FALKEN
Secure Networks
>>>>>>>> RFID

**GPS, GPRS + RFID**
**Combined in the hardware**



## Electronic RFID Seals:

RadioSecure SLM is the base member of the RadioSecure range of electronic security seals with wireless connectivity to the SLA or SLS. It combines a electronic seal, GPS tracking & sensing device and a GPRS Modem with a high security cable seal / Bolt seal that can be fixed to any locking aperature. When the eSeal is compromised, the device sends event and location information immediately to the stakeholder. The Patent Pending reuseable cable locking mechanism makes the RadioSecure SLM a low cost per sealing electronic seal and practically seals any type of assets.

## Installed inside the Driver's cab:

The RadioSecure IVM is the base member of the RadioSecure range of products with wireless connectivity to the SLA, SLE and SLS. RadioSecure IVM acts as the Master which combines a covert GPS

tracking and an GSM Module for relaying the status to the GPRS server. When a seal is compromised, the device sends event and location information immediately to the stakeholder. It is fixed permanently to a primemover. It's small footprint and rugged design make this Patent Pending In Vehicle Monitor a very versatile solution to monitor SLA/SLS.
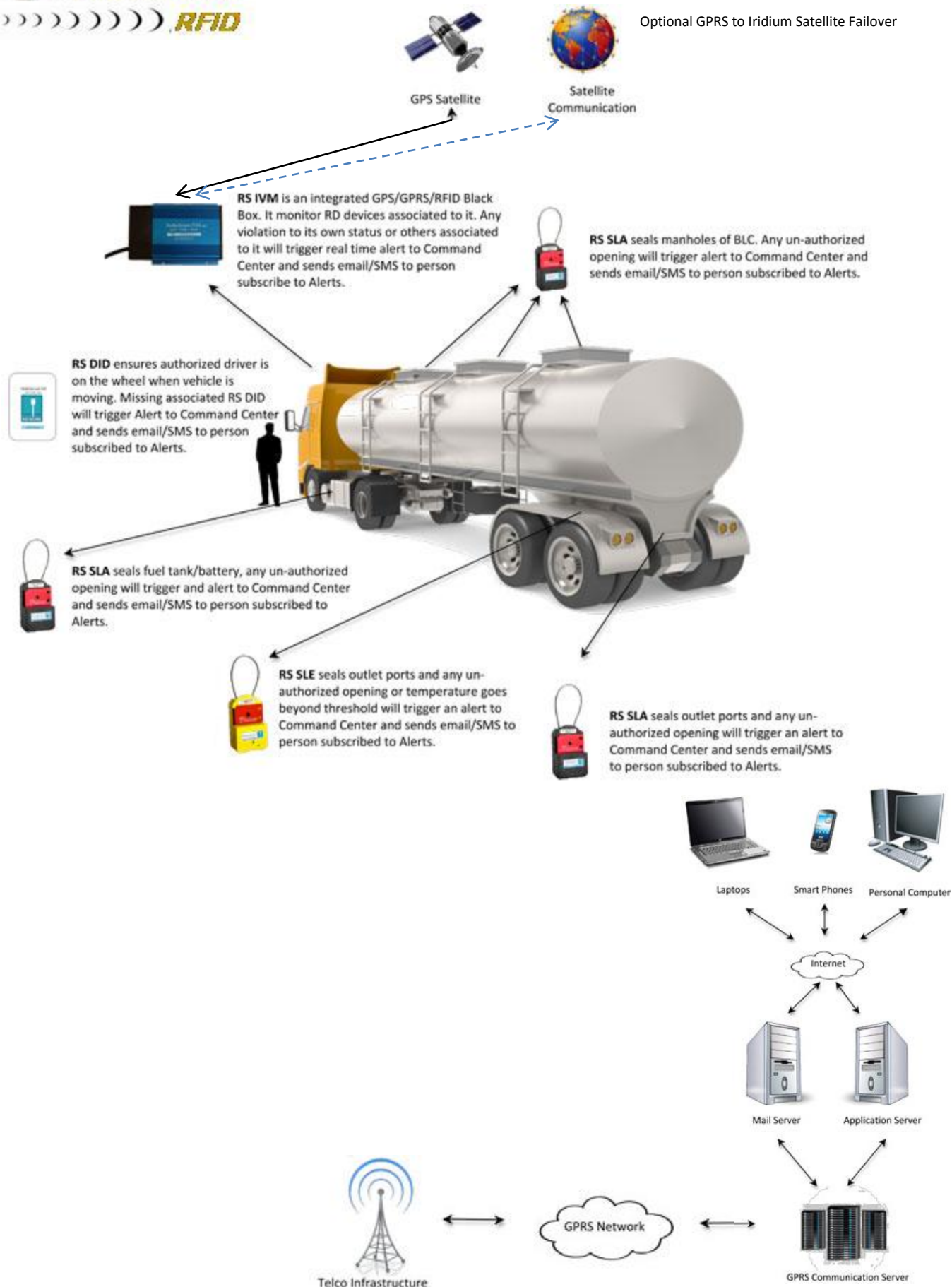
- GPS and GSM chips are embedded for location and communication capabilities
- Powered by external power from the Primemover has small capacity rechargeable lithium battery as a backup power.
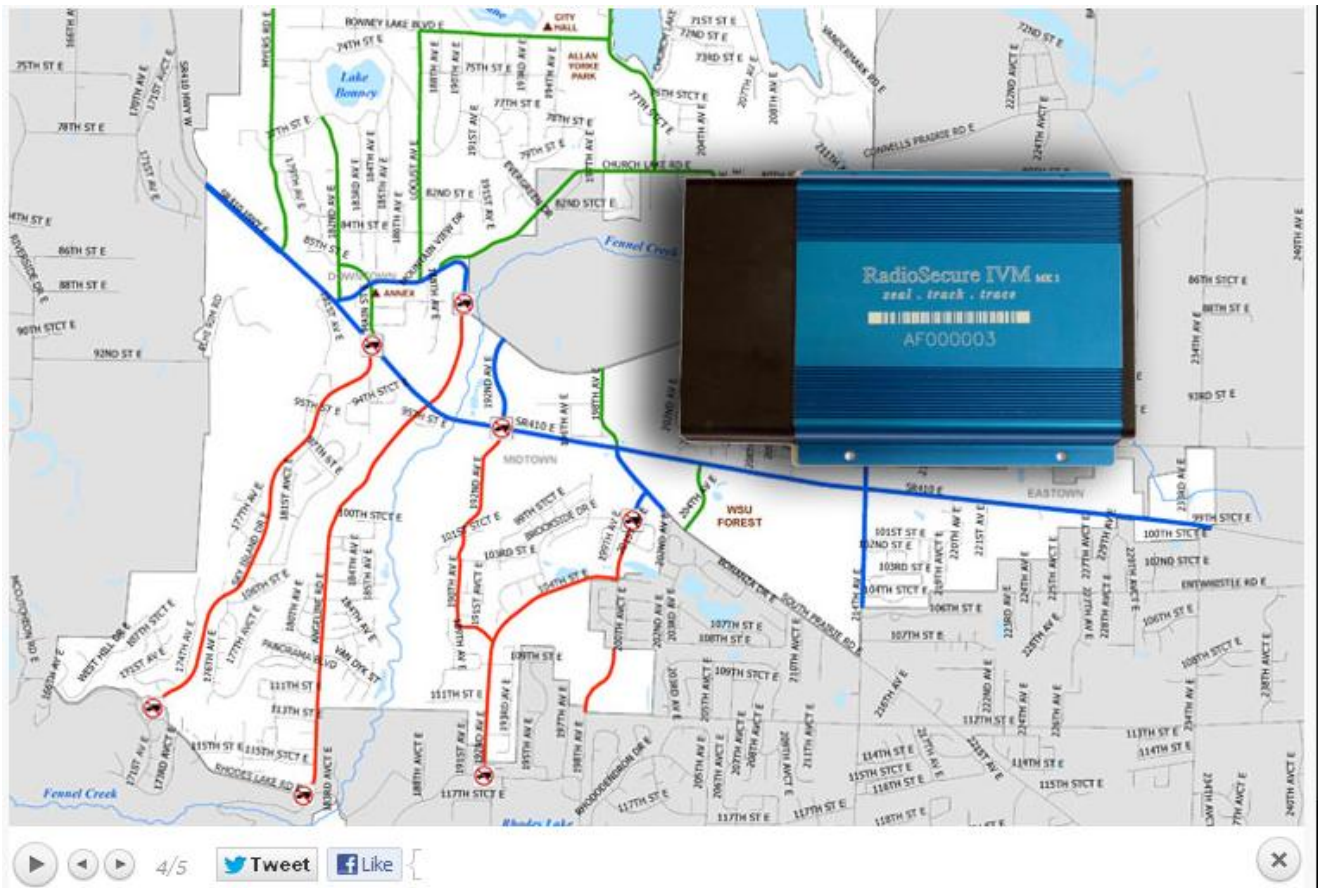
## SPECIFICATIONS

