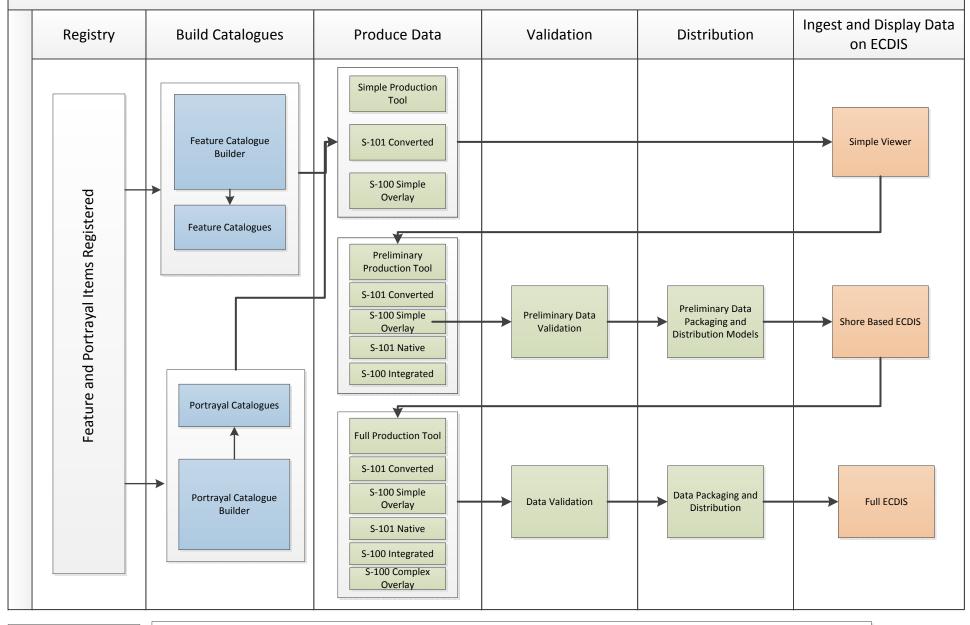
S-100 System Overview





- There is a detailed activity diagram for each box in the diagram
- Feature and Portrayal Catalogues feed into each aspect of the system
- Feature Catalogues feed into both the production and display of data
- Portrayal Catalogues feed primarily into the display of data
- S-100 Integrated means that there may be a partial replacement of the underlying base S-101 data. For example, an S-102 bathymetric dataset may replace part of the base ENC for navigation purposes
- There are potentially two types of overlays a simple overlay that sits on top of the base data, or a more complex overlay that interacts directly with the base dataset.

STANDARDS

S-100

S-101

S-10X

IEC 61174

IMO

S-100 System Overview Ingest and Display Data Registry **Build Catalogues Produce Data** Validation Distribution on ECDIS Simple Production Tool PHASE 3 Feature Catalogue SPHASSerted Builder S-100 Simple Feature and Portrayal Items Registered Overlay **Feature Catalogues** Preliminary **Production Tool** S-101 Converted Preliminary Data Preliminary Data Packaging and **Shore Based ECDIS** Validation **Distribution Models** PHASE 6 PHASE 1 PHASE 5 S-101 Native S-100 Integrated Portrayal Catalogues Full Production Tool S-101 Converted S-100 Simple Data Packaging and Portrayal Catalogue **Data Validation** Full ECDIS Distribution Builder PHASE 8 S-101 Native S-100 Integrated S-100 Complex There is a detailed activity diagram for each box in the diagram Catalogues **STANDARDS** Feature and Portrayal Catalogues feed into each aspect of the system S-100 - Feature Catalogues feed into both the production and display of data Data S-101 - Portrayal Catalogues feed primarily into the display of data S-10X - S-100 Integrated means that there may be a partial replacement of the underlying base S-101 data. For example, an S-102 bathymetric dataset may replace part of **ECDIS** IEC 61174 the base ENC for navigation purposes

- There are potentially two types of overlays – a simple overlay that sits on top of the base data, or a more complex overlay that interacts directly with the base

