

Paper for Consideration by TSMAD and DIPWG

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

Submitted by:	UKHO
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 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.

Recommendations

It is recommended that TSMAD and DIPWG consider and discuss the proposal above to ensure agreement before submission to HSSC6.

TSMAD should develop the GI Registry and revise S-99 based on the proposal outlined in this document.

The GI Registry needs to be amended to include Proposal types for Product Specifications: Addition, Clarification, Supersession, Retirement, as the current form is only designed for Additions.

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).

Recommend inserting additional information in Sections 7 and 10 of the IHO GI Registry Help on the implementation of this proposal.

It is recommended that the list of product specification identifiers (Annex C) should be used as a means for other organizations to participate where necessary with the development of product specifications at pre-draft stage, thus significantly reducing duplication of effort. This could be achieved by displaying the point of contact details when the user clicks on the relevant product specification title.

Action Required of TSMAD and DIPWG

The TSMAD and DIPWG are invited to:

- a. discuss the proposal outlined above.
- b. agree the proposal outlined above.
- c. agree the paper to be presented to HSSC for their endorsement.
- d. discuss the requirement for the mechanism to ensure organizations are aware of product specifications under development.

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