| | | |
|---|---|---|
| Model Number | RS-IVM-024A | Radio Frequency in Vechicle Master |
| Physical | L x W x D | 131mm x70mm x 25mm |
| | Weigth | 250gm |
| Environmental | Temperature | -30°c to +70°c |
| | Humidity | 95% non condensing |
| | Weatherproofing | IP54 |
| Wireless | Frequence | ISM 2.4GHz QFSK modulation |
| | Active Transmit Power | <18dBm(~100mW) |
| | Range | 200m L.O.S |
| | Protocol | Proprietary |
| | Air Data Rate | 250kbps |
| GSM/GPRS | Bands | GSM/GPRS/EDGE Quad Band |
| | SIM | Dual-SIM slots (Primary & Secondary) |
| GPS | Channel | SiRF Star III 20 CH |
| | Antenna | Active antenna with 2.5m cable |
| Electrical | Input Voltage | 8v to 30v |
| | Backup Battery | Rechargeable 3.6v,1.5AH AH Lithium Polymer |
| | Active Current Drain | 240mA |
| | Inactive Current Drain | 10mA |
| RF Data | Packet Data | 32 bytes per FIFO |
| Interface | Audio/Voice | Optional |
| | Digital Input/Output | 8 |
| | Anolog input/Output | 2 |
| | Serial | 1 |

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Optional GPRS to Iridium Satellite Failover

GPS Satellite

Satellite Communication

**RS IVM** is an integrated GPS/GPRS/RFID Black Box. It monitor RD devices associated to it. Any violation to its own status or others associated to it will trigger real time alert to Command Center and sends email/SMS to person subscribe to Alerts.

**RS SLA** seals manholes of BLC. Any un-authorized opening will trigger alert to Command Center and sends email/SMS to person subscribed to Alerts.

**RS DID** ensures authorized driver is on the wheel when vehicle is moving. Missing associated RS DID will trigger Alert to Command Center and sends email/SMS to person subscribed to Alerts.

**RS SLA** seals fuel tank/battery, any un-authorized opening will trigger and alert to Command Center and sends email/SMS to person subscribed to Alerts.

**RS SLE** seals outlet ports and any un-authorized opening or temperature goes beyond threshold will trigger an alert to Command Center and sends email/SMS to person subscribed to Alerts.

**RS SLA** seals outlet ports and any un-authorized opening will trigger an alert to Command Center and sends email/SMS to person subscribed to Alerts.

Laptops    Smart Phones    Personal Computer

Internet

Mail Server    Application Server

Telco Infrastructure

GPRS Network

GPRS Communication Server

**FALKEN Secure Networks (FSN)** *is the leading System Integrator and Consulting Solution Architect for advanced Active/Passive Unified RFID systems that leverage standards-based technologies. FSN integrates RF technologies for asset visibility, using EPC global standard RFID, 802.11n Wireless LANs, GPS, Wireless Sensors, IP Video Surveillance and Real-Time Location Systems (RTLS) for cost-effective design, and turn-key project implementation in complex and challenging environments. The breadth of FSN's domain expertise and applications solutions portfolio across all industries is unsurpassed.*

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