

International Hydrographic Organization

S-100 / S-101 Progress update and impact on HOs

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Hydrographic Geospatial Standard for Marine Data and Information





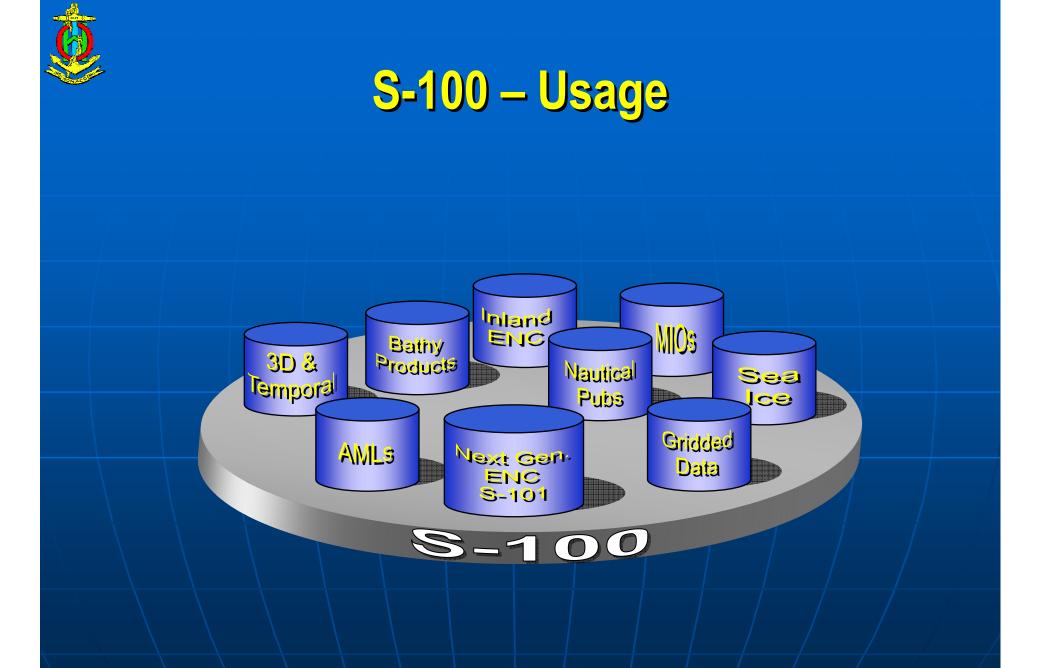
S-100 - Recent activity

 Editing Committee met in September
 400 comments from peer and stakeholder groups
 No show stoppers
 Publication 3rd quarter 2009?



S-100 - Goals

need to develop and maintain a contemporary standard
 extensibility
 wider user base
 promote better interoperability
 aligned with ISO 19100 series of standards





S-100 – Key Facts

data content separated from carrier

- standard never "frozen"
- new maintenance regime
- fundamentally remains an exchange standard for now
- S-100 product specifications self sufficient



S-100 – Content

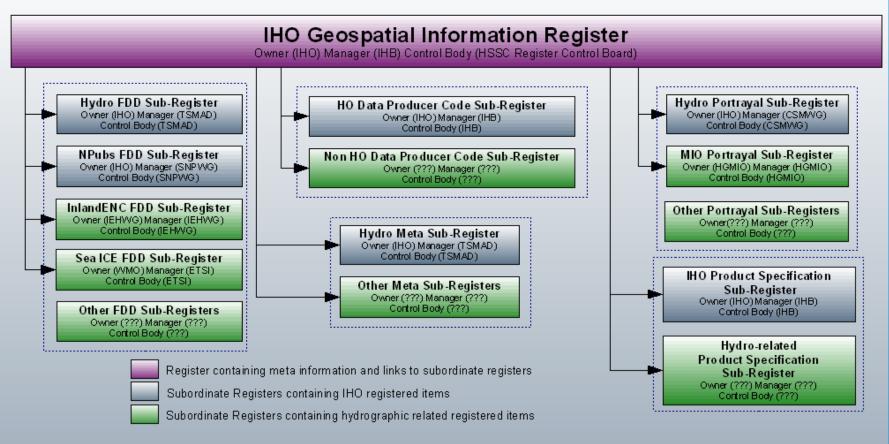
new spatial configuration imagery and gridded data component richer metadata new encoding formats • XML, GML, JPEG2000 etc. ISO/IEC 8211 retained, but updated





