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Input paper for the following Committee(s): check as appropriate Purpose of paper:

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Agenda item [[2]](#footnote-2) 8.4

Technical Domain / Task Number 2 Working Group 2 / Task X.X

Author(s) / Submitter(s) Sewoong OH(KRISO), Eivind Mong(CCG), Youngjae Kim(MOF/ROK),

Taehee Kim(TheProst)

Proposed permitted values for the S-201 data model

# Summary

## Purpose of the document

ARM12 decided to address the permitted value for the enumerated types in the S-201 data model. Korea surveyed the status of classified values used in the Aton information system. This document describes the surveyed result and proposes to discuss permitted values.

## Related documents

* S-201 AtoN Product Specification, Edition 1.0.0
* S-100 IHO Universal Hydrographic Data Model, Edition 4.0, December 2018

# Background

Since the S-201 data model was from the Aton model of S-57 ENC, the enumerated value is same with ENC. There are unused enumerated values in the S-201 data model. It’s raised to address permitted values to customize the model and prevent human errors when encoding Aton information.

# Discussion

## Survey of enumerated value used in Korea

Korea surveyed the status of classified values used in the Aton information system and ENC. The surveyed results were attached as the separated document. (See the presentation file)

## Discussion of permitted values

The concept of permitted value is to limit using the enumerated value from the full list. It is a widely used method when developing S-100 based product specification. S-201 model has 38 enumerated type. Figure 1 shows several examples in the surveyed result. S-201 TG would be invited to discuss how to apply the permitted value in the S-201 data model.

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Figure 1. Survey of enumerated value used in Korea

# Action requested of the Committee

The Committee is requested to:

1. Note this paper
2. Discuss the permitted value for enumerated attribute in the S-201 data model

1. Input document number, to be assigned by the Committee Secretary [↑](#footnote-ref-1)
2. Leave open if uncertain [↑](#footnote-ref-2)