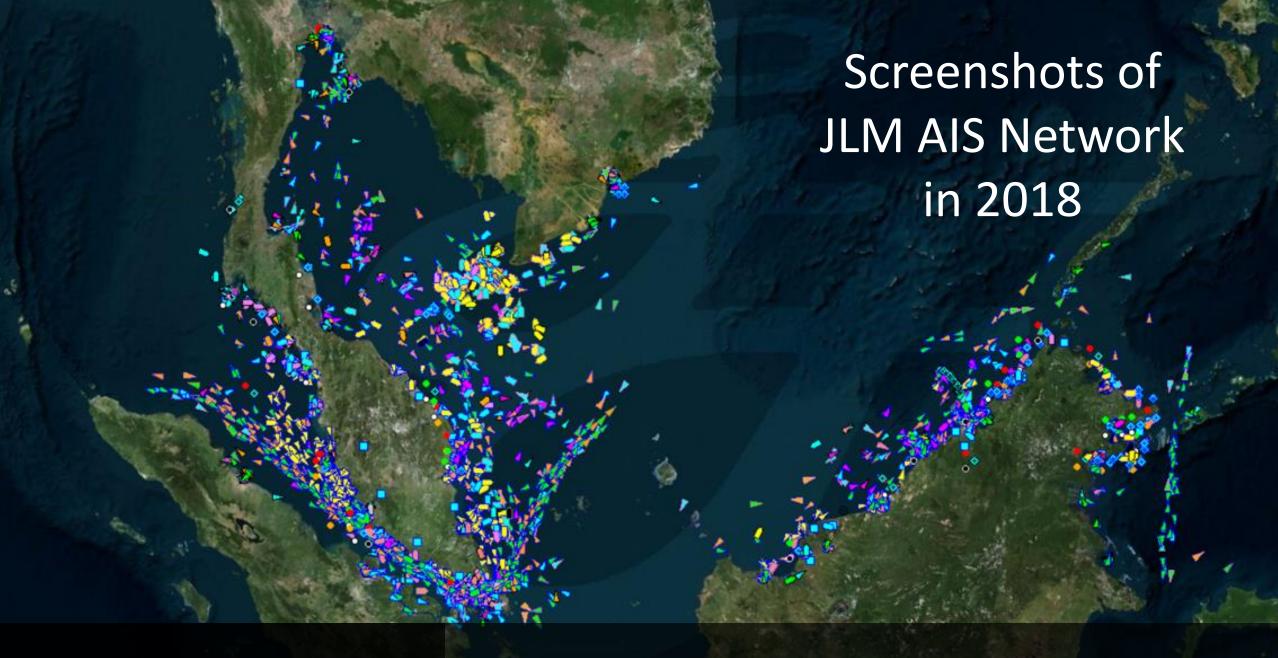
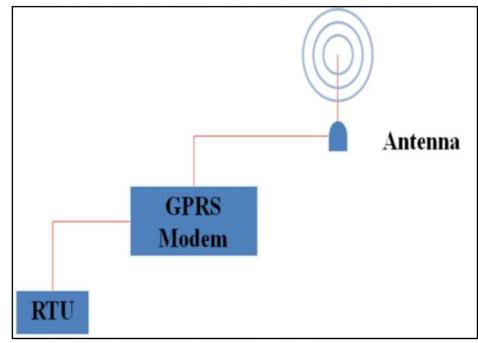


Screenshots of JLM AIS Network in 2004



Historical Overview

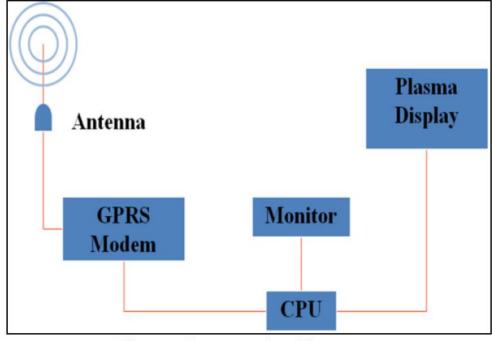
REMOTE SYSTEM ARCHITECTURE



Remote System Architecture

(sample: Bukit Jugra Lighthouse)

