



**HEADS' OF PPDR CONFERENCE**  
20<sup>th</sup> & 21<sup>st</sup> January 2020, Vigyan Bhawan, New Delhi

**Session on**

**POLNET 2.0 : Pan India Satellite  
Based Digital IP Network**  
**1400 – 1530 Hrs, 21<sup>st</sup> Jan 2020**

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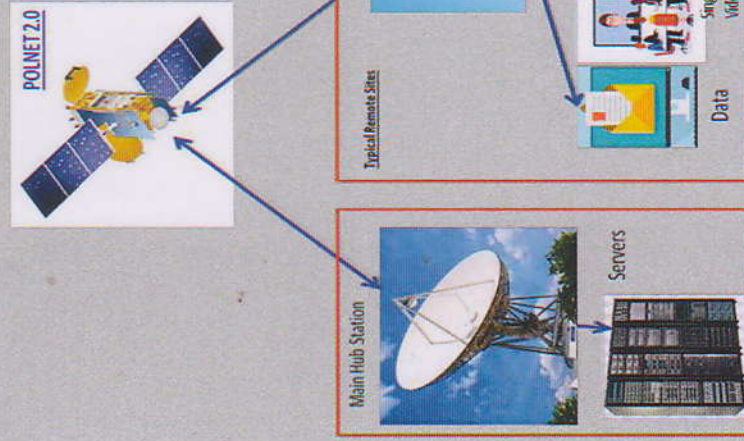
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**Organised by:**  
**Directorate of Coordination Police**  
**Wireless Ministry of Home Affairs**  
**Government of India**



## **POLNET 2.0 : Pan India Satellite Based Digital IP Network**

**POLNET 2.0** is a VSAT based Satellite Network using Star Topology. It is based on DVB-S2 standard & MFTDMA technology for Higher Spectrum Efficiency, Higher throughput, Better Network Security and Latest Network Management Systems. The network has been installed with an initial capacity to support upto 1700 VSATs and expandable upto 3000 remote VSATs all over India from **Ladakh to Lakshadweep**. The Network operates over a dedicated C- Band Satellite transponder of GSAT Series Satellite making it an all weather Communication Network. Majority of these **POLNET 2.0** terminals shall be installed at district level in States / UT Police, CAPFs & CPOs locations in remote, inaccessible and border areas, where the VSAT link provided through POLNET is the only and primary connectivity available to them. A pictorial representation of system is shown.



b. **1+4-** At some VSAT terminals, provision of Multi Conference facility is available for conducting Video Conferencing (VC) with Four(4) other VSAT Terminals having VC Endpoints located anywhere in India.

### ii. Voice

All VSAT Terminals are equipped with IP Phones for making phone high quality voice calls within the POLNET Network.

### iii. Data

All VSAT Terminals are equipped with Data Terminal Equipments for transfer of data like documents & multimedia files using File Transfer Protocol (FTP) with speed upto 2 Mbps within the Network.

### IV. Messaging

All VSAT Terminals are equipped with Data Terminal Equipments for exchange of messages with dedicated Messaging Software to send messages with attachments having store and forward capability.

**POLNET 2.0** also has **FLYAWAY VSAT TERMINALS** which can be packed in 4 boxes and hence are easily transportable & can be used for Data, Voice and Video Communication Link from anywhere in India. These terminals are especially useful when communication links are to be established under emergency conditions during disaster.

## **Services of POLNET – 2.0**

### i. Video Conferencing (VC) - Two types of VC facilities

a. **1+40** - At POLNET HUB, New Delhi, facility will be available for conducting HD quality Video Conferencing with upto 40 VSAT Terminals having VC Endpoints. (eg. MHA can conduct VC with all States & UTs at any point of time).