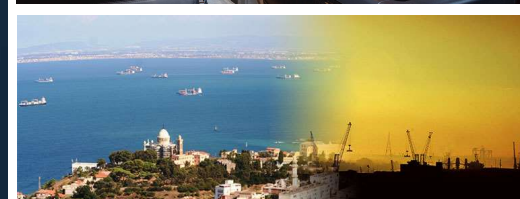
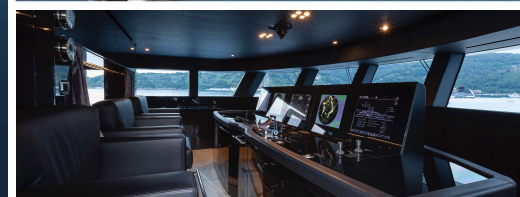




IHM Control rooms and
Radio communication solution



What we do

Solutions

- Radio Dispatch and Control Rooms; customised and standard systems
- Radio communication systems, customised and standard systems

Products

- Standard products and solutions
- OEM-products
- Accessories

Service

IHM Total Service
IHM 24/7/365 Service
IHM Daily Service



ONE SOLUTION. ONE SUPPLIER. ONE RESPONSIBILITY. COMPLETE SAFETY.



Solutions

Standard – ‘fits all’

Standard systems Plug ‘N’ Play

IP	IHM IP Flexible Basic	8 connections, server included in operator position
	IHM IP Flexible Small	8 connections
	IHM IP Flexible Medium	16 connections
	IHM IP Flexible Enterprise	17-64 connections

- **Scalable**
- **Flexibility** (free mix of number of operators / radios / radio technologies)
- **Easy operation**

Full redundancy

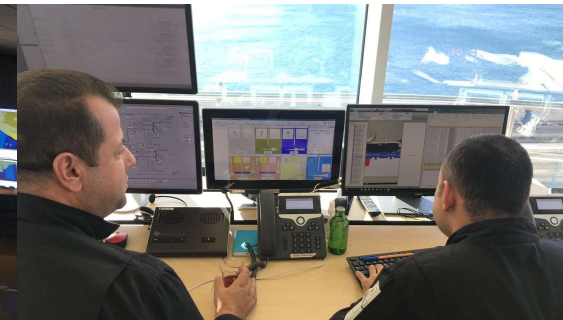
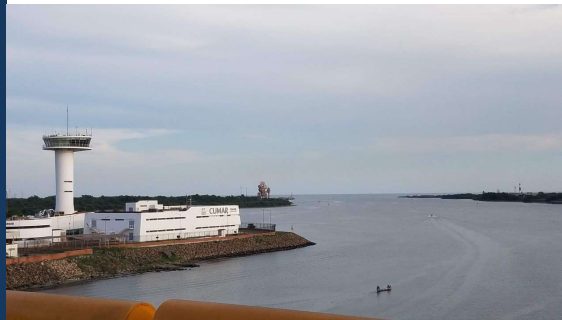
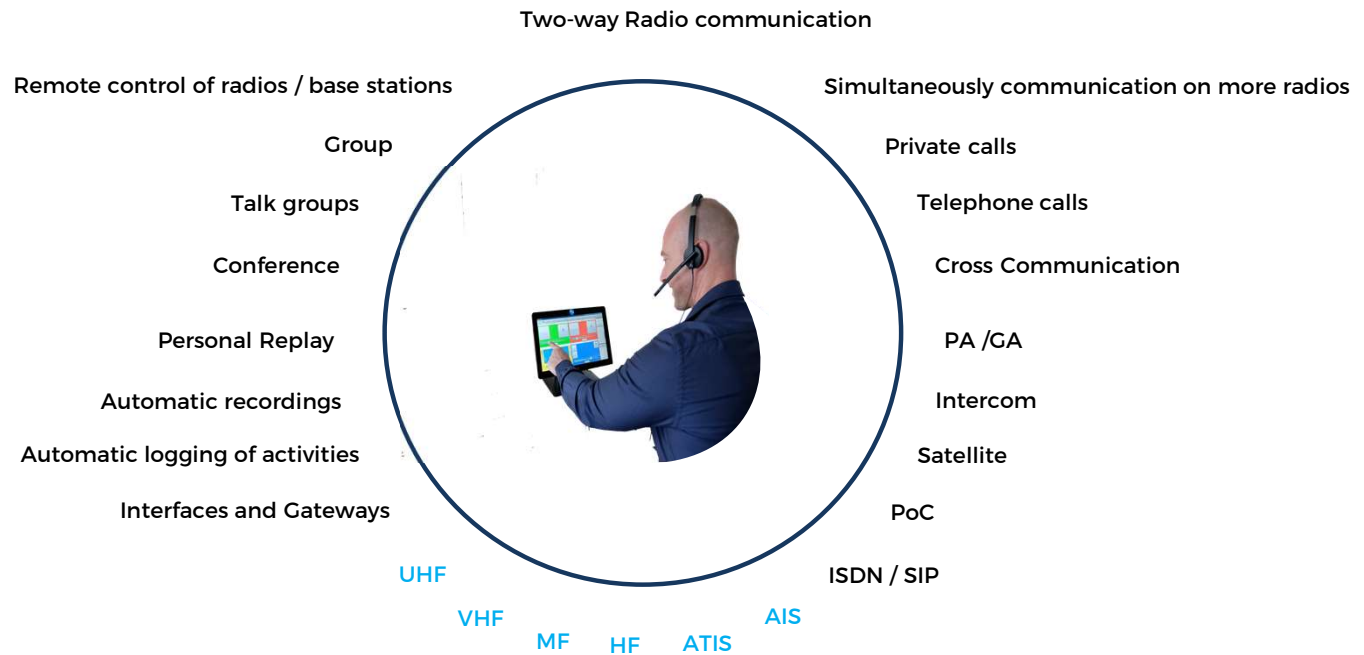
- ✓ Switch
- ✓ Server
- ✓ Backup

Partial redundancy

- ✓ Switch *or*
- ✓ Server *or*
- ✓ Backup



IHM IP Flexible – Plug ‘N’ Play (PNP)



Video demonstration - functionalities

Radio communication system, IHM Plug N Play

<https://www.youtube.com/watch?v=Nm90bBZAaIY>

MCS Setup

https://www.youtube.com/watch?v=TQ1E_G8KHP0

DSC

<https://www.youtube.com/watch?v=1labJFiwDFw>

Service

<https://www.youtube.com/watch?v=gTmFn-2hUh8>

Profile

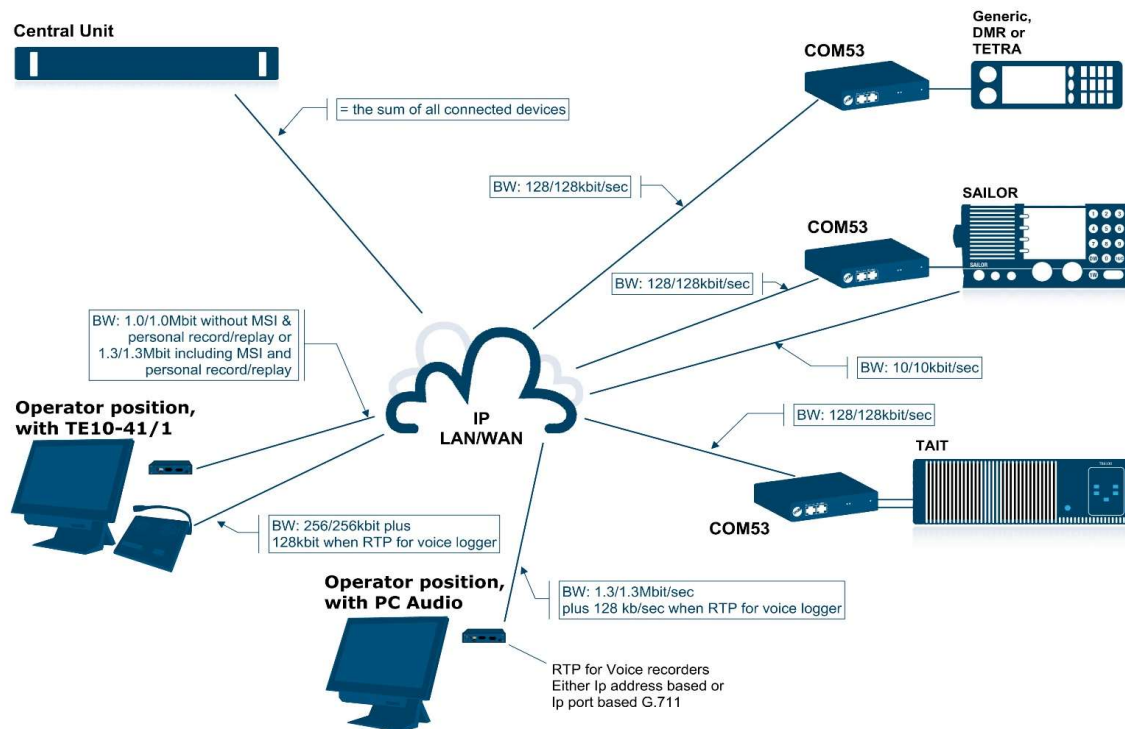
<https://www.youtube.com/watch?v=e4eXDHLT-Xw>

ATIS:

<https://www.youtube.com/watch?v=-mqCYcB43ro>



IHM – Network based solutions



Technical data and requirements

- VoIP codecs used: G.711 m-law or G.711 A-law
- Jitter buffer: 20 to 160msec
- Multiple audio path: <25msec
- Latency req. COM53: <700msec one direction
- Latency req. TE/PC: <150msec one direction
- QoS supported: Mode 0 to 5
- LAN speed for COM53: 10Mbit
- LAN speed for TE/PC: 10/100Mbit

Please note

Interfaces for radios are not limited to these radio interfaces. IHM has developed interfaces for +10 radios (VHF, UHF, MH/HF, TETRA etc).

Radio base stations using IHM COM53 can be remote controlled via a satellite connection, whereas Operator positions cannot.



