

Dossier de la OHI Nº S3/8151/S-100

CARTA CIRCULAR 31/2025
18 de julio del 2025

APROBACIÓN DE PUBLICACIONES DE LA OHI

ESPECIFICACIONES DE PRODUCTO BASADAS EN LA S-100 FASE 1
S-124 y S-128 Ediciones 2.0.0

Referencias:

- A. Resolución de la OHI nº 2/2007 – Principios y Procedimientos para efectuar cambios a las Normas y Especificaciones Técnicas de la OHI.
- B. CC de la OHI nº 07/2025 de fecha 03 de febrero del 2025 – Petición de Aprobación de Especificaciones de Producto Basadas en la S-100 (Fase 1) – S-124 y S-128.

Estimado(a) Director(a),

1. De acuerdo con la referencia A, se propuso la aprobación de las Ediciones operativas 2.0.0 de las Especificaciones de Producto Basadas en la S-100 (Fase 1) S-124 y S-128 mediante la Carta Circular de la Referencia B.
2. La Secretaría de la OHI da las gracias a los treinta y siete Estados Miembros que respondieron a la Referencia B: Alemania, Argelia, Australia, Bélgica, Brasil, Canadá, Chile, China, Chipre, Croacia, Dinamarca, Eslovenia, España, Estados Unidos de América, Estonia, Federación Rusa, Finlandia, Francia, Grecia, Irán, Irlanda, Italia, Jamaica, Kenia, Malasia, Nueva Zelanda, Noruega, Países Bajos, Perú, Polonia, Portugal, Reino Unido, República de Corea, Rumanía, Singapur, Suecia y Ucrania.
3. Treinta y seis Estados miembros apoyaron la aprobación de la propuesta de Especificación de Producto S-124 Edición 2.0.0. Seis Estados Miembros presentaron comentarios además de su voto. Todos los comentarios recibidos sobre la propuesta de Edición de la S-124 se incluyen en el Anexo A a esta Carta Circular, con las respuestas del WWNWS-SC, del Presidente del HSSC y de la Secretaría de la OHI.
4. En cuanto a la propuesta de Edición 2.0.0 de la S-128, aunque treinta y cinco Estados Miembros apoyaron su aprobación, los comentarios recibidos de los Estados Miembros además de su voto demandan un completo esfuerzo de consolidación para alinear los contenidos del Registro de IG, el Catálogo de Entidades, los Esquemas y la documentación.
5. Cuando se publicó la Referencia B, había 100 Estados Miembros de la OHI, con dos Estados suspendidos. De acuerdo con las disposiciones del Convenio de la OHI enmendado, el número mínimo de votos afirmativos requeridos es de 33. Como resultado, se han aprobado las propuestas de las Especificaciones de Producto mencionadas. Las Ediciones 2.0.0 de la S-124 y S-128 están ya disponibles (solo en versión inglesa) en el Registro IG de la OHI > GI Registers > Product Specification. También se ha incluido un enlace a las Especificaciones de producto en la página web de la OHI > Publications > Standards and Specifications.

6. La Secretaría de la OHI y el Presidente del HSSC desean felicitar y agradecer a todos los implicados en este hito significativo en la implementación de la S-100. Con la publicación de las primeras ediciones operativas de la S-124 y S-128, se ha completado la cartera de Especificaciones de Producto de la Fase 1, lo que constituye un éxito notable de la Comunidad de la OHI, en particular de los Estados Miembros de la OHI y de los expertos que contribuyeron activamente a alcanzar este hito, como se incluye en la Hoja de Ruta de la OHI para el Decenio de Implementación de la S-100 (2020-2030).

