CSBWG Work Item G

Clarify support identified by current Trusted Nodes needed for current and future Trusted Nodes

Submitted by Guillaume Morissette

SUMMARY

Executive Summary: This document provides details on activities conducted related to …

Action to be taken: See below

Related documents: CSBWG15 Report, B-12 Specification, IHR Article (To be published)

Work Item Team Members:
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Work Item Background

This work item is necessary to adequately target the needs of HHOs and MS with appropriate software tools. This is a necessary step to provide a solid offering that tackles the uniques challenges that arise in the application of collaborative bathymetry.

Current Work Item Purpose

The current state of affairs with regards to CSB-oriented software is based around the building of a solid value proposition to CSB stakeholders. As such, multiple value-added scenarios and processing tools are being developed to support the deployment of trusted nodes, such as automated processing pipelines, satellite-derived bathymetry calibration, seaway monitoring, and more.

Work Item Update

Work Item	**Title**	**Priority** *H-high M-med L-low*	**Next milestone**	**Start Date**	**End Date**	**Status** *P-planned O-ongoing C-completed S-Superseded*	**Remarks**
1	Release of CSB uncertainty model article	H	Finish comparative analysis of various dataloggers	June 2024	January 2025	O	A draft is available upon request

2	Release of CSB toolkit / uncertainty model open-source reference implementation	H	Gather feedback on beta release	January 2024	October 2024	C	A reference implementation is available here: https://pypi.org/project/csbtoolkit/

Progress Since Prior Meeting

Major progress has been done on an uncertainty model for CSB. An IHR article is being written to serve as a reference for Work Item A.

A reference implementation has been released as open-source.

An open-source toolkit has been released to provide simple functions for georeferencing soundings with regards to the WGS84 ellipsoid, and provide out-of-the-box motion compensation functionality.

Reporting

Deliverables and Issues can be raised on GitHub to provide trackable requests and answers from the community.

Planned Work & Timeline

The article should be complete by January and only mostly lacks visual material, and part of a comparative analysis between dataloggers.

Issues/Risks/Concerns/Barriers

Lack of time from volunteers

Proposed Changes to Work Item

N/A

Action to CSBWG

The CSBWG is requested to:

A. **Sollicitate datalogger manufacturers to provide hardware specifications to include into a comparative analysis of available dataloggers using the common uncertainty model.**