PLUG 'N' PLAY – Applications

PABX and PSTN connections

IHM FLEXIBLE, Central Unit

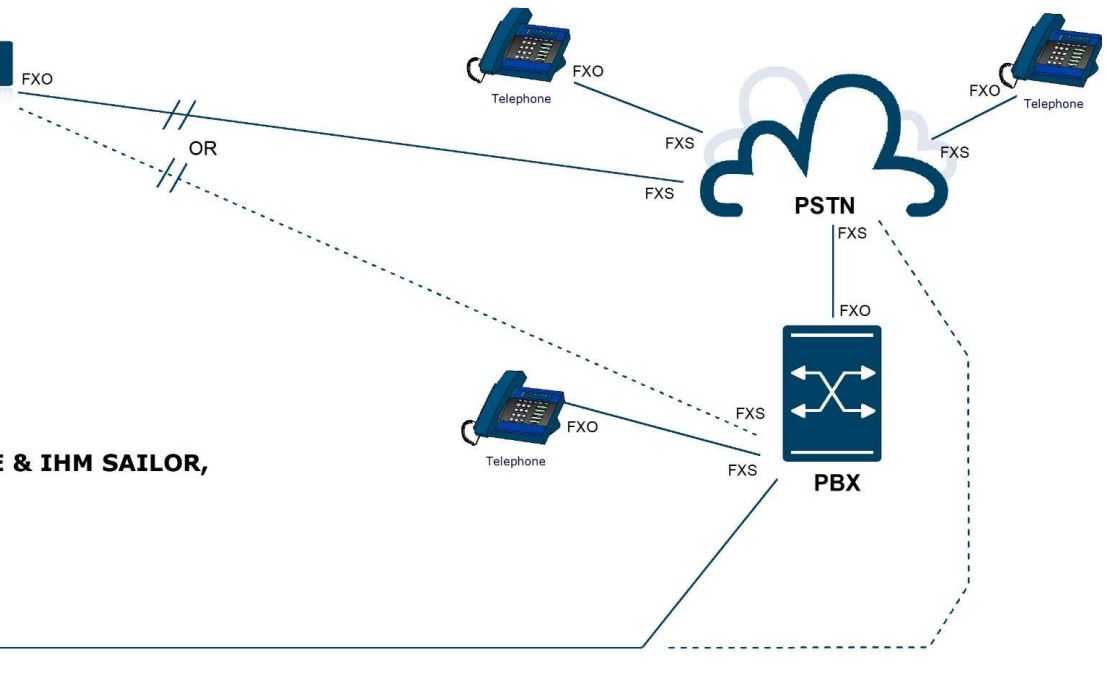


The IHM Flexible Central Unit holds 1x 2-wire DTMF analogue interface

IHM OFFSHORE-ONSHORE & IHM SAILOR, Operator position

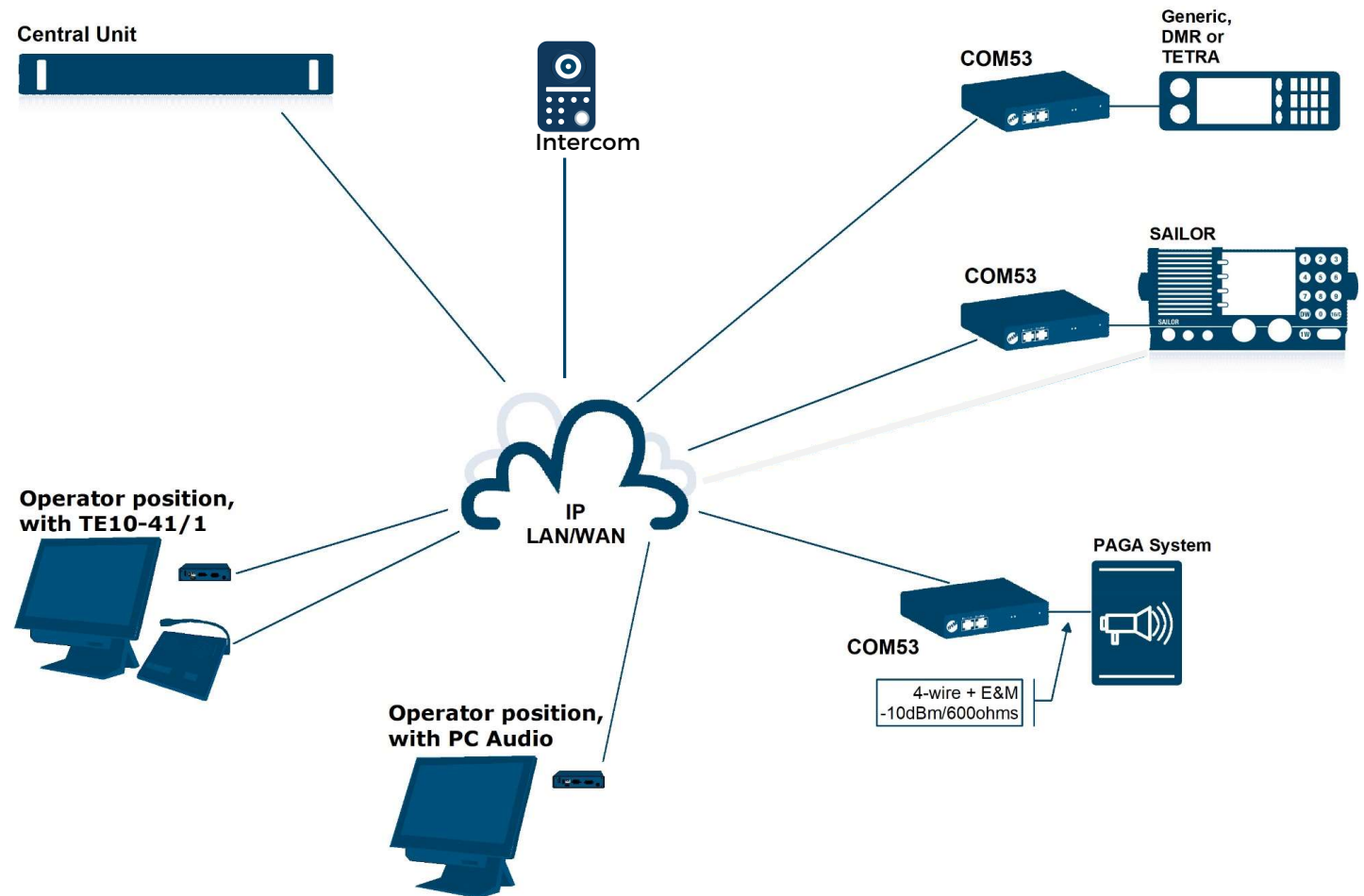


The IHM OFFSHORE-ONSHORE and the IHM SAILOR Operator terminal holds 1x 2-wire DTMF analogue interface