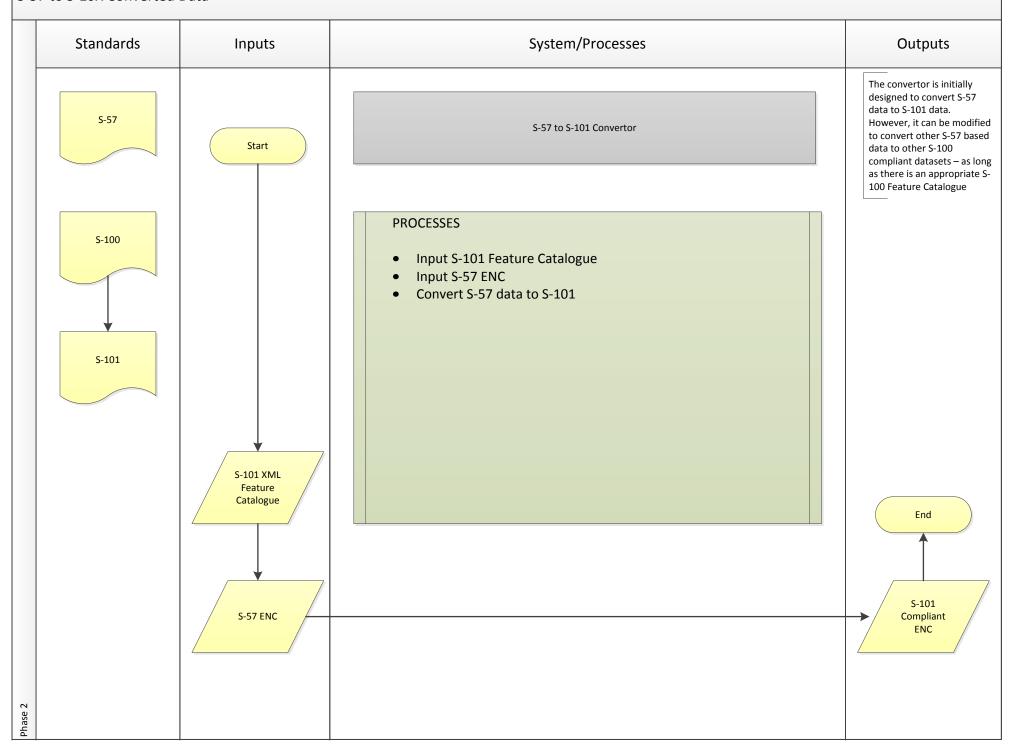
dataset.

IMO

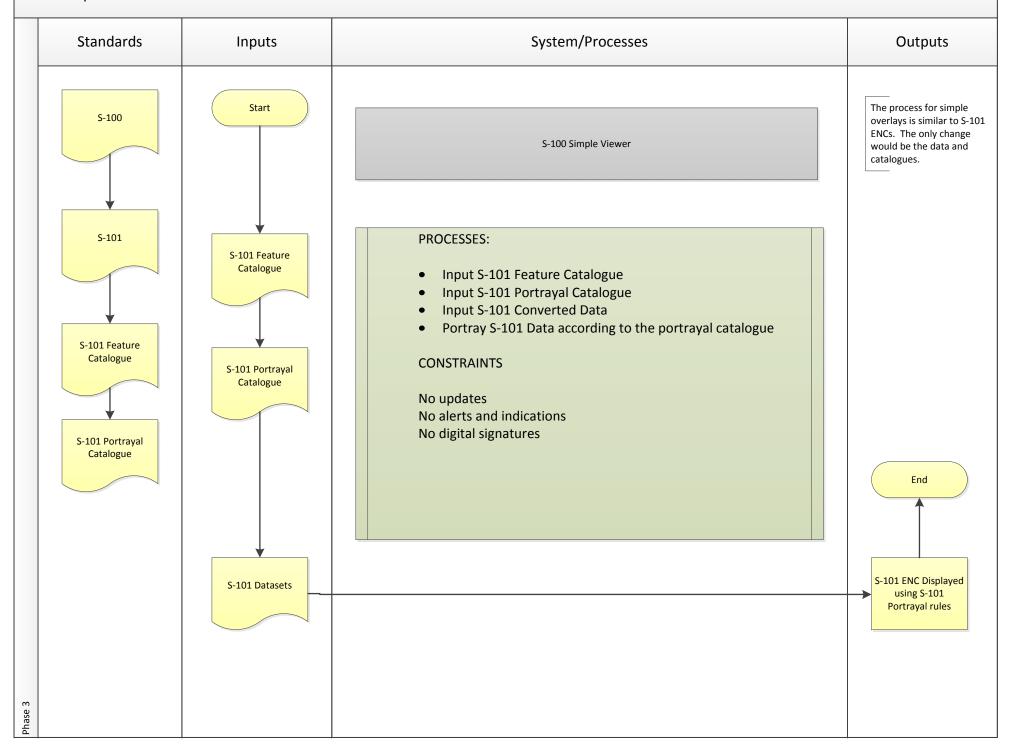
Feature Catalogue Builder Systems View Standards System/Processes Inputs Outputs Start End S-100 Part 2a Feature Catalogue Builder Feature Concept Dictonaries **IHO GI Registry** PROCESSES: S-100 Part 3 General Digital Signature Create catalogue – enter basic information Feature Model Add, Edit or Delete items **Create Bindings FCD** Register Items Specify multiplicity – mandatory, optional, conditional/ mandatory Output catalogue S-100 Part 5 Feature Feature Copy a catalogue Catalogue Catalogue.HTML Validate the catalogue to ensure that it is correct **Digital Signature** Delete a catalogue User defined items XSLT S-100 Feature Catalogue Feature Schema Catalogue.XML .xsd Phase 1A

