



16th Meeting of the Hydrographic Services and Standards Committee

Report of the S-100 Security Scheme PT

HSSC-16 Tokyo, Japan 27 - 31 May 2024



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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 Technical Director, Security Scheme Administrator

Member States

UK, Australia, Republic of Korea, France, China

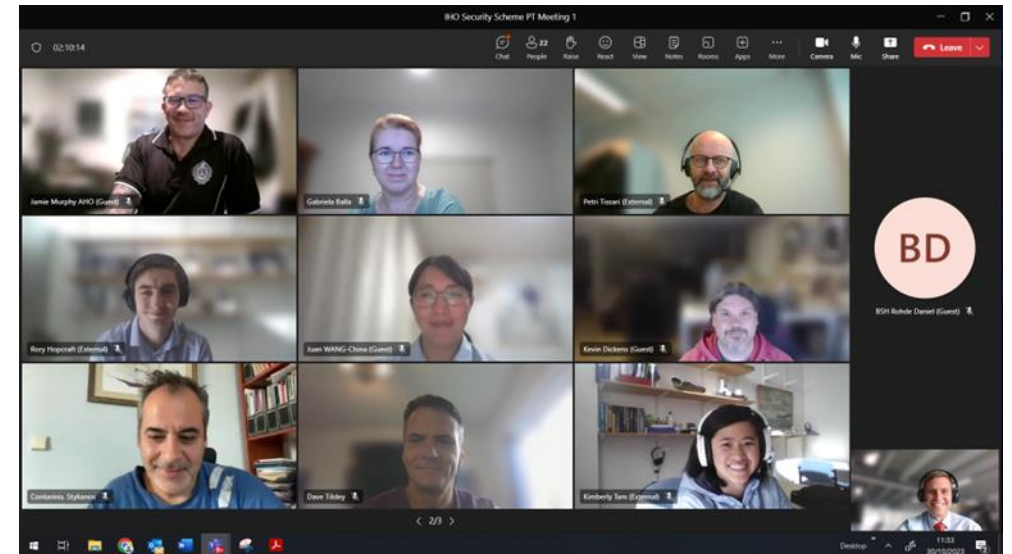
Expert Contributors

Furuno, 7Cs, UK Cyber Ship Lab, Primar

Meetings

1st VTC meeting Oct 2023

On going monthly VTC meetings





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PRINCIPAL ACTIVITIES AND ACHIEVEMENTS

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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



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PROBLEMS OR OUTSTANDING ISSUES

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Problems/Issues	Description
S-63 M_ID &M_KEY delivery	Current handling of proprietary data is not cyber secure, proposal from 7Cs 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
ICE PT and IRCC S-100 funding PT collaboration required	Co-ordination 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



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RECOMMENDATIONS

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- 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 when they have been drafted by Burgess Salmon.



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FUTURE WORK PROGRAMME

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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



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ACTIONS REQUESTED FROM HSSC

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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 ICE PT and IRCC S-100 funding PT
4. Approve the recommendation for IHO technical Director to have final sign off on OEM and Data Server agreements and IHO process changes