Government of Goa
Directorate of Fire & Emergency Services

SAFE GOA 24x7
EMERGENCY
MONITORING
SYSTEM

Vision of Safe Goa 24x7 EMS

"To provide an Effective Response plan by Monitoring & Preventing Fire, to Reduce & Minimise Loss of Life & Loss of Physical Assets thereby aiming at Making Goa the Safer State in India. This project is developed as an initiative for incorporating Technological Advancements integrating IT application & Digitization. "

Project Objectives of Safe Goa 24x7 EMS

❑ **All Facilities (Industries, Hospitality, Hospitals, Banks & High Rise Buildings) having independent Fire Protection Systems will Connect with Safe Goa 24x7 Emergency Monitoring System.**

❑ **Monitor the Health of the Fire Protection System(Fire, Detection, Alarm & Fire Fighting System) in real time and facilitate immediate dispatch of resources.**

❑ **Ensure all Facilities in Goa have a functional Fire Protection System on 24x7 Basis and not just when seeking NOC at Initial or Renewal stage.**

❑ **Optimize use of Manpower needed for periodical Fire Safety Audit.**

❑ **Minimize loss due to Business / Activity disruption due to Fire incident through Automated Compliance Monitoring System.**

❑ **Integration of GPS with the EMS to facilitate optimum utilization of fleet of Fire Fighting appliances.**

Services Monitored on Safe Goa 24x7 Emergency Monitoring System

- **Fire Detection System**
  - **Panel On/Off Condition**
  - **Panel Fault Condition**
  - **Panel Pre-Alert Condition**
  - **Panel Alarm Condition**
- **Fire Protection System**
  - **Pump On/Off Condition**
  - **Pump Fault Condition**
  - **Water Line Pressure Status**
  - **Water Tank Level Status**
- **Gas Detection System**
  - **Gas Panel Status**
  - **Gas Panel Fault**

Architecture Overview of Safe Goa 24x7 EMS

FIRE ALARM CONTROL PANNEL

VFC

BLACK BOX

Fault Condition

Alarm Condition

On/Off Condition

2G3G Router at Industrial site

APPLIANCE DISPATCH

GRAPHICAL USER INTERFACE

CLOUD

EMERGENCY MONITORING IoT BASED APPLICATION

SAFE GOA 24 X 7

Automated response alerts viz email, sms.

System in Action…..

