UN/LOCODE AND IMO

2019

Xiamen, China
• Established as a specialized UN Agency in 1948

• Headquarters in London, 174 member states and 3 associate members

• IMO regulations with reporting requirements
Member States and intergovernmental organizations use GISIS for the reporting and transfer of data into and out of the system, as consistent with requirements in international instruments.

It contains Public, Members, and Secretariat areas, and uses role-based authentication.

Data exchange partners use service accounts and PKI certificates to ensure secure data transfer.

Almost 40 modules.

Modules are highly connected with structured data.
Maritime Security
Port Reception Facilities
MARPOL Annex VI
Ballast Water Management
LRIT Data Distribution Plan
Facilitation of International Maritime Traffic
Migrant Smuggling by Sea
Port State Control
Port UN/LOCODE

Maritime Security

gisis.imo.org – child coding system
• Child coding for port facility has been used by Member States and the industry to identify port facility

• Number is assigned by the system and cannot be changed afterwards
gisim.imo.org – data exchange – maritime security

Maritime Security

Port UN/LOCODE
• Submit facility data
• Export facility data
• Use SOAP web service

**Problem**
• What if LOCODE doesn’t exist in GISIS?
Port State Control data exchange

- Try to submit inspection report
- GISIS cannot add report because port does not exist
- Web service returns error
• Member State
  • Try to submit e.g. new port facility through web form or web service
  • Receives error during submission
  • Sends email to technical officer/GISIS administrator

• GISIS administrator
  • Check port LOCODE and name in GISIS
  • Validates LOCODE from UNECE web site
  • Adds port details to GISIS
  • Notify technical officer/Member State

• Member State re-submit
HOW TO IMPROVE
Proposal for data exchange

User

Data Centre

GISIS

Web Services

UNECE
Proposal for data exchange

Web services suggested for UNECE

1. Get latest approved port details
   • Get single port by UNLOCODE
   • Get multiple ports by ISO 3166-3 country code

2. Get port update history
   • Current approved status and previous status
   • Time stamps and remarks for each change

3. DMR submission
   • Submit DMR to add, amend, or remove entries through secure web service
   • Get progress of the submission
Proposed GISIS Ports Module for Member States

1. Show all ports, including usage
   • Compare GISIS and UNECE data
   • Port change history
   • Usage by other modules

2. Show basic port information of other Member States

3. Ports data administrator to be able to
   • Add a new port if LOCODE does not exist in GISIS but in UN/LOCODE list
     • Verify and ensure there’s no duplication
   • Delete or update a port if it’s not been used by other modules
   • Submit a DMR if port does not exist in UN/LOCODE list or the information in UN/LOCODE needs update
   • Get updated status of DMR requests
   • Receive alerts of DMR requests
Proposed GISIS Ports Module for Member States

4. Request update of GISIS port information by Ports data administrator
   • Ports data administrator will unable to update information directly if port information
     is used by other modules
   • Request Secretariat to update GISIS port information
     • Name, coordinates etc.
     • Merge, split of ports
     • Secretariat will assess and make necessary changes
THANK YOU