

16th Meeting of the Hydrographic Services and Standards Committee

Report of the S-100 Security Scheme PT



IHO S-100 SECURITY SCHEME PT

International Hydrographic Organization **Chair:** Tom Mellor (UK)

Vice Chair: Michael Andrew (AU)

Sec: Yong Baek (IHO)

Membership

IHO Secretariate
Technical Director, Assistant Director

Member States
UK, Australia, Republic of Korea, France, China

Expert Contributors
Furuno, 7Cs, UK Cyber Ship Lab, Primar

Meetings

1st VTC meeting Oct 2023

On going monthly VTC meetings







PRINCIPAL ACTIVITIES AND ACHIEVEMENTS

Activities	Description
Development of work plan	PT have developed a comprehensive work plan to deliver assigned tasks
Interim OEM and Data server agreement	The existing OEM and Data Server agreements modified to include clause to limit duration and allow for termination.
Secured IC-ENC funding for legal support	UK lawyers Burgess Salmon have been appointed to support IHO drafting new S-63/S-100 OEM and Data Server agreements that are enforceable, contain reporting, rights of audit and termination clauses.
Application Process & Procedures	Drafted S-63 and S-100 OEM interim process for issuing M_IDs and M_Keys



PROBLEMS OR OUTSTANDING ISSUES

Problems/Issues	Description
S-63 M_ID &M_KEY delivery	Current handling of proprietary data is not cyber secure, proposal from expert contributor to improve process passed to S-100 WG for consideration
No OEM, Data Server appointment criteria	Currently there is no criteria for OEM or Data Server appointment. This is a huge risk and PT are working on providing an application process and appointment methodology for use by IHO.
Revocation of certification	It is necessary to have a revocation process in case Data Server private key is compromised or in the case of termination of agreement.
Commercial terms / fees	The IHO need to agree a fee structure to include in agreements. S-100 ICE PT and IRCC Fund Generation PT collaboration required.
Approvals	The timeline for delivery of the IHO Security Scheme appointment and ongoing management process is tight. There are new elements which will need approval fees, appointment criteria, etc. HSSC should consider appropriate approval process for decisions in time.



PROBLEMS OR OUTSTANDING ISSUES

Problems/Issues	Description
Application online platform	To process, manage and approve/reject applications for the protection scheme participants, it's recommended that the IHO extend the scope of the IHO Portal. An online payment function to collect administration fees and ongoing payment is required
Website information	Urgent need to publicly clarify purpose of the IHO security scheme, clearly set out timeframes for appointment and the detailed steps in the approval process

RECOMMENDATIONS

- Approval of PT outputs:
 - There are tight timeframes we need to work to so IHO can appoint S-100 OEMs and Data Servers.
 - The updated agreement is being drafted by legal experts so there would be no value in delaying implementation.
 - The process changes needed at the IHO will be minor and will support the new agreement by collecting better information about participants.
 - Recommend that IHO Technical Director be granted permission by HSSC to accept new IHO agreements if appropriate when they have been drafted by UK lawyers Burgess Salmon(IC-ENC project).

IHO FUTURE WORK PROGRAMME

Task	Description
E	Provide IHO WGs with recommendations on technical developments necessary to
	support the IHO security schemes
F	Development of specific guidance on the implementation of S-100 part 15 to
	support implementation and adherence to the IHO agreements



IHO ACTIONS REQUESTED FROM HSSC

- 1. Note the report of S-100 Security Scheme
- 2. Approve the two new tasks added to the work plan for 24/25
- 3. Note required collaboration with S-100 ICE PT and IRCC Fund Generation PT
- 4. Approve online application function within IHO Portal and special fund for development.
- 5. Consider appropriate decision process for urgent issue resolution
- 6. Approve the recommendation for IHO technical Director to have final sign off on OEM and Data Server agreements and IHO process changes