

Paper for consideration by S-100 WG

LayerID

Submitted by:	Jeppesen
Executive Summary:	Clarification on the use of the LayerID attribute in S100_DatasetDiscoveryMetaData .
Related Documents:	(1) Part 4 - Metadata
Related Projects:	(1) S-100 2.1.0

1 Introduction/Background

The LayerID attribute was added to S-100 in connection with the development of the SI/SD concept. Since the SI/SD concept for S-101 was parked, there have been questions about the usefulness of the LayerID attribute. This paper seeks to justify the continued usefulness of the LayerID attribute.

2 Analysis/Discussion

NIPWG have investigated several venues for how NPUBs interact with ENC in and ECDIS. At NIPWG1 it was concluded that in near term specification development the NPUBs would assume ENC as the always present base layer with NPUBs overlaying the ENC when NPUBs are needed. Other working groups and task groups indicate similar intentions, e.g. surface current, high definition bathymetry, weather and ice will be overlays over ENC. It will therefore be likely that some kind of metadata is needed to identify the required layer(s) for an operation (such as view marine protected areas) to display properly within a system and this can be done using LayerID.

For example if the ECDIS is required to show MPA only when ENC is present on the screen, S-122 datasets can have LayerID set to the needed ENC cells.

These concepts are in some ways similar to the SI/SD concept in that for a correct situational awareness, two or more layers of data are needed to be present in the system. This type of relationship is what LayerID was intended for.

In S-100 ed 2.0.0 Part 4A, **S100_DatasetDiscoveryMetaData** describe LayerID as “Identifies the relationship to other layers that are required to view the complete data set.”, this description implies the need to describe the type of relationship and to what other layers/datasets this relationship applies. We think that can be simplified by improving the definition to read “identifies other layers with which this dataset is intended to be used or portrayed”.

3 Recommendations

Retain LayerID and amend the definition to “identifies other layers with which this dataset is intended to be used or portrayed”. Add clarification note with example, a marine protected area dataset needs ENC dataset to portray as intended in ECDIS, its layerID metadata attributes identify the needed datasets.

4 Impacts

Minor change to definition and amending example

5 Actions Requested

The S-100WG is invited to:-

- discuss this paper;
- adopt the clarifying amendments to Part 4.