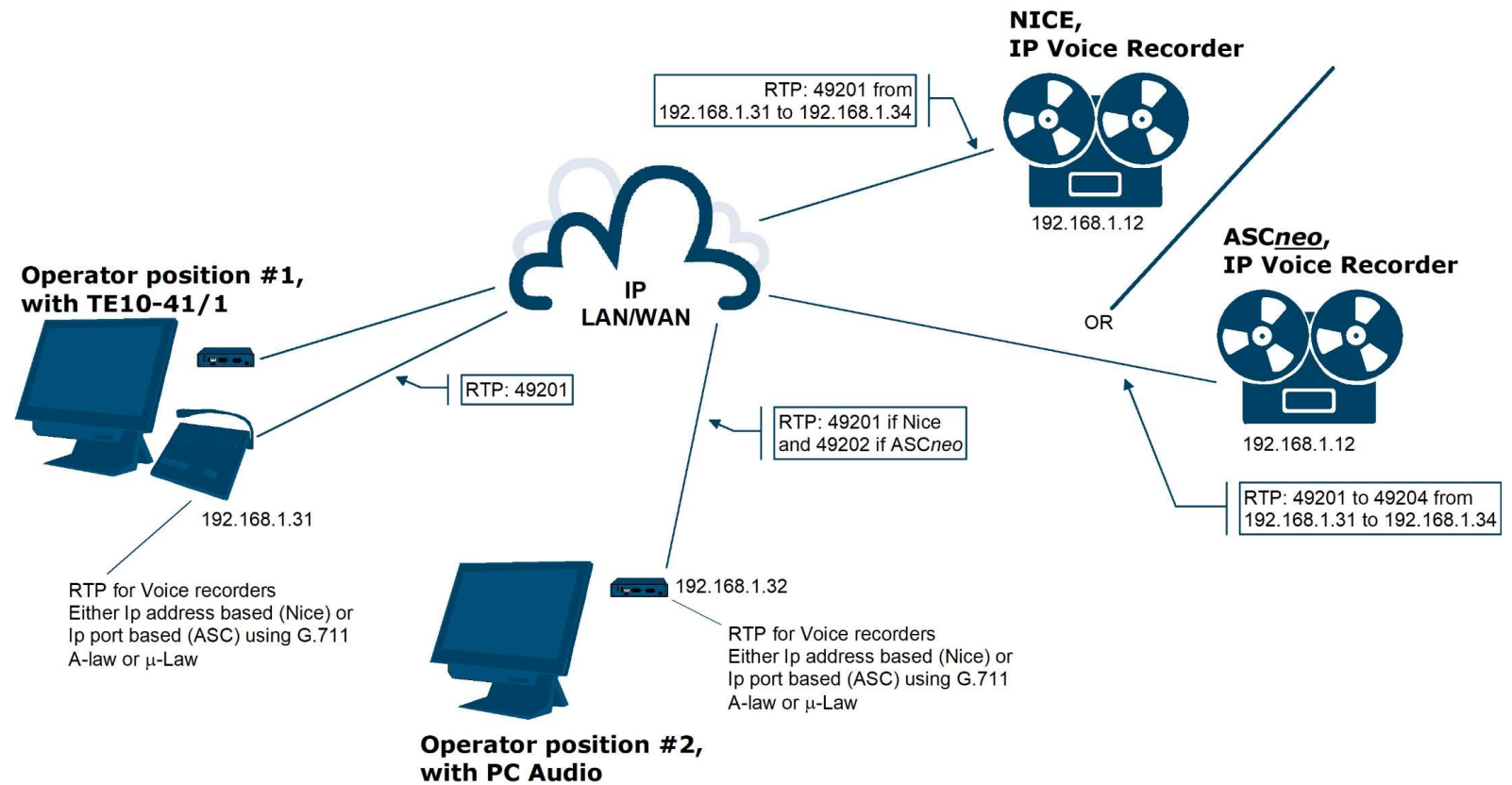
PLUG 'N' PLAY – Applications

PA/GA - Intercom



PLUG 'N' PLAY – Applications

External Voice Logger



IHM IVS Net



CareCall



Cellphone



Ports



MTM5400
TETRA



DM4600
MotoTRBO



SIP Telephony

Customer Applications - examples



TETRA



GSM /
SMS
GATEWAY



HM740 I/O



IHM COM53



IHM COM53



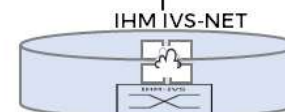
SIP
Trunk



Customer Applications



LAN/WAN



IHM IVS-NET

IHM IVS



Operator position w/
PC Audio



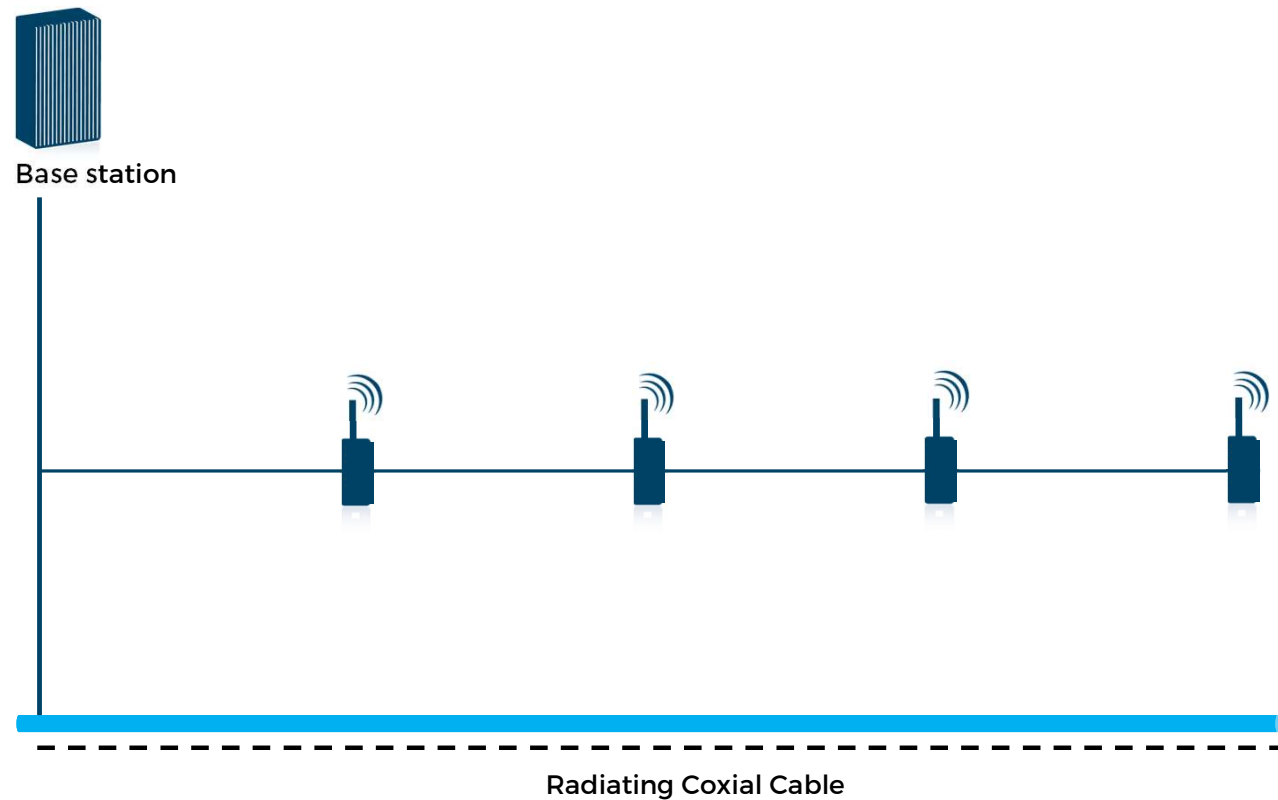
Operator position w/
IHM TE10-41



Operator position w/
IHM TE10-40

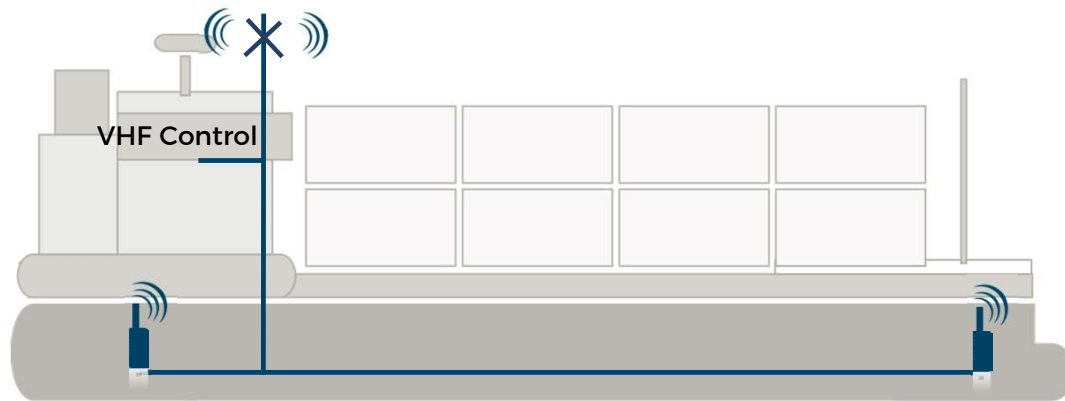
PLUG 'N' PLAY – Applications

Onboard Coverage for 'Safe Return to Port'

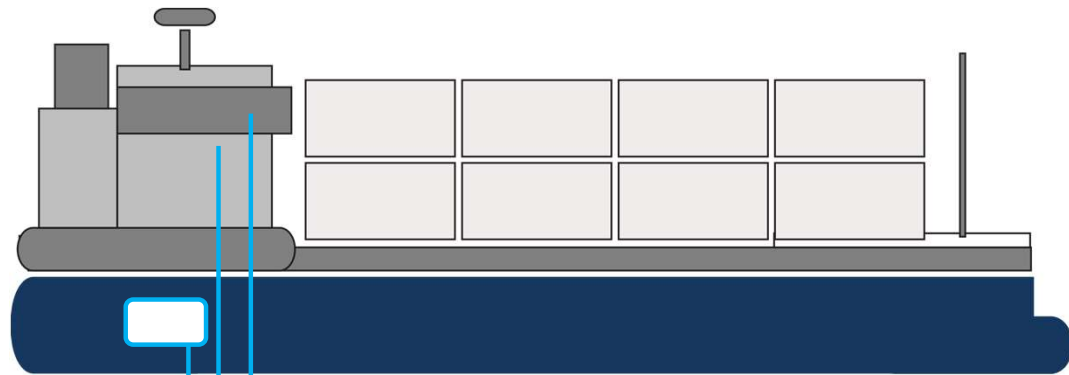


PLUG 'N' PLAY – Applications

DAS / CA



IHM GMDSS Station Concept



Bridge
Officers' room
Citadel



- ✓ VHF
- ✓ MF / HF
- ✓ UHF
- ✓ SATELLITE
- ✓ DSC
- ✓ PAGA
- ✓ INTER COM



IHM GMDSS Station

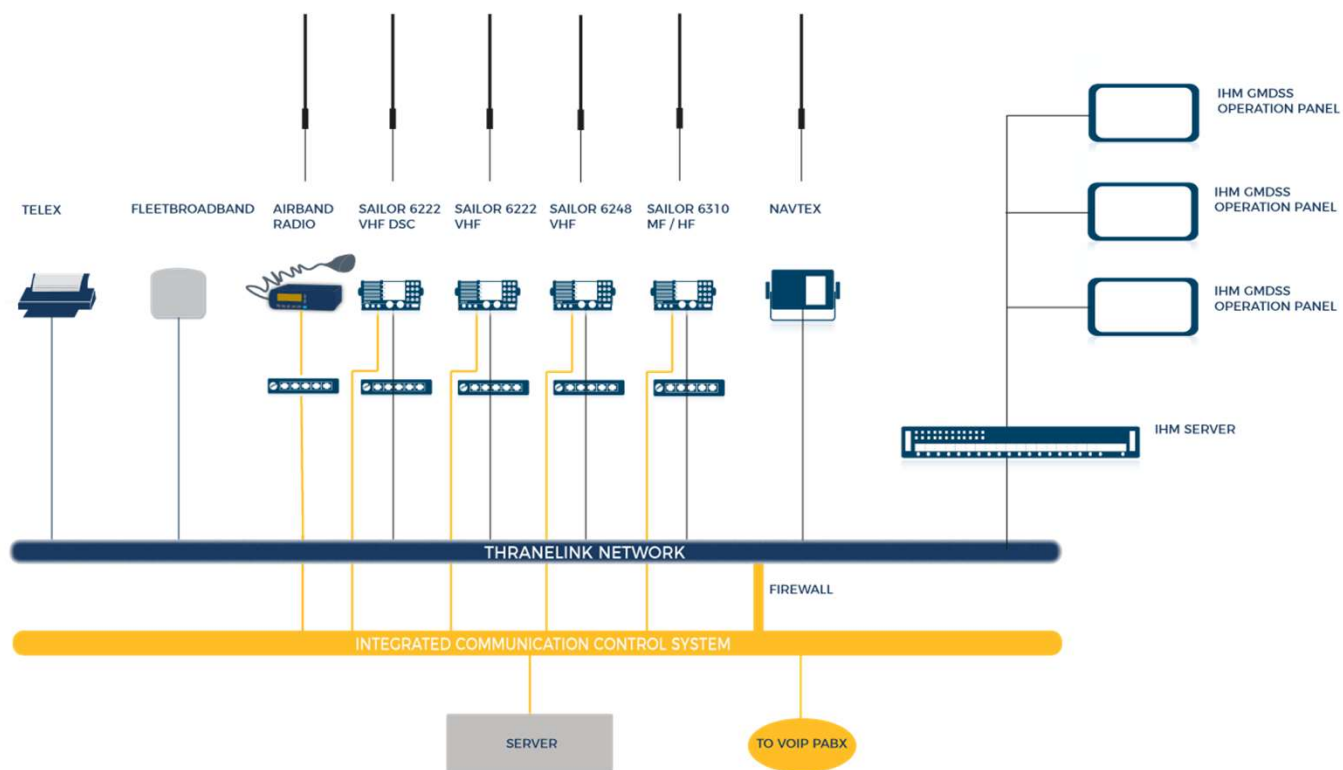
Functions

- 1 – 16 connections for operator positions / radios
- Remote control
- Cross channel connection
- Conference interconnect

