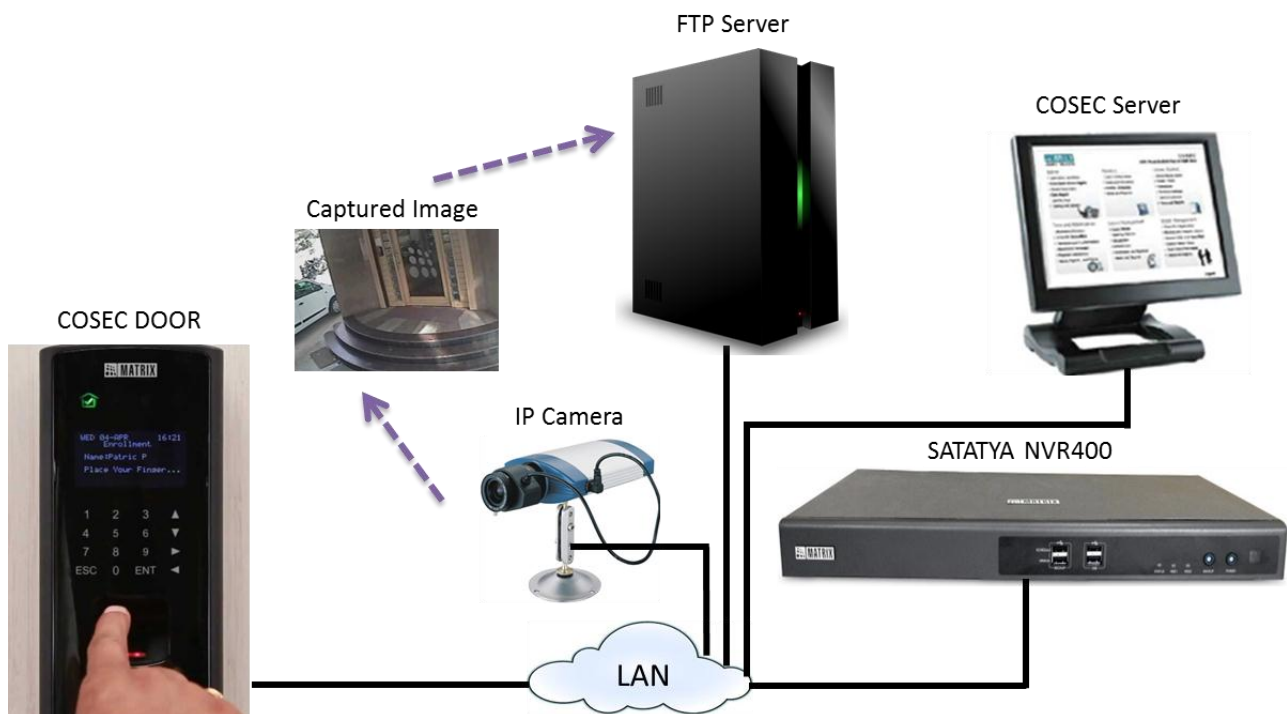


Matrix Technical Support Mailer – 43_a
SATATYA NVR Integration with COSEC V5

Dear Friends,

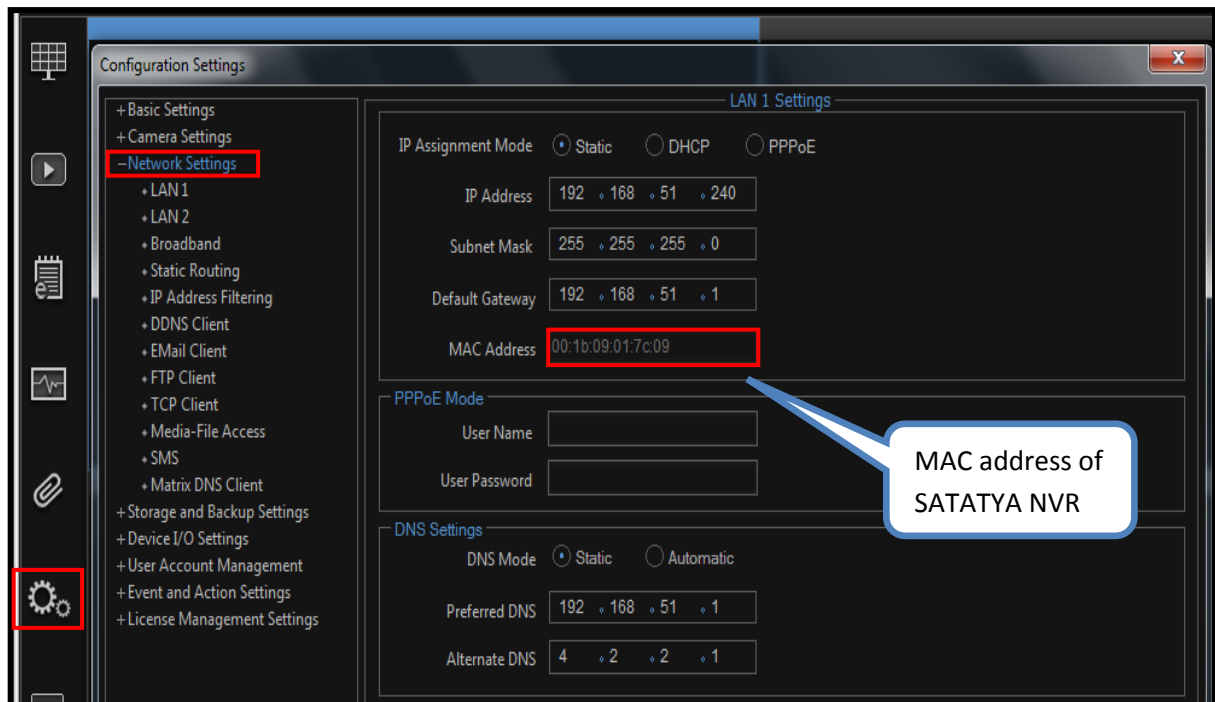
Matrix COSEC provides a comprehensive and complete solution for Time Attendance and Access Control. This mailer will help Matrix installer to integrate Matrix SATATYA NVR (Network Video Recorder) with COSEC system.



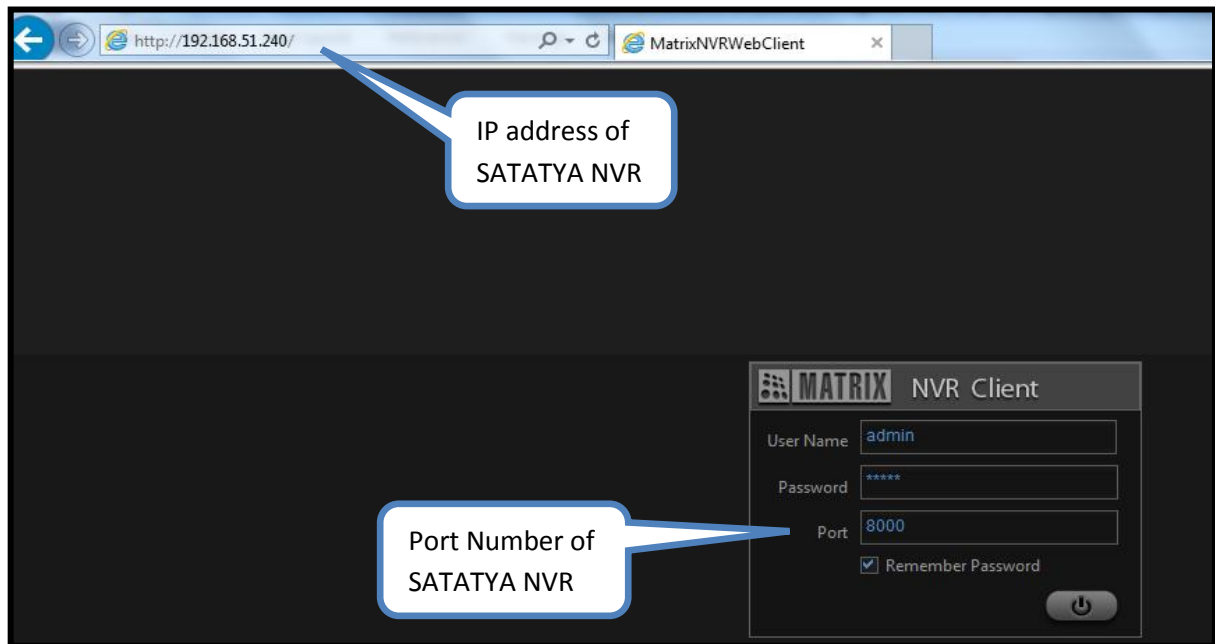
- The COSEC system provides interfaces with the Matrix SATATYA NVR and enables the users to grab images as well as video triggered by different events at the respective devices.
- Complete procedure of SATATYA NVR Integration with COSEC is explained further.

