Paper for Consideration by HSSC6

Proposed registry based procedure for the allocation of S-100 product specification identifiers

Submitted by:	TSMAD
Executive Summary:	This paper outlines the proposal for action HSSC5/28: "TSMAD to prepare a detailed registry based procedure for the allocation of product specification identifiers." Implementation of this proposal will require changes to the GI Registry and S-99 which are to be considered.
Related Documents:	HSSC5 - Final minutes (section 5.1E and Annex G), HSSC5-05.1E - Proposal to formalize the identifiers for S-100 based product specifications.
Related Projects:	Development of S-100 and related product specifications.

Introduction / Background

Currently the S-XXX identifier has been used for IHO product specifications however there is a requirement to formalise product specification identifiers as the wider community uses S-100. Two papers, HSSC4-05.1D and HSSC5-05.1E, have been submitted to HSSC4 and HSSC5, addressing the requirement to formalise product specification identifiers.

At HSSC5, the Committee approved the revised identifier proposal presented by the chair group. By adopting the formal nomenclature with the "producer organization" identifier and the "S-XXX" identifier, the producer organization of the product specification is clearly defined, e.g. IHO S-101, IALA S-201, IEHG S-401. The minutes for HSSC5 state: Blocks of numbers up to S-399 would be assigned to the main partner organizations and then all other numbers beyond 400 would be assigned on a first-come first-served basis.

At HSSC5, the following action HSSC5/28 was assigned to TSMAD with a target date/event of TSMAD28:

   TSMAD to prepare a detailed registry based procedure for the allocation of product specification identifiers.

The proposal outlined below has been jointly developed by the Chair of TSMAD and UKHO.

Analysis/Discussion

Any identifier must be unique (as stated in S-100 Part 11), the nomenclature comprises the producer organization of the product specification, followed by the numerical element (prefixed with S-), e.g. IHO S-101, IALA S-201, IEHG S-401. In order to ensure a consistent approach to the numbering element of the nomenclature, numbers will be assigned by the Register Manager, under approval of HSSC, on submission of a REQUEST FOR NEW PRODUCT SPECIFICATION IDENTIFIERS form shown in Annex A.

Proposal for the allocation of product specification identifiers:

Currently a producing organization submits a PROPOSAL TO REGISTER A PRODUCT SPECIFICATION form; however there is no standard process for assigning and managing formal identifiers. Hence, the proposal to use a REQUEST FOR NEW PRODUCT SPECIFICATION IDENTIFIERS form for the product specification identifier(s) to be allocated by the Register Manager before the product specification form(s) can be completed.

From the main home page of the IHO Geospatial Information (GI) Registry, the proposer selects the S-100 GI Registers link from the main menu, and then selects the link to Product Specifications. Once on the Product Specifications page the Proposal tab is selected to show an html page displaying the following question:

   Do you have a Product Specification identifier allocated?   Yes/No

If Yes is selected, the proposer is provided with a list of allocated product specification identifiers and is able to select from this list to access the relevant PROPOSAL TO REGISTER A PRODUCT SPECIFICATION form.

If No is selected, a REQUEST FOR NEW PRODUCT SPECIFICATION IDENTIFIERS form in the Sub-Register **Identifiers** is opened. The proposer simply completes this form, which is then submitted to the Register Manager for allocation of identifier(s). Once the Register Manager has allocated the unique product specification identifier(s) and entered the details into the Registry database, the proposer is notified by email. The proposer can then proceed with completing the PROPOSAL TO REGISTER A PRODUCT SPECIFICATION form(s). The proposer selects the Proposal tab on the Product Specifications page and this time selects Yes on the html page and then selects the appropriate allocated identifier from the list. This takes the proposer to the relevant PROPOSAL TO REGISTER A PRODUCT SPECIFICATION form which has already been created by the Register Manager and populated with the details from the REQUEST FOR NEW PRODUCT SPECIFICATION IDENTIFIERS form.

An Administration tab will need to be added to the top menu on the Product Specifications page for the Register Manager to perform the required tasks.

S-99 will need to be amended to include a new section on the Administration of the Product Specification Identifier Code Register; a draft has been included in Annex B.

Conclusions

The following amendments to the GI Registry and S-99 will be required:
- Insert Administration tab in the top menu on the Product Specifications page.
- Amend the text on the Product Specifications page.
- Create Sub register **Identifiers**, to contain an index of product specification identifiers (Annex C)
- For registry purposes the Alpha numeric field will need to be configured for both "producer organization" and "S-XXX" identifiers.
- When more than one product specification identifier is requested, the range of "S-XXX" also needs to be configured to minimum and maximum values with potential for expansion as required.
- Insert additional information in Sections 7 and 10 of the IHO GI Registry Help on the implementation of this proposal.
- Renumber S-99 existing section 6 Administration of the Producer Code Register to 7 Administration of the Producer Code Register and insert new section 6 Administration of the Producer Specification Identifier Code Register (Annex B).

