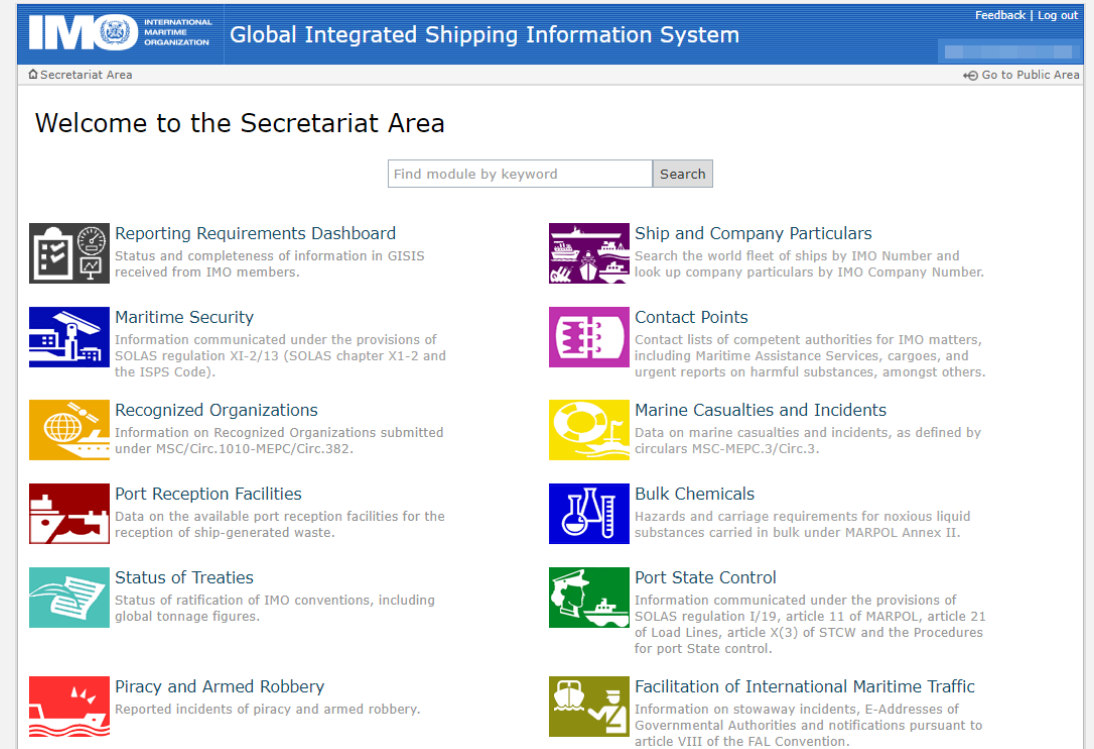


PORT MANAGEMENT WITH UN/LOCODE API

Nov 2020

Global Integrated Shipping Information System (GISIS)

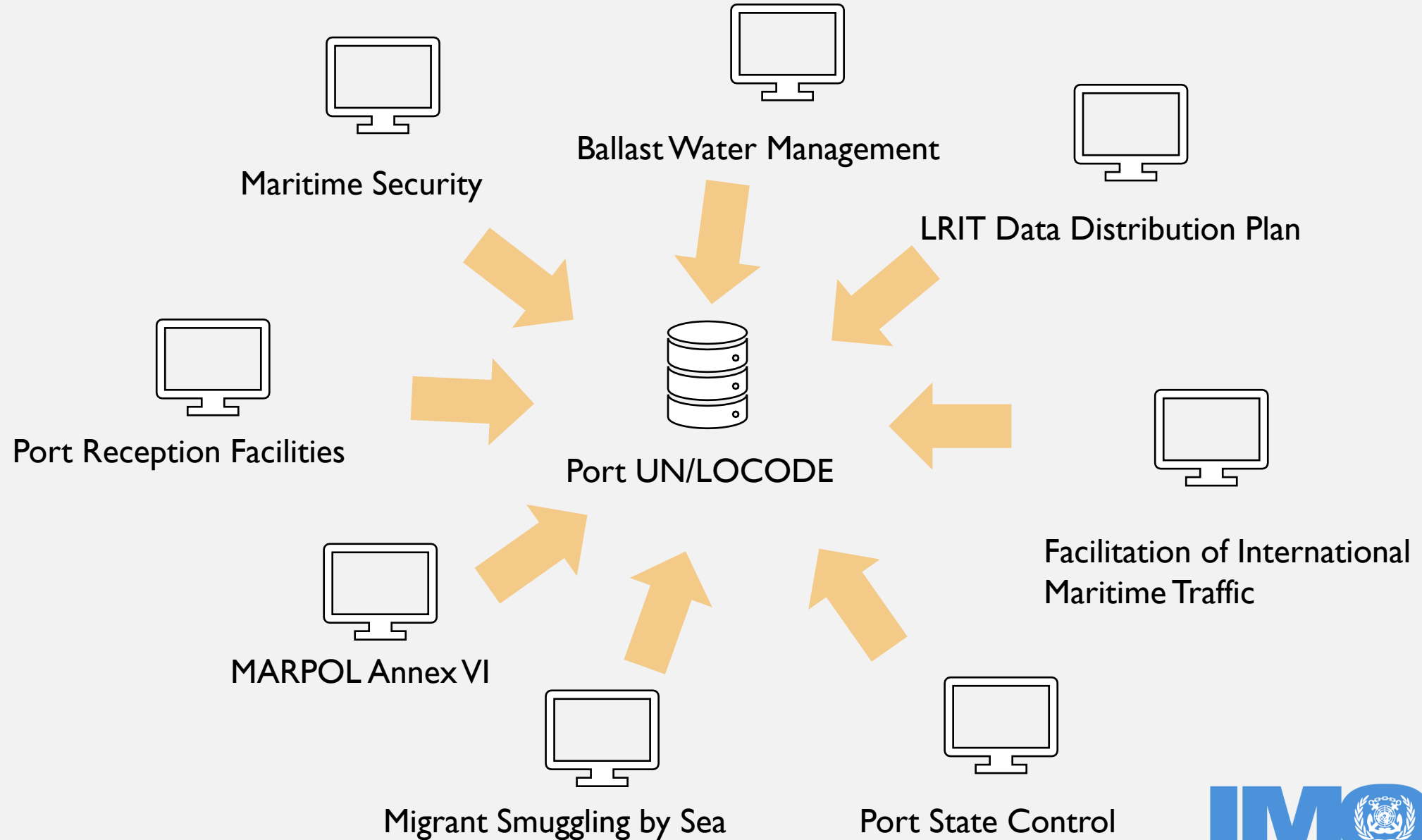
- Member States, intergovernmental organizations and the Secretariat use GISIS for reporting and transfer of data into and out of the system, required by international instruments
- 8 of 40+ modules link to ports