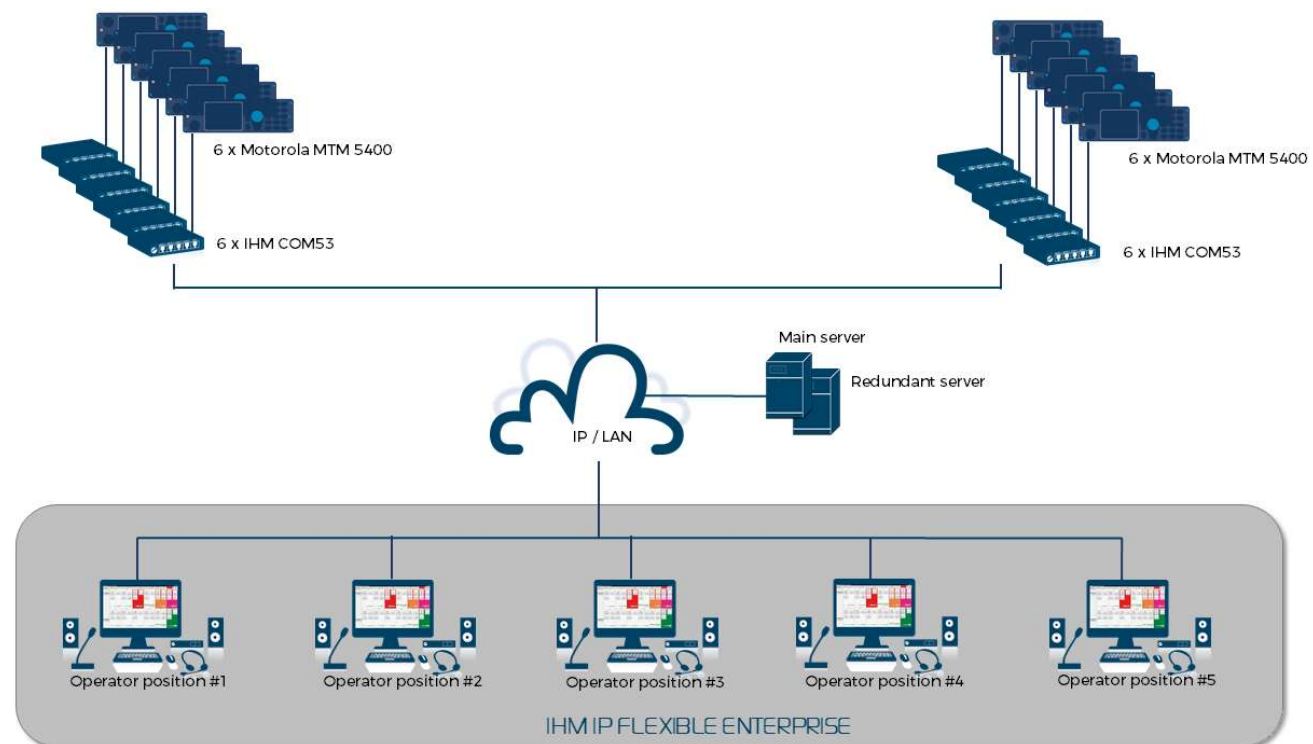
IHM radio communication - OEM system



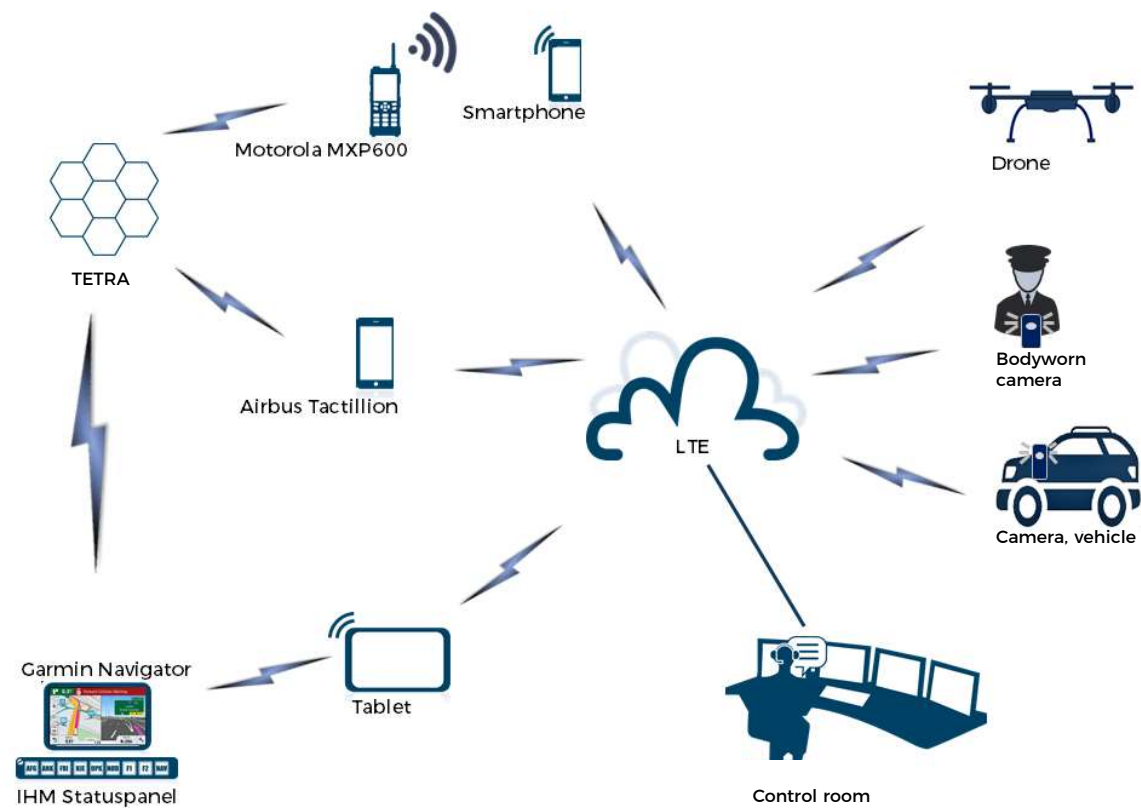
IHM GMDSS Station



General System drawing - Airport

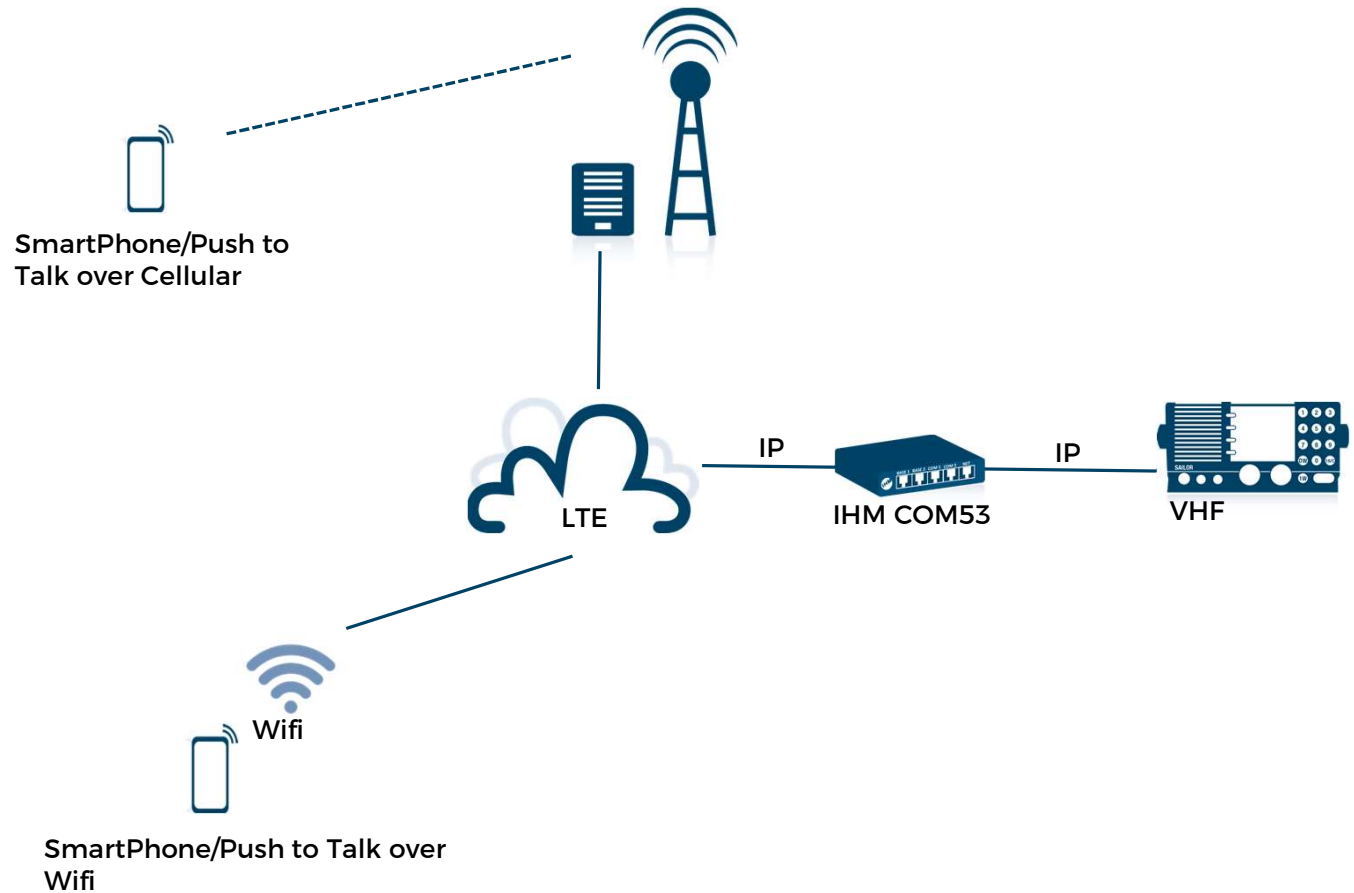


General System drawing – Public Safety