Recommendations

HSSC is invited to endorse the proposal as agreed by TSMAD28.

Action Required of TSMAD and DIPWG

HSSC is invited to endorse the proposal and task TSMAD to implement the changes to the S100 GI Registry and S-99.

REQUEST FOR NEW PRODUCT SPECIFICATION IDENTIFIERS form

REQUEST FOR NEW PRODUCT SPECIFICATION IDENTIFIERS		
PROPOSER INFORMATION		
Name of Proposer:		Mandatory
ORGANIZATION INFORMATION		
Name of Organization:		Mandatory
Abbreviated Organization:		To be used as identifier, e.g. IHO
Email Address:		Mandatory
PRODUCT SPECIFICATION IDENTIFIERS (e.g. IHO S-124 or IALA S-201)		
Number of Product Specification Identifiers required:	10 ⌄	Select the required number of Product specification Identifiers from the drop down menu.
PRODUCT SPECIFICATION INFORMATION		
Title:		Mandatory
Title:		Mandatory
Title:		Mandatory
Title:		Mandatory
Title:		Mandatory
Title:		Mandatory
Title:		Mandatory
Title:		Mandatory
Title:		Mandatory
Remarks:		Remarks, if required
Date requested:		Assigned automatically
Submit Close		

Once the number of product specification identifiers is selected from the drop down menu the corresponding number of Title fields will become available in the form.

DRAFT FOR S-99

6 Administration of the Product Specification Identifier Code Register

Introduction

Representatives of organizations that require a Product Specification Identifier or a range of Product Specification Identifiers shall submit applications using the mechanisms provided in the Registry web interface.

Acceptance Criteria

IHO Product Specifications.
Product Specifications that have been adopted by the IHO will be recorded or referenced in the Register. These Product Specifications will carry the identifying code IHO S-1*nn* and will also have a plain language title.

Other Product Specifications.
Product Specifications that have been developed by other competent organizations can be recorded or referenced in the Register provided that they use S-100 as the underlying standard (organizations are encouraged to populate Feature Catalogues, either using existing entities registered in the GI Registry or proposing new ones where appropriate). These Product Specifications will carry the identifying code of the organization, i.e. IALA S-2*nn* and will also have a plain language title.

Submission of Applications

The organization making a submission shall ensure that all applications are complete.

The Register Manager shall:

      a) receive applications from Submitting Organizations;

      b) review applications for completeness;

      c) return applications to the Submitting Organization if incomplete.

Approval Process

The Register Manager shall use the following criteria to determine if an application is complete:

      a) the proposed item does not fall within the scope of the Register; or

      b) a registered item (or similar) to the proposed item already exists.

Once the application is accepted, the Register Manager shall in accordance with policies for the Register:

      a) allocate a Product Specification Identifier or range of Product Specification Identifiers as required, and

      b) include the relevant details in the contents of the Register, and

      c) inform the Submitting Organization of the results of each application within 10 working days.

The Register Manager shall:

      a) serve as the point of contact if there is a need for negotiations with a Submitting Organization regarding any changes required to a proposal;

Appeals

An applicant may appeal to the Executive Control Body (and ultimately the HSSC) if it disagrees with the decision of the Register Manager to reject an application.

The Submitting Organization shall submit its appeal to the Register Manager.

The Register Manager shall:

    a) forward the appeal to the Executive Control Body or HSSC as appropriate, and

    b) inform the appellant of the decision.

Product Specification Identifier Index

Order By	Organization	▾	Go

Product Specification Identifier		Title
Organization	**Alpha Numeric**	
IHO	**S-101 to S-199**	
IHO	S-101	ENC
IHO	S-102	Bathymetric Surface
IHO	S-103	Sub-surface Navigation
IHO	S-111	Surface currents
IHO	S-121	Maritime limits and boundaries
IHO	S-122	Marine Protected Areas
IHO	S-123	Radio Services
IHO	S-124	Navigational warnings
IHO	S-125	Navigational services
IHO	S-126	Physical Environment
IHO	S-127	Traffic Management
IHO	S-1xx	Marine Services
IHO	S-1xx	Digital Mariner Routeing Guide
IHO	S-1xx	Harbour Infrastructure
IHO	S-1xx	(Social/Political)
IALA	**S-201 to S-299**	
IALA	S-201	Aid to Navigation Information
IALA	S-20x	Inter-VTS Exchange Format
IALA	S-20x	Application Specific Messages
IALA	S-20x	(Maritime Safety Information)
IOC	**S-301 to S-399**	
IOC		
Various		
IEHG	S-401	Inland ENC
JCOMM	S-411	Sea ice
JCOMM	S-412	Met-ocean forecasts