Prerequisites for configuration:

1. Make sure that COSEC DOOR, COSEC Server, FTP Server and SATATYA NVR are in the same subnet or if they are on the public network then make sure that they are accessible to each other.
2. Create FTP server in Local/public Network and it should be accessible by COSEC DOOR and SATATYA NVR.
<http://www.youtube.com/watch?v=nWpZkhXnhds> (Watch this link to learn **How to create FTP Server in windows?**)
3. Know the MAC address of SATATYA NVR.

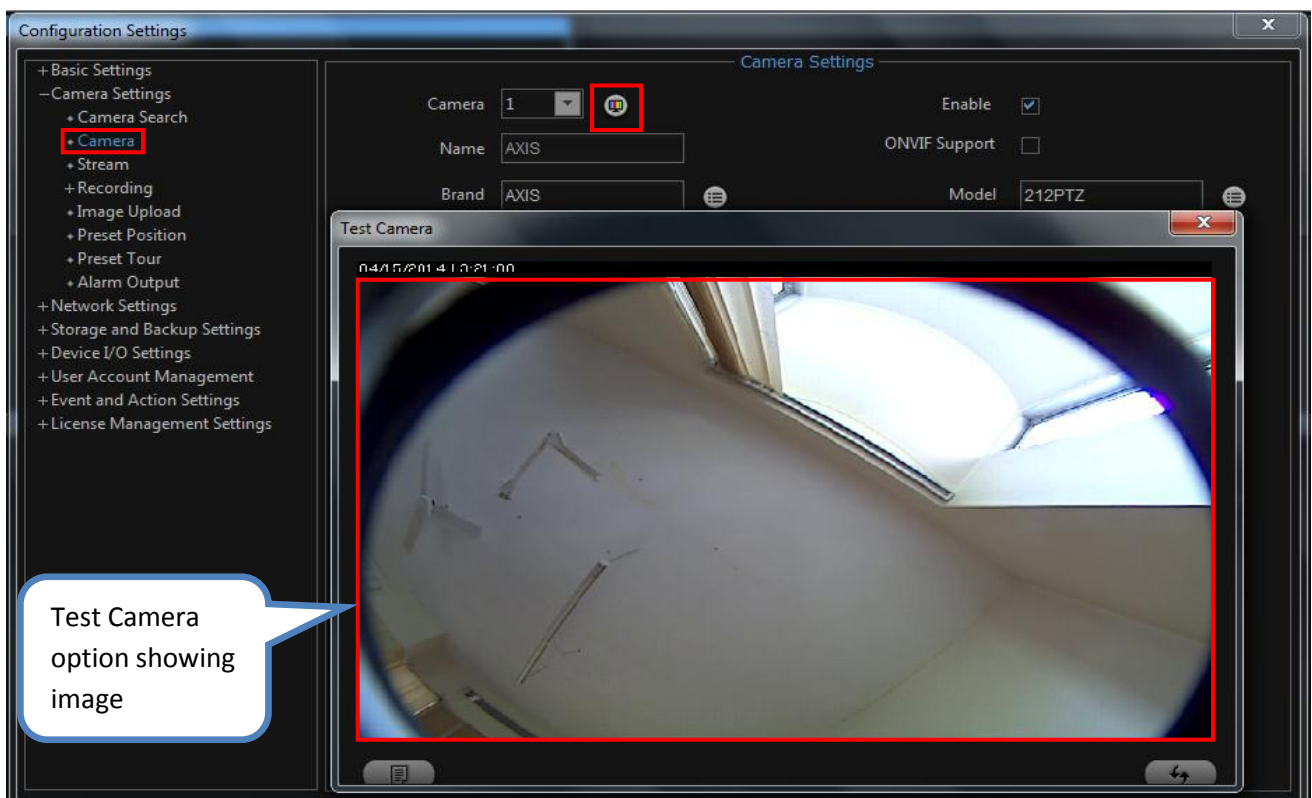


4. Know the IP address and TCP Port number of SATATYA NVR (Default IP address of SATATYA NVR is 192.168.1.123 and default TCP/Login port is 8000).