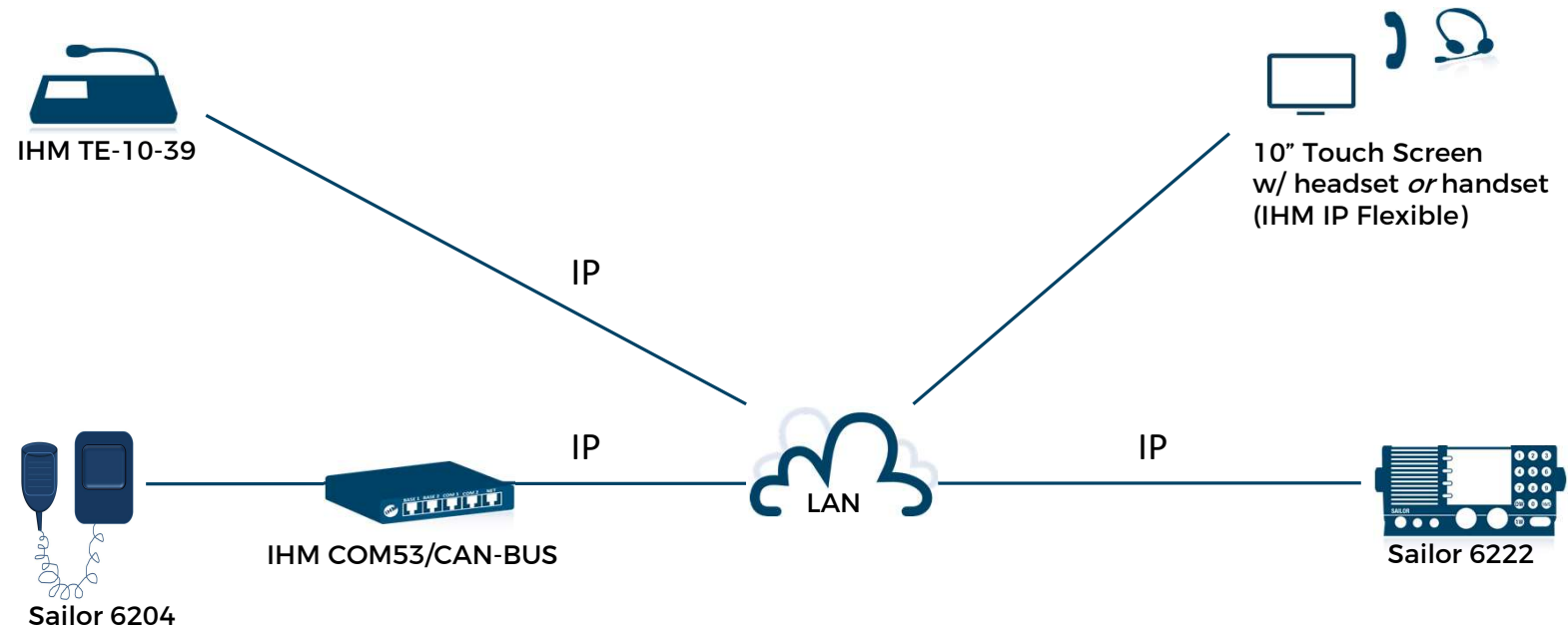
PLUG 'N' PLAY – Applications

PoC

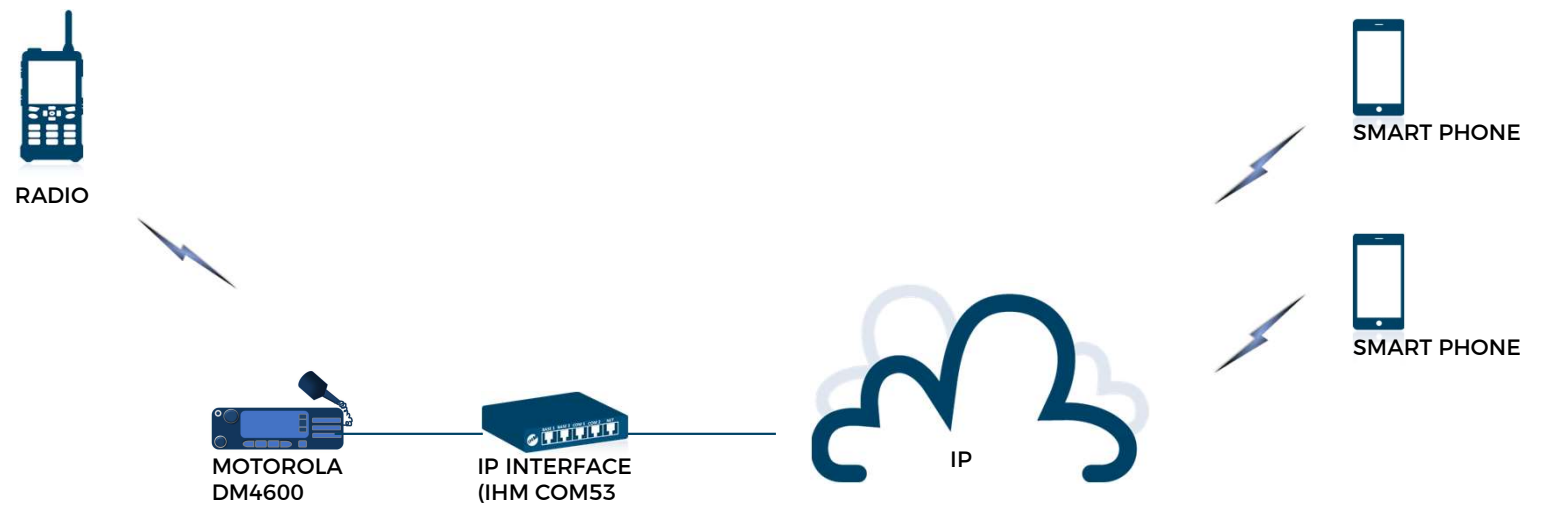


PLUG 'N' PLAY – Applications

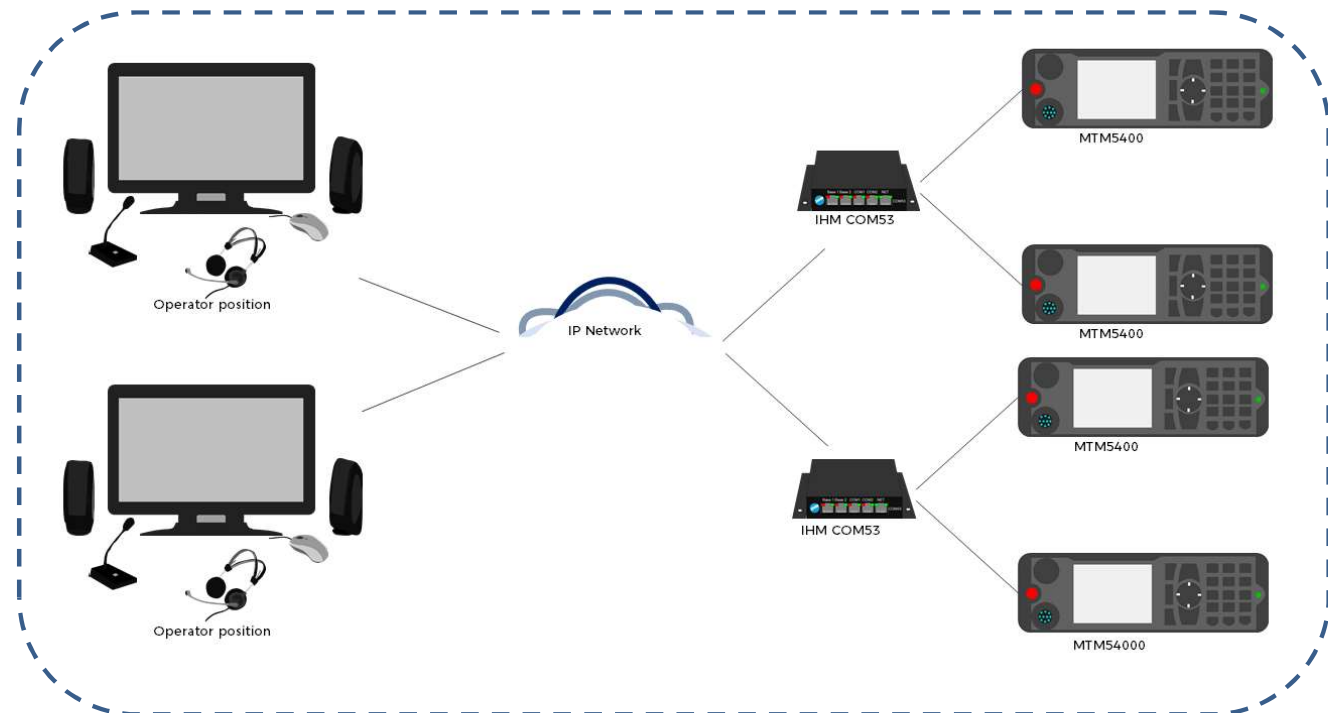
Extend remote control of Sailor 6222



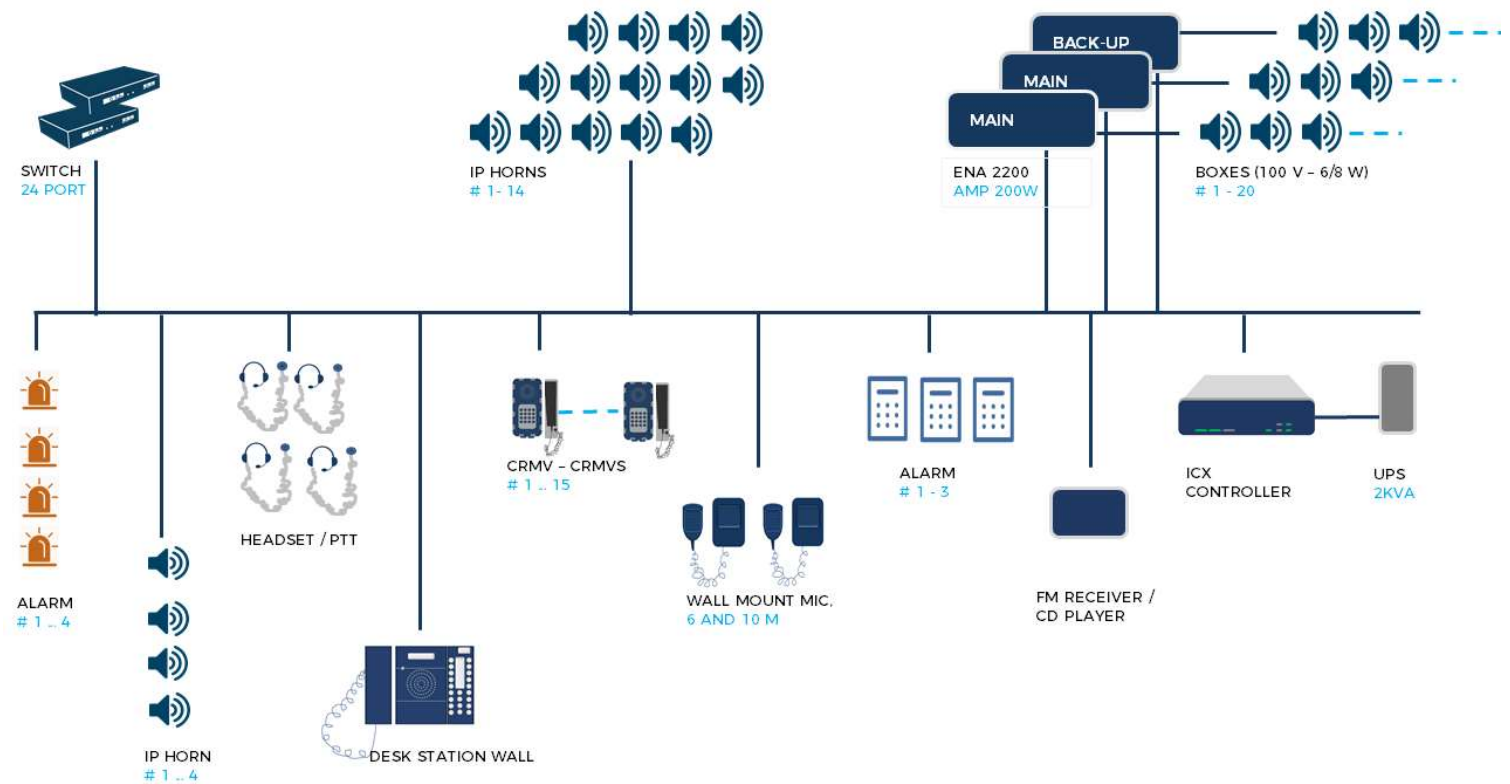
GROUP TALK (POC)