En nombre del Secretario General

Atentamente,



John NYBERG

Director

Anexo:

- A. Respuestas a los comentarios de los Estados Miembros a la CC de la OHI nº 07/2025 de los Presidentes del Grupo de Trabajo y Equipo de Proyecto afectados, el Presidente del HSSC y la Secretaría de la OHI (solo en inglés)

**MEMBER STATES' RESPONSES TO IHO CL 07/2025 AND COMMENTS
FROM THE WORKING GROUP and PROJECT TEAM CHAIRS, IHO SECRETARIAT**

S-124, Ed. 2.0.0

Operational Product Specification

AUSTRALIA (Vote for adoption = YES)

At the time of this response, we checked the updated S-124 GML schema "S-124_GML_Schema.zip" (from IHO Geospatial Information Registry) and it seems that the S-124 version in the XSD is not correct:

```
<xs:schema
  xmlns=http://www.ihodata.int/S124/1.0
  xmlns:xs=http://www.w3.org/2001/XMLSchema
  xmlns:S100=http://www.ihodata.int/s100gml/5.0
  xmlns:gml=http://www.opengis.net/gml/3.2
  xmlns:xlink=http://www.w3.org/1999/xlink
  targetNamespace=http://www.ihodata.int/S124/1.0
  elementFormDefault="qualified"
  version="1.0.0-20220818">
```

It defines version="1.0.0-20220818", but it should be 2.0.0. Also, the namespace is set to xmlns=http://www.ihodata.int/S124/1.0 . Version 1.5 of the GML schema did this differently:

```
<xs:schema
  xmlns=http://www.ihodata.int/S124/1.5
  xmlns:xs=http://www.w3.org/2001/XMLSchema
  xmlns:S100=http://www.ihodata.int/s100gml/5.0
  xmlns:gml=http://www.opengis.net/gml/3.2 targetNamespace=http://www.ihodata.int/S124/1.5
  elementFormDefault="qualified" version="1.5.0-20240330">
```

The AHO request the IHO Secretariat to review and amend as necessary.

Comments by the WWNWS-SC Chair and IHO Secretariat:

The WWNWS-SC Chair and IHO Secretariat thank Australia for their comments. The version number has been corrected to have both the S-124 version and namespace reflect S-124 Edition 2.0.0 for the S-124 GML Schema Edition 2.0.0.

CANADA (Vote for adoption = YES)

1. The GML schema should have the language sub attribute as a minOccurs="1" in all cases to match the UML and the spirit of the product specification document. The language currently reads:

- <!-- subattributes --> <xss:element name="language" type="languageType" minOccurs="0" maxOccurs="1"/>
2. It appears that the S-124 ed 2.0 XSD file (S124_v2.0.0-20241210.xsd) is an incorrect version. It refers to S-100 5.0.0 and the S-124 version indicated is 1.0.0. In the XSD, *maxOccurs* of information is not indicated, and the XSD rule seems to be that when *maxOccurs* is not indicated, its value should be assumed to be 1. This is inconsistent with the model. Thus, the *minOccurs* and *maxOccurs* should therefore always be entered in the XSD (at least when they're not equal to 1).

Comments by the WWNWS-SC Chair and IHO Secretariat:

The WWNWS-SC Chair and IHO Secretariat thank Canada for their comments. The *minOccurs* for the *language* sub-attribute has been amended to 1 throughout the GML Schema XML to reflect the Product Specification. The GML Scheme XML has also been amended to include both *minOccurs* and *maxOccurs* in all cases as described in the S-124 data model in the Product Specification.

For the version of S-124 quoted in the XSD file, see the response to the comment from Australia above. However, the S-100 version quoted is consistent with the version quoted in other Phase 1 S-100 implementation Product Specifications, so has been retained as is.

CYPRUS (Vote for adoption = YES)

General comment: Cyprus thanks the IHO, the HSSC and all Member States that contributed to the development of the standards. Their contribution is valuable for the progress and safety of navigation.

Comments by the WWNWS-SC Chairs and IHO Secretariat:

The WWNWS-SC Chair and IHO Secretariat thank Cyprus for their comment.

SWEDEN (Vote for adoption = YES)

General comment: Sweden would like to congratulate the project team, WWNWS-SC and other parties involved for successfully finalizing the development of the operational version of S-124.

Comments by the WWNWS-SC Chairs and IHO Secretariat:

The WWNWS-SC Chair and IHO Secretariat thank Sweden for their comment.

CANADA (Vote for adoption = YES)

Canada has a concern that though the maximum CNP file size is now increased to 50 MB in ed. 2, this limit may still be too low.

