



BY IBRAHIM NYALI

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## ELECTRIC FENCE MONITORING SOLUTIONS

### Overview

BEIN SYSTEMS LTD is pleased to offer your organization an Advanced electric fence monitoring Solution, so that both of us are part of protecting your organizational property and life.

The perimeter fences should be monitored automatically & reports be sent to the relevant authorities immediately a breach or system variation has been detected.

We can implement an electric fence monitoring & management solution customized to curb perimeter security challenges in your organization.

The solution is aimed at giving you reliable information and peace of mind. You will be able to view the entire fence from the control room & receive alerts immediately the fence is intruded, or turned on/off. Not only on site, but you will have all the information on the electric fence even when you are away, through your Mobile Devices e.g. smart phone, Tablet, laptop etc.

#### THE CURRENT SYSTEM

- No display to show the fence voltages, this means the maintenance team have to manually go to the fence and measure the readings. This means either keeping someone on site constantly monitoring the fence, so a time-consuming activity which could

simply be a matter of just looking at the screen or your messages to know the status of the fence.

- With factors such as rain & vegetation the voltage has a tendency of dropping too low to 3KV increasing the chances of false alarms. With the proposed system the maintenance team will be able to custom configure the fence monitoring to allow for natural conditions e.g. rainy/dry season, vegetation, snails & slugs on the fence, without compromising security.
- When an alarm occurs, someone has to manually reset the system, meaning someone has to be stationed on site or travel to site, costing time & money.
- No advanced security monitoring features like Amps reading with to curb modern day security challenges, e.g. Anti bridging fence wires (looping out fences).



### **IT'S A CHALLENGE MONITORING THE YOUR CURRENT SYSTEM**

How do you know that your security has been compromised? Is your fence off without your consent? Who do you trust for information; guards, technicians, Gardener?

We make you the master of your own security. Control and monitor your fence from anywhere, anytime.

Therefore; we propose you upgrade your current monitors to the proposed ones below

### **UPGRADED MONITORS (JVA)**

The JVA monitors are ideal Fence Monitor Unit to retrofit to Any model of existing high-power agricultural type or game fence energizers.

The JVA monitors are like 'dependant brain box' for fence energizers.

#### **OPTION ONE – ZM1 MONITOR.**

Replacing the existing RK, BM1 OR AM1 monitor with the JVA ZM1 monitor



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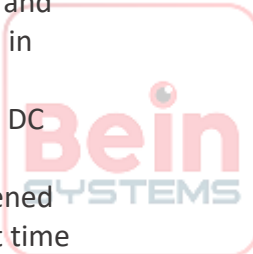
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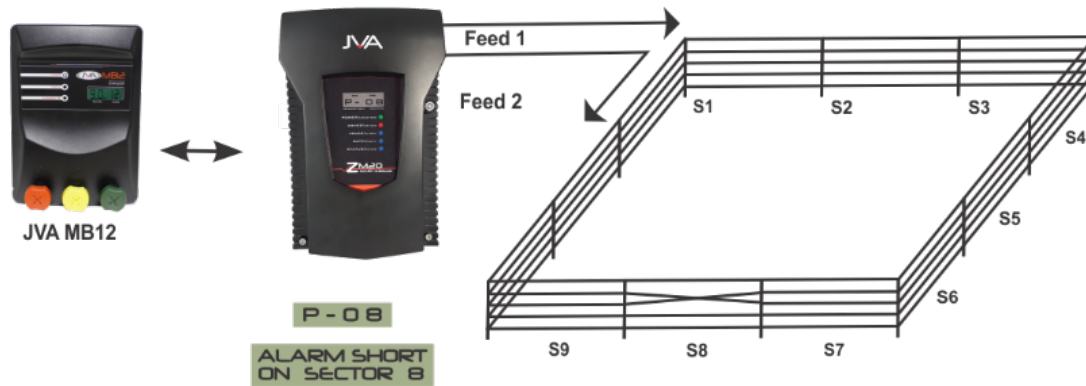
#### Features:

- Start or end of fence monitoring
- Anti-bridging mode – alarms on sudden change in fence load
- Monitors ground voltage, fence voltage and fence current
- Control and program via LCD keypad
- Monitor via PC (using Perimeter Patrol software)
- Remote on/off or Key switch
- LCD display for feed/return voltages and feed current
- Peep and record in areas where record keeping is necessary.
- 1-14 monitors can be grouped and be controlled as one unit if are in one location
- Siren and Strobe switched 12V DC outputs
- Trigger alarm when gate is opened or left open longer than preset time
- Mains or Solar powered



## OPTION TWO – JVA ZM20 MONITOR

Replacing the existing RK, BM1 OR AM1 monitor with the JVA ZM20 monitor



## JVA ZM20 Sector Displays

### Features:

- Subdivides your fence from 2 to 20 Programmable sectors.
- Mains or Solar powered
- ALL other features are similar to Zm1 monitor above.