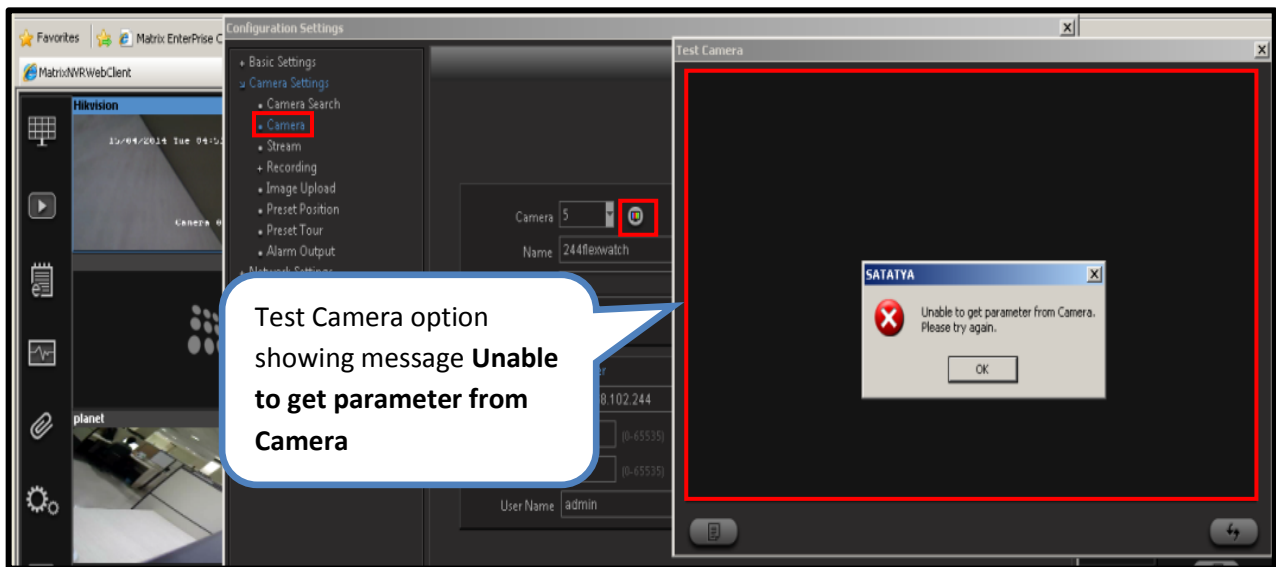


5. Check test connection of camera

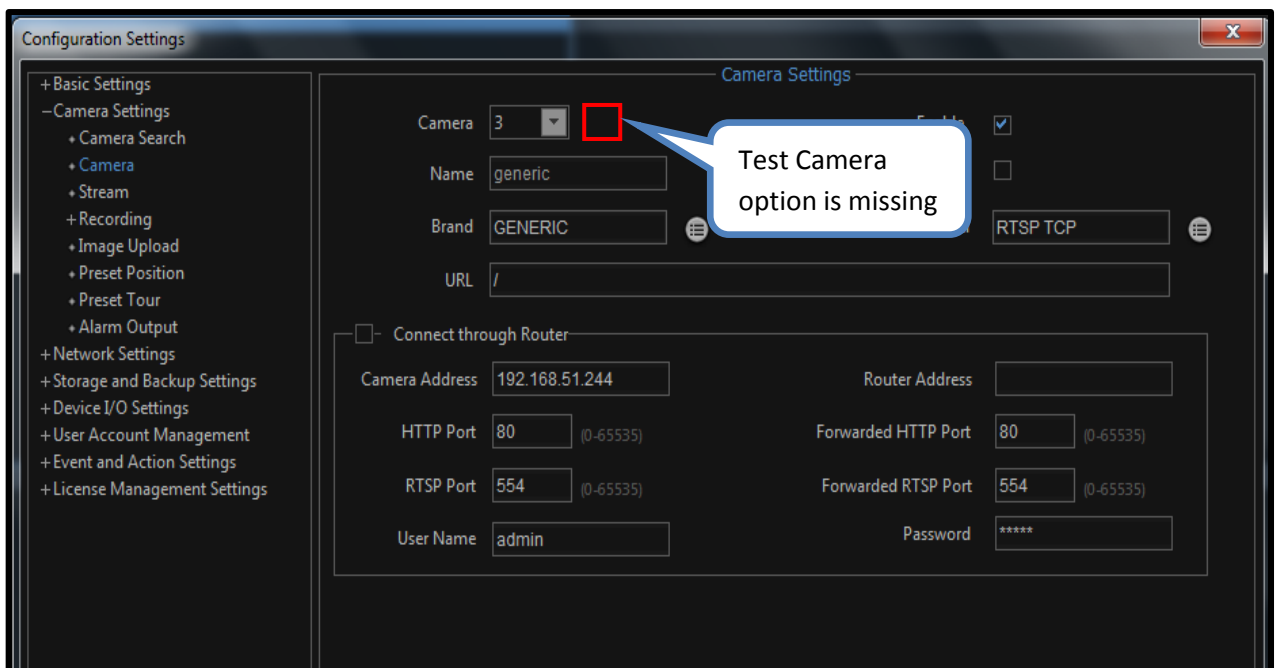
- a) After adding the Camera as a Brand Model/ONVIF, Test Camera icon will be enabled which is located beside the Camera Number and if it shows you an image by clicking on it. It indicates that the **camera supports the Image upload** feature.



- b) After adding the Camera as a Brand Model/ONVIF, Test Camera icon will be enabled which is located besides the Camera Number and if clicking on it does not show you an image and instead shows message **“Unable to get parameter from Camera. Please try again”** then it indicates that the **camera does not support the Image upload feature**.

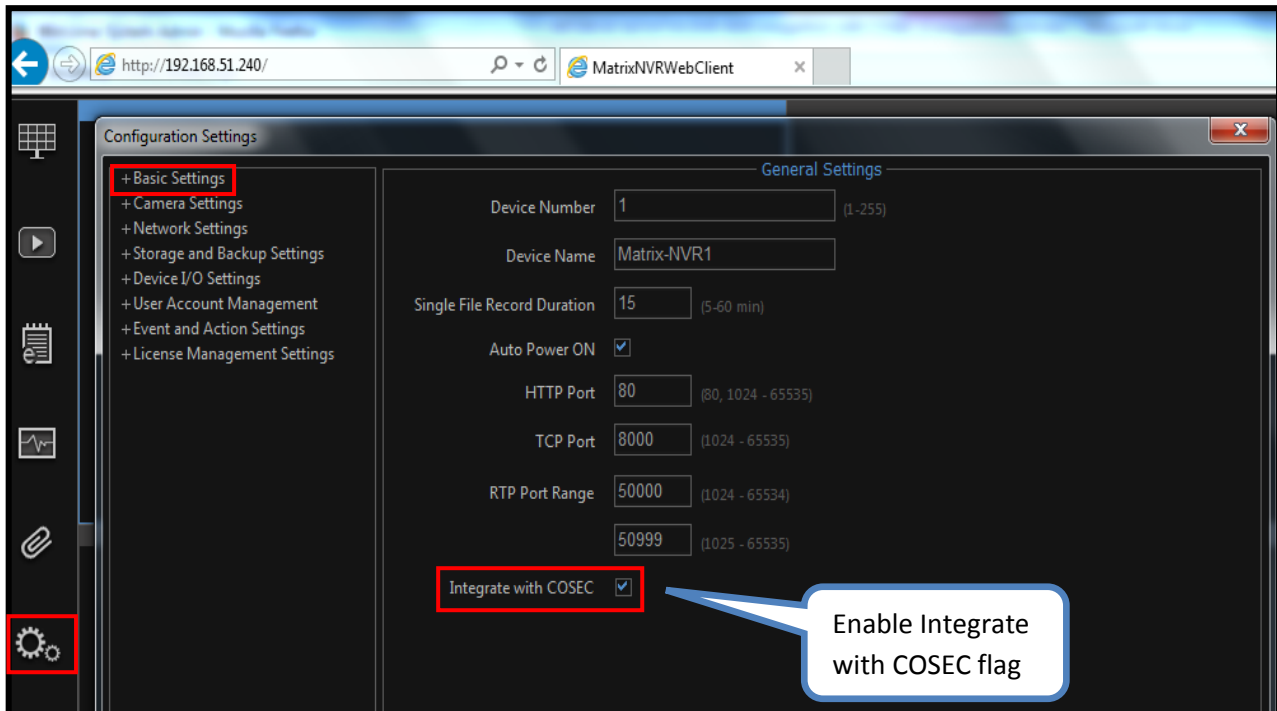


- c) After adding the Camera as a Generic, if Test Camera icon is not seen besides the Camera Number then it indicates that the **camera does not support the Image upload feature**.

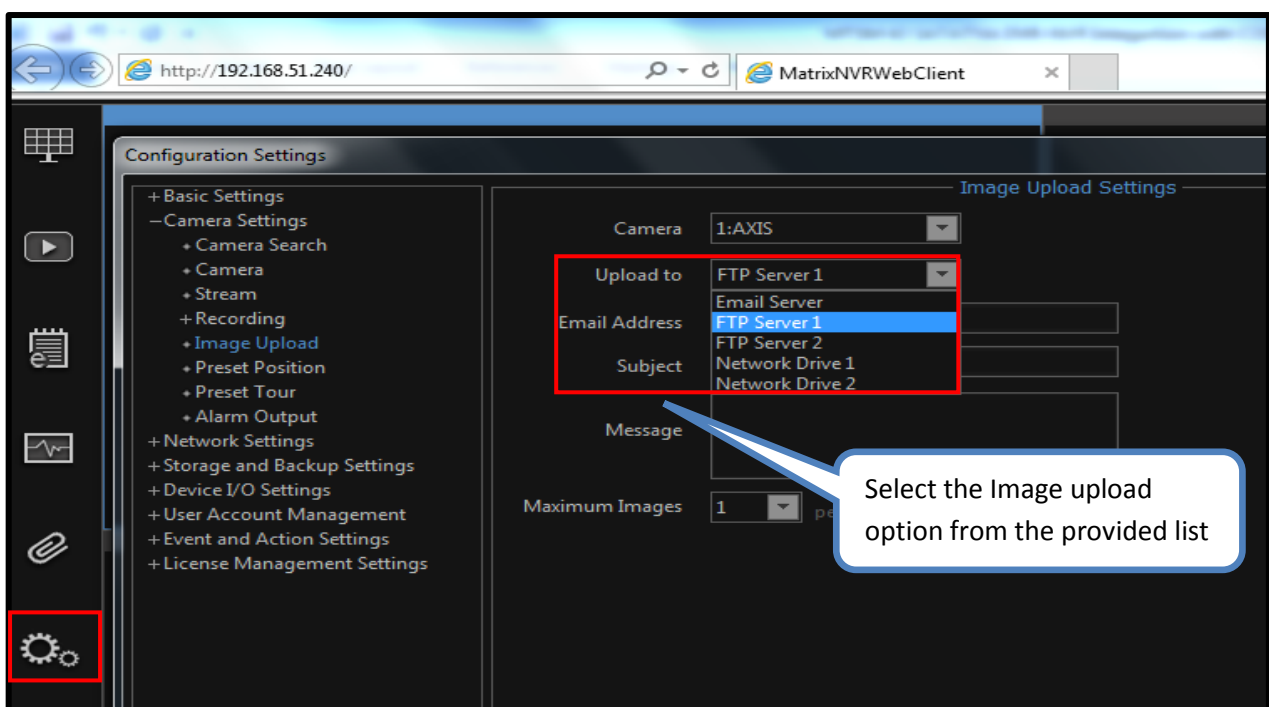


To Configure COSEC parameters in SATATYA NVR, follow mentioned steps:

