

## Paper for Consideration by TSMAD/DIPWG

## S-100 and S-101 Test Datasets

<b>Submitted by:</b>	TSMAD Vice Chair
<b>Executive Summary:</b>	This paper outlines the types of test datasets that will need to be created for the S-100 test bed and for S-101 to undergo testing
<b>Related Documents:</b>	S-100 Test Framework S-101 Product Specification
<b>Related Projects:</b>	S-101

**Introduction / Background**

In order to properly test the components of S-100 such as the Feature and Portrayal Catalogue Builders and the completeness of S-101 it is necessary to build a suite of test datasets in to test and validate different types of functionalities.

Over the course of the past year a draft listing of the types of test datasets has been developed. The intent of this paper is for TSMAD/DIPWG to review the draft listing so the preparation of the different types of test data can commence.

**Analysis/Discussion**

The test dataset listings are divided into different categories based on the S-100 test framework. So for each component of the test framework there will be a series of test cases and test datasets. In addition, for each S-100 based product specification there should be a series of test data that can be used to test the functionality of the product specification.

The test dataset listing currently has drafted a list of test data for the following phases:

Phase	Phase Title	General Description
1A	Feature Catalogue Builder	Test Datasets for both the cumulative catalogue model and the multiple catalogue model our outlined
1B	Portrayal Catalogue Builder	Test Datasets for both the cumulative catalogue model and the multiple catalogue model our outlined
1	Catalogues	Place holder for other product specifications
2	Initial data Conversion Tool	The initial test data will be S-57 ENCs and the test data from S-64
3A	8211 Simple Viewer	The initial test data will be S-57 ENCs and the test data from S-64 plus some specific data to test geographic scenarios
4	Preliminary Data – S-101	Although this is an S-100 test bed, one of the main product specifications that have to be tested is S-101. This test listing is for S-101 based data to start testing out different aspects of the product specification. Other S-100 based Product specification should maintain a similar listing.

**Recommendations**

It is recommended that TSMAD/DIPWG review the preliminary test dataset listing and approve the commencement of the creation of test datasets for the S-100 test bed.

**Justification and Impacts**

It should be noted that it does take resources to build the different types of test datasets required for the S-100 test bed and the S-101 product specification. Through a Memorandum of Understanding between KHOA and NOAA, under its Joint Project Agreement, some funding has been approved for the creation of preliminary test data.

**Action Required of TSMAD29/DIPWG7**

The TSMAD and DIPWG is invited to:

- a. discuss the test different types of test data required and propose additional test datasets
- b. agree to the development of the test datasets

