as illustrated below.



1) Connect the device to and AC power outlet.
2) Connect 1-4 network cables as required
3) Turn on the device

Please note: *The OC-TS(1U) Transfer server doesn't have a UI therefore a screen is not helpfulnor needed in most cases. The screen will be helpful when BIOS configuration are needed or when the server cannot be found via the IP Manager. The monitor will show a black screen with the IP Address of the server on the top right.*

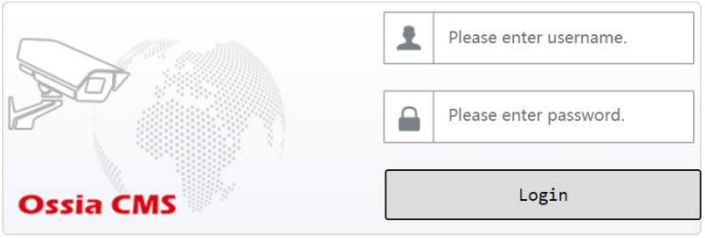
3 Management Web-Client

All the server models have management web-client. It supports IE9/IE10/IE11, Firefox or Chrome browsers for all operations except of firmware updates. In order to install firmware updates, Please make sure that your browser supports the downloading and use of the Web Client. (Only Latest IE, and old versions of Firefox and Chrome).

❖ **Login**

Input the IP address or domain name of Authentication Server and the management web server port (By default, the port is 8000). For example, http://192.168.50.3:8000/. Then input the user name and password (default is: admin/123456), select the language and platform and then click "Login" to log in to the IE client.

After logging in, you will be able to perform the following tasks: Network configuratiom, Port configuration Password change, and system maintenance (Update, Reboot, Shutdown).

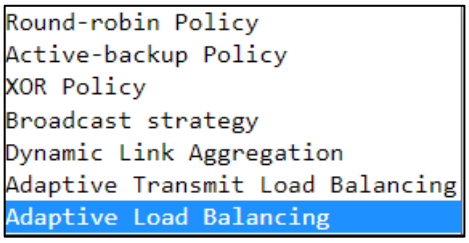


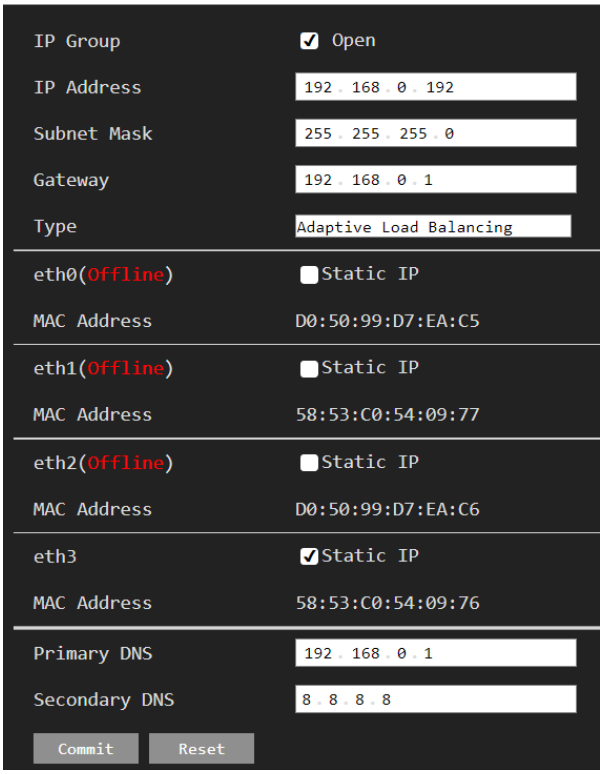
3.1.1 Network Config

In order for the server to work properly, it requires an active and valid network connectivity.

IP Group joins the configurations of all the network cards (Use it in case you are using only one network cards, or when all the network cards required identical parameters). Once enabled, the inidividual cards will become inactive and only the left section will be available for editing.
If disabled, you will need to configure each one of the 4 ports manually.