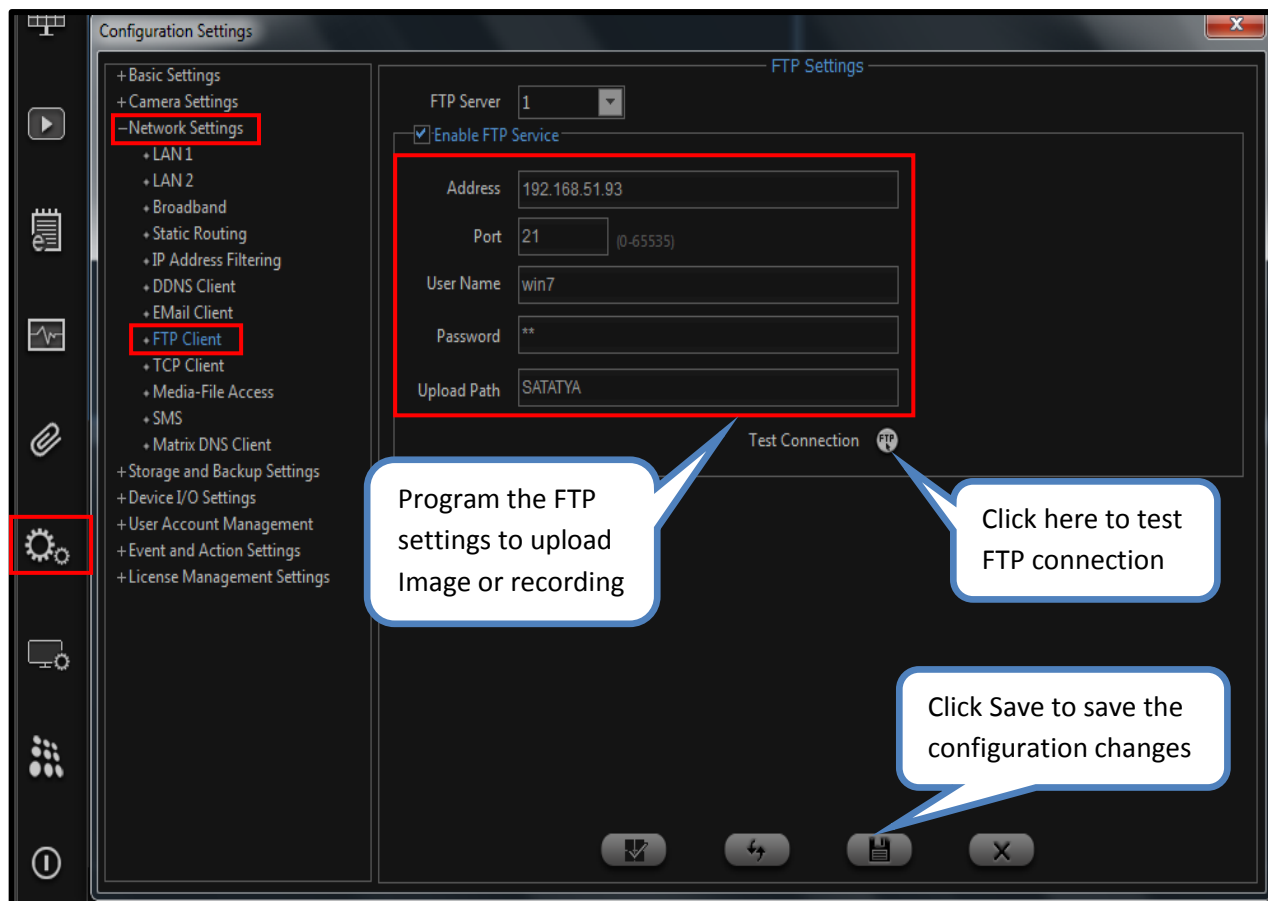
1. Check **Integrate with COSEC** checkbox under **Device Configuration** → **Basic Settings**.



2. Select desired option in **Upload to** under **Device Configuration** → **Camera Settings** → **Image Upload**.

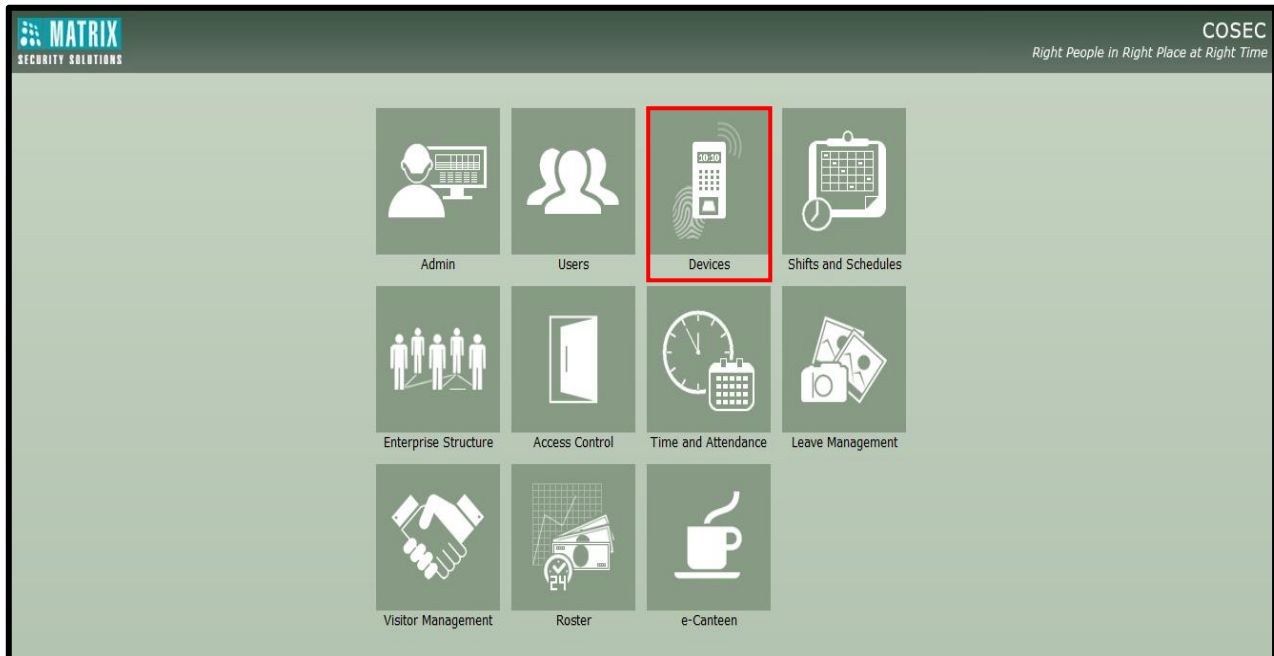


3. Program the FTP client details under **Device Configuration** → **Network Settings** → **FTP client** when upload to option is selected as FTP server.

