4.6 Display Scale range  
Display scales are used to indicate a range of scales between which a producer considers the data is intended for use. The smallest scale is defined by the Minimum Display Scale and the largest scale by the Maximum Display Scale. These scales must be set at one of the scales specified in clause 3 (spatial resolutions).The display scales are defined as Data Set Attributes in the Feature Catalogue and encoded using the Attribute field (ATVL) of the attribute field (ATTR) and recorded in the discovery metadata for the dataset.

4.6.1 Dataset Loading and Unloading

4.6.1.2 Algorithm for dataset loading and unloading

This clause defines the dataset loading and unloading algorithm for use on ECDIS. The following use cases shall initiate the algorithm to properly load and unload datasets.

Insert Diagram here – put values in the diagram and a worked example for the business rules.

This applies to data loading and unloading,

Create selection List

1. All datasets within window in scale range (covered by the MSVS) ordered by MAXDSC and largest percentage coverage
2. All other smaller scale datasets within window ordered by MAXDSC, percentage coverage
3. Display order is from the smallest MAXDSC to the largest MAXDSC

Cycle through selection list until all gaps filled

If the MSVS is larger than the MAXDSC of an area within the window, turn on overscale indication.

If the mariner selects an individual dataset to load it must be displayed at its MAXDSC then use the algorithm to fill the screen.

Additional Language for M\_CSCL

M\_CSCL becomes M\_MXDS (maximum display scale).

If your MSVS is greater than the MAXDSC but less than the M\_MXDS then the overscale indication is turned on for the area of the dataset not covered by the M\_MXDS.

Proposed Alternate wording for how M\_CSCL is to operate.

dataCoverage area features carry the scale attribution within the entire cell. For example, there would be a dataCoverage feature that covers the entire cell and the MINDSC and MAXDSC values are carried in the discovery metadata, additionally other dataCoverage features that represent better scale would also carry attributes that have the MINDSC and MAXDSC and will also be contained in the discovery metadata. The discovery metadata must list all the dataCoverages contained within that dataset and its assigned MINDSC and MAXDSC. dataCoverage must not overlap.