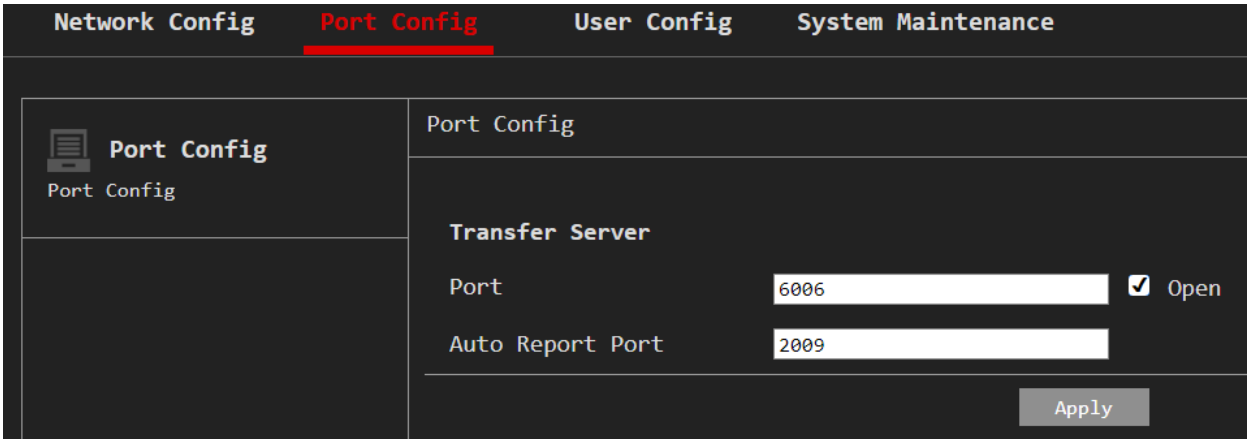
Also, the system allows different work methods for the 4 network cards as follows. Please consult your IT network administrator, to choose the best one. The default option is "Adaptive Load Balancing" which means that the system will automatically redirect network traffic between the network cards to avoid overloading one network while the other networks are not in use.





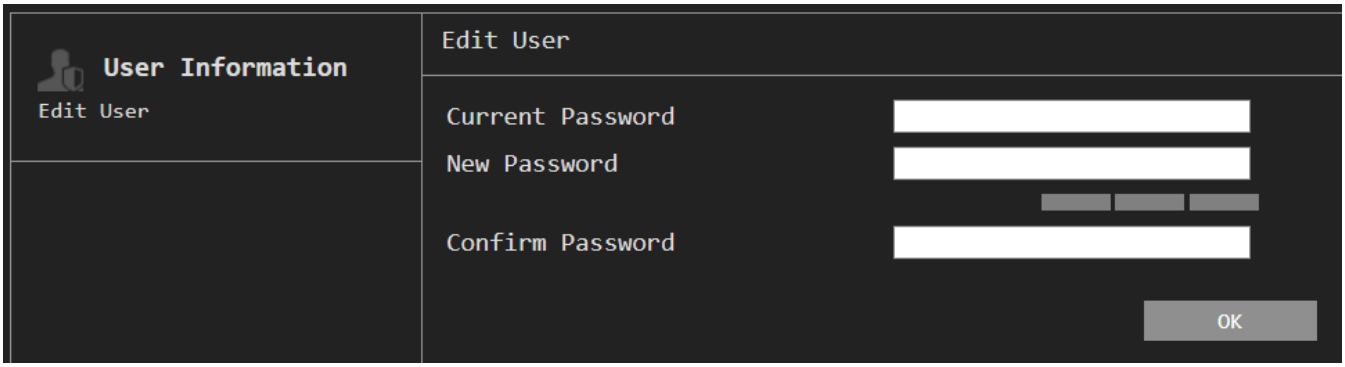
3.1.2 Server Port Config

From here you can configure the ports of the media transfer server and the "Auto report" service. If you want to connect to the server via WAN, you will have to forward these ports to the server IP on your router.



3.1.3 User Config

From here you can change the default password of the server. Input your current password and the new password you wish to set. If the server is already configured on a management server, you will need to edit the credintials on the management server as well. Otherwise, the server will be offline.