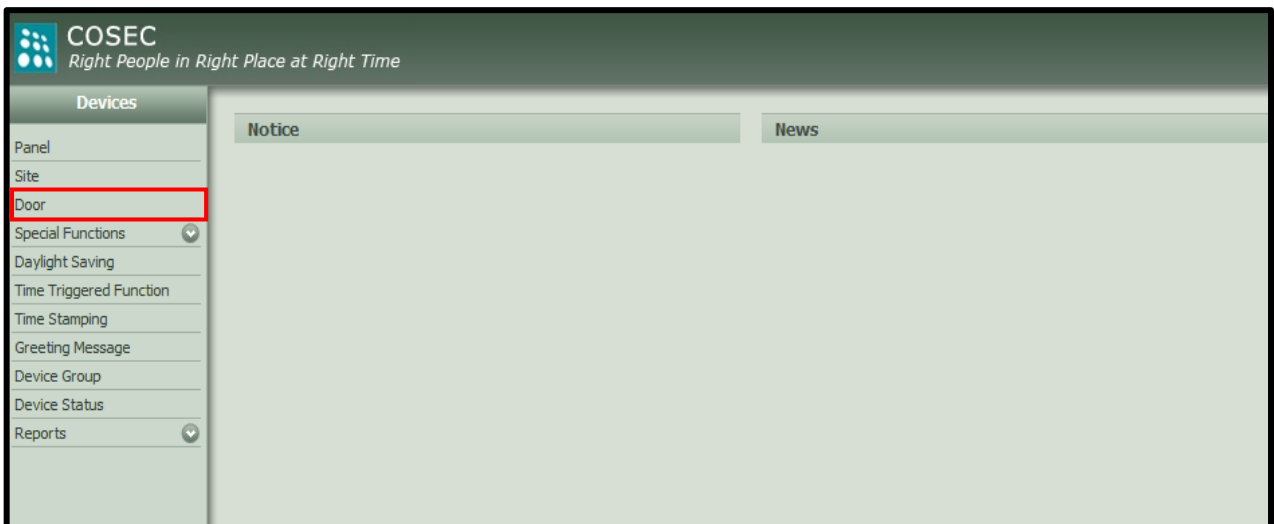


To Configure SATATYA NVR parameters in COSEC, follow mentioned steps:

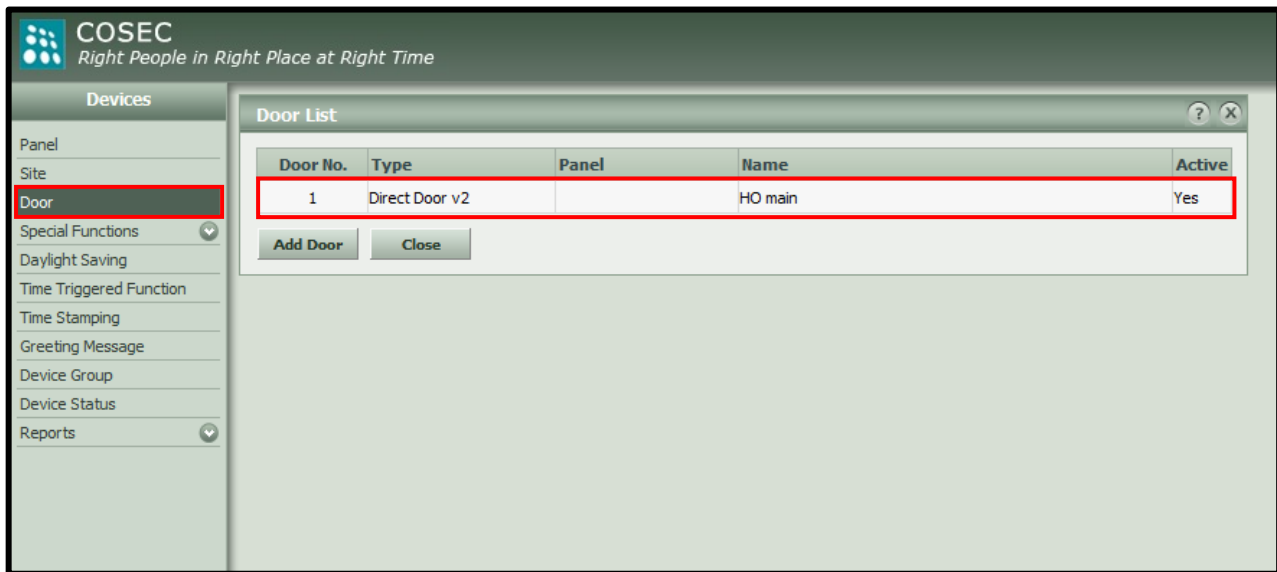
1. Go to **Devices** module.



2. Click on **Door** option in **Devices** module.

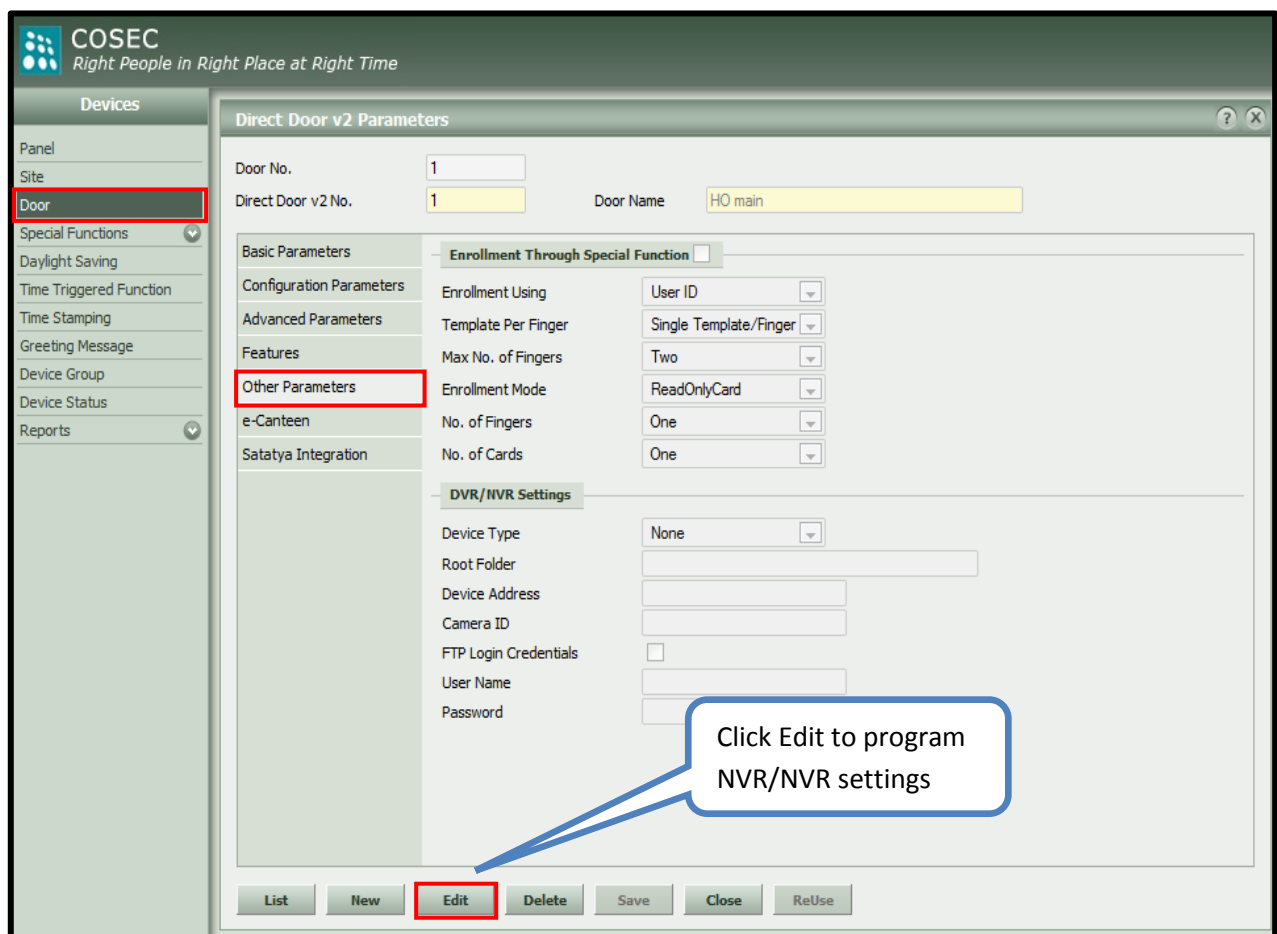


3. Click on the particular door to go to the door parameters.



4. Go to other parameters.

- Here, user will get **DVR/NVR Settings** option to configure COSEC-SATATYA integration settings.



