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

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

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Service scenario for the provision of AtoN information

# Summary

## Purpose of the document

The IALA ARM committee developed the S-201 Aton Product Specification and started to discuss the S-125 development. The task group for the technical service specification was organized under the ENAV committee. Some Aton authority is transitioning their system considering the S-201 data model and future service. This document describes the basic concept for the discussion of the provision of Aton information.

## Related documents

* S-201 AtoN Product Specification, Edition 1.0.0
* S-100 IHO Universal Hydrographic Data Model, Edition 4.0, December 2018
* Response on IALA Liaison paper on S-125\_FINAL
* ENAV27 liaison note to ARM on technical service specifications for the provision of AtoN information

# Background

ARM12 wrote the vision outline for developing the S-125 Marine Navigational Services Product Specification and the service concept was introduced in the document. The S-201 is a standard for exchanging all information related to any AtoN including metadata like maintenance schedules, equipment types (such as battery and bulb types). S-201 is intended to be the means of communicating such information within an AtoN organization or between AtoN organization. S-125 meanwhile, would be a derivative of S-201 service as the public facing information for use in ECDIS/ECS. IALA is considering the Aton service as a new maritime service in terms of e-Navigation.

# Discussion

## Service scenario of providing S-201 data

As the S-201 data includes all information of Aton, it can be used for the purpose of exchanging Aton information between Aton authority and hydrographic office. The S-201 product specification permits to create dataset as New dataset, New edition and Cancellation, but don’t allow to issue delta change. Figure 1 shows the concept of providing the S-201 data to hydrographic office. The S-201 data can be issued as new dataset and provided weekly.

The hydrographic office would manage the received dataset and identifies what changes have been occurred.

As the S-201 data model includes detailed information for the management purpose, the S-201 data issued from the Aton database should be filtered when providing the data to hydrographic office.

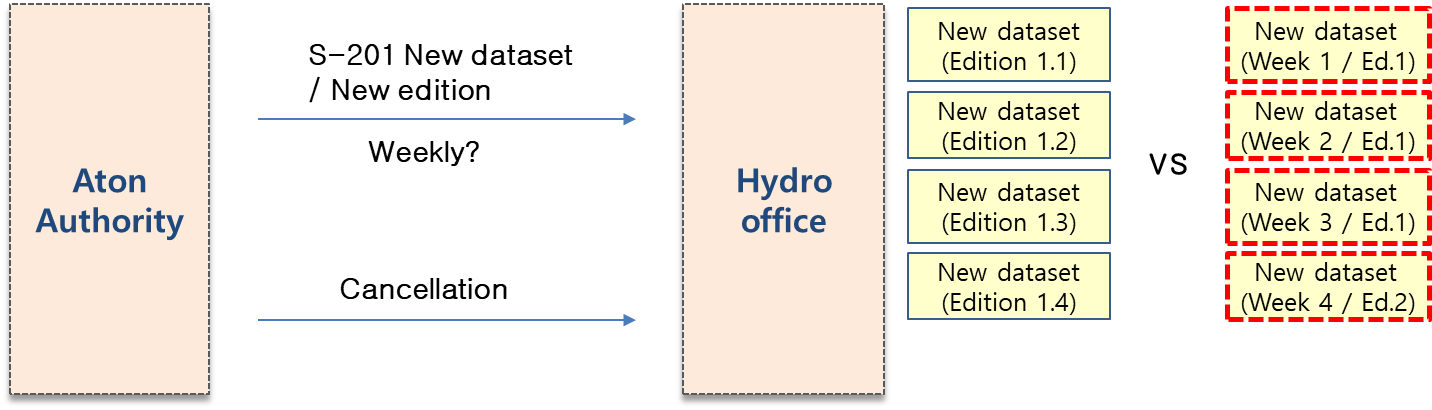


Figure 1. Concept of S-201 data service

## Service scenario of providing S-125 data

S-125 would be the public facing information for use in ECDIS/ECS and equivalent with the extended list of Aton. Various service scenario could be expected. In case of the outages, S-124 navigation warning would be is issued. When Aton authority confirms the situation, S-125 Aton change is issued and the S-124 NW is managed in-force. After the S-125 restore data would be issued, the S-124 NW will be cancelled. The S-124 data and S-125 data might be overlapped with the ENC, then it would be operated as a harmonized way using the S-100 interoperability catalogue.