## OPTIONS OF MONITORING THE ZM1 & ZM20 MONITORS

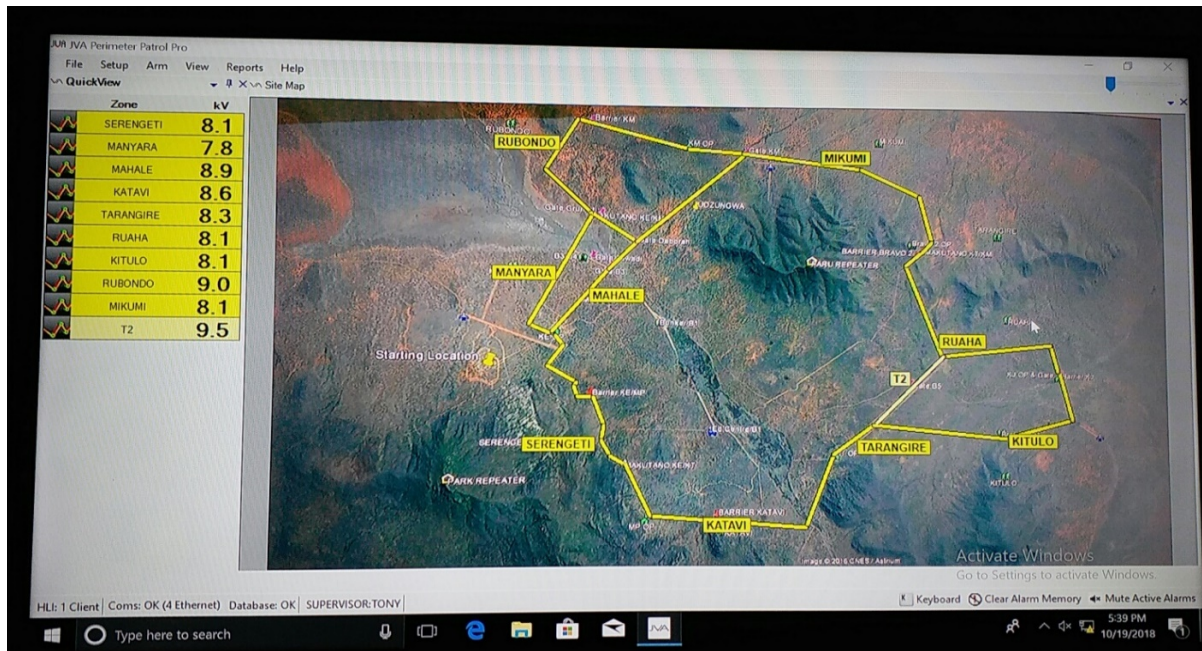
### 1) JVA GSM & CLOUD ROUTER OPTION



- ▶ **JVA GSM** using a single sim card installed alongside a JVA Energizer or Monitor will enable you to be able turn on/off fence by just sending a txt msg. At the same time receive text messages of; fence alarm, mains failure, battery low, fence ON/OFF, Fence voltage readings as well. This needs availability of 2g network signal
- ▶ **JVA's Cloud Router** provides a way for owners of JVA Security Energizers to monitor and control their electric fence setups from anywhere using an APP. This needs internet on site or JVA gsm above

## 2) JVA PERIMETER PATROL

The JVA Perimeter Patrol Software presents a user with *visual* presentation of one or more energizers to be monitored & or controlled from an offsite PC or alternative device so their electric fence System is viewed on screen. Perimeter patrol software displays the fence line on a map of the protected area with all the fence performance information alongside it in real time. (Voltage, alarms status, battery status, fence on/off, etc.).



All the controls can now be performed entirely on the computer if preferred. If one of the fence team requires to disarm the fence he/she has to call in the control room for it to be turned off. Alternatively, control can be left with the section team supervisor with all his instructions being displayed on the screen & logged in the computer.

Perimeter Patrol is used to quickly view & assess the Fence operation, Alarms status & voltages, to know if & when the fence has been switched on or off. The System can be programmed to deliver alerts & email the user when fence is armed & disarmed or goes into alarm. The System can also facilitate remote off-site control of the electric fence.