- Program parameters as per below screenshot for COSEC – SATATYA integration and save the configuration parameters.

COSEC
Right People in Right Place at Right Time

Devices

Panel
Site
Door
Special Functions
Daylight Saving
Time Triggered Function
Time Stamping
Greeting Message
Device Group
Device Status
Reports

Direct Door v2 Parameters

Door No. 1
Direct Door v2 No. 1
Door Name HO main

Basic Parameters

Configuration Parameters Enrollment Using User ID
Advanced Parameters Template Per Finger Single Template/Finger
Features Max No. of Fingers Two
Other Parameters Enrollment Mode FingerPrint
e-Canteen No. of Fingers Two
Satatya Integration No. of Cards One

Enrollment Through Special Function ☒

DVR/NVR Settings

Device Type Matrix DVR/NVR
Root Folder ftp://192.168.51.93/SATATYA
Device Address 00_1b_09_01_7c_09
Camera ID 01
FTP Login Credentials ☒
User Name win7
Password ..
Integration Type ☐ Wired ☒ Network
Active ☒
Network Connection Ethernet
IP Address 192 . 168 . 051 . 240
Port Number 8000

Click Save to save the configuration

List New Edit Delete Save Cancel ReUse

Device Type: Select **Matrix DVR/NVR** in the device type option.

Root Folder: In Root Folder specify the ftp folder path to store or upload image captured by camera on predefined events (Root folder Path to be defined in COSEC: <ftp://192.168.51.93/SATATYA> because remote directory **SATATYA** was created automatically while testing FTP client connection for Image upload in SATATYA NVR).

Device Address: Specify the MAC address of the video recorder device (SATATYA NVR) using “_” (underscore) as the separator.

Camera ID: Define camera ID as 01 to 16 (Channel number of camera connected to SATATYA NVR).

FTP Login Credentials: Specify **User Name** and **Password** credentials for FTP login if required.

Integration Type: Select Integration type as **Network**.

Active: Enable checkbox for Active.

Network Connection: Select Network Connection as Ethernet.

IP Address: Define the IP Address of SATATYA NVR.

Port: Define the TCP port number of SATATYA NVR.

6. In **SATATYA Integration** option user can configure different event & action.
Program the required parameters.

COSEC
Right People in Right Place at Right Time

Devices

- Panel
- Site
- Door
- Special Functions
- Daylight Saving
- Time Triggered Function
- Time Stamping
- Greeting Message
- Device Group
- Device Status
- Reports

Direct Door v2 Parameters

Door No.

Direct Door v2 No. Door Name

Basic Parameters ID Name

Configuration Parameters Active ☐

Advanced Parameters **Schedule**

Features Start Time End Time

Other Parameters Days ☐ Sun ☐ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat ☐ Holiday

e-Canteen **Satatya Integration** **Event & Action**

Event Mode Action

Camera ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16

Duration Min.

Click on Edit to program SATATYA Integration Parameters

Name: Specify the desired name as reference for integration.

Active: Enable checkbox for Active.

Schedule: Define the time schedule for the event with start time and end time (24 hour format) along with applicable days.

Event: Define the event from the drop down list. The options available are:

- ✓ Access Allowed
- ✓ Access Denied
- ✓ Invalid User
- ✓ Aux Input
- ✓ Duress Alarm
- ✓ Door Abnormal Alarm
- ✓ Door Force Open Alarm
- ✓ Tamper Alarm

Mode: Select the event mode from the drop down list. The options available are:

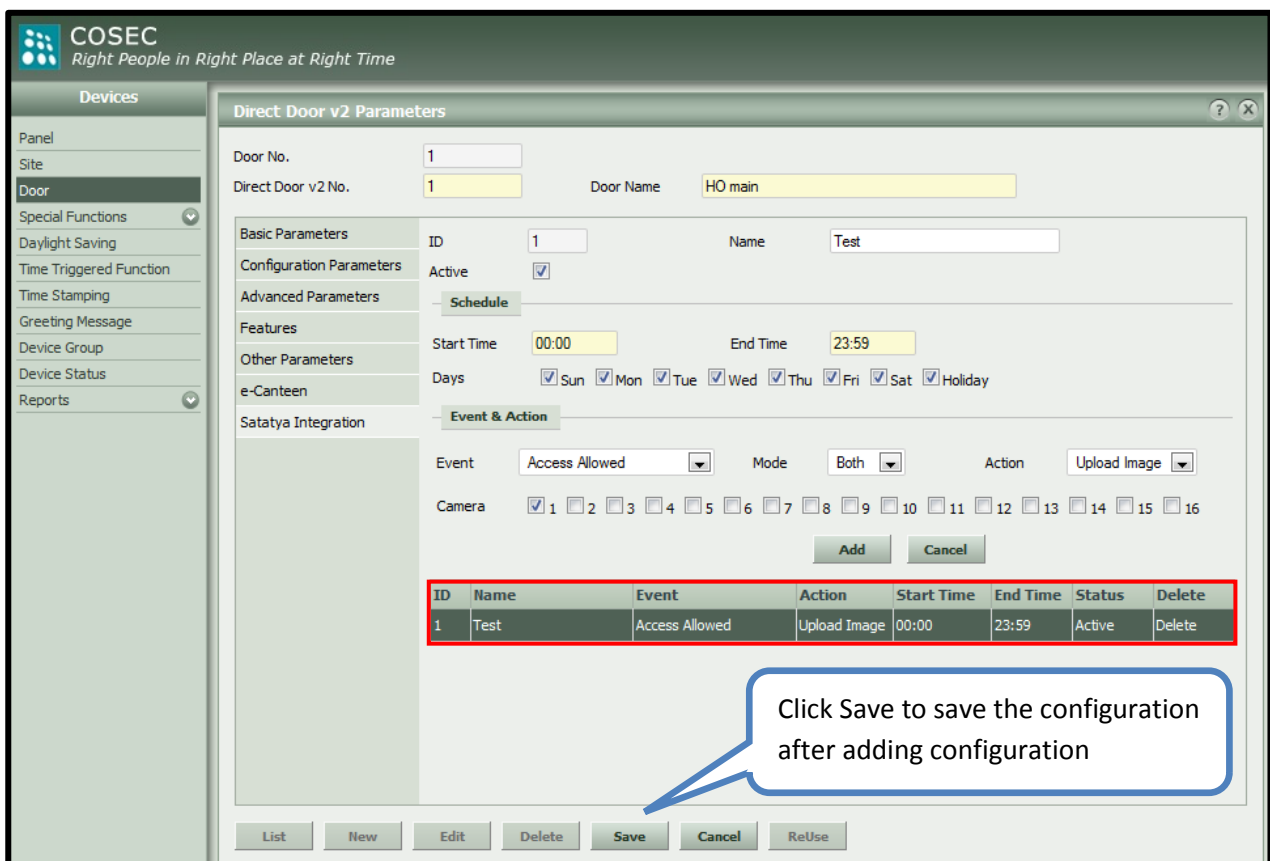
- ✓ Entry
- ✓ Exit
- ✓ Both

Action: Select the action from the drop down list. The options available are:

- ✓ **Recording:** Specify the duration in minutes.
- ✓ **Upload Image:** This will upload the Image as per the FTP settings.
- ✓ **Video Pop – up:** Specify the video Pop – up.
- ✓ **PTZ Preset:** Specify the PTZ position number as defined on the SATATYA NVR.
- ✓ **Mail Image:** Image will be sent to Specified mail ID.

