

# A Guide to **Critical Elements** in Surveillance



**INTERNET OF THINGS (IoT)**

## ACTIVE DETERRENCE™

Siloed management of disparate security, safety and operational systems leaves too many opportunities for error and ultimately creates unwanted and unnecessary inefficiency. Therefore, the only way to feasibly tackle a challenge of this scope and scale is to adopt a **video surveillance solution** i.e. **ACTIVE DETERRENCE™** thereby uniting surveillance systems and enabling multiple levels of monitoring and control from a single reliable platform. This is where intelligent surveillance monitoring and control integration can offer real benefit.

## NEW AGE TECHNOLOGY

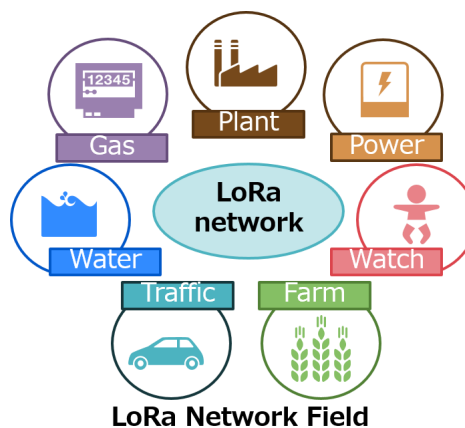
The word surveillance comes from a French phrase for "watching over" (sur means "from above" and veiller means "to watch"). At Securens, with our award winning Central Monitoring Station (CMS), we keep watch over your business and protect everything that matters the most to you.



## INTRODUCTION TO INTERNET OF THINGS - IOT

The Internet of Things (IoT) is the network of physical objects - devices, vehicles, buildings and other items embedded with electronics, software, sensors and network connectivity, that enables these objects to collect and exchange data. IoT, is a system of interrelated computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers (UIDs) and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction.

In the surveillance domain, to provide safety and security, sensors are extensively used. Implementing technology combination of LORA and MQTT along with **ACTIVE DETERRENCE™** software has provided a framework to send alert messages from sensor devices reliably over MQTT to central application server. The buffering capability MQTT and the short message of LORA ensures that communication is established even on low bandwidth sites. Over a period of time these protocols have been enhanced to transmit images with a size capping. These could be effectively used for remote monitoring & bandwidth shaping.





Smart devices have the potential to significantly transform human life by taking over mundane activities. An example of the same is the reading of an electric meter. Traditionally, a person would visit each building and carry out meter readings and note down the same in a register. Today, an IoT device is programmed to transmit the reading of certain time and day of the month. The staff involved in reading activity are free and can be engaged in more meaningful activities.

Devices by itself are not smart. To be considered as smart device they have to add value to human life. There are companies including Securens working towards technology advancements. These technologies help devices become truly smart by intelligently observing, reasoning and intuitively enhancing user experience.

The invention of low power sensor with a battery lasting 10 years have enabled the new devices with specific purpose to be deployed in various fields like GPS tracking of wild animals, parking sensors, toll sensors, temperature sensors, body wearable sensors, telemetry devices etc. Each of these sensors can transmit data over low power wireless technology to the central servers and help in life saving or maintenance activities.

## About Securens



Founded in 2011, **Securens Systems Pvt. Ltd.** rapidly emerged as India's leading electronic surveillance company, designing and delivering bespoke surveillance solutions and managed services for a wide range of commercial, private and public-sector markets. As the pioneer in live monitoring video surveillance systems in India, headquartered in Mumbai and operating across **22 states** with **28 offices** nationwide,

Securens is an award winning globally recognized 360° eSurveillance solutions provider protecting over **25,000 sites** monitored live with our proprietary **ACTIVE DETERRENCE™** technology and affiliated services.

The need for video analytics, business intelligence and personalized solutions has further spurred the demand for intelligent video surveillance systems among the consumers. With Securens **ACTIVE DETERRENCE™** video surveillance solutions gaining popularity and trust in the market, especially in banks, retail outlets, commercial offices, residential societies, factories, warehouses, educational institutes etc., to protect human life, infrastructure and enhance security in their compounds, we are equipped to grow exponentially. With the aim of preventing crime before it happens, Securens provides live (real time) and alert based surveillance monitoring, business intelligence, video analytics and best practice models to protect and safeguard property and assets from internal and external threats.

simplifying surveillance

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