



WIRELESS UNIT

No.80/SP(Wireless)/DR/2021

O/o the SP (Wireless)
Puducherry
09.06.2021

AWARENESS ADVISORY @ INSTRUCTIONS FOR INSTITUTIONAL MEMORIES

Sub: General Awareness - Communication: Part - I-B / AS-IS

Ref: Institutional Set-up & Functioning Wireless Network

"INTER-STATE POLICE COMMUNICATION"

(Digitalized with Email & V-Sat mail)

Introduction:

DCPW, MHA had rollout POLNET-1.0 in the year 1995 as part of digitalization. Every Police Stations / District & Regional HQ of Puducherry Police was made on "NODE" and connected to the nodes at ISPW & DCPW for both Telephone Call and Wireless Communication but in vain due to the then available technology & bandwidth issue.

Upgraded version as POLNET-2.0 was rolled out in the Heads of PPDR Conference held at MHA on 21.01.2020, titling as **Public Protection and Disaster Relief (PPDR)**. TRAI declared **free frequency bandwidth** and it is re-titled as **Broadband - Public Protection and Disaster Relief (BB-PPDR)**. **Mission Mode Project of DCPW, MHA**

In short, it is the Satellite based network with Broadband connecting all NODEs facilitated to Police, Defense forces, Disaster Management etc. to ensure Inter-state & Intra-State connectivity with DCPW/ISPW as Nodal Agency.

- A. MHA fully sponsors for Heads of Police (DGsP / IGsP) as extended
- B. MHA partly sponsors to all States / UTs
- C. MHA directed all States / UTs to bear **one-time Infra-Structure** cost by finalizing Rate & Vendor.

Mission Mode Project of MeitY

(Ministry of Electronics & Information Technology)

Polnet is the advanced version of **SWAN**, as it can connect any terrestrial point which is not reachable for wiring.

- ✓ **Wired network** - State Wide Area Network (SWAN)
- ✓ **Wireless network** - Polnet-2.0 V-SAT

It was the wired connectivity connecting all offices in every states / UTs establishing a dedicated **SWAN Control Room** and Point of presence (PoP) from which LAN was extended to connect other computer within the same building within the proximity of 100 meters. In this the modem was connected to a BSNL broadband lease line. The node from the modem is connected to a switch having 32 ports where 32 computers or other accessories can be connected. It helps in file transfer / Share folders. It acts as **backbone connectivity structure for CCTNS**.