Camera: Specify the relevant camera details depending on the action selected.

➤ Clicking on **Add** will add the event to the list as shown in the below image.



COSEC
Right People in Right Place at Right Time

Direct Door v2 Parameters

Door No. Direct Door v2 No. Door Name

Basic Parameters ID Name

Configuration Parameters Active ☒

Advanced Parameters **Schedule**

Features Start Time End Time

Other Parameters Days ☒ Sun ☒ Mon ☒ Tue ☒ Wed ☒ Thu ☒ Fri ☒ Sat ☒ Holiday

e-Canteen

Sataty Integration **Event & Action**

Event Mode Action

Camera ☒ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16

ID	Name	Event	Action	Start Time	End Time	Status	Delete
1	Test	Access Allowed	Upload Image	00:00	23:59	Active	Delete

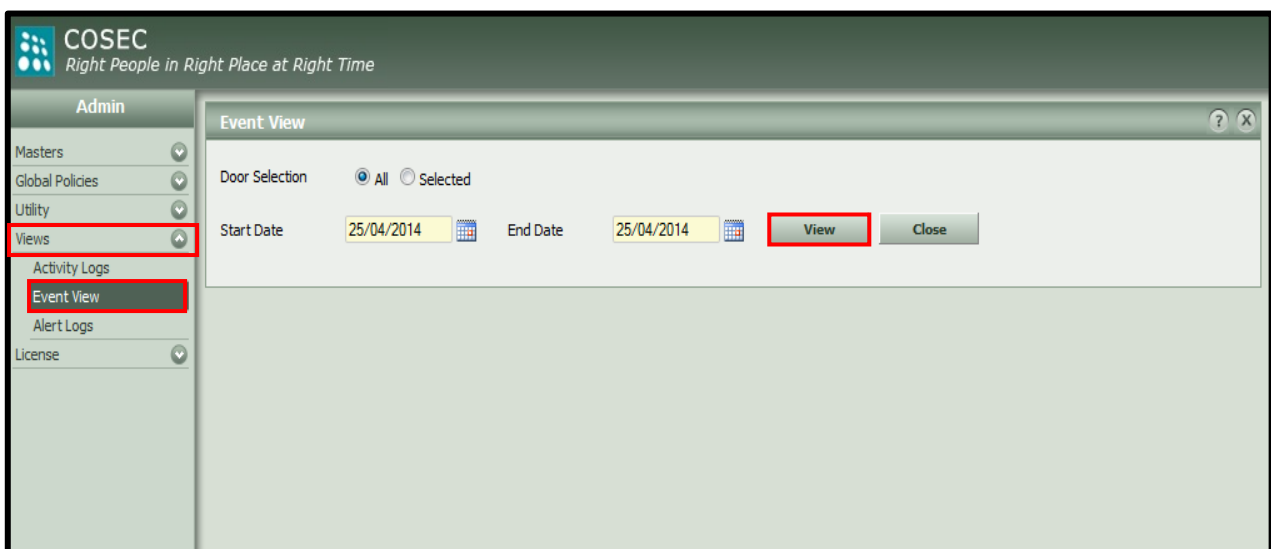
Click Save to save the configuration after adding configuration

Event View in COSEC:

1. User events and related images/videos can be seen from the Event View option in the Admin module.



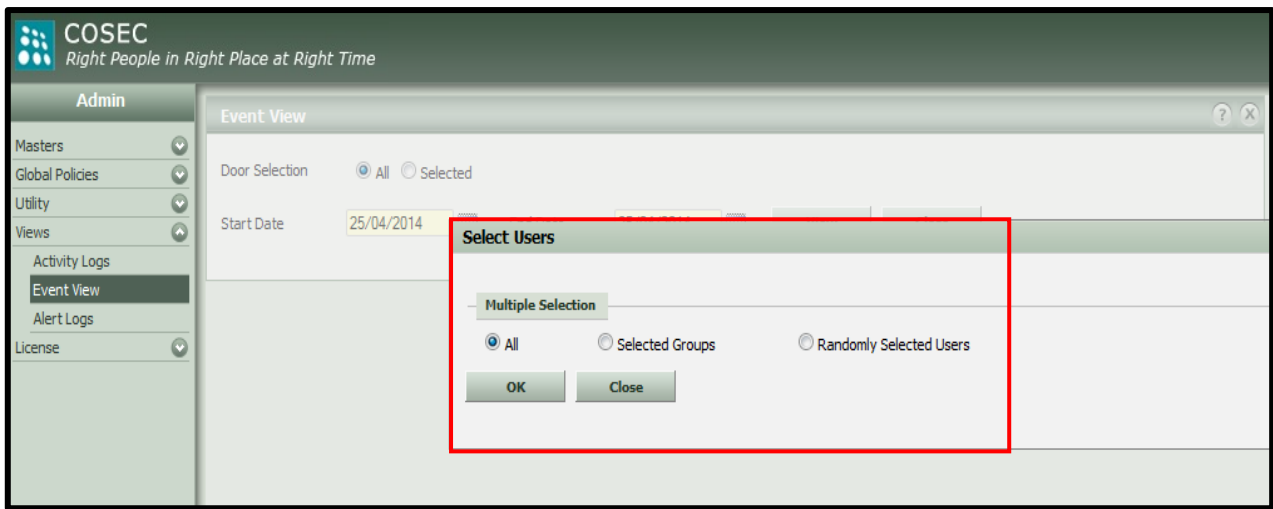
2. To access this functionality, go to **Admin → Views → Event View**. Set the filter parameters for **Door**; define **Start Date & End Date** and Click **View**.



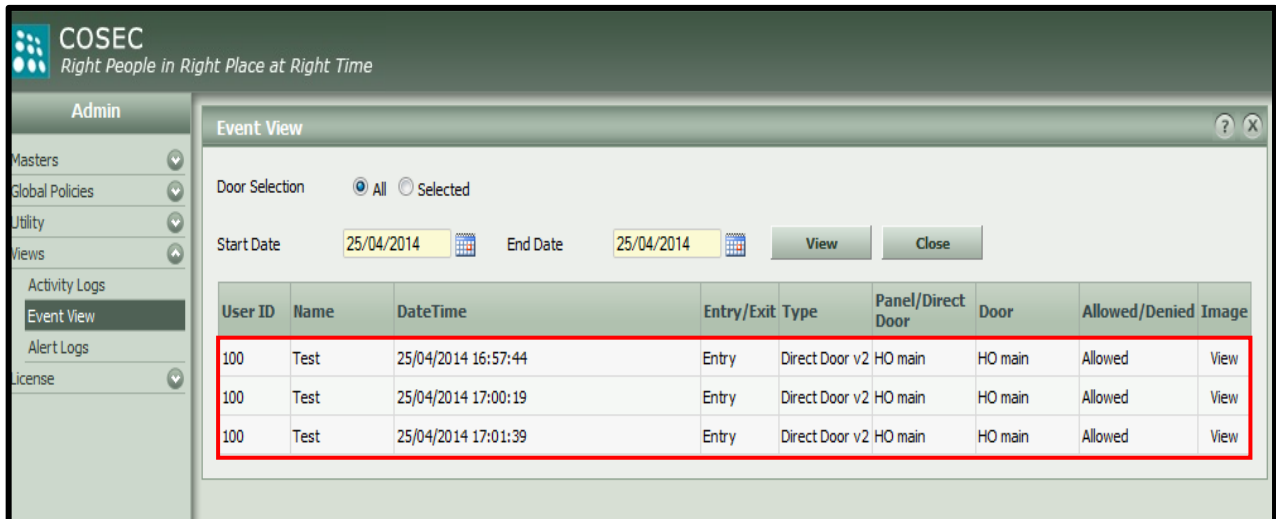
3. Set the filter parameters for **User** and click **OK**.

