

Paper for Consideration by S-101 PT12**Attribute Suppression in S-101 2.0.0**

Submitted by:	S-101PT Chair
Executive Summary:	This paper proposes which attributes in S-101 2.0.0 should be suppressed in the ECDIS pick report based on the extension made to S-100 Part 5 in S-100 5.2.0.
Related Documents:	S-101PT Report to S-100WG8
Related Projects:	S-100

1. Following discussion at S-101PT11 the need for attribution in S-100 datasets to be hidden or suppressed in pick reports was recognised. This was reported to S-100WG8 which led to the S-100WG agreeing changes to the S-100 Feature Catalogue Model (S-100 Part 5) which have been applied in S-100 5.2.0. This forms part of an interim solution to the more comprehensive functionality sought by NIPWG.
2. Given the planned timeframes to deliver S-101 2.0.0 and the intent to resolve changes to the Feature Catalogue at the PT12 meeting in February 2024 this paper has been developed in order to identify which specific S-101 attributes should have the new suppression attribute populated so that the values are not presented in Pick Reports.
3. The fundamental logic behind this is that users of ECDIS systems should not be presented with information that is not meaningful to them. In many cases the purpose of the attribute is to support portrayal so that the user receives this information from the chart display and therefore additionally conveying this information in the Pick Report is confusing. Based on our understanding of ECDIS use we should seek to minimise the information presented in the Pick Report to minimise cognitive load. This approach is consistent with efforts to minimise Alerts and Indications to those which are required.
4. Annex A of this paper seeks to list attributes that should not be shown in the ECDIS pick report some of these are the specific system attributes introduced to address the complexity of the Conditional Symbology Rules defined in S-52. Others are more cartographic in nature. Some do require further consideration and Interoperability Identifier is one, as the functionality in S-98 is not yet mature it is not entirely clear how this attribute will work, further testing and development is needed.

Recommendations

- A. S-101PT members are invited to consider the table of attributes at Annex A and agree a final list for implementation in S-101 2.0.0. When agreed and the Feature Catalogue builder has support the changes will then be applied for S-101 2.0.0.
- B. Testing activities should seek to explore this and identify any other attributes that should be suppressed or any listed here that should be shown to users. Clear use cases would be needed.

Annex A – Proposed Attributes to be Suppressed

Attribute Name	Justification
default clearance depth	<p>These attributes support portrayal but have no meaning for users. They are all system attributes and referenced from DCEG section 2.4.5.1 on this basis it should not be shown in the ECDIS pick report its display could cause confusion for users.</p>
flare bearing	
In the water	
sector arc extension	
surrounding depth	
sector line length	<p>This attribute is effectively cartographic in nature and in a similar manner to sector arc extension above is used to control the length of sector lines. The user will see the sectors in the chart display and does not need this information, in fact it could cause confusion.</p>
name usage	<p>This attribute seeks to control which name values are displayed. There does not seem to be value in conveying this to users, they will either see names on the chart display or in the pick report.</p>
display uncertainties	<p>This attribute is intended to allow the producer to control the display of uncertainty polygons. Given the developments underway for incorporating uncertainty within alerts and indications in ECDIS suggest that this attribute is reviewed in the context of that work. If it is retained it should not be shown in the pick report as it is of no user value.</p>
major light	<p>This Boolean attribute allows producers to control how lights display in ECDIS from an end user perspective this information is of no value and should be hidden in the pick report.</p>
scale minimum	<p>This attribute is present on most features and controls their display. Although users could gain an understanding of why features display from this information overall it is considered that this information does not warrant inclusion in pick reports.</p>
Interoperability identifier	<p>This attribute is intended to indicate where a feature may be related to a feature or information type in another dataset. S-98 describes this but at this stage the functionality needs further development. As testbed systems can still access this attribute it is proposed to hide it in the pick report at this stage.</p>

file locator	This attribute is used to allow support files to be opened at a specific location. This has no value to the user so need not be displayed in the pick report.
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