Digital Infotainment System (DIS)

Digital Network Solution (IP/Wi-Fi & soft phone, CCTV, IPTV, PC & wireless network and servers)

- Digital Infotainment System (DIS)

DIS is an IP based communication system especially designed for marine uses. All IP based equipment can be connected via a digital network.

PABX (Private Automatic Branch eXchange): Internal and external telephone communications are connected through this system. This system contains a combination of VOIP, digital and analogue internal telephones and external lines. VSAT, GSM and Inmarsat can be interfaced to the system. Wireless phones with roaming function are also available.
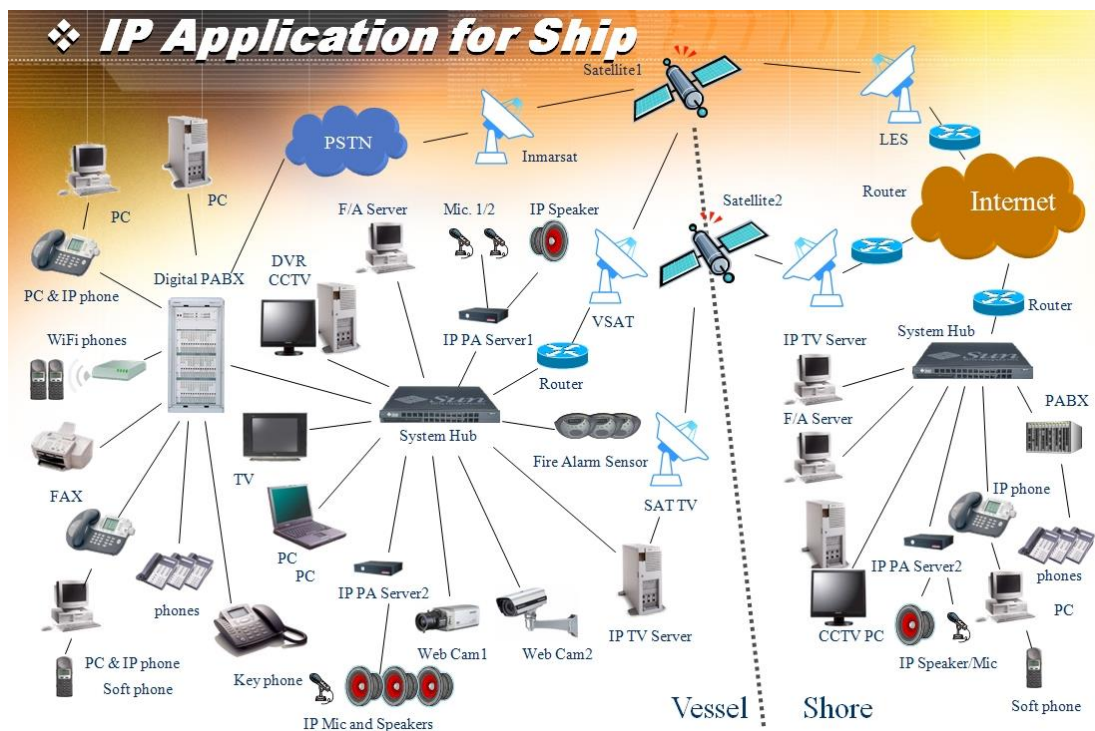
CCTV (Closed Circuit Television): Video and audio signal for monitoring purposes are digitised and transmitted through the network and internet connection. The ultimate benefit of digital CCTV over analogue CCTV system is greater flexibility, better performance, and easier installation.

IPTV/Internet Radio: This infotainment system contains a media encoder, video server and set top box. Through that, it can distribute IPTV, internet radio as well as any other video data (multimedia) source through the network to provide entertainment on board.

TVRO (Television Receive-Only): TVRO is one of the satellite TV system. The term TVRO (C/Ku bands) is used in the North American continent to refer the Free to Air (FTA) systems of Europe, Asia, and other continents.

VSAT (Very Small Aperture Terminal): The VSAT is a two-way satellite ground station or a stabilised maritime mobile antenna with a dish antenna that is smaller than 3 meters. The majority of VSAT antennae range from 75 cm to 1.2 m. Data rates typically range from 56 Kbit/s up to 4 Mbit/s.

LAN (Local Area Network) and Computer System: The local area network in the system is an advanced Layer 2/3 network with a large number of features. PoE function on all ports is the standard feature: i.e. an IP telephone does not need a separate power supply, which makes it easier and cheaper to install.