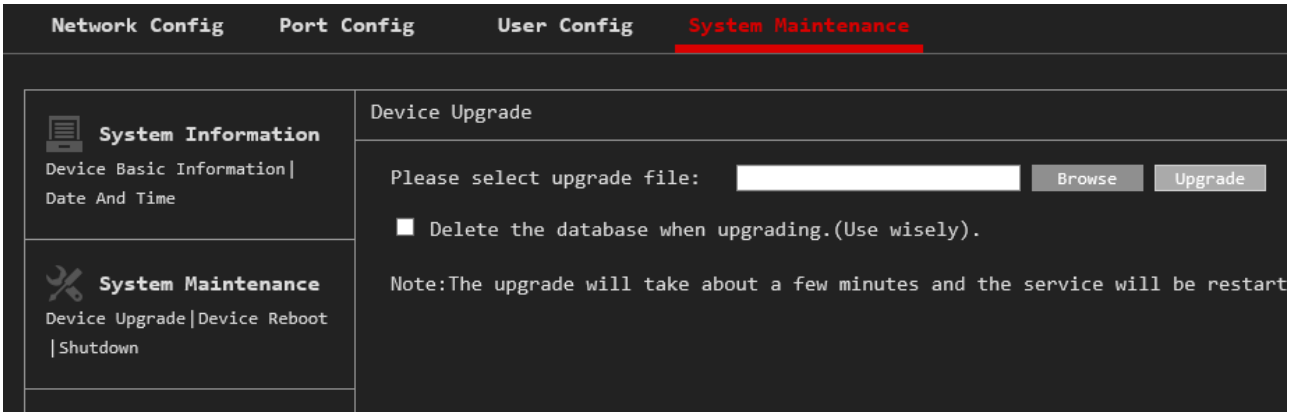
3.1.4 System Maintenance:

From here you can see the system information, set the date and time (Usually set and controlled by the management server)

3.1.4.1 Device Update:

In case a server update is needed, refer to system maintenance→Device Upgrade

1) Click on browse
2) Choose the update file
3) Click on "Update"



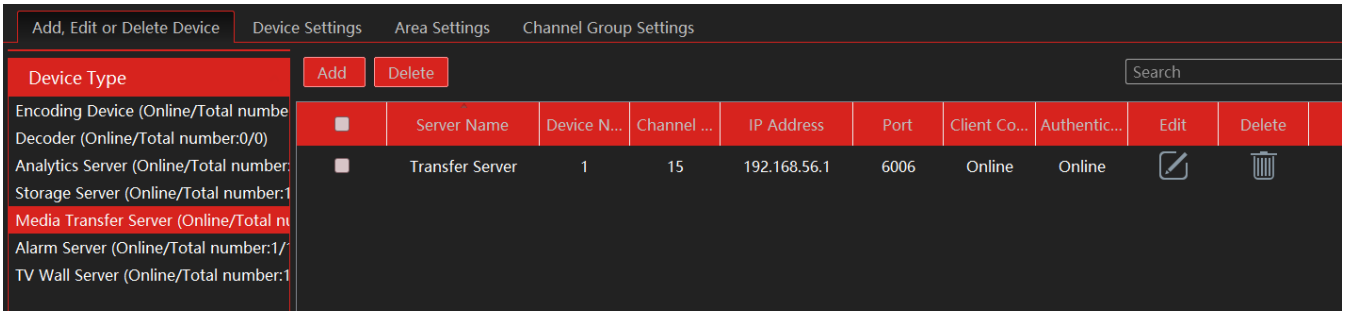
4 Adding a Server to the Management Server

4.1 Media Transfer Server

The media transfer server is in charge of the video signal reception of the front-end devices (like IPC) and transfers the signal to the client to view or to the storage server to record. The command of viewing the video of the front-end devices sent by the client or storage server is transferred by the media transfer server to the front-end devices. By default, the server will auto configure a media transfer server on the local IP, so use this interface is adding a new server.

4.1.1 Adding a Media Transfer Server

Go to Home→Add, Edit or Delete Device→Media Transfer Server.



Click [Add] to go to the media transfer server addition interface. Users can quickly add or manually add media transfer servers.
Select the “Quickly Add” tab and click [Refresh] to quickly search servers in the same local network. Check the desired servers and click [OK] to save the settings.
Select the “Manually Add” tab to go to the media transfer server adding interface. Enter the server name, IP address and port and click [OK] to save the settings.
Click  to modify the media transfer server; click  to delete the media transfer server