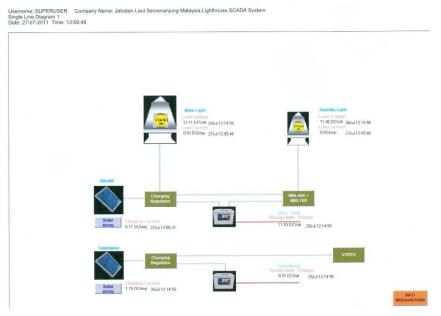
MASTER SYSTEM ARCHITECTURE



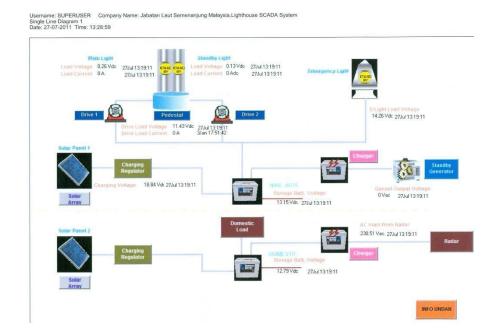
Master System Architecture

(sample: LDA Headquarters)

Historical Overview



SCADA SYSTEM COMPONENT AT MUDAH UTARA LIGHT BEACON



SCADA SYSTEM COMPONENT AT PULAU UNDAN LIGHTHOUSE

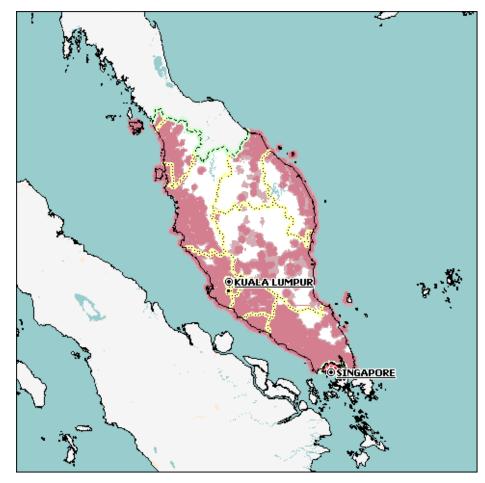
AIS

- Monitoring + Aid to Navigation (Msg 21, 6, 8,14)
- Use existing AIS network for free communication link
- Low Life-cycle costs
- Conforms to international e-Navigation initiatives

SCADA

- Monitoring only
- GSM/SAT/Radio recurring maintenance and monthly usage costs
- High life-cycle costs