IHO Geospatial Information Infrastructure Registry

Owner (IHO) Manager (IHB)





S-100 – Issues

Testing OGC involvement ISO Based Product Specifications ISO TC211 Progress and review regime. Portrayal



S-100 – Impact on HOs

S-101 Supplementary layers – MIOs etc. Defence Future web enhancements





Next Generation ENC Product Specification



Don't Spook the Horses"

Cpt Robert Ward (ad nauseum)



S-101 – Introduction

Initial investigations undertaken by the TSMAD WG based on a stakeholder workshop and 15+ years experience.
 The development of S-101 must be progressed with the full input and cooperation from stakeholders.



S101 – General

S-101 will be independent of S-100, no more frozen standards.

Most existing features and attributes retained

Cartographic attribution re-introduced

New information type

New complex attribute



S101 – New Features

 New concept to emulate production database architecture based on two new cell types:
 One containing scale less features e.g. lights, buoys, tracks and some area features

• The other containing non-scalable features e.g. coastline and group one features



S101 – New Features

Navigation purpose reduced to 3 bands:

- Overview, route planning and oceanic passage
- Coastal navigation and approach to pilot points
- Harbour, navigation from pilot point to berth

Reduced number of scales aligned to radar ranges

- Overview and coastal bands grid based and the scales fixed globally.
- Existing band structure has produced a multitude of differing scales causing issues with ECDIS
- Dynamic Tidal model



S101 - ECDIS

Automated updating

 no more frozen standards!
 no more workarounds!

 Transfer mechanism for feature & portrayal catalogues

 No more delays in implementing new features and portrayal!



S101 – ECDIS

- Common loading policies.
- Agreed set of defined display/radar range scales.
- Ability for ECDIS to manage supplementary information in the form of overlays. Start implementing the I in ECDIS.
 - Emerging product specifications for MIOs including ICE, NPubs etc.
- TYPE APPROVAL

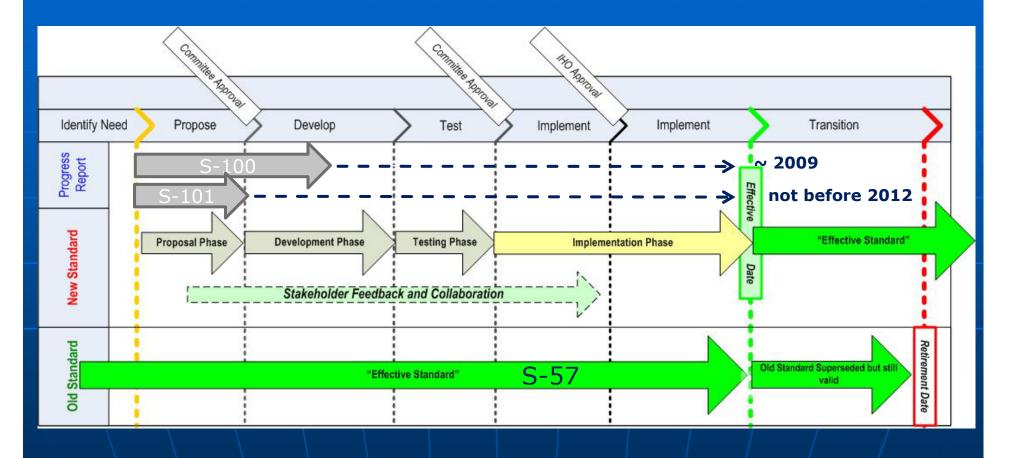


S-101 – Impact on HOs

S-57 ENC datasets will be compatible with S-101 ECDIS no new content ISO/IEC 8211 encoding compatible Distribution may be an issue servicing two data streams



Timetable





QUESTIONS