

**Paper for Consideration by the
Digital Information Portrayal Working Group (DIPWG)**

S-100 Portrayal Model

Submitted by:	DIPWG Chair
Executive Summary:	The S-100 Portrayal Model Sub-Working Group has developed the model to a point that will support portrayal within the S-100/101 testbed. Some additional development of the model will be need to support some aspects of S-100 (beyond those used in S-101).
Related Documents:	S-100, S-101, S-100 Portrayal Model
Related Projects:	S-100 and S-100 based product specifications

Introduction / Background

A small, but dedicated group of OEMs in the DIPWG S-100 Portrayal Model Sub-Working Group has worked tirelessly to mature the S-100 Portrayal Model.

Analysis/Discussion/Conclusions

The model is now at a state in which it can be inserted into Section 9 of S-100. The model should be able to support S-100/101 testbed activities, such as its use by the yet to be developed S-100 Portrayal Catalogue Builder application to produce an S-101 Portrayal Catalogue.

Some elements of S-100, such as the use of raster or gridded data structures are not yet supported in the portrayal model, but the model will fully support all S-101 portrayal needs. Support for portrayal of S-100 based products using GML also requires further study. Full support of all elements of S-100 will be developed as soon as available resources can support it.

A presentation will be provided at TSMAD26/DIPWG5 to discuss the overarching characteristics of the model.

Recommendations

- Accept the S-100 Portrayal model for incorporation into S-100 Section 9. The model is mature enough to start exercising it in a testbed environment.
- Continue the efforts of the DIPWG S-100 Portrayal Model Sub-Working group to develop complete support for other S-100 based elements that are not yet included in the model. These include, but may not be limited to, accommodating raster/gridded data structures and GML encoding. These elements will be needed to fully support the portrayal of all S-100 based products, beyond S-101.

Justification and Impacts

- Acceptance of the S-100 Portrayal Model will enable moving forward with the S-100 Testbed and refinement of S-100 based products, such as the S-101 ENC.
- Completion of the model supports the development of the Portrayal Catalogue Builder, which will be created under a soon to be awarded IHO contract.
- Failure to continue development of the model will limit the ability of those creating new S-100 based products to take full advantage of all of the elements of the S-100 data model, such as raster/gridded data structures and GML encoding.

Action Required of DIPWG

DIPWG is invited to:

- a. endorse the work of the DIPWG S-100 Portrayal Model Sub-Working Group
- b. approve use of the model to complete Section 9 of S-100
- c. endorse the continuing efforts of the sub-working group to enhance to model to support all remaining elements of S-100 portrayal.