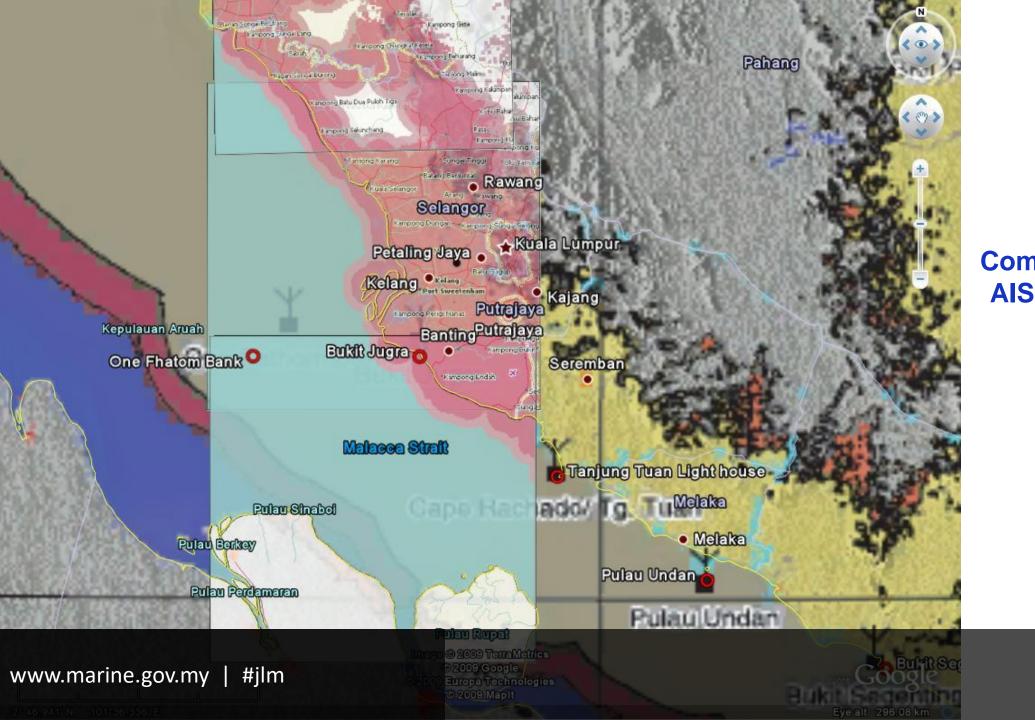
GSM/GPRS Coverage



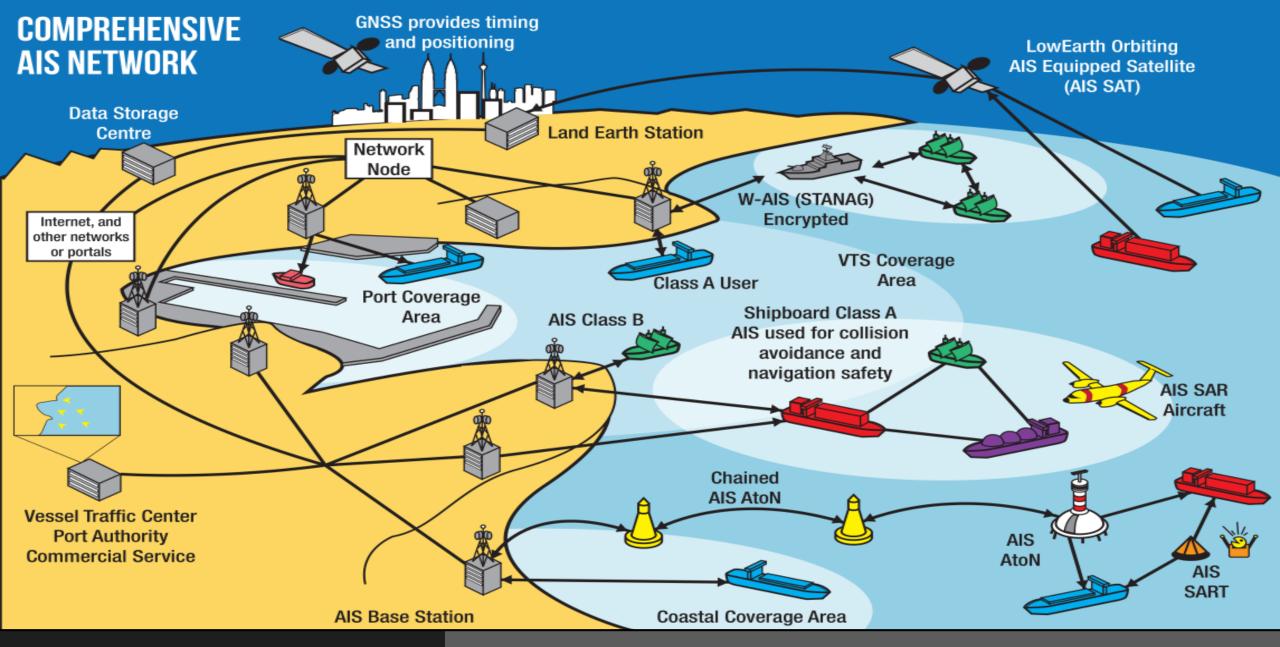
GSM/GPRS Coverage in Peninsular Malaysia



GSM/GPRS Coverage in Pintu Gedong Area



Comparison between AIS and GSM/GPRS Coverage



VDP Initiative VDP Project (2017) • 287 AIS ATON Monitoring Software (eNav.my) Image courtesy shutterstock.com www.marine.gov.my

Savings

Savings not only money but also time and hassle





Local Products



Spares Parts

- Save money.
 Doesn't need to stock up spares parts
- Save time. No need to send abroad for repair or import spare parts



Minimal Downtime

Minimal downtime since all technical support, supply hardware & software and repair are done locally.