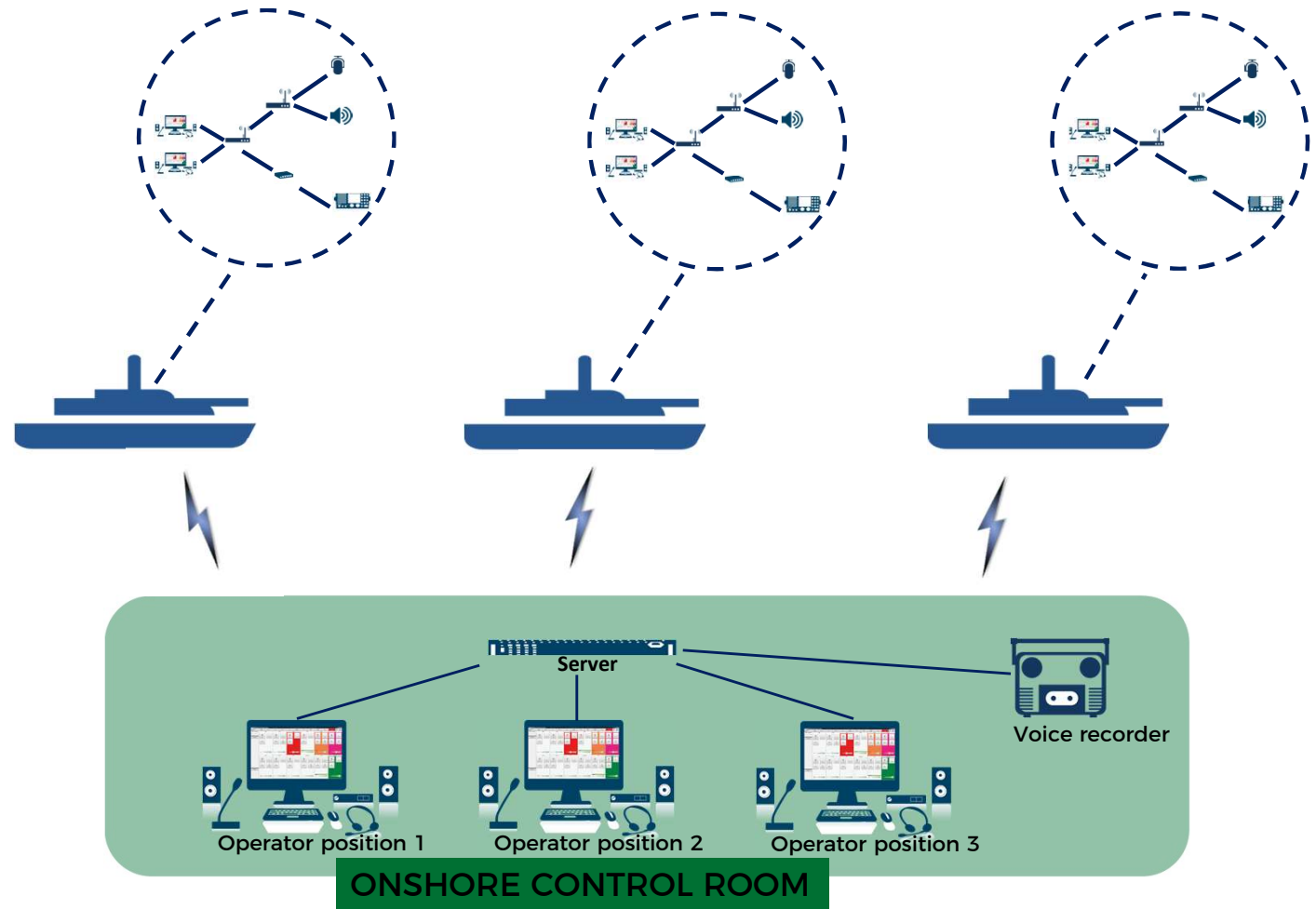
Mobile Radio Dispatcher



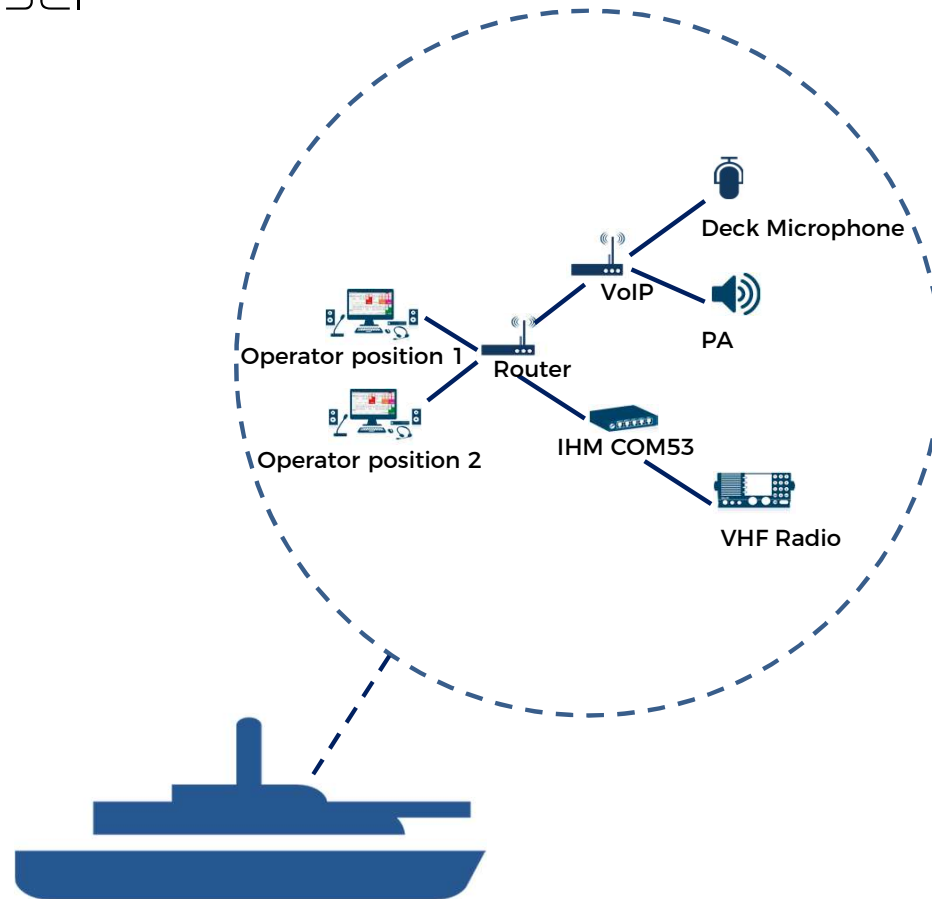
Communication system Vessel



IHM Communication and control room solution Vessels

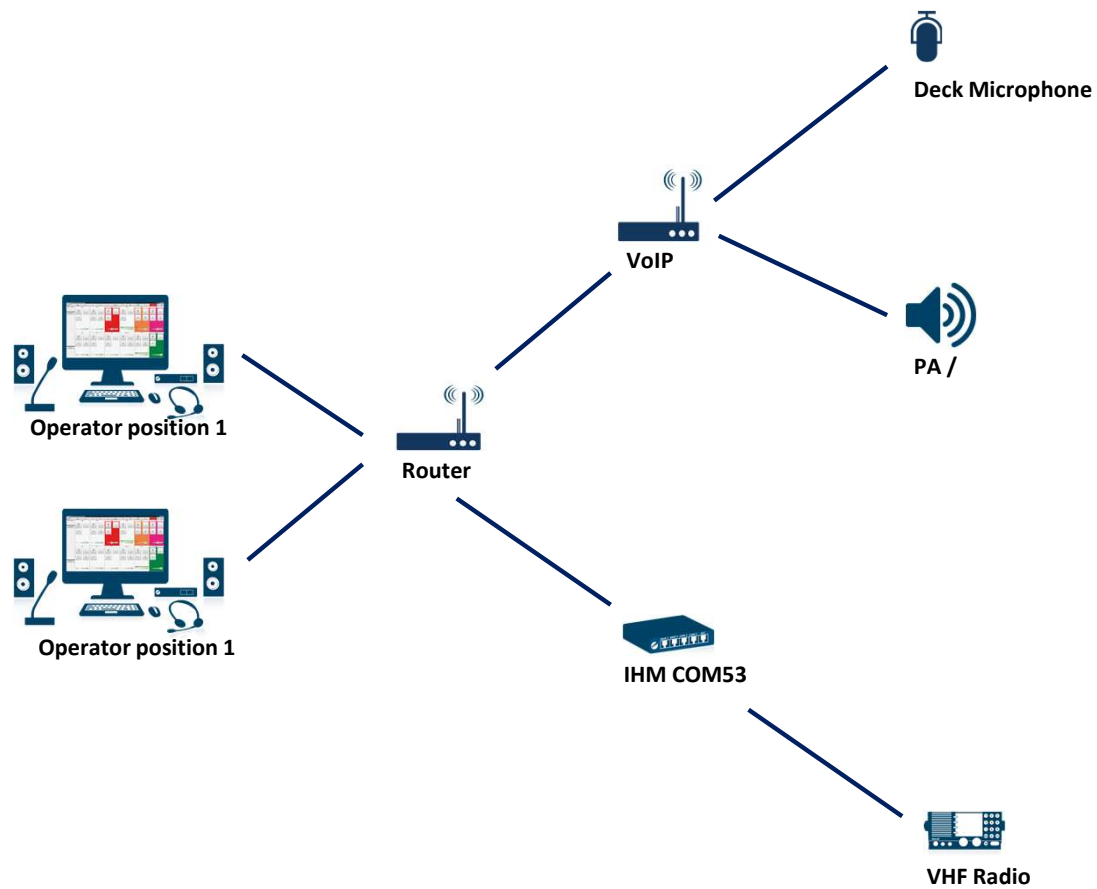


IHM Communication and control room solution Vessel

