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**sur**

the missing piece of CCTV

# THE FOOTAGE WHISPERER

# "SEE WHAT THE CAMERA SAW"

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GAUTAM D. GORADIA



UTILITY VALUE OF  
COM-SUR™ TO  
ENHANCE CYBER  
SECURITY

WELCOME



AUDIT HOURS OF FOOTAGE IN MINUTES

FIND OUT HOW COM-SUR, THE BEST  
'MOUSETRAP' WILL HELP

["Seeing is believing - See what the camera saw"](#)

In our series of white papers focusing on the optimal usage of CCTV surveillance systems at business verticals from an airport to a zoo, we have explored the challenges faced by each vertical and have recommended the "little more" that they need to do to achieve optimal outcomes from surveillance video. This paper aims to highlight the utility value of COM-SUR, the world's only CCTV video footage auditing software, in enhancing cyber security across these diverse verticals. This paper makes a case for following certain methods and protocols by which organizations can strengthen their cyber security initiatives and proactively detect and prevent potential threats.

'COM-SUR' – THE WORLD'S ONLY CCTV VIDEO  
FOOTAGE AUDITING, SMART BACKUP, AND  
STANDARDIZED INTELLIGENT INCIDENT  
REPORTING SOFTWARE – THE MISSING PIECE  
OF CCTV

COM-SUR is the world's only CCTV video footage auditing, smart backup, and standardized intelligent incident reporting software that serves as a complete workflow and force multiplier. It helps audit 24 hours of footage in minutes, reduces data size, creates standardized intelligent reports, and delivers business intelligence. COM-SUR helps unlock hidden information in CCTV footage and enables people to gain actionable intelligence, improve homeland security, prevent crime and losses, identify and mitigate threats and hazards, and improve operational efficiency. It empowers people to gain new jobs as CCTV video footage auditors and start new businesses of auditing video footage. Like MS Office, COM-SUR is an enabler that makes it easy to work with CCTV cameras in a standardized way, leading to better decision-making. It also offers exceptional investigative capabilities.

HOW COM-SUR SMARTLY REDUCES 'VIDEO'  
STORAGE SIZE

COM-SUR employs an innovative approach to smartly reduce the amount of video to be

audited and consequently the storage size of videos. Regardless of the video's frame rate, COM-SUR captures a single screenshot of the consolidated 'moment' of 'that' one second, when the I, P, and B frames come together. This method significantly reduces data size without sacrificing vital information. It goes without saying that when multiple cameras are displayed in a grid view, say 4x4, the storage size is further reduced since all the cameras are captured as a single image. Since no suggestion is being made to replace the actual video with screenshots, COM-SUR acts as a wonderful supportive technology both to audit (review) just 86400 frames representing 24 hours and reducing the data size at the same time.

#### CHALLENGES RELATED TO CYBER SECURITY

##### 1. Cyber threats:

Organizations are constantly targeted by cyber criminals seeking to exploit vulnerabilities in their systems. These threats encompass various types of attacks, such as hacking, data breaches, ransomware, and phishing attempts.

##### 2. Insider threats:

Alongside external threats, organizations must also address the risks posed by insiders, including employees, contractors, or individuals with authorized access to critical systems. Insider threats can result from intentional actions or negligence, leading to data leaks or unauthorized access.

##### 3. Compliance Requirements:

Organizations across different sectors must comply with industry regulations and data protection laws. Failing to meet compliance requirements can lead to severe consequences, including legal penalties and reputational

damage.

##### 4. Humongous growth of surveillance video:

The exponential growth of surveillance cameras has resulted in an unprecedented surge in surveillance video. Effectively managing this data has become a daunting challenge due to the massive storage capacity required, especially considering the prolonged retention periods necessary for security, incident investigation, or legal purposes. Furthermore, the prevalence of high-resolution video with increasing megapixels compounds the storage demands, making efficient data management an urgent priority for organizations grappling with the immense volume of surveillance footage.

#### USE OF VIDEO SURVEILLANCE TO ENHANCE CYBERSECURITY

Most organizations have video surveillance covering the following areas in order to enhance cyber security:

- Entry and exit points
- Data centers
- Server rooms
- Network operation centers
- Areas housing networking infrastructure (routers, switches, firewalls etc.)
- IT help desks and support centers

#### LEVERAGING CCTV VIDEO FOOTAGE AUDITING FOR CYBER SECURITY

Auditing CCTV footage can play a crucial role

in enhancing cyber security initiatives within organizations. By adopting a proactive approach and leveraging the features of COM-SUR, organizations can address the challenges mentioned above and strengthen their cyber defences. The following points outline the key benefits and recommendations for utilizing CCTV video footage auditing:

### 1) DAILY AUDITING AS STANDARD OPERATING PROCEDURE

Implementing a daily CCTV video footage auditing process as a standard operating procedure of all those cameras that are relevant in terms of cyber security allows organizations to detect potential cyber security threats and incidents in a timely manner. Trained personnel can review the footage to identify suspicious activities, unauthorized access attempts, or any anomalies that may indicate a cyber-attack. Daily auditing helps organizations stay ahead of potential threats and take immediate action to mitigate risks.