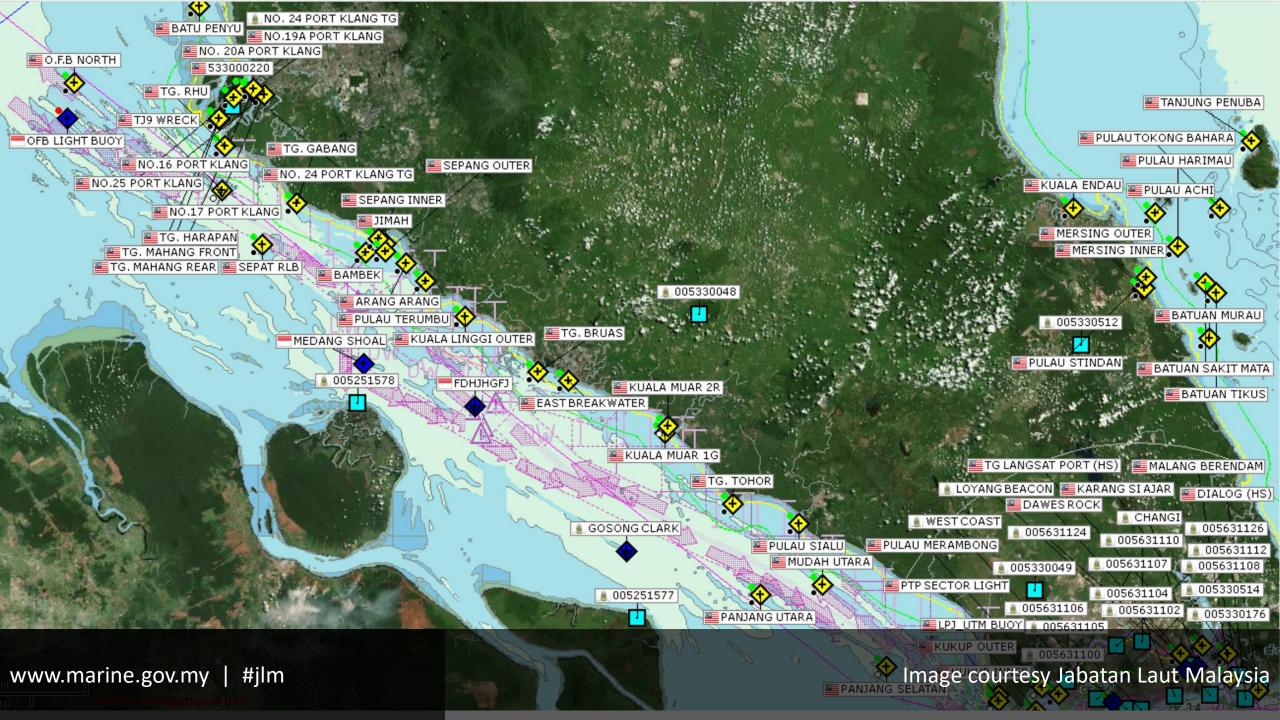
Hassle Free

There is no compatibility issue because all the hardware & software are locally develop & integrated.

