Input paper: [[1]](#footnote-2) ARM18-8.4.7

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

**X** ARM **□** ENG **□**  PAP **X** Input

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Agenda item [[2]](#footnote-3) 8.4

Technical Domain / Task Number 2 7.1.10

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Development of IALA questionnaire system based on S-200 testbed

# Summary

For modernization of the IALA questionnaire, S-200 testbed was used to develop a web-based questionnaire issued by S-200 data model and an automatic DB input function for response results. To test the functionality of the IALA questionnaire system, a temporary questionnaire was created on the topic of Atons and the function was reviewed.

## Purpose of the document

The team would like to share the results of the pilot operation of the IALA questionnaire system and discuss future survey topics and operation plans.

# Background

In order to solve the problems of the IALA questionnaire, the IALA Aton Portal concept was proposed using the S-200 test bed, S-201 product specification and MRN.

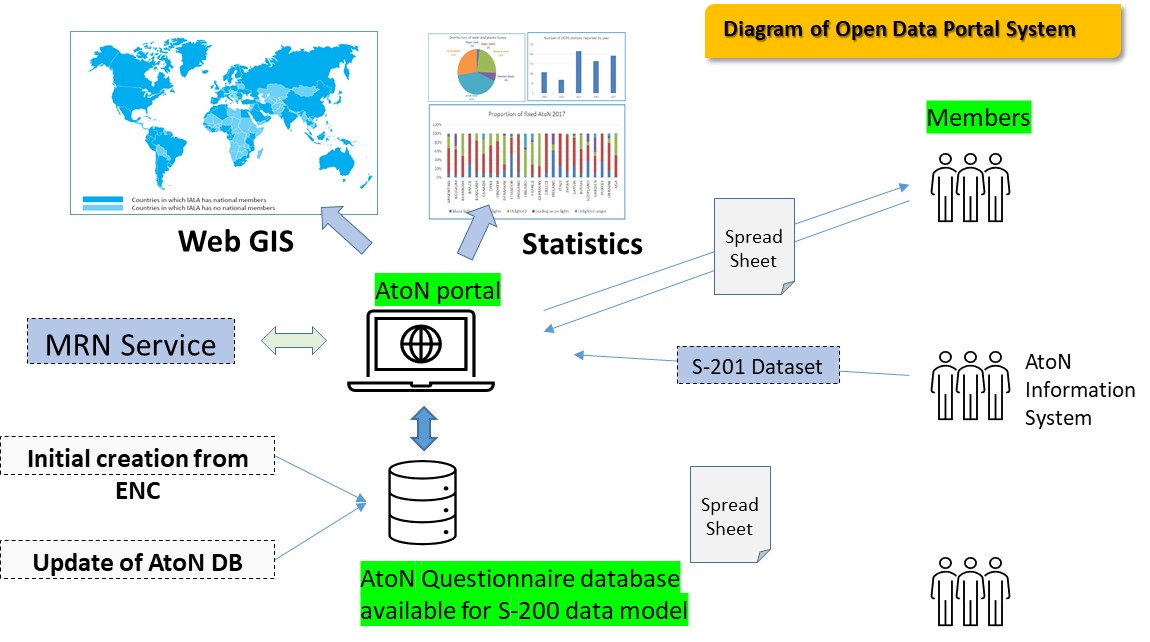


Fig. 1. Concept of proposed IALA Aton Poral

# IALA Questionnare system

The IALA questionnaire system has the function of creating a web-based questionnaire and access link by matching survey questions with a feature catalogue based on the S-200 data model using the geospatial database of the S-200 test bed. When a survey respondent fills out a questionnaire, a function has been developed to enable analysis of survey results through S-200 GML data generation and automatic spatial DB input. Major function and procedure of the IALA questionnaire system survey system was introduced at the plenary session of the ARM17 meeting.