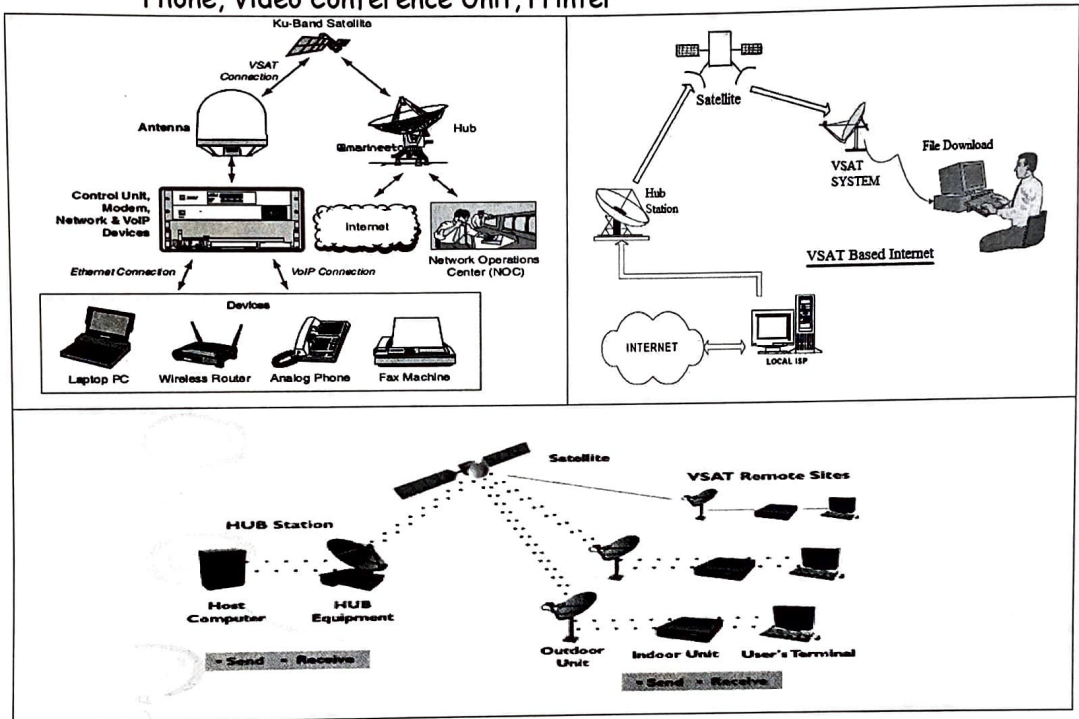
PUDUCHERRY POLICE POLNET-2.0 -V-SAT TERMINAL

Structure @ Instrumentation

Very Small Aperture Terminal (VSAT) is a small-sized Earth Station with two-way satellite Internet terminal used to Transmit / Receive of Data, Voice and Video Signals over a satellite communication network. It comprises of Out-Door Unit and Indoor Unit.

V-SAT Earth Station:

1. Out-Door Unit - Dish Antenna and Transceiver
2. In-Door Unit - Modem @ User - Connected to - Computer, VoIP Phone, Video Conference Unit, Printer



Our User Modem has 4 ports and they are connected as tabled below

Port 1	Connected to a Computer with a dedicated email ID
Port 2	Connected to a telephone with a dedicated VoIP Phone number
Port 3	Connected to Video conferencing unit with a dedicated ID Number. Operated through Tab for dialing & camera control with display TV
Port 4	Connected to a Printer

DCPW act as the HUB, user called as Polnet Terminals @ Node @ Ground Station represented by the Modem. HUB registers and permits the User Modems to get connected to form a Network by Service Provider DCPW and thereby facilitates interstate and intrastate communication between the terminals. DCPW connects all ISPW / Head Quarters of all State and UT / and MHA.

- A. Voice Calls (VoIP), Email, VC, Data Transfer etc. are the facilities facilitated between the Users.
- B. MHA can hold direct Video conferencing with minimum of 40 - 50 User terminals at a time after due notification
- C. Police Control Room, Puducherry can conduct with 5 terminals (Control rooms of Karaikal, Mahe and Yanam, DCPW & ISPW Puducherry)

Types of Inter-state messages

1. Investigation Officers (IO) seeking clues
2. VVIP tour programmes between Special Branch & Sigma Security
3. Sharing of Missing / Theft complaints seeking inter-state attention
4. Messages like Missing (Man / Women / Child), Kidnapping, seized / unclaimed vehicles

Messages generally communicated to the ISPW (DCPW unit established in every State / UTs Head Quarters). Such messages are being forwarded by respective ISPW to concerned Police / IB for dissemination to appropriate authority like SHO / IO / Special Branch / Sigma Security.

Instructions / SOP:

Based on the above, 4 V-SAT Terminals at Police Control Room (Puducherry / Karaikal / Mahe / Yanam),

- ✓ Computer, Printer - installed with a **Writer**
- ✓ Telephone (VoIP) - installed with **Call Attender**
- ✓ Video conferencing Unit - installed with **In-charge Inspector**

A. Telephone:

Telephone equipment will be installed with Call Attender and integrated with PRI Dial 112 of ERSS as "Single Emergency Contact".

B. Email:

It is the **Inter-State Messages** normally handled by Inter-State Police Wireless (ISPW). Now it is **de-centralized** connecting Control Rooms of Head Quarters / District of every State & UT.

The writer concerned will attend those emails and will prepare a dedicated message classifying into headers as like format done for ERSS calls Dial 112 / 1031 / 1073 and forward to SHOs / IOs / Special Branch / Sigma Security etc. as deems fit in liaison with accordingly In-charge Control room by downloading the emails from VSAT.

Pre-request:

Inspector CCR / Wireless are instructed to brief all staffs working under their control on the above and to get **feedback** as part of cross checking the information for its correctness and to **updating the correct information** as part of Institutional memory.

Instructed to report compliances and with acknowledgement from all staffs to ensure its reach to mark compliance report to SSP (Traffic).

Dr. Bascarane

CDC-SP (Wireless / VAC) & Web Officer

Inspector of Police

Puducherry Police

To:

All staffs of CCR / Wireless

Copy for information to:

Secretary to DGP & ADGP / Reader of IGP / Reader to SSP (Traffic)