

S-100 Update and Overview

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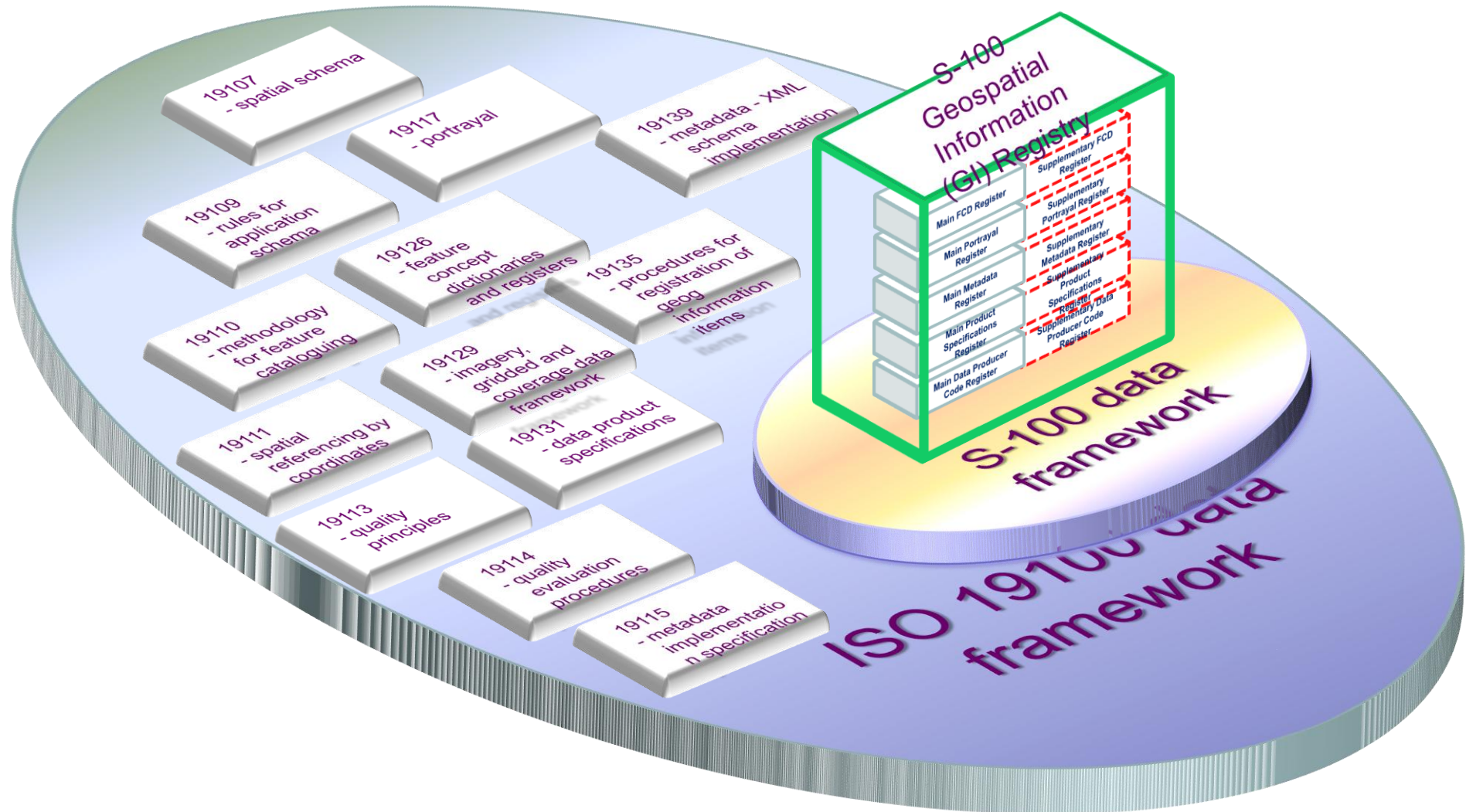


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S-100 Background

- The S-57 Exchange Standard was developed during the 1990s by the IHO
- S-57 primarily supports the requirement to Exchange ENC data
- The limitations of S-57 include an inability to adapt to change and limited support for different data types e.g. gridded data
- A new contemporary standard was required – S-100





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S-100 Product Specifications - Components

- Product Specification – main document defining the product
- Feature Catalogue (XML) – Application schema, Features and Attributes
- Portrayal Catalogue (XML) - (optional) – Display rules and symbols
- Encoding – e.g. GML
- Capture guide (optional) – Guidance on how to capture a product



1. Develop a Product Specification

Product Specification

2. Register items



3. Build a Feature Catalogue

Feature Catalogue

4. Build a Portrayal Catalogue

Portrayal Catalogue

5. Create data products

Data product

6. View in S-100 Software



S-100 Range of Products

- S-100 will support a greater variety of data sources, products and services
- Published April 2012;
 - S-102 Bathymetric Surface Product Specification
- Examples in development include;
 - S-101 ENC Product Specification
 - Marine Protected Areas Product Specification
 - ETSI Ice Product Specification



Wider use of S-100

Through the development of product specifications the IHO is engaging with other organizations to support their use of S-100 including;

- IALA
- WMO JCOMM ETSI
- UN DOALOS



S-100 and E-Navigation

- The IMO has recognised S-100 as;
“the baseline for creating a framework for [e-Navigation] data access and services under the scope of SOLAS”
- S-100 can be extended and developed to meet the requirements of E-Navigation
- The development of S-100 testbeds is an important step in proving and further developing S-100
- A collaborative community effort will be required bringing together NGOs and Industry



Current Status

- Standard published January 2010 but further development ongoing revision likely in the 2013-2014 timeframe
- Portrayal section remains to be completed
- Completion of Portrayal will enable an S-101/S-100 test phase to begin
- Wider use of S-100 is encouraging likely to continue and grow as e-navigation evolves



Questions ?



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