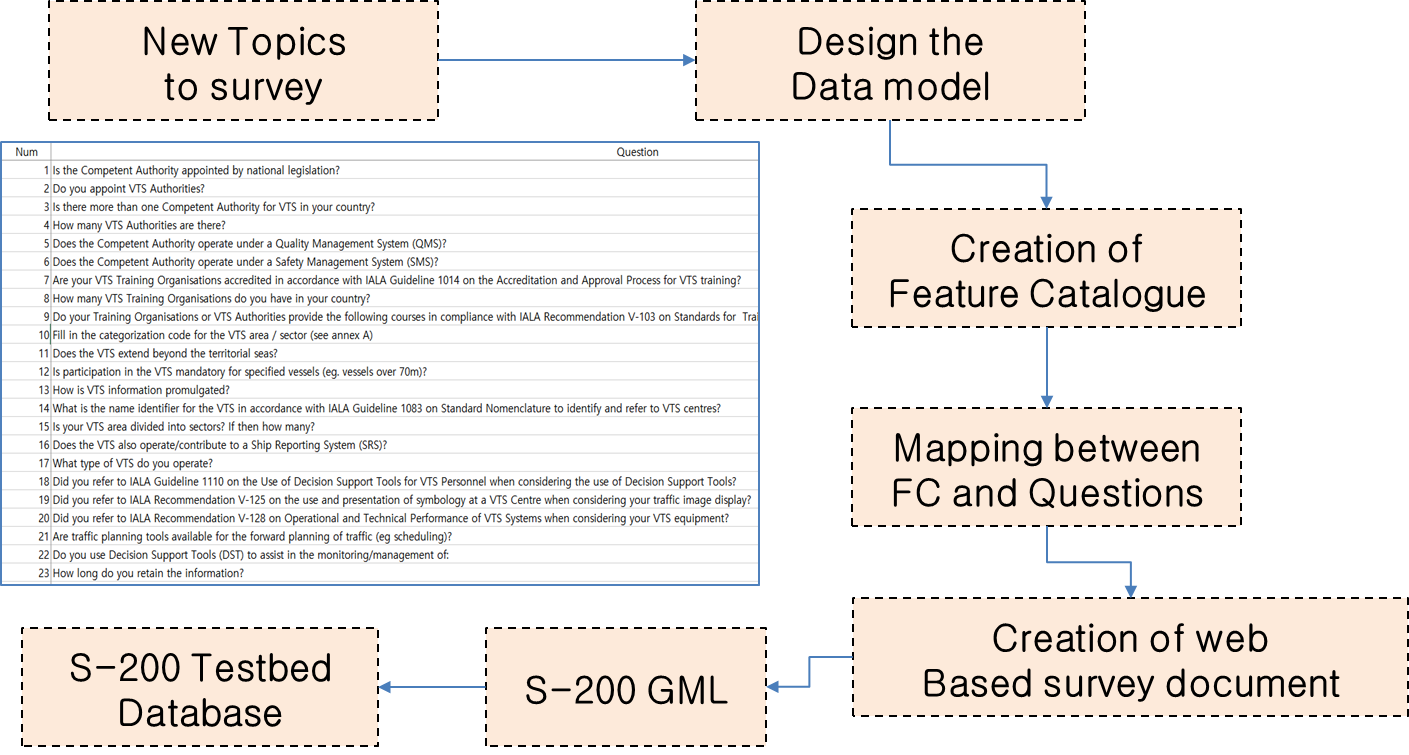


Fig. 2 Procedure of IALA questionnaire

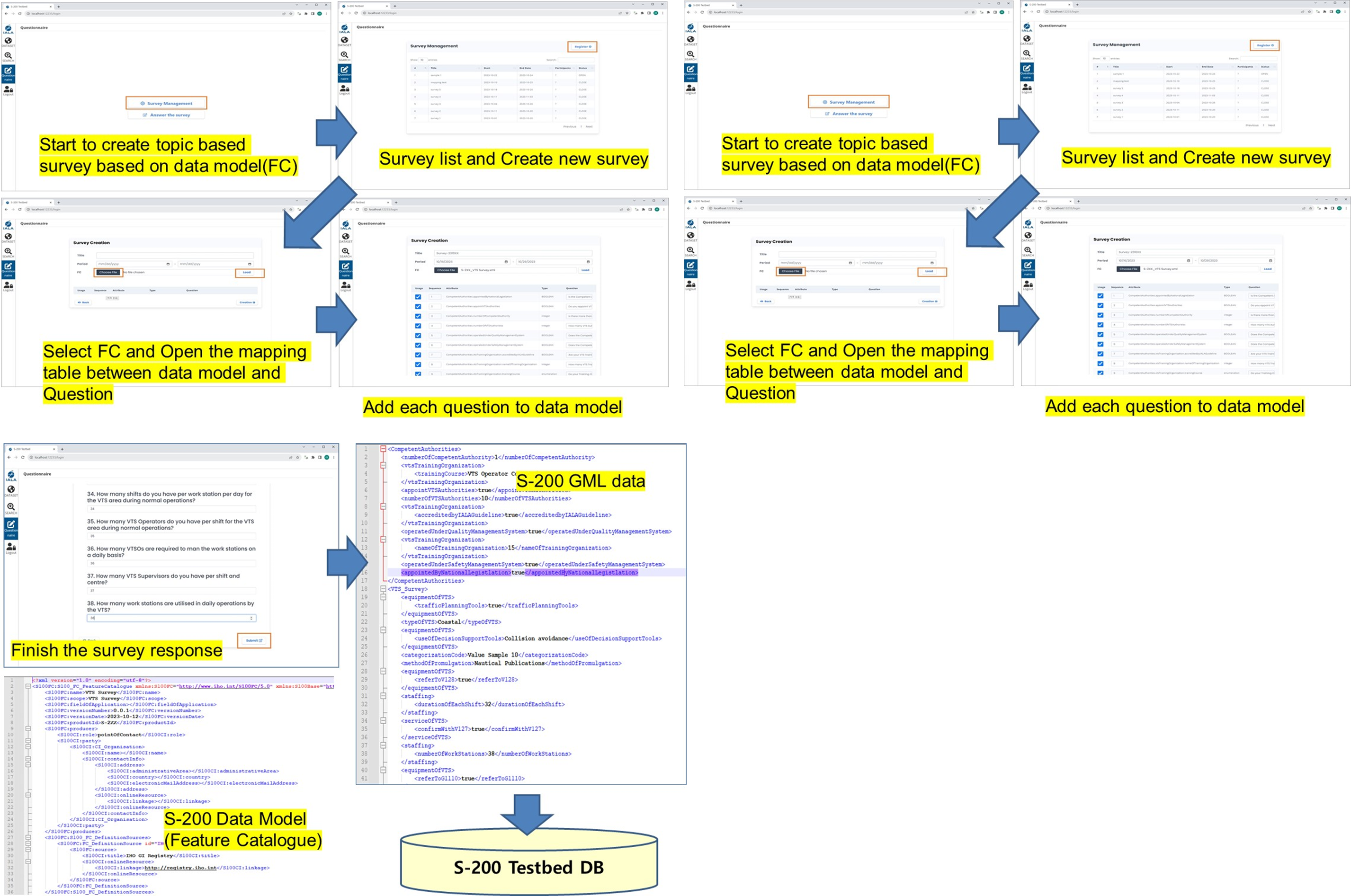


Fig. 3 Demonstration of IALA questionnaire system

# Pilot operation of IALA questionnaire system

The team attempted to pilot the IALA questionnaire system using the survey contents in Aton domain. Since basic information about Aton can be collected through S-201 dataset, a data model and survey items are created for a pilot survey on the Aton management organization and Aton information system. The results of pilot operation will be reported to ARM18.