FIRE DETECTION SYSTEM

FIRE ALARM CONTROL PANNEL

GRAPHICAL USER INTERFACE

Alarm Condition

VFC

EMERGENCY MONITORING IoT BASED APPLICATION
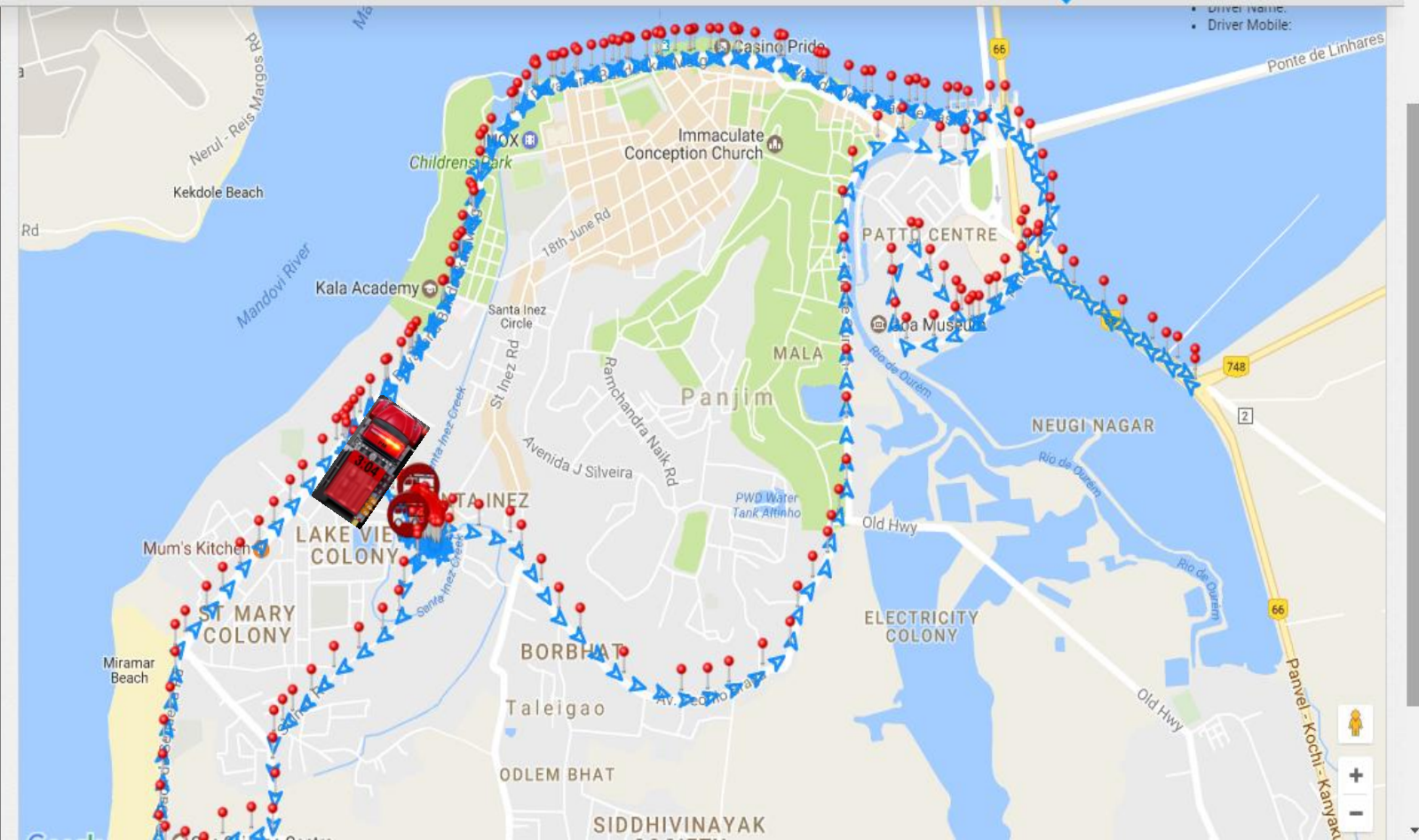
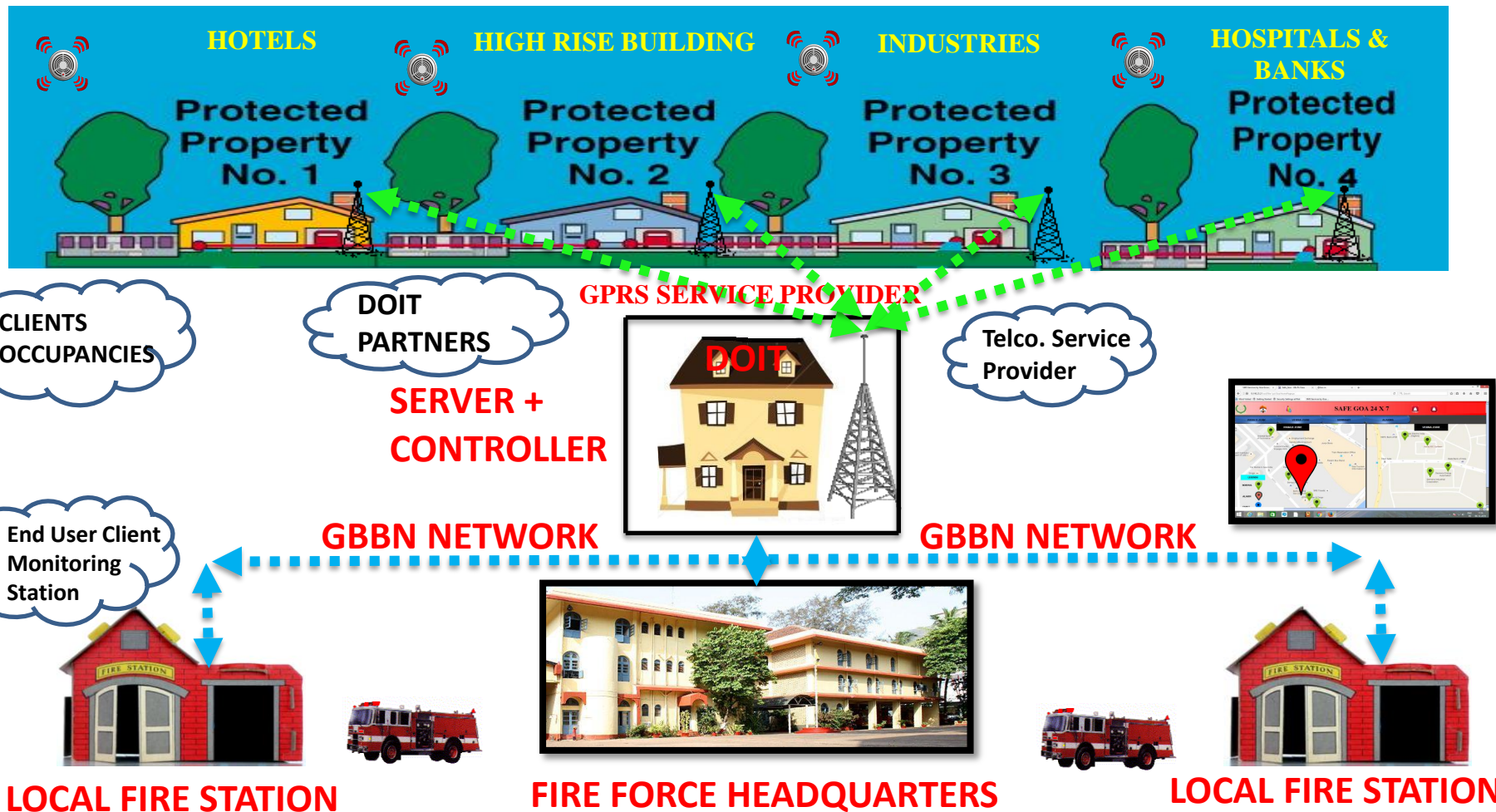2G3G Router at Industrial site
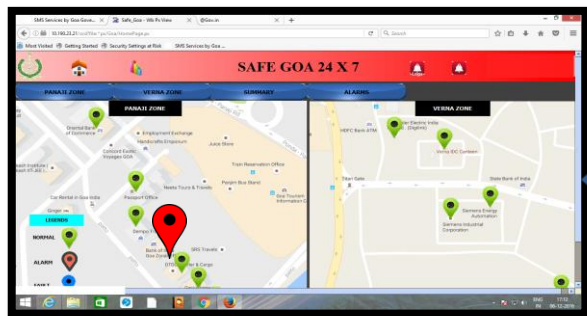
CONTROL ROOM /LFS