### 2) INCIDENT DOCUMENTATION AND ANALYSIS

Documenting audit findings and incidents in a standardized template provides a valuable resource for root cause analysis and preventive measures. Analyzing historical data helps identify patterns and trends, enabling organizations to implement effective security measures and prevent future recurrences. By sharing this standardized data across the industry, relevant authorities can derive actionable intelligence and take collective action for the benefit of all organizations.

### 3) ENSURING DISASTER RECOVERY OF CCTV VIDEO FOOTAGE

To safeguard against data loss or tampering,

organizations should ensure the disaster recovery of CCTV video footage.

Storing footage at multiple locations and implementing robust backup solutions protects against theft, destruction, or tampering of video data. Easy searchability and retrieval of backed-up data enable efficient investigations and evidence gathering in case of cyber security incidents.

### 4) DISPLAYING DYNAMIC INFORMATION AT RELEVANT PLACES

Displaying dynamic information, such as lists of authorized personnel or known suspects, in relevant areas enhances situational awareness and aids in preventing cyber security breaches. This information helps staff members identify individuals who may pose a potential threat and enables them to report any suspicious activities promptly.

### CCTV SIGNAGE: "FOR EVERYONE'S SAFETY, WE AUDIT CCTV VIDEO FOOTAGE EVERY DAY"

To reinforce the importance of daily CCTV footage auditing and create awareness among employees, visitors, and potential wrongdoers, it is recommended to display prominent signage throughout the premises. A simple and powerful message such as "For everyone's safety, we audit CCTV video footage every day" can serve as a visual reminder of the organization's commitment to security.

### **"WE AUDIT CCTV VIDEO FOOTAGE EVERYDAY"**

This signage not only communicates the organization's proactive stance on security but also acts as a deterrent to potential threats. By highlighting the presence of active surveillance and regular auditing, the signage sends a strong message that any illegal or

suspicious activities captured by the cameras will be reviewed and investigated. It enhances the perception of security and creates a sense of accountability for all individuals within the organization's premises.

Moreover, a CCTV signage with the above 'message' helps instil confidence in stakeholders, including employees, customers, and visitors, by reassuring them that the organization is actively taking measures to ensure their safety and protect their interests. The visual impact of such signage plays a vital role in establishing a security-conscious culture and acts as a constant reminder of the organization's commitment to maintaining a secure environment.

#### DE-CENTRALIZED SURVEILLANCE FOR OPTIMAL RESULTS

Organizations with multiple locations can benefit from a combination of de-centralized and centralized surveillance approaches. De-centralized surveillance provides higher accountability at each location and improves situational awareness. By leveraging COM-SUR and adopting a de-centralized surveillance strategy, organizations can increase the chances of detecting exceptions, including potential cyber security threats.

#### AUTOMATED SOFTWARE – WHY THEY WILL NOT WORK IN ISOLATION

In the wake of the Christchurch shooting incident, several high-profile places of worship considered deploying gun detection technology. However, there are concerns about its efficacy, since it may not be able to detect all types of weapons, or the perpetrator could still create damage before being detected. Similarly, automated systems like

video analytics, AI/ML can only detect what they have been programmed for. What about the rest? Again, these technologies are prone to triggering huge amounts of false alarms. Also, since the permutation combinations of exceptions can be vast and varied, it becomes almost impossible to automate every kind of exception. Facial recognition technology also raises ethical and privacy concerns, and has been found to produce inaccurate results, especially for certain ethnic groups. Therefore, experts suggest that while automated technologies will continue to grow, human intervention and intelligence will still be necessary to verify alerts and ensure their efficacy.

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### CONCLUSION

"You see, but you do not observe" is a quote by Sherlock Holmes in A Scandal in Bohemia (1891, written by Sir Arthur Conan Doyle). COM-SUR makes 'observation' far effortless and effectual leading to superior results.

"Cameras don't lie" - but how will you know unless you 'see' what the cameras 'saw'?  
Audit CCTV - why suffer!

Get award-winning COM-SUR now.  
Don't wait for things to go wrong!

**Finally, allow us to present three important mantras that change the landscape of video surveillance:**

1. Auditing is fundamental – everything else is peripheral.
2. Cameras have lenses – humans have eyes.
3. Let's make cameras 'accountable'.