Multinational Situational Awareness Within the Extended Maritime Environment (MISA-EM)

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Spanish Navy

Joint Concept Development & Experimentation
USJFCOM, J9
SUMMARY

• Introduction
• MISA-EM problem
• Ideas for achieving MISA-EM.
• Take aways
Multinational Experiment 6

**Campaign Integrator (USJFCOM-J9)**

**Outcome 1**
Implementation & Transitions
- Objective 1.1: Non-Compliant Actors
  - Austria
  - Germany
- Objective 1.2: Enabling Transitions
  - United Kingdom
- Objective 1.3: Harmonizing Implementation
  - Sweden

**Outcome 2**
Strategic Communication
- Objective 2.1: Multinational Communication Framework
  - Germany
- Objective 2.2: Understanding the Information Environment
  - Germany

**Outcome 3**
Assessment of Progress
- Objective 3.1: Assessment of Progress
  - United States
  - France
- Objective 3.2: MultiNational InterAgency Situational Awareness of the Extended maritime Environment (MISA-EM)
  - France

**Outcome 4**
Situational Understanding
- Objective 4.1: Knowledge Development
- Objective 4.2: MultiNational InterAgency Situational Awareness of the Extended maritime Environment (MISA-EM)
  - Spain
  - Sweden

**Outcome Integrators**
- United Kingdom
- Germany
- France
- United States
Extended Maritime Environment or Unprepared Waters
MISA-EM: Contributors and Participants

• CONTRIBUTING PARTNERS:
  • Countries (9):
    • Germany
    • Greece
    • France
    • Finland
    • Poland
    • Spain
    • Sweden
    • Singapore
    • United States
  • Organizations (2):
    • NATO Allied Command of Transformation
    • NATO CJOS COE.

• EXPERTS FROM:
  • EU Joint Research Centre
  • European Union Military Staff
  • EU Fisheries Control Agency,
  • European Maritime Safety Agency
  • European Defence Agency
  • EU Satellite Centre
  • NATO International Staff
  • IALA
  • University of Aalto
  • University of Kymenlaakso
  • University of Tampere
  • Northern Marine Management Limited
  • FIN National Defence University
  • SWE Coast Guard
  • FIN Maritime Cluster
  • ESP Maritime Cluster
Solution Development & Assessment

IAKO & LOE1: Inter-agency Perspective

SOLUTION

LOE2: Operational Perspective

CAPDEMO: Technological Perspective
Basic Idea

Rear assets
- Surveillance centres
- International stakeholders

Forward assets
- Local assets
- Opportunity assets
- Deployed assets
- Regional stakeholders
MISA-EM Processes

Pre-Crisis
- Planning
  - Execution
    - Post-Crisis

Networking
- Stakeholder Analysis
  - Community Set-Up
    - Track Acquisition
      - Info-Sharing
        - Info. Analysis
          - SA Dissemination

Transition
Networking…

PRE-CRISIS

INTERNATIONAL ORGANIZATIONS

GLOBAL MARITIME COMMUNITY OF INTEREST

PRIVATE SECTOR

NATIONAL AGENCIES

MILITARY ORG

NGOs

CRISIS

STAKEHOLDER 1

FOCUSED MARITIME COMMUNITY OF INTEREST

STAKEHOLDER 2

STAKEHOLDER 3

DESIGNATED MOC

STAKEHOLDER ANALYSIS
MISA-EM Structure

DESIGNATED MOC

MILITARY MOC FEDERATION

MOC

S/H

S/H

S/H

S/H

REGIONAL CENTER

TRUSTED PARTNERS

OTHER LOCAL PARTNERS

LOCAL S/H

LOCAL S/H
What Was Tested?

MODEL OF COMMUNICATION

VIRTUAL COLLABORATIVE ENVIRONMENT

SOP FOR INFO SHARING IN INTERAGENCY ENVIRONMENT

TOOL FOR CONTACT CLASSIFICATION

STAKEHOLDER ANALYSIS

MISA-EM MOC
Technological Aspects

- CAP Cloud (Internet)
- System Management Service
- Real Time Service
- Collaborative Service
- MARSUR
- UN
- EU
- Law Enforcement
- International Organizations
- NGO
- SDL
- Insurance Companies
- JFC/HHQ
- J2/J9 CIMIC
- Shipping Companies
- DB
- Maritime Industries
- Regional Organizations
- Fishing Companies
- VRMTC
- SUCBAS
- SDL
- MISA-EM MOC

SDL - Service Discovery Layer (Portal)
Take Aways

- INFORMATION SHARING BASED ON CONFIDENCE AND MUTUAL INTEREST.
- PREVIOUS NETWORKING FOR PROMOTING CONFIDENCE.
- STAKEHOLDER ANALYSIS AND COMMUNITY SET-UP WHEN A CRISIS ARISES.
- INFORMATION SHARING FOLLOWING SOCIAL NETWORKING FASHION (FACEBOOK - TWITTER) SUPPORTED BY COLLABORATIVE TOOLS.
- DISTRIBUTED AND FEDERATED SYSTEMS AND SERVICE DISCOVERY TO PLUG NEW ACTORS INTO THE NETWORK.