User Filter:

- **All:** View events from all users
- **Selected Groups:** View events from the selected groups
- **Randomly Selected Users:** View events from the Randomly Selected Users



4. List of events after filtration will look as shown below:

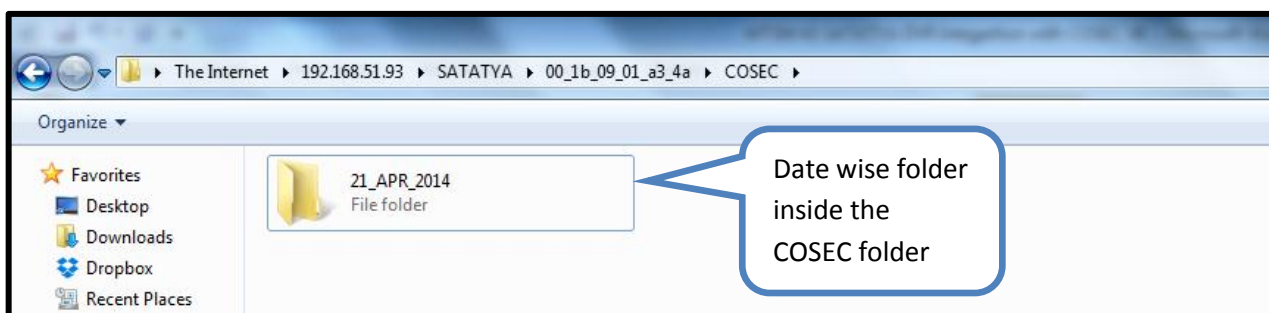
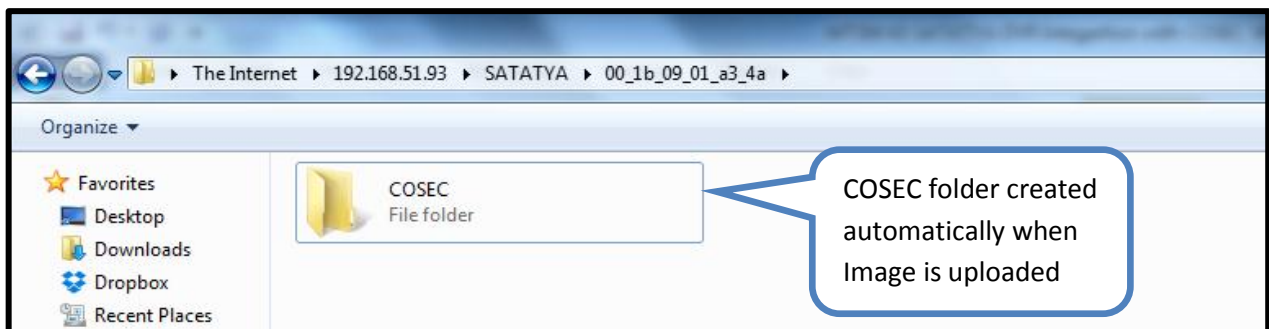
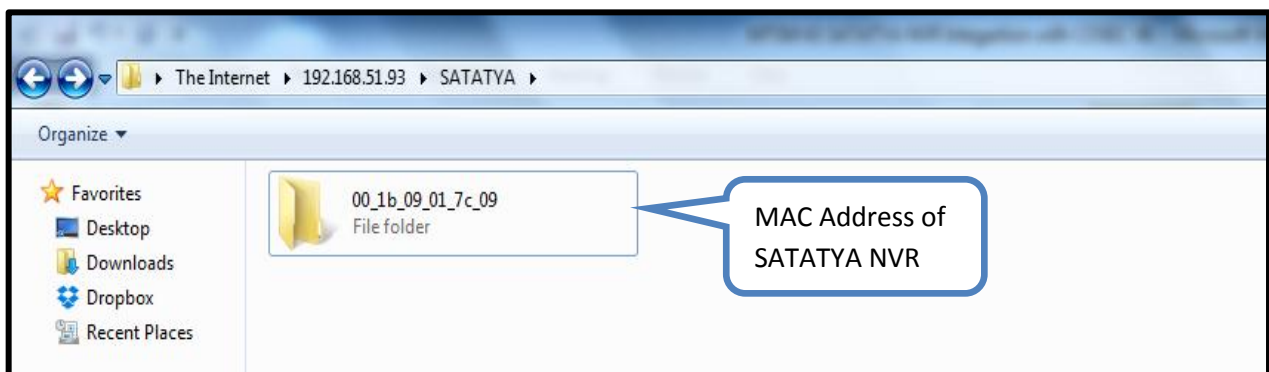


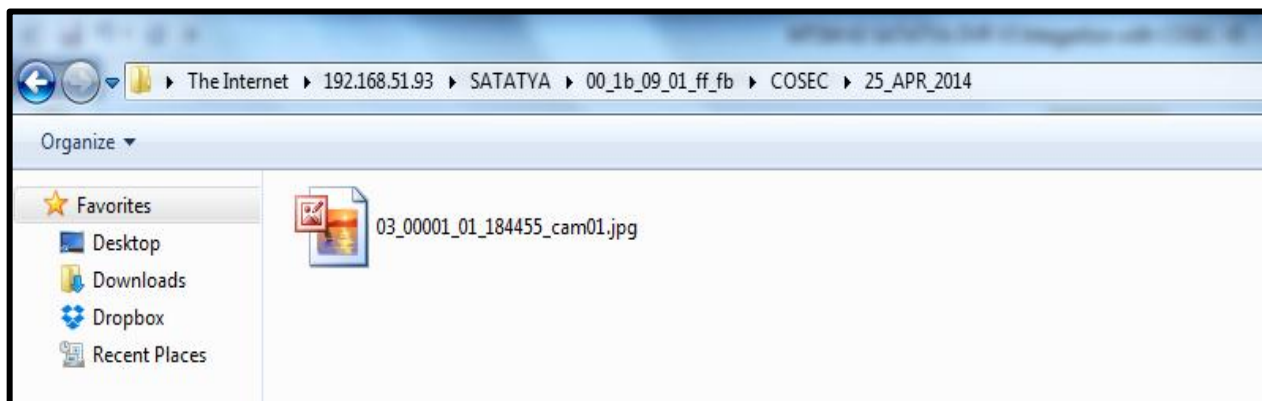
- From the list click on view Image button for particular user event to see uploaded image.

The screenshot shows the COSEC web application interface. On the left is a sidebar with navigation options: Admin, Masters, Global Policies, Utility, Views, Activity Logs, Event View (selected), Alert Logs, and License. The main area is titled 'Event View' and includes filters for Door Selection (All/Selected), Start Date (25/04/2014), and End Date. Below these is a table with columns: User ID, Name, DateTime, Panel/Direct Door, Door, Allowed/Denied, and Image. The table contains three rows of test data. A red arrow points from the 'View' button in the 'Image' column of the first row to a Mozilla Firefox browser window that is open, displaying a security camera image. The browser window title is 'localhost/COSEC/WebForm:'. The image shows a person at a door, and the timestamp 'Time : 16:57:44' is visible at the bottom of the image.

User ID	Name	DateTime	Panel/Direct Door	Door	Allowed/Denied	Image
100	Test	25/04/2014 16:57:44	Panel v2	HO main	Allowed	View
100	Test	25/04/2014 17:00:19	Panel v2	HO main	Allowed	View
100	Test	25/04/2014 17:01:39	Panel v2	HO main	Allowed	View

Image uploaded on FTP:





File name Specification:

03 – Device Type

00001 – Master Controller ID

01 – Door Controller ID

165744 – Time

Cam05 – Camera Number

In this way user can integrate Matrix SATATYA NVR with COSEC.

Technical Training Team

Training@MatrixComSec.com

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