



## BAHRAIN STOCK EXCHANGE EXPERIENCES SMART SECURITY WITH MATRIX VIDEO SURVEILLANCE SOLUTION



### PROJECT HIGHLIGHTS

- Hybrid Video Recorders: 3
- Analog Cameras: 36
- IP Cameras: 10
- Reduction in Storage Cost up to 50% with Adaptive Recording Feature
- User based Viewing Roles and Rights Flexibility

### CUSTOMER TESTIMONY

*"Service support is excellent from ACS. Team is available whenever needed to resolve our issues"*

- Cecil Paul  
Senior Administrator,  
Facility Management

### COMPANY PROFILE

Bahrain Bourse is a self-regulated multi-asset marketplace with an aim of offering its investors, issuers, and intermediaries a comprehensive suite of exchange-related facilities that include offering listing, trading, settlement, and depositary services for various financial instruments. As of

2015, 50 companies were listed on the exchange. Being in the stock market industry, they deal with a lot of confidential data in the premises. Video Surveillance, here, plays an important role of protecting the confidentiality of data along with security of staff and visitors.

## REQUIREMENT

- They wanted to migrate from Analog to IP solution for monitoring key zones.
- They needed three month storage period as evidential proof.
- Security officer, IT manager and admin were required to view selected cameras for remote monitoring.
- They wanted motion based recording, where the degree/severity of motion varied from zone to zone.

## CHALLENGE

- High cost of HDD for storing recordings of 46 cameras for three months.
- Their building was made out of glass. Hence, continuous light from outside created reflection inside the premise. This was identified as motion by the camera and it initiated recording each time there was a reflection, which resulted in unnecessary increase of storage requirement.
- Securing confidentiality of data in real-time, rather than investigating at a later stage.



## MATRIX OFFERING

HVRs were installed so as to facilitate easy migration from Analog to IP. On complete migration to IP, these HVRs have the capability to function as NVRs without any hardware changes.

Adaptive Recording feature was enabled to reduce storage requirement by 50%.

Advanced Storage Management in Matrix HVRs helped them to schedule three months backup of all cameras centrally. This also helped them to smartly optimize their storage by providing regular clean-up options in two ways:

1. Delete backed up files after every backup.
2. Delete files older than the specified number of days (three months).

Cascading feature helped them in viewing cameras from all three HVRs on TVs in the control room for central monitoring, without any server.

Motion detection, with the flexibility of area selection and sensitivity selection, helped them prevent unnecessary recording in case of motion arising due to lights from certain zones.

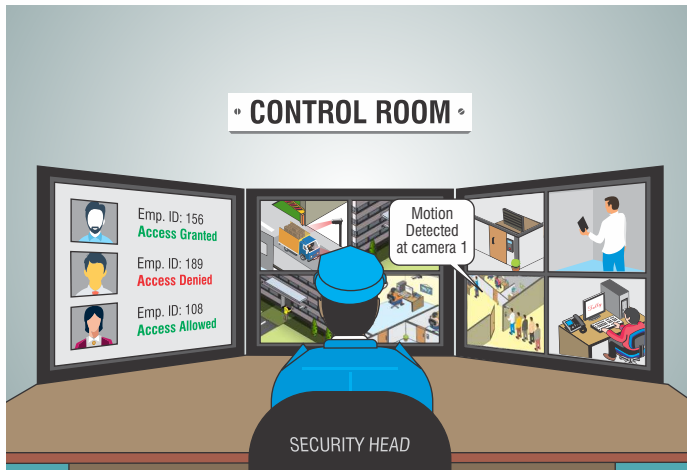
Timely notifications in case of motion detection helped secure assets in real-time.

User based login credentials for security officer, IT manager and admin was configured to allow viewing of selected cameras.

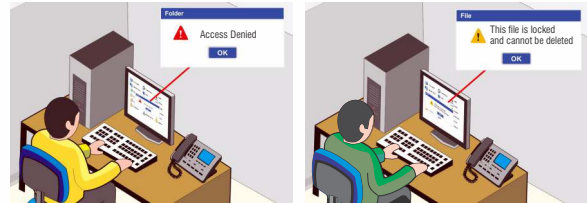
Matrix also provided efficient pre and post-sales support as a part of the solution.

## SOLUTION DIAGRAM

### USER BASED VIEWING ROLES AND RIGHTS



Admin



IT Head

Functional Manager

## BENEFITS

- Enhanced Security with Centralized Management and Control
- Seamless Monitoring based on User Rights
- Reduced Storage Cost with Adaptive Recording
- Eliminated Server Cost with Cascading
- Smart Security through Motion Detection with Multiple Area Sensitivity

## PRODUCTS OFFERED

- SATATYA HVR1624P (with 24TB Internal Storage): HVR with 16 Analog Channels, 8 IP Channels or 24 IP Channels
- SATATYA CIBR13FL40CW: 1.3MP IP Camera with 4mm lens along with Intrusion, Trip Wire & Motion Based Recording
- SATATYA CORE: Centralized Management Software (CMS)

## ABOUT MATRIX

Established in 1991, Matrix is a leader in Security and Telecom solutions for modern businesses and enterprises. As an innovative, technology-driven and customer-focused organization, the company is committed to keeping pace with the revolutions in the Security and Telecom industries. With around 40% of its human resources dedicated to the development of new products, Matrix has launched cutting-edge products like Video Surveillance Systems - Video Management System, Network Video Recorder and IP Camera, Access Control and Time-Attendance systems as well as Telecom solutions such as Unified Communications, IP-PBX, Universal Gateways, VoIP and GSM Gateways and Communication Endpoints. These solutions are feature-rich, reliable and conform to international standards. Having global footprints in Asia, Europe, North America, South America, and Africa through an extensive network of more than 2,500 channel partners, Matrix ensures that the products serve the needs of its customers faster and longer. Matrix has gained trust and admiration of customers representing the entire spectrum of industries. Matrix has won many international awards for its innovative products.



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