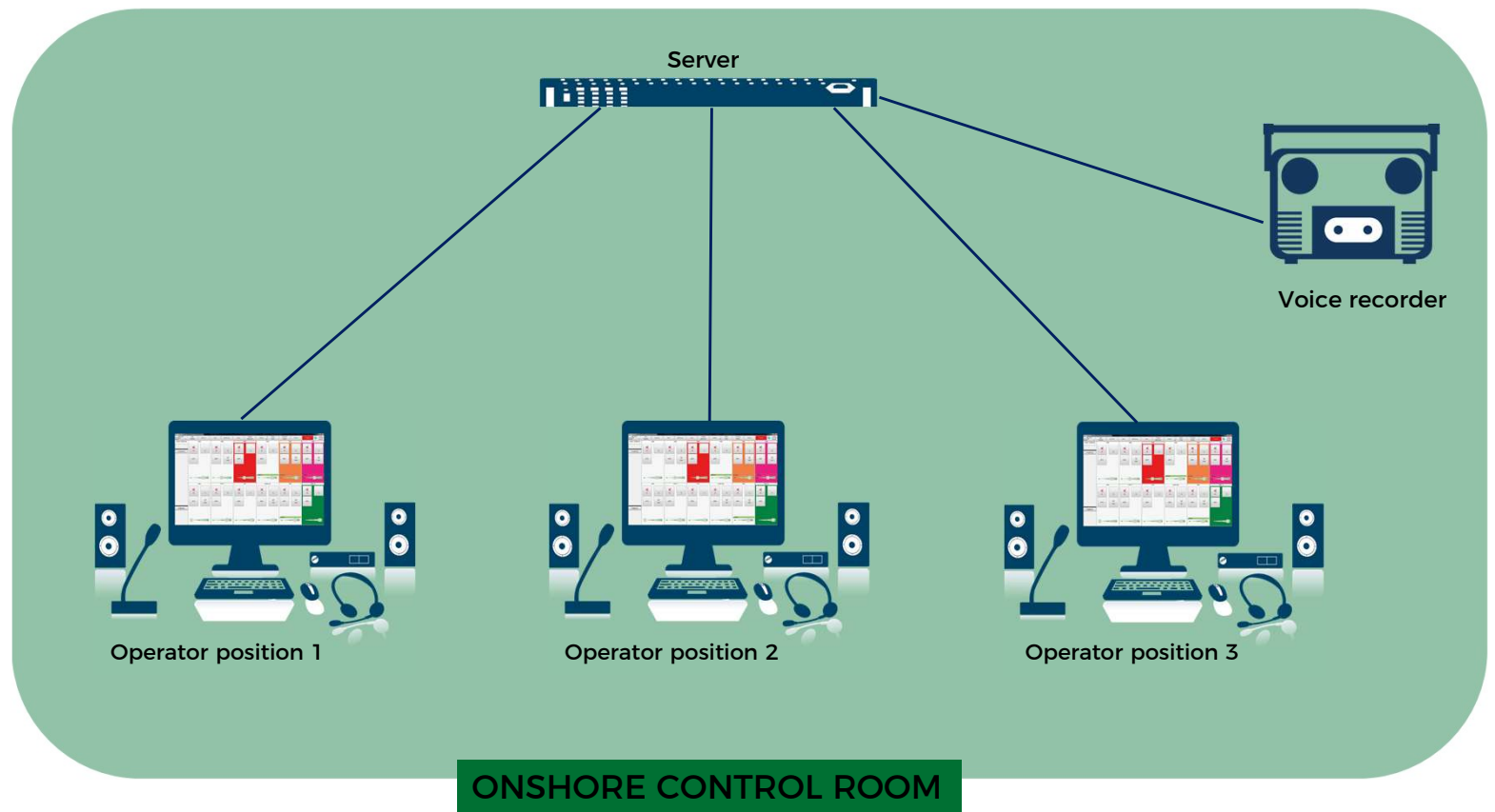


IHM Communication and control room solution

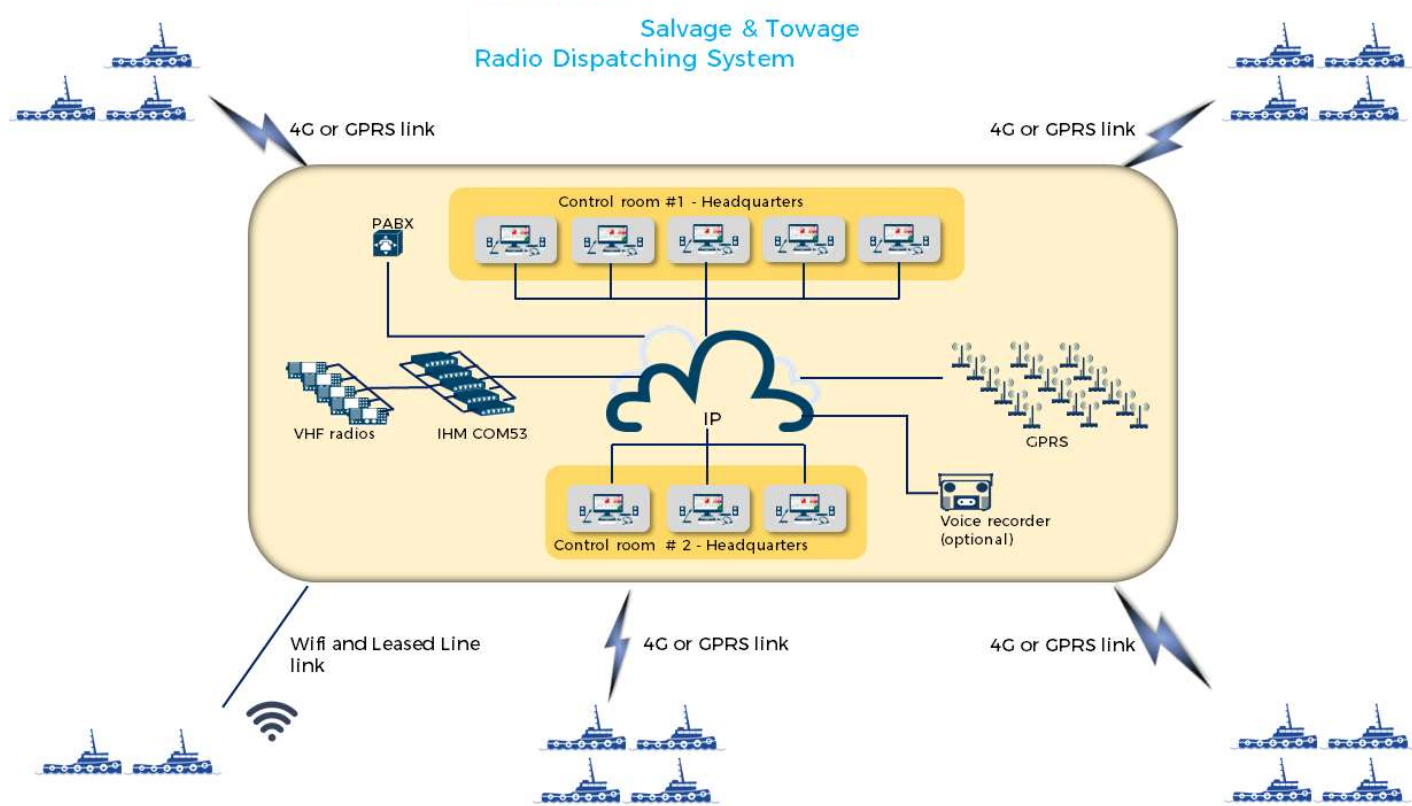
Vessel



IHM Communication and control room solution Onshore

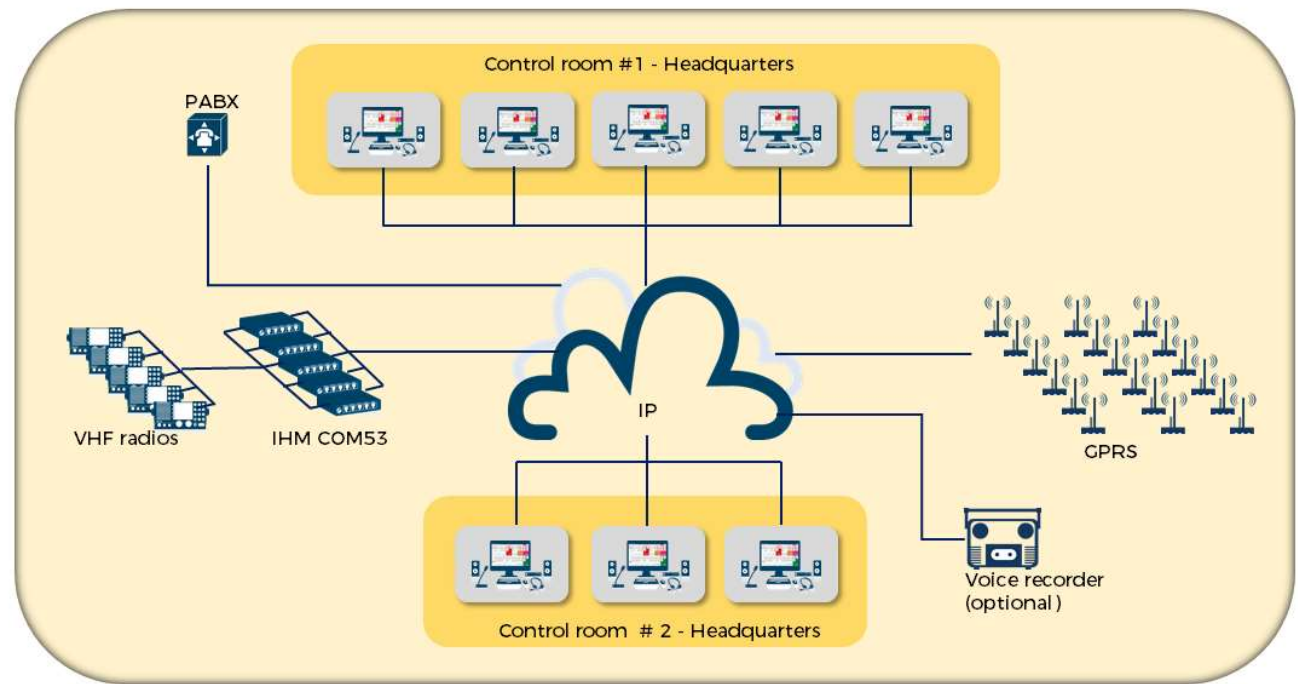


Radio Dispatching System



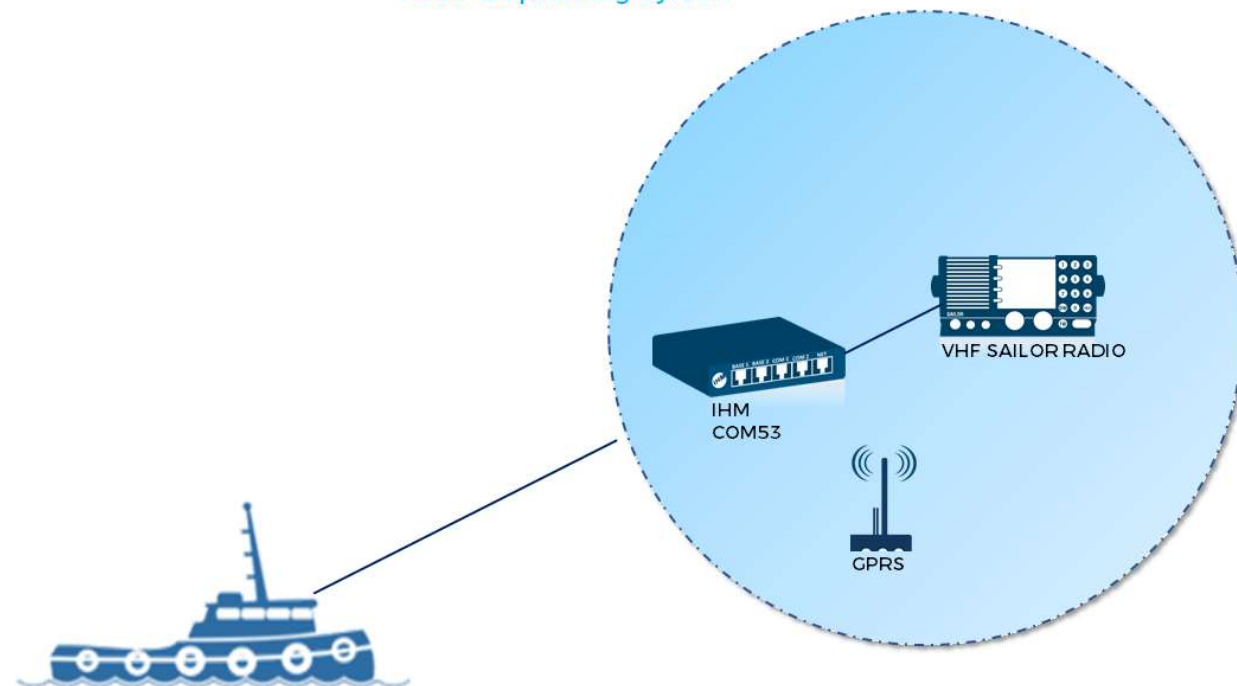
