From: IEEE 1722 Working Group
To: NAV Alliance
Date: 26May2020
Re: Request for 1722 subtype

Dear NAV Alliance:

Thank you for your presentation and request for a subtype from IEEE 1722 at our meeting on 7Apr2020. We understand your desire to quickly establish a standard. We have the same desire and are putting in place mechanisms to ensure our work on IEEE 1722b progresses much faster than in the past.

The typical approach for establishing a new subtype in IEEE 1722 is for members of NAV Alliance to join IEEE 1722 and work together on solving your transport format needs. This could be a separate IEEE 1722c project that runs in parallel with IEEE 1722b such that it could finish independently of IEEE 1722b. This allows each project to run on whatever schedule the project working group desires and that meets IEEE standards requirements. In the end, it would be a full IEEE standard, with all the attendant benefits of the IEEE standardization process.

The IEEE 1722b project is open to allocating the NAV Alliance its own subtype. We anticipate that this approach for creating a new format would proceed in two phases:

- *Phase 1: Development of a NAV Alliance approved format*. In this phase the NAV Alliance works to create a standard format for its needs. All work is done within the NAV Alliance, under the NAV Alliance and its members direction and management, with NAV Alliance and its members resources, and with a schedule determined by the NAV Alliance.
- *Phase 2*: *Contribution and Standardization as an official part of the IEEE 1722 standard.* In this phase, the NAV Alliance would contribute the format developed in Phase 1 for formal standardization within the IEEE 1722 standard. Initiation of Phase 2 would start when the NAV Alliance is ready to have their work standardized.

With this two-phase framework in mind, we have the following requests as part of issuing a subtype to the NAV Alliance:

1. Publish the final document produced in Phase 1 so that it is publicly available for a reasonable cost. This matches current IEEE policy regarding external documents referenced from an IEEE standard.

2. Share drafts of format headers in the Phase 1 document as it is developed, for review within the IEEE 1722 working group. We would like to help maintain as much commonality between the NAV Alliance format and current/future formats established in IEEE 1722. In particular, if the NAV Alliance creates a new header for its format(s), we would like to review the header as we too are working on a new header. We would like to make sure these variations are as common as possible and can work together. The

IEEE 1722 working group will do its best to provide a quick turn-a-round on reviews of all drafts provided by the NAV Alliance. The smaller the draft, the quicker the review, so we encourage lots of small, incremental changes for review. In any case, the IEEE 1722 working group commits to a maximum four week turn-a-round on reviews of all drafts provided by the NAV Alliance.

Working together to review drafts has the additional benefit of making Phase 2 much easier, where we incorporate the NAV Alliance format(s) into a future IEEE 1722 standard. Also, this process will provide the NAV Alliance with the 1722 working group's standards experience to ensure forward and backward compatibility.

3. If you are creating new formats for data types already supported in IEEE 1722-2016 (like audio, video, command & control, etc.) please request an (audio, video, command & control, etc.) format subtype for your use from IEEE 1722. This will make incorporation of your work into a future IEEE 1722 standard easier and less confusing to implementers of the IEEE 1722 standard.

We note that what you do below the header and format subtypes, i.e., the specific data-type transport formats, does not need to be shared with IEEE 1722 unless you wish to get our feedback. We will treat any draft standards from you the same way our draft standards are handled – under a password protected area of our website.

Please let us know how you wish to move forward.

Sincerely,
The IEEE 1722 Working Group