The screenshot displays the 'Secretariat Area' of the IMO's Global Integrated Shipping Information System (GISIS). The page features a blue header with the IMO logo and the text 'Global Integrated Shipping Information System'. Below the header, a search bar is present with the placeholder text 'Find module by keyword' and a 'Search' button. The main content area is titled 'Welcome to the Secretariat Area' and contains a grid of 16 modules, each with an icon and a brief description:

- Reporting Requirements Dashboard**: Status and completeness of information in GISIS received from IMO members.
- Maritime Security**: Information communicated under the provisions of SOLAS regulation XI-2/13 (SOLAS chapter XI-2 and the ISPS Code).
- Recognized Organizations**: Information on Recognized Organizations submitted under MSC/Circ.1010-MEPC/Circ.382.
- Port Reception Facilities**: Data on the available port reception facilities for the reception of ship-generated waste.
- Status of Treaties**: Status of ratification of IMO conventions, including global tonnage figures.
- Piracy and Armed Robbery**: Reported incidents of piracy and armed robbery.
- Ship and Company Particulars**: Search the world fleet of ships by IMO Number and look up company particulars by IMO Company Number.
- Contact Points**: Contact lists of competent authorities for IMO matters, including Maritime Assistance Services, cargoes, and urgent reports on harmful substances, amongst others.
- Marine Casualties and Incidents**: Data on marine casualties and incidents, as defined by circulars MSC-MEPC.3/Circ.3.
- Bulk Chemicals**: Hazards and carriage requirements for noxious liquid substances carried in bulk under MARPOL Annex II.
- Port State Control**: Information communicated under the provisions of SOLAS regulation I/19, article 11 of MARPOL, article 21 of Load Lines, article X(3) of STCW and the Procedures for port State control.
- Facilitation of International Maritime Traffic**: Information on stowaway incidents, E-Addresses of Governmental Authorities and notifications pursuant to article VIII of the FAL Convention.

Global Integrated Shipping Information System (GISIS)



GISIS MODULES AND PORTS

		Port Facilities	Reception Facilities	PSC Reports
Wenzhou	CNWZO	9	3	20
Wuhan	CNWUH	0	0	0
Wuhu	CNWHI	3	0	4
Wusong	CNWUS	0	0	0
Wuzhou	CNWUZ	0	0	0
Xia Hua	CNXUA	0	0	0
Xiamen	CNXMG	29	66	573
Xiangtan	CNXTA	0	0	0
Xiaohudao	CNXHO	0	0	0
Xiaoshan	CNXIS	0	0	0
Xingang	CNXGG	0	0	0

PROBLEMS

- User cannot submit report from web interface if port UN/LOCODE cannot be found in GISIS
- Data exchange logs error if UN/LOCODE cannot be found in database

Procedures for adding a port

- Member State
 - Try to submit e.g. new port facility through web form or web service
 - Receives error during submission from EDI system
 - Sends email to technical officer/GISIS administrator
 - Initiates DMR
- GISIS administrator
 - Checks port LOCODE and details in GISIS
 - Validates LOCODE from UNECE web site, if it exists already
 - Adds port details to GISIS
 - Notifies technical officer/Member State
- Member State re-submits

UN/LOCODE APPLICATION PROGRAMMING INTERFACE (API)

- API to connect GISIS and UN/LOCODE system to streamline management of port information
- Accurate and fast, compared to manual process
- More control for Member States
- Part of UN/LOCODE re-engineering project

GISIS PORTS MODULE DESIGN

- Shows all ports, including usage, for the Member State
- Shows basic ports information of other Member States
- Adds a new port for approved UN/LOCODE
- Deletes a port if the port is not referenced by other modules and any detail is incorrect
- Updates limited information (e.g. coordinates) of a port, based on approved UN/LOCODE
- Queries DMR submission status

GISIS PORTS MODULE DESIGN

- In line with API version 1.0 specifications (UNLOCODE-AG/2020/INF.5)
- Submission of DMR will not be provided to Member States in the first version

NEXT STEPS

- Trial API in a test environment
- Develop new module with API v1.0
- Review API with UNECE
- Work with UNECE on version 2.0 specifications

THANK YOU



<https://www.imo.org>

<https://gisis.imo.org>

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