CLOUD

BLACK BOX
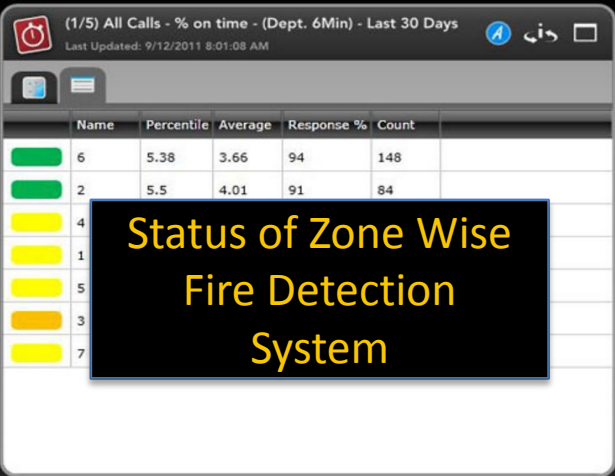
**Automated response alerts viz email, sms.*

Control Room Communication & GPS Monitoring System in lieu with Safe Goa 24x7

SAFE GOA 24X7 EMERGENCY MONITORING SYSTEM Clients ,Project Partners & Service Providers.

HOTELS   **HIGH RISE BUILDING**   **INDUSTRIES**   **HOSPITALS & BANKS**

Protected Property No. 1   Protected Property No. 2   Protected Property No. 3   Protected Property No. 4

GPRS SERVICE PROVIDER

CLIENTS OCCUPANCIES

DOIT PARTNERS

Telco. Service Provider

SERVER + CONTROLLER

DOIT

GBBN NETWORK   **GBBN NETWORK**

End User Client Monitoring Station

LOCAL FIRE STATION   **FIRE FORCE HEADQUARTERS**   **LOCAL FIRE STATION**

Graphical User Interface Showing all Information

*Stakeholders of Safe Goa 24x7...

GOA FIRE & EMERGENCY SERVICES

- **Provide Real Time Monitoring**
- **Save Lives**
- **Ensure 100% Compliance**
- **Use Resources Effectively**
- **Sustainable Revenue**

INDUSTRIES HOTELS HOSPITALS HIGHRISE BUILDINGS COMMERCIAL EST. BANKS

- **Be 100% Safety Compliant**
- **Ensure Asset Safety**
- **Ensure Business Continuity**
- **Ensure Safe Working Environment**

OBJECTIVE & ACHIEVEMENT

- **Stay Safe**
- **Work Safe**
- **Feel Safe**