Portrayal Catalogue Builder Systems View Standards System/Processes Inputs Outputs Start End Protrayal Catalogue Builder S-10X Feature Catalogue PROCESSES: Digital Signature **Create Catalogue** Input relevant feature catalogue .XML Read Feature Catalogue **IHO GI Registry** Read elements from the Portrayal Register Portrayal Create Rules for Points, Lines and Surfaces Copy an existing catalogue S-100 Part 9 Edit a Catalogue Portrayal Delete a Catalogue Portrayal Validate a Catalogue Catalogue.HTML SVG Symbols Output catalogue Validate the catalogue to ensure that it is correct **Digital Signature** Delete a catalogue XSLT User defined S-100 Symbols Portrayal Catalogue Schema .xsd Portrayal Catalogue.XML Phase 1B

S-57 to S-10X Converted Data



S-100 Simple Viewer



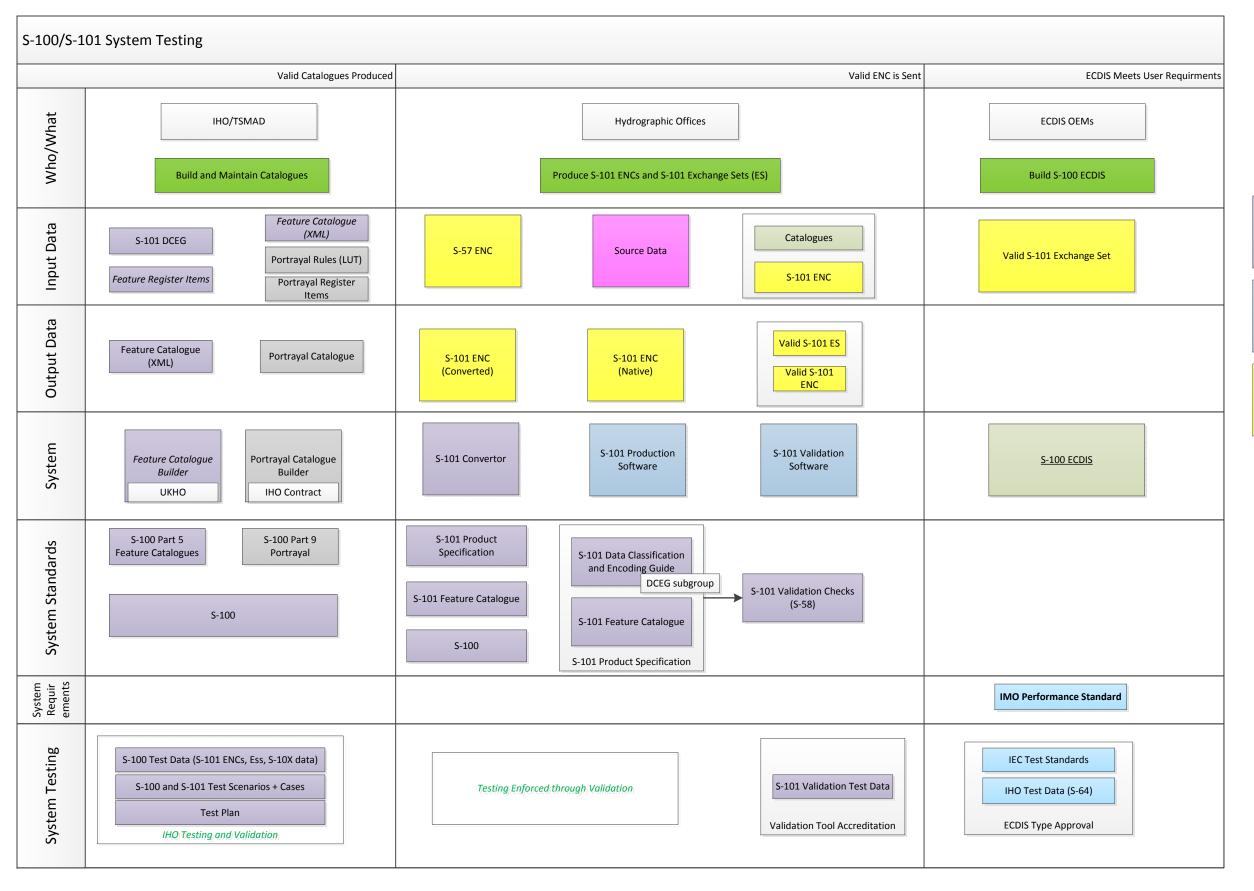
Preliminary Production Tool System/Processes Standards Outputs Inputs Phase 2C