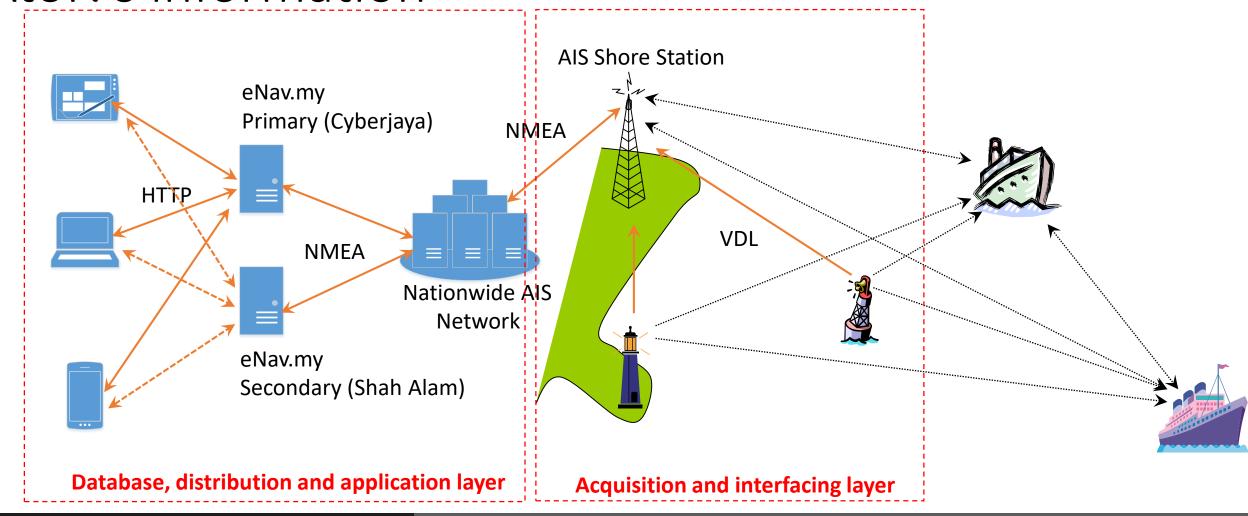


Private Initiative

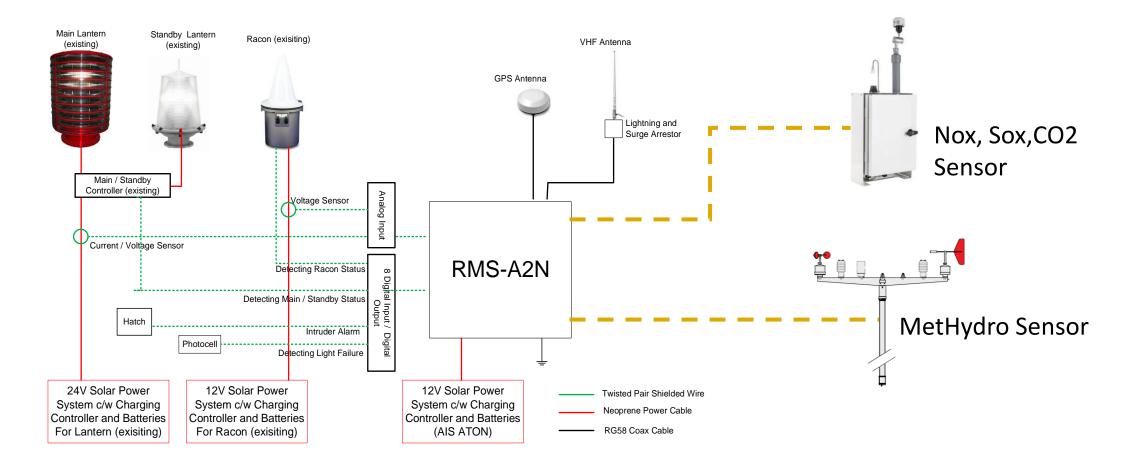
Proactively carried out developments and test beds continously



