

# FROG NMS

Based Solution

A SEAMLESS COVERAGE SOLUTION FOR  
CUSTOMER ....

**INTERNATIONAL SALES**

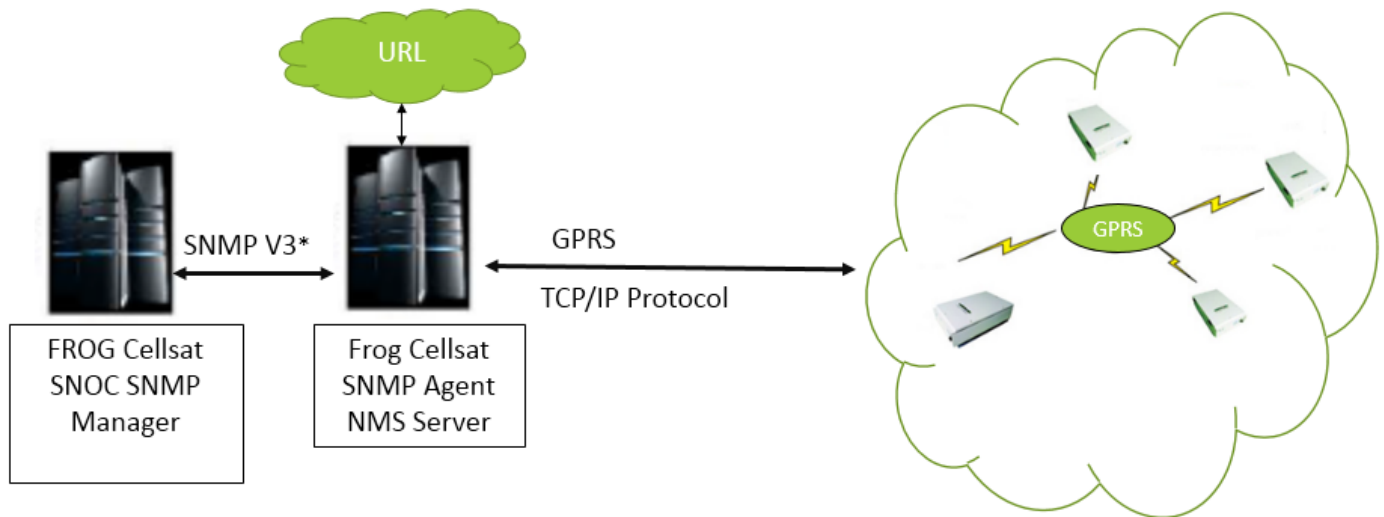
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## NMS ARCHITECTURE

- Frog NMS is our revolutionary Network Monitoring System that facilitates Monitoring and Controlling of Frog Cellsat Active DAS equipment's like POI, MOU & ROU.
- This is propriety software that helps conducts Remote Real-Time supervision of Frog POI, MOU & ROU.



## KEY FEATURES

- Alarms like Electric Power, Output Power, synthesiser & etc. can be viewed from anywhere through login/pass of Frog NMS Server. Control parameters are Power Amplifier On/OFF, DL/UL gain control, DL/UL ALC control & etc.
- There is no need of polling parameters from Frog NMS server but every equipment itself send updated parameters to NMS automatically.
- Operators having appropriate login/pass facility can change parameters remotely (Controlling).
- FMCS can monitor and control large no of POIs, MOUs & ROUs.
- Supports backup and restore of Database.
- Schedule automatic tasks such as inventory dump downloads, KPI Reports, etc.

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## NMS HARDWARE/SOFTWARE PLATFORM

HARDWARE/SOFTWARE	SPECIFICATIONS
Processor	Intel Xeon E5 / 2.4GHz / 6 Core
RAM	16GB
Serial Ports	USB
Hard Drive	1TB RAID HDD + DVD RW
Display (SVGA)	15" (1024 x 768)
Keyboard + Mouse	Yes
Operating System	Windows/Linux
Database	MySQL
Web Server	Tomcat

## System Component:

### NMS (Network Management System)

- ❖ NMS: Network Management System is used to have complete control and monitoring rights of our network elements. It is a web-based GUI which accessible from any web browser with the help of URL.
- ❖ It is compliance with FCAPS.
- ❖ NMS is used to have reports such as inventory, statics data, user related data, alarm data, configuration data.
- ❖ With the help of NMS, user can schedule his/her task easily as it is user friendly.
- ❖ In case of server break down, there is a feature in the NMS to Retain the NMS Software from its current position. We can reconfigure the server from Maintenance mode.
- ❖ User can also configure mail id and schedule task to send all the reports on time to his/her mail.
- ❖ User rights can be easily manageable from administration section.

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**NMS Additional/Optional feature:**

- ❖ Fault Management Module of NMS supports SNMP to forward Traps to the SNMP Manager in case of any alarm occurrence in the system/network element.
- ❖ It supports SNMP V3 for integration with NBI.

**DAS**

- ❖ Below MOU parameters can be monitored on NMS

**System Details:**

- a) Lac id
- b) Cell id
- c) Site name
- d) Serial number
- e) Part number
- f) Server IP, APN & port
- g) Site region name

**Optical details:**

- a) Optical power UL
- b) Optical power DL

**RF Details:**

- a) ALC/AGC UL/DL
- b) Gain UL/DL
- c) PA Control UL/DL
- d) RF Power UL/DL

**Alarms in the System:**

- a) Synthesizer UL/DL
- b) RF output power based on threshold limit UL/DL
- c) Element power failure
- d) Rou Connectivity Alarm
- e) Optical Link failure UL
- f) Optical Link failure DL

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