

Hydrographic Services and Standards Committee

Report of the S-121PT



Items been done

S-121 MLBs Project team was tasked to:

- Define a **data model**
- Create a specification for MLBs supporting States' **depository obligations** in accordance with UNCLOS
- Determine if IHO S-100 **needs to be extended**

The Real Challenge is to provide a solution that is:

- Inclusive of State's needs
- Sympathetic to each State's domestic deposit/legal requirements
- Satisfy the broad range of end points in with such information must be consumed in
- Interoperable and is expressed through a single GIS framework



A/RES/49/28 (1994)

Requests the Secretary-General to continue to carry out the responsibilities entrusted to him upon the adoption of the Convention and to fulfil the functions consequent upon the entry into force of the Convention,

in particular by:

.....

(f) Establishing appropriate facilities, as required by the Convention, for the deposit by States of maps, charts and geographic coordinates concerning national maritime zones and establishing a system for their recording and publicity as part of an integrated programme on the law of the sea and ocean affairs, distinct from the usual depositary functions of the Secretary-General



A/RES/59/24 (2004)

5. Calls upon States parties to the Convention to deposit with the Secretary-General charts or lists of geographical coordinates, as provided for in the Convention;

6. Requests the Secretary-General to improve the existing Geographic Information System for the deposit by States of charts and geographical coordinates concerning maritime zones, including lines of delimitation, submitted in compliance with the Convention, and to give due publicity thereto, in particular by implementing, in cooperation with **relevant international organizations, such as the International Hydrographic Organization**, the technical standards for the collection, storage and dissemination of the information deposited, in order to ensure compatibility among the **Geographic Information System, electronic nautical charts and other systems developed by these organizations**;



A/RES/73/124 (11 December 2018)

5. Calls upon States Parties to the Convention that have not yet done so to deposit with the Secretary-General charts or lists of geographical coordinates, as provided for in the Convention, preferably using the generally accepted and most recent geodetic datums;
6. Notes, in this regard, the ongoing efforts of the Secretary-General to improve the existing geographic information system for the deposit by States of charts and geographical coordinates concerning maritime zones, including lines of delimitation, submitted pursuant to the Convention, and to give due publicity thereto, also **notes the ongoing cooperation and progress achieved in the development by the International Hydrographic Organization**, in cooperation with the Division, of the technical standards for the collection, storage and dissemination of the information deposited, in order to ensure compatibility among geographic information systems, electronic nautical charts and other systems, and **re-emphasizes the importance of the prompt completion of these efforts**;



History

- 2007 UN DOALOS approaches IHO as a competent body recognized by the Convention to assist in fulfilling UNGA resolution **A/RES/59/24**
- 2009 1st Draft of S-1XX presented in Sydney (DOALOS UKHO)
- 2014 2nd S-1xx Draft submitted by Australia - Australia publishes national boundaries in draft format
- 2016 Alignment with ISO19152 LADM



HSSC10 Decision

- Dec 2017 data model approved by PT for submission to S100WG
- HSSC10 endorsed the publication of S-121 Edition 1.0.0 once the following conditions were met
 - Wider Stakeholder Review
 - Adjudication of Comments
- The S100 Working Group also asked the Project Team for the following:
 - Alignment of documentation to S-100 Templates
 - Registration of Features
 - Feature Catalogue



Current Status

- Dec 2018 Face to face meeting UN DOALOS NY (PT7)
- March 2019 Intended publication date – deferred to allow consultation process
- May 2019 Aligned to S-100 Templates
Registration of new features
Encoding Guidance
Feature Catalogue Developed
- June 20, 2019 Close of revised comment period



Future

- July 2019, time TBA Teleconference to adjudicate comments
- August 19-23 Monaco – Face to Face meeting to resolve comments and finalise documentation for version 1.0.0
- October 2019 Notify UN completion of version 1.0.0 for reflection in annual UNGA Oceans resolution in December
- ? Later versions resolving OGC testing and MRN
UN consultation on legal and diplomatic implementation



Other Activities - OGC Innovation Program



- * Kick-off, Ottawa, Canada, May 14-15
- * **The OGC S-121 Pilot Project** aims to extend and develop the tools to address the use cases with real world applications using Commercial Off-The-Shelf software to **implement OGC standards making use of S-121 framework and datasets.**
- * <https://www.opengeospatial.org/projects/initiatives/mlbp>



Other Activities - OGC S-121 Pilot Project

OGC Pilot Projects will look into the development of



D1: Client SDI

D2: GIS Application

D3: S-121 GML Application Schema

D4: WMS/WFS MLB

D5: Validator Script

D8: Metadata

D9: Catalog SDI

D11: Script and XSLT GML to Human Readable

D12: S-121 GML Application Schema Extension

D15: Engineering Report



Other Activities

- ISO 19152 Stage 0 review Canada and Australia will both submit papers on structure of LADM to reference S-121 and preserve generic elements and facilitate operation of the standard to describe all regulated spaces



HSSC is requested

- Note the Stakeholder Review that is in progress
- Post successful adjudication of comments received from the stakeholder review to publish Edition 1.0.0 of S-121



More Information

S-121.com