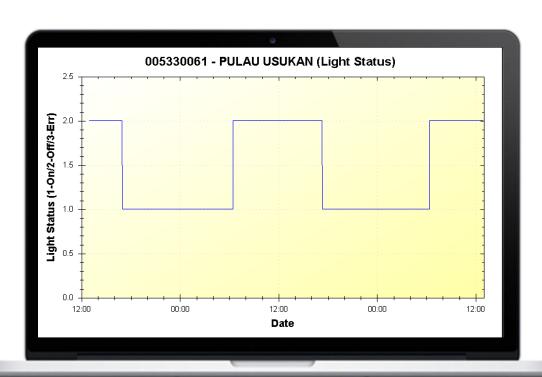
Framework for collecting, managing and distributing AtoN's information

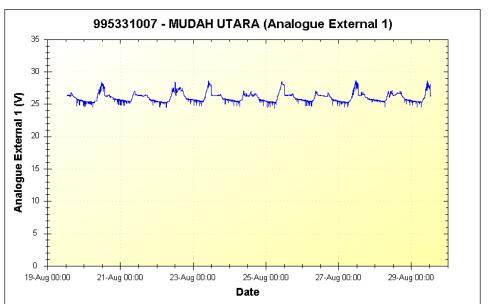


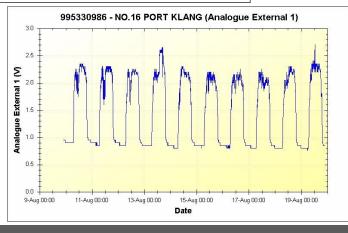
Acquisition & Interfacing layer



Database, distributing and application layer







Features

- Green dot (the left upper corner) provides info that the AtoN transmits messages 6
- Red dot (the left upper corner) provides info that something is wrong with the buoy equipment
- White dot (the left lower corner) provides info that Light is ON
- ✓ Black dot (the left lower corner) provides info that Light is OFF



Charts

Multiple chart selection, such as S57, Virtual Earth, Open Street, BSB raster, etc.



Aton Info

Display all received AtoNs' sensor data



Aton Details

Display all selected AtoNs' information



Aton List

User could see AtoN's information data of selected AtoNs, such as AtoN Type, AtoN implementation, Report Interval and others



Features

- Green dot (the left upper corner) provides info that the AtoN transmits messages 6
- (the left upper corner) provides info that something is wrong with the buoy equipmen
- White dot (the left lower corner) provides info that Light is ON
- **Black** dot (the left lower corner) provides info that Light is **OFF**



Charts

Multiple chart selection, such as S57, Virtual Earth, Open Street, BSB raster, etc.



Aton Info

Display all received AtoNs' sensor data



Aton Details

Display all selected AtoNs' information



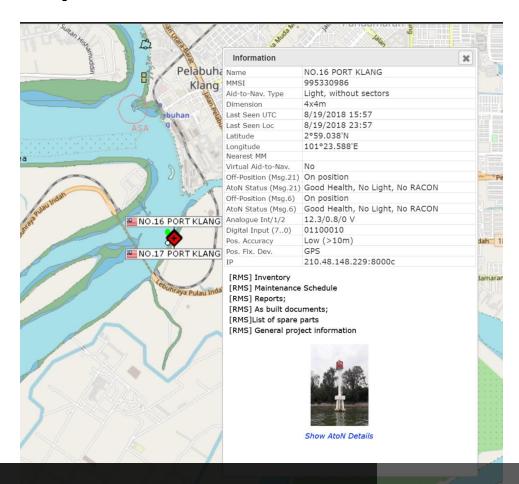
Aton Lis

User could see AtoN information data of select AtoNs, such as AtoN Tyr AtoN implementation, R Interval and others