Radio Dispatching System

Salvage & Towage Radio Dispatching System



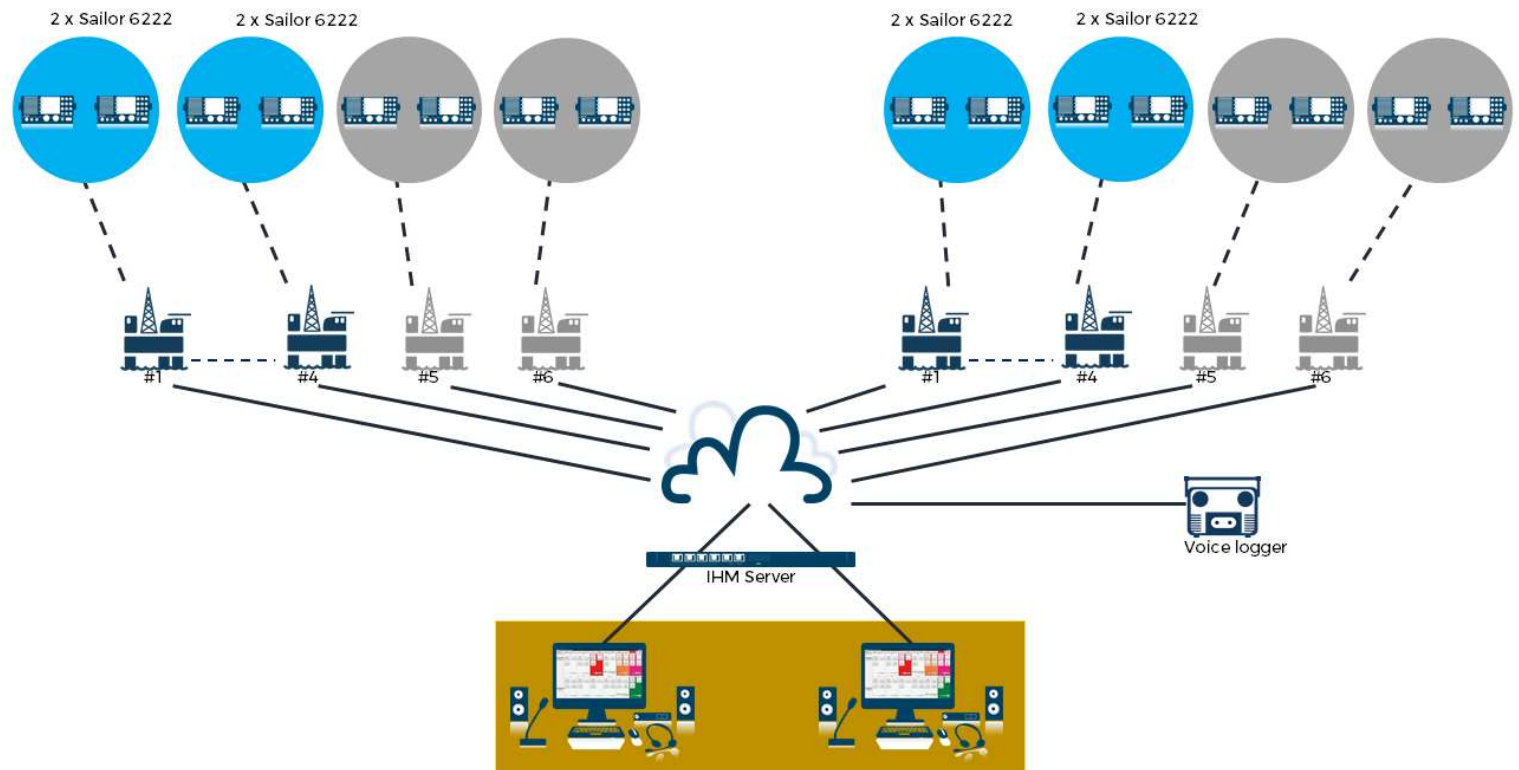
Radio Dispatching System

Salvage & Towage
Radio Dispatching System



Radio Communication System

Oil rigs – Onshore control room



Certifications - accreditations



IEC 60945:2002