Preliminary Data Validation System/Processes Standards Outputs Inputs

Preliminary Distribution System/Processes Standards Outputs Inputs Phase 4

Shore Based ECDIS Standards System/Processes Outputs Inputs

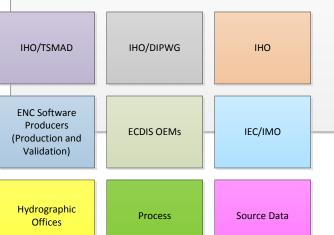
Full Production Tool System/Processes Standards Outputs Inputs

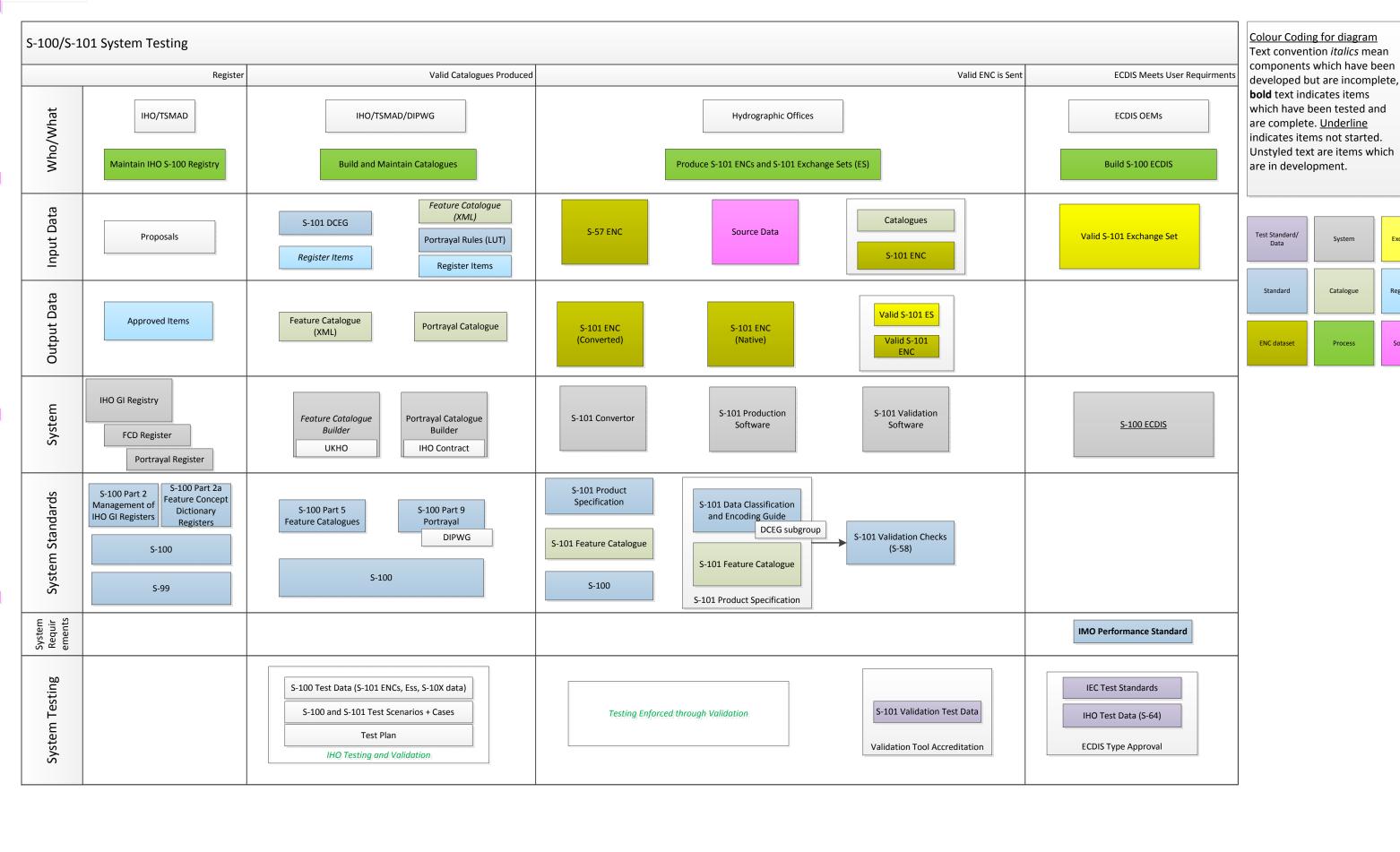


Colour Coding for diagram

Text convention *italics* mean components which have been developed but are incomplete, **bold** text indicates items which have been tested and are complete.

<u>Underline</u> indicates items not started. Unstyled text are items which are in development.





Exchange Set

Register Items