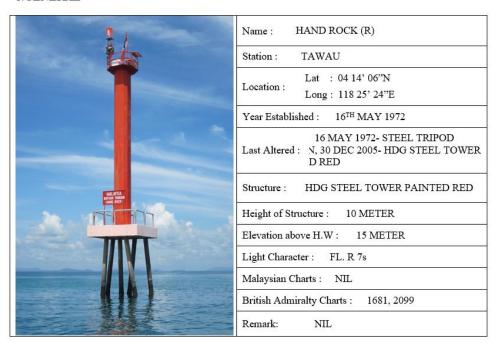


AtoN Management and Service Information

System

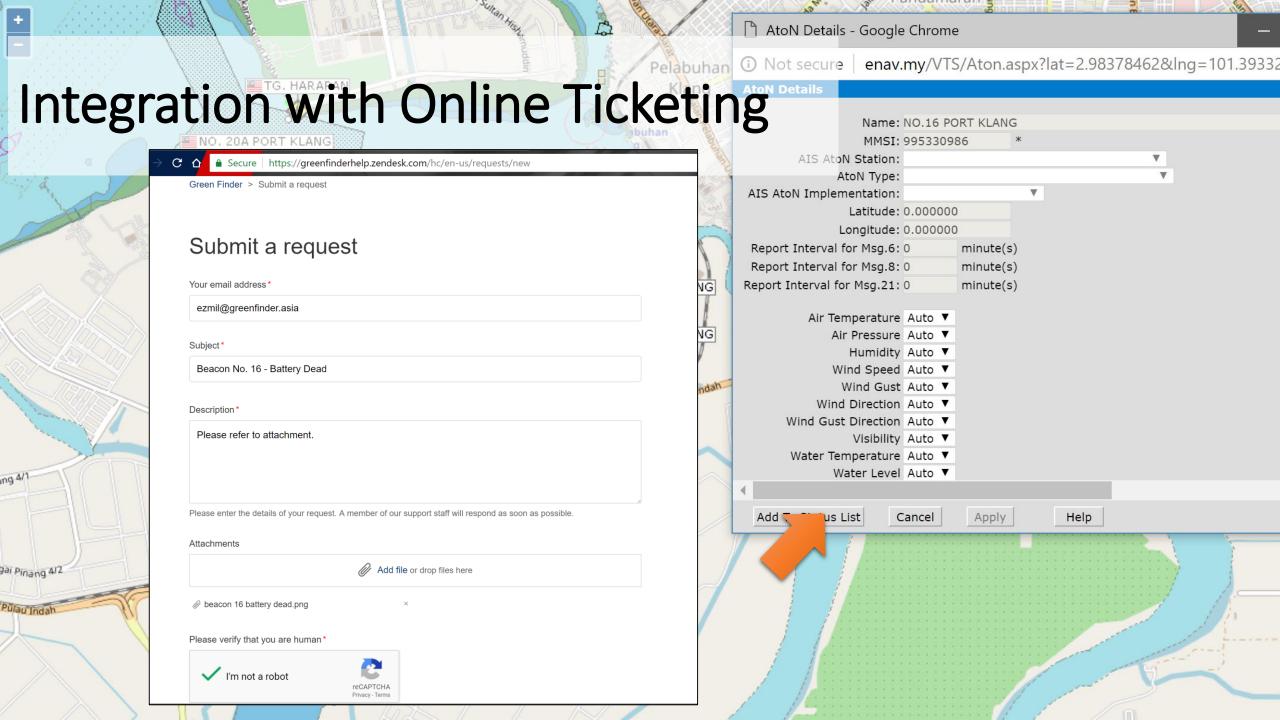


1.GENERAL



2. EQUIPMENT

Main Lantern : Serial No :		Standby : NIL Lantern : NIL
2/	BUILT-IN	ChargeController: NIL
LampChanger:	BUILT-IN	Serial No: NIL
Sunvalve :	BUILT-IN	Battery: AUTOMATIC POWER APB-1295 X 2 NOS Serial No: 1. 402989 2. 402924
Solar Panel:	TIDELAND	D 1 D G . NH
Serial No :	NIL	Radar Reflector: NIL
Lighting Arrestor: FRANKLYN SAINT FLMO-SE6		Remark: LIGHTING ARRESTER PADA BIKON
Serial No: NIL		PATAH







GUIDELINE

G1117

VHF DATA EXCHANGE SYSTEM (VDES) OVERVIEW

Edition 2.0
December 2017

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International Association of Marine Aids to Navigation and Lighthouse Authorities

Moving towards ASM channel



Moving towards ASM – increasing data bandwidth