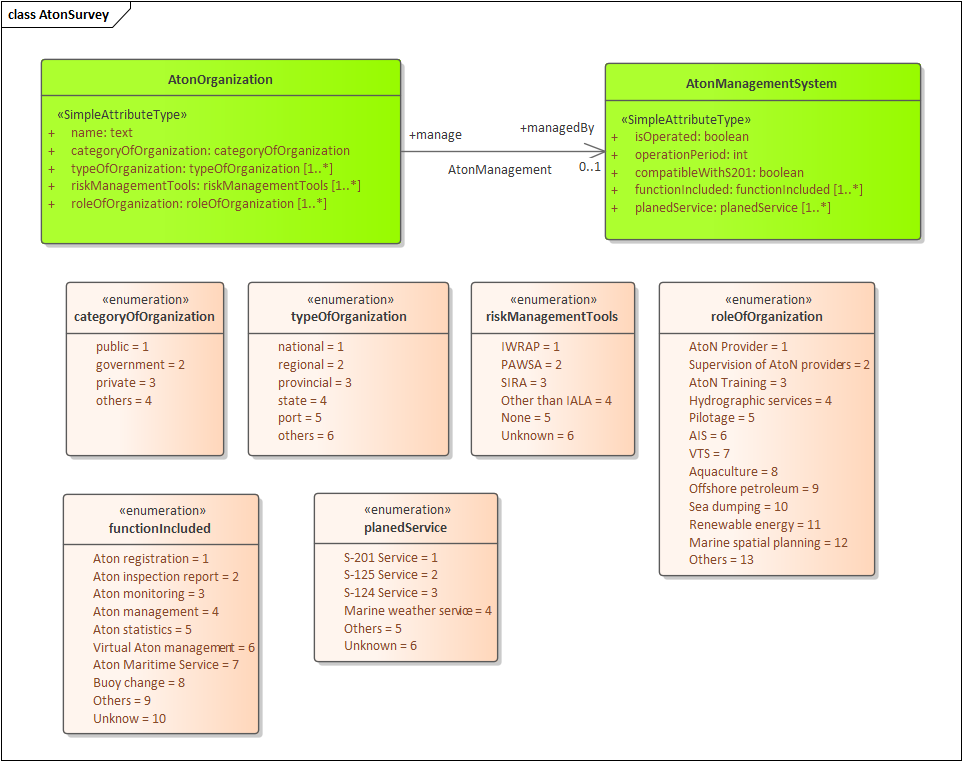


Fig. 4 Data Model of Aton management (Organization, Information system)

|  |  |  |  |
| --- | --- | --- | --- |
| Num | Feature type | Attribute type | Question |
| 1 | AtonOrganization | Name | What is your organization name? |
| 2 | AtonOrganization | typeOfOrganization | What type is your organization? |
| 3 | AtonOrganization | typeOfAuthority | What type is authority? |
| 4 | AtonOrganization | riskManagementTools | What is your risk management tools? |
| 5 | AtonOrganization | roleOfOrganization | Which role do your organization have? |
| 6 | AtonManagementSystem | isOperated | Do you operate Aton management system? |
| 7 | AtonManagementSystem | operationPeriod | How long has the Aton management system been operated? |
| 8 | AtonManagementSystem | compatibleWithS201 | The Aton management system is compatible with S-201? |
| 9 | AtonManagementSystem | functionIncluded | What function is included in the Aton management system? |
| 10 | AtonManagementSystem | planedService | Which maritime service do you planed with the Aton management system? |

# Proposed future plan

In order to operate the IALA questionnaire system, it is necessary to review and select survey topics to be investigated with time series in the future. In relation to the recent update of the survey items from the VTS Committee, it would be necessary to discuss survey topics to be investigated annually as follows.

* Survey items on general topics related to Aton
* Survey items on Aton heritage
* Survey items on PNT domain
* Survey items on maritime communication network
* Survey items on status and development of maritime service

It’s proposed to organize a special group to discuss survey contents and operation plan of IALA questionnaire system.

# Action requested of the Committee

The Committee is requested to note the updates of IALA Questionnaire system and take actions as appropriate.

1. Input document number, to be assigned by the Committee Secretary [↑](#footnote-ref-2)
2. Leave open if uncertain [↑](#footnote-ref-3)