Introduction to Ship Ad-hoc NETwork (SANET) for Efficient Maritime Logistics

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1. What is a SANET?
2. Why SANET?
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Introduction of the project

• National Project of ROK
  ✓ Subject: Maritime Logistics
  ✓ 10 years of term project
  ✓ On 5th year of project plan

• Category
  ✓ Standardization
  ✓ Technology Developing
What is SANET?

As Is...

Satellite
What is SANET?

Disappearance of Satellite

Ad-hoc

Ship Ad-hoc Network (SANET)
What is SANET?

Applicability of SANET
Why SANET?

Efficient maritime logistics

Trade  Data  Danger

Cost  Access
SANET MODEM

SANET MODEM

Find neighbors
Make a link
Send information
Change a mode

Interfaces

Satellite

HF

MF

Change a mode
SANET MODEM

Satellite

MF/HF

Disconnected
Maritime Logistics using SANET

- Logistics location tracking using USN and RFID in Harbor
- Logistics location tracking via satellite network in the sea
- Logistics location tracking using HF band P2P network in the sea
- Logistics location tracking using VHF ad-hoc network in seashore and near sea (ship to ship or ship to land)

Multiband modes
- VHF band
- HF band
- Satellite
Other Applications

Documents

Clearance

Crew Welfare

Smart app.
Future Plan

Develop Simulation Field Test

SANET MODEM SANET Protocol Applying Cases

Continuously Sharing with UN/CEFACT Developing Result for ROK’s project – Applying Examples
Thank you!