❖ IP Application for Ship
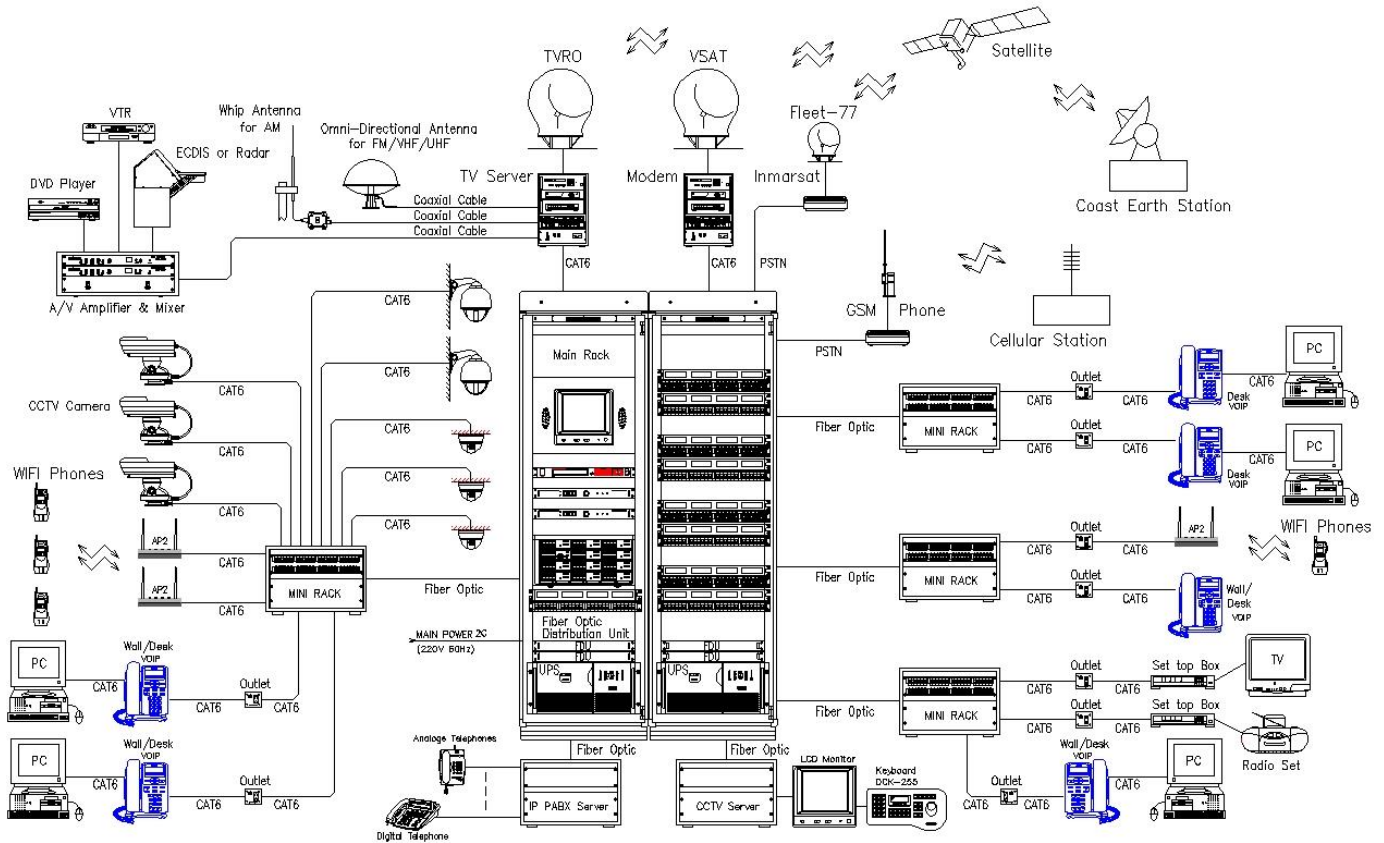
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-1. PABX	: Analogue, Digital, IP, Wi-Fi Phone
-2. CCTV	: Analog & IP Camera, Matrix, DVR
-3. IPTV	: IPTV, TV-Server, Set Top Box

-4. TVRO	: Sphere Radome, FTA, Controller, A/D Encoder
-5. VSAT	: Sphere Radome, Controller, Modem,
-5. LAN Network	: POE Switch, Optic Distributer, Patch Panel, FC

IP Network System Diagram (PABX/IP-TV/CCTV/TVRO/VSAT/CAS/LAN)

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