The energizer will have programmed alarm voltage thresholds where by a decrease of the voltage below the set threshold will trigger & now register on screen an alarm, (for example Below 3000 V). Depending on the status of the fence & prevailing environmental conditions you can make the fence more or less sensitive by increasing or decreasing the threshold in the programming facility.





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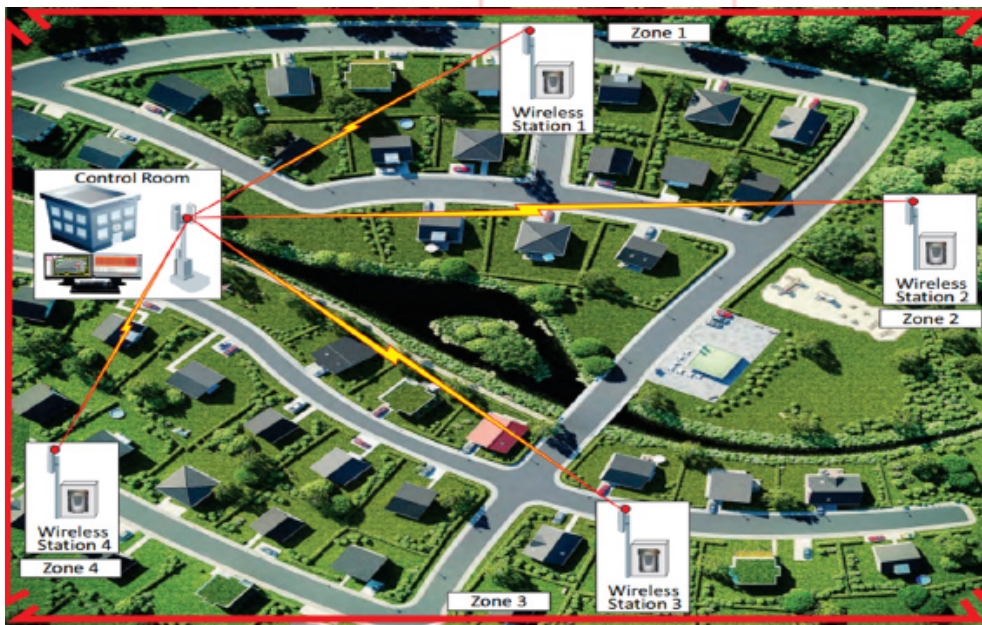
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Wireless Communication, LAN or WAN can be used to relay information from distant Energizer Stations to the control room.





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## WHY PERIMETER PATROL

1. **ACCOUNTABILITY.** Perimeter patrol brings accountable security; Fence cannot be switched on & off without someone being alerted outside the sections team. Alarms cannot be ignored, all alarms are reported and logged for future ref & analysis
2. **THIRD PARTY INTERGATION** can be integrated with EARTH RANGER; fence alarms notifications are pushed through the devices of Earth ranger users displaying GPS coordinates of the alarmed fence section.
3. **REMOTE CONTROLLABLE** The entire fence can be controlled from one location.
4. **REAL TIME INFORMATION** Improves the response time with super-fast relay to teams on the ground!
5. **PROGRAMABLE** making the fence resistant to false alarms, by making it sensitive to humans & animals but less seasonally sensitive.
6. **REPORTING/SENDING ALERTS** to a response team & other responsible parties immediately an alarm occurs.
7. **DATA COLLECTION,** Accurate data collection on activities from the fence lines, enabling management to act on the findings, e.g. which section of fence is affected by a certain problem e.g., fence cuts, power loss, short-circuits, & other relevant info needed to allow for accurate preventative maintenance.
8. **USER FRIENDLY MULTI ACCESS.** More than one authorized person e.g. Managers/Supervisors can easily access all the fence information & monitor the fence from their work station or portable devices, e.g. smart phone, tablet or laptop.

## 10 ACTIVE SITES WITH PERIMETER PATROL





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## Benefits of Monitoring.

- a. Central control with onsite and offsite alarm notifications
- b. Accurate fault & intrusion identification
- c. Quicker response opportunity
- d. In the long term Saves money & labor; Fewer vehicle & human patrols as the fence will notify when there is a problem.
- e. 3yrs log and data records
- f. One off installation cost, no monthly charges

## Conclusion

We believe the proposed Technology & system Investment will be of great benefit to your electric fence management.

Once you have gone through the proposal do let me know if you require any clarification or if you would like to go ahead with the proposed installation, we can schedule a meeting to plan for implementation & prepare to mobilise