|  |  |
| --- | --- |
| Project | **Specification of Sensor Interface for Cyber and Physical World**  <https://sagroups.ieee.org/2888/ **>>** |
| Title | **Proposal of common class data types** |
| DCN | **2888-20-0028-00-0001** |
| Date Submitted | **July 20, 2020** |
| Source(s) | Kyoungro Yoon [yoonk@konkuk.ac.kr](mailto:yoonk@konkuk.ac.kr) (Konkuk University)  Shin Kim [new.xin22@gmail.com](mailto:new.xin22@gmail.com) (Konkuk University)  Yegi Lee [zxcasd312@naver.com](mailto:zxcasd312@naver.com) (Konkuk University)  Sang-Kyun Kim [goldmunt@gmail.com](mailto:goldmunt@gmail.com) (Myoungji University)  Sangkwon Jeong [ceo@joyfun.kr](mailto:ceo@joyfun.kr) (Joyfun) |
| Re: |  |
| Abstract | Proposal of common classes for sensor interface definitions |
| Purpose | To improve P2888.1 D1 |
| Notice | This document has been prepared to assist the IEEE 2888 Working Group. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein. |
| Release | The contributor grants a free, irrevocable license to the IEEE to incorporate material contained in this contribution, and any modifications thereof, in the creation of an IEEE Standards publication; to copyright in the IEEE’s name any IEEE Standards publication even though it may include portions of this contribution; and at the IEEE’s sole discretion to permit others to reproduce in whole or in part the resulting IEEE Standards publication. The contributor also acknowledges and accepts that IEEE 2888 may make this contribution public. |
| Patent Policy | The contributor is familiar with IEEE patent policy, as stated in [Section 6 of the IEEE-SA Standards Board bylaws](http://standards.ieee.org/guides/opman/sect6.html#6.3) <[http://standards.ieee.org/guides/bylaws/sect6-7.html#6](http://127.0.0.1:4664/cache?event_id=757737&schema_id=1&s=5X0vID10lu_E6yrIkWkNd4Wz2H8&q=hancock)> and in *Understanding Patent Issues During IEEE Standards Development* <http://standards.ieee.org/board/pat/faq.pdf> |

* 1. Common class
     1. General

This clause defines data format of classes which shall be used commonly in defining individual sensor types. These common types can be used in terms of referencing the definition in other classes.

* + - 1. Integer3DVector
         1. General

Should be added.

* + - * 1. Syntax

|  |
| --- |
| "Integer3DVector" : {  "title" : "Integer3DVector",  "type" : "object",  "properties" : {  "X" : {"type" : "integer"},  "Y" : {"type" : "integer"}  "Z" : {"type" : "integer"}  },  } |

* + - * 1. Semantics

Should be added.

* + - * 1. Examples

Should be added.

* + - 1. Float3DVector
         1. General

Should be added.

* + - * 1. Syntax

|  |
| --- |
| "Float3DVector" : {  "title" : "Float3DVector",  "type" : "object",  "properties" : {  "X" : {"type" : "number"},  "Y" : {"type" : "number"}  "Z" : {"type" : "number"}  },  } |

* + - * 1. Semantics

Should be added.

* + - * 1. Examples

Should be added.

* + - 1. Float4DVector
         1. General

Should be added.

* + - * 1. Syntax

|  |
| --- |
| "Float4DVector" : {  "title" : "Float4DVector",  "type" : "object",  "properties" : {  "W" : {"type" : "number"},  "X" : {"type" : "number"},  "Y" : {"type" : "number"}  "Z" : {"type" : "number"}  },  } |

* + - * 1. Semantics

Should be added.

* + - * 1. Examples

Should be added.