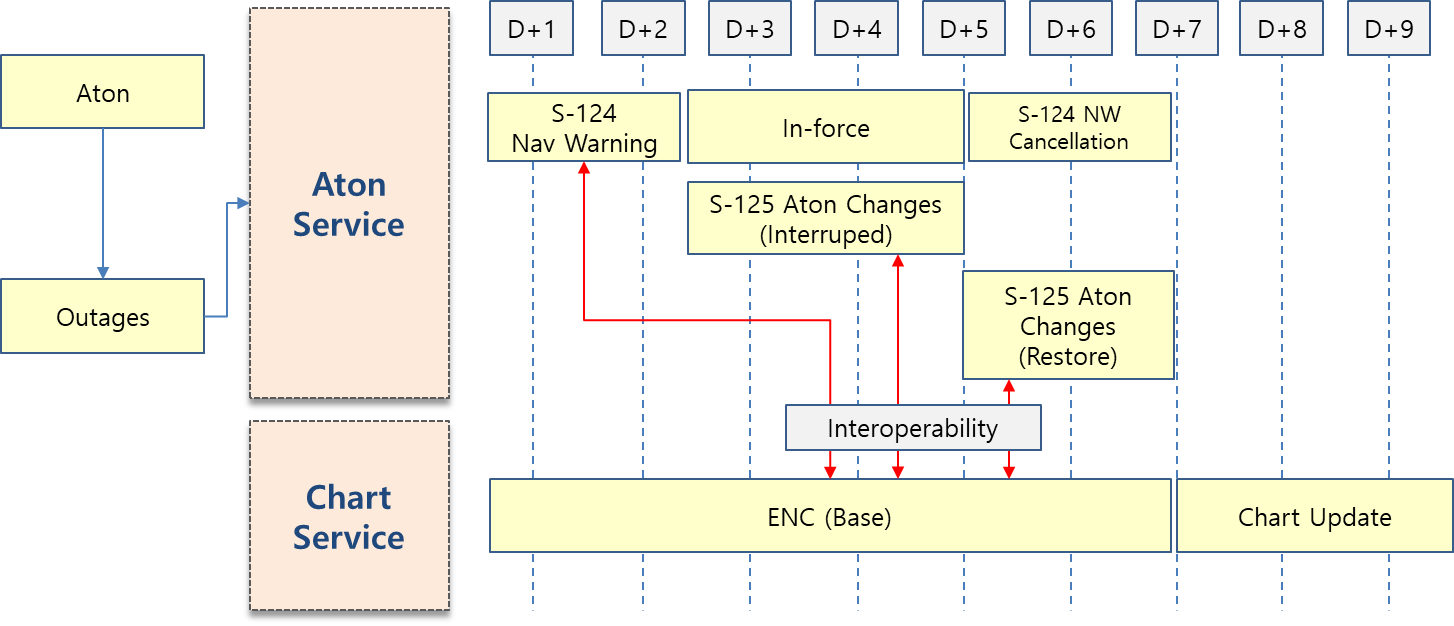


Figure 2. Concept of S-125 data service in case of outages

Next scenario is to issue S-125 Aton correction or change. The S-125 changes will be harmonized by interoperability and valid till the chart update arrives.

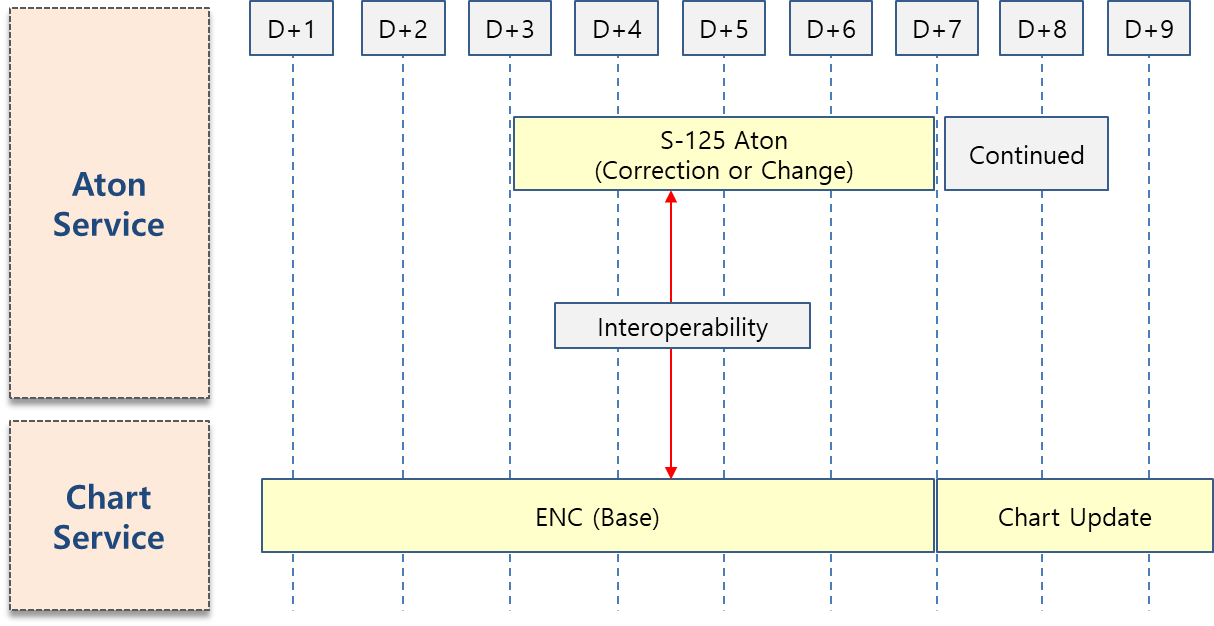


Figure 3. Concept of S-125 data service in case of outages

Above are some of the scenarios that we could expect. The S-201 task group would be invited to discuss whether the scenarios are appropriate and which scenario could be added.

# Action requested of the Committee

The Committee is requested to:

1. Note this paper
2. Discuss the proposed scenarios for the provision of Aton information

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