Comments by the NIPWG Chair and IHO Secretariat:

The NIPWG Chair and IHO Secretariat thank Canada for their comment. The comment and possibility to further increase maximum size of S-128 datasets will be considered within the relevant NIPWG Task Group, and implemented unless negative consequences are identified.

Finland (Vote for adoption = YES)

We have noticed some differences in the syntax between the machine readable parts of the specification and the IHO GI Registry. We would therefore recommend that prior to the publication of edition 2.0.0, the machine readable parts of the specification should be compared to the current state of the registry, in order to align syntax such as use of upper / lower case in the definitions, names and labels and reflect recent changes in the registry.

Comments by the NIPWG Chair and IHO Secretariat:

The NIPWG Chair and IHO Secretariat thank Finland for their comment. The specification will be reviewed against the registry prior final publication.

SWEDEN (Vote for adoption = YES)

General comment: Sweden would like to congratulate NIPWG and other parties involved for successfully finalizing the development of the operational version of S-128.

Comments by the NIPWG Chair and IHO Secretariat:

The NIPWG Chair and IHO Secretariat thank Sweden for their comment.

REPUBLIC of KOREA (No vote)

These are the changes that are required to Clause 12 of S-128 Edition 2.0.0 to align with S-100 Edition 5.2.0:

- Correct Type for identifier and certificates classes at clause 12.2.1
- Add missing first columns (Role Name and Item) at clauses 12.2.1.1, 12.2.1.2, 12.2.2.1, 12.2.2.3, 12.2.2.4, [12.2.2.5], [12.2.2.6], [12.2.2.7], [12.2.2.8], 12.2.3.1, 12.2.3.2, 12.2.3.3, 12.2.3.4, 12.2.4.1, 12.2.5.1, 12.2.5.2, 12.2.5.3
- Correct Type for *digitalSignatureReference* and *digitalSignatureValue* classes at clauses 12.2.2, 12.2.3
- Correct name (syntax) for update, reissue and cancellation values at clause 12.2.2.3

- Remove redundant clauses 12.2.2.5 (*S100_DigitalSignature*) and 12.2.2.6 (*S100_DigitalSignatureValue*) – related to changes at clause 12.2.2. Renumbered clauses 12.2.2.7 to 12.2.2.10 accordingly
- Correct incorrect Code value for value HDF5 at clause [12.2.2.5]
- Correct name (syntax) for all values and add missing Code values for enumeration *S100_CompliancyCategory* at clause [12.2.2.7]
- Add missing Code value for enumeration *S100_ProtectionScheme* at clause [12.2.2.8]
- Update the Remark for the *supportedResource* attribute at clause 12.2.3
- Correct name (syntax) for PDF/AorUA value at clause 12.2.3.1
- Rename *S100_SupportFilePurpose* to *S100_ResourcePurpose* and replaced enumerate names, values and descriptions at clause 12.2.3.3
- Remove redundant clause 12.2.3.5 (ResourcePurpose)
- Amend multiplicity from [1..*] to [1] and Type from *CharacterString* to URI for filename attribute for *S100_CatalogueDiscoveryMetadata* at clause 12.2.4
- Amend multiplicity from [1..*] to [1] for *productSpecification* attribute for *S100_CatalogueDiscoveryMetadata* at clause 12.2.4

NOTE:

- clause numbers enclosed in [] are renumbered clauses after prior clause removal.
- the above changes will also align the Tables with Figure 12-2 in S-128

Comments by the NIPWG Chair and IHO Secretariat:

The NIPWG Chair and IHO Secretariat thank the Republic of Korea for their comments. All changes as identified have been applied as proposed for S-128 Edition 2.0.0.

UNITED KINGDOM (Vote for adoption = YES)

From experience implementing S-128 to date it has been observed that S-128 generation could be frequent and therefore we suggest that the Dataset File name limit indicated at section 11.2.2 of the Data Product Specification is increased to allow twenty-one rather than seventeen characters for producers to utilise as they wish.

The UK would like to thank all those who have contributed to the development of the development of S-128.

Comments by the NIPWG Chair and IHO Secretariat:

The NIPWG Chair and IHO Secretariat thank United Kingdom for their comment. The comment and possibility to further increase characters in file name will be considered within the relevant NIPWG Task Group, and implemented unless negative consequences are identified.