S-100 Exchange Set Model

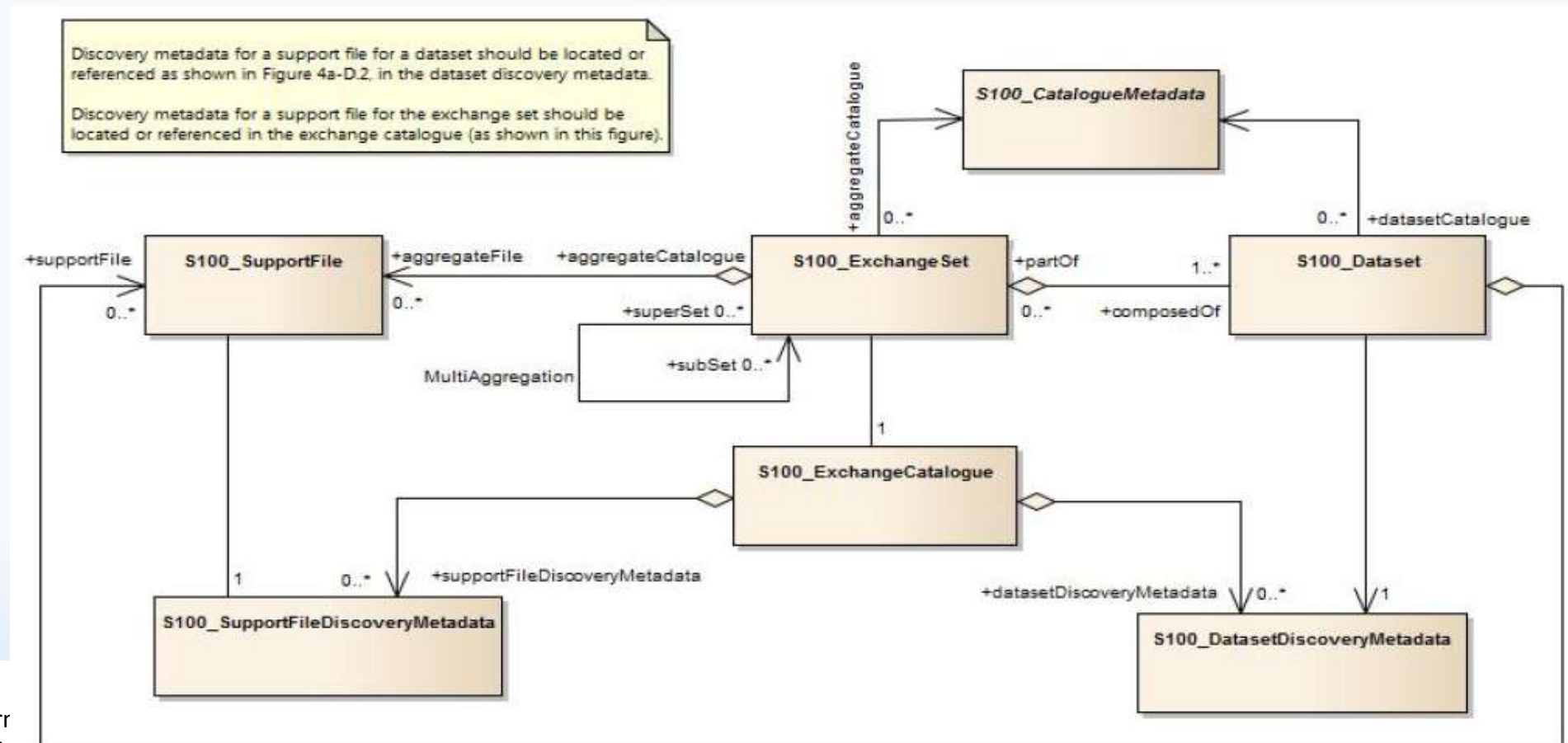Presented by KHOA

Background

- S-100 and Product specifications
  - Revised review process
  - Test in various ways

- S-100 Exchange Set model
  - Used to distribute S-100 data
  - Need to discuss if the existing S-100 Exchange Set model could meet every requirement considering the scenario for S-100 data distribution

Overview of S-100 Exchange set

- **Structure of Exchange set**
  - a container that combines all the elements needed for the exchange of S-100 data

Use Case of S-100 Exchange Set

- Purpose of Exchange set
  - To create a package required for exchanging S-100 datasets, support files and catalogues

- Stakeholders for exchanging S-100 data
  - From HO to HO (S-100 data exchange between HOs)
  - From HO to IHO/RHC (S-100 data exchange from HO to IHO/RHC)
  - From HO to RENC (S-100 data exchange from HO to RENC)
  - From HO to Distribution Agent (S-100 data exchange from HO to Distribution Agent)
  - From RENC to VAR (S-100 data exchange from RENC to VAR)
  - From VAR to Distribution Agent (S-100 data exchange from VAR to Distribution Agent)
  - From Distribution Agent to Ship (ECDIS) (S-100 data exchange from Distribution Agent to Ship)
  - E-Navigation Service, Others

Use Case of S-100 Exchange Set

- Use case
  - Distribution of S-100 dataset for a single Product Specification
  - Distribution of S-100 dataset for multiple Product Specifications
  - Update of S-100 dataset
  - Update of support files
  - Deletion of S-100 dataset and support file
  - New edition of catalogue files such as feature, portrayal and interoperability
  - Update of catalogue files such as feature, portrayal and interoperability
  - Deletion of catalogue files such as feature, portrayal and interoperability
  - Others

It is necessary to investigate the distribution use case of S-100 packages including datasets, support files and catalogues and review if the existing Exchange Set model meets all requirements.

Conclusions

- The Exchange Set model
  - used to create S-100 exchange package for datasets, support files and catalogues
  - necessary to review the S-100 Exchange Set model considering predictable distribution scenario of S-100 data

- Study on the review of Exchange set model
  - KHOA plans to investigate the various scenario of S-100 data distribution and conduct a gap analysis on the existing S-100 Exchange Set model
  - The research results will be reported to the next S-100WG meeting and the revision proposal on the Exchange Set model will be submitted if needed.

Action Required of S-100WG

- The S-100WG4 is invited to:
  - Note this paper.
  - Consider the task of reviewing S-100 Exchange Set model to be included in the next S-100WG meeting agenda and invite relevant experts if accepted.
  - Request any considerations and/or recommendations for this task if any.