MPAS Development as of January 17, 2025

Software:

What's Changed

- **Admin Account:** Added new Field in Vessel Database Table and Vessel Layout:
  - **Transmission Rate**
  - **Lora Signal**
  - **GSM Signal**
  - **Warning**
  - **SOS Signal**
- **Admin Account:** Added New SOS Request Button in Vessel layout
- **Station Server:** Added new program for manipulating received and sent data:
  - **Received data decoder**
  - **Updating Vessel data (Coordinates, signals and etc..) based on received data**
  - **Saving Vessel coordinates for tracking purposes**
  - **Sending Data to vessel owner for SOS response.**

Changelog Images: https://drive.google.com/drive/folders/1EHVAOx3WChEpVAaxHaoMRSMHsXNOg49E?usp=drive_link

Why does this matter?

With this upgrade, Administrator may now able to see the current status of the vessel. Not just its coordinates but also the signals of the communication module use in transmitting data.

Hardware:

What's Changed

- Updated Firmware for sending data:
  - A new field (SOS Signal, Response Signal, etc..) was added to be communicated to the station
  - New transmitted data format

Contributors:
- Noel Orbong jr.
- Roniel Dela Rosa
- Reyna Jabon
- Mimae Gososo