|  |  |
| --- | --- |
| Project | **Standard for Actuator Interface for Cyber and Physical World**<https://sagroups.ieee.org/2888/ **>** |
| Title | **Common Class for Actuator Interface** |
| DCN | **2888-22-0013-00-0002** |
| Date Submitted | **Jan 31, 2022** |
| Source(s) | Tai-Gil Kwon tgkwon@keti.re.kr (Korea Electronics Technology Institute),Changseok Yoon csyoon@keti.re.kr (Korea Electronics Technology Institute),Tae-Beom Lim tblim@keti.re.kr (Korea Electronics Technology Institute),Kwanghyun Ro khrho@hansung.ac.kr (Hansung University) |
| Re: |  |
| Abstract | Proposal of common classes for actuator interface |
| Purpose | To start a discussion on the purpose of the standard |
| 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> |

# Introduction

This contribution proposes the common class for interfacing actuator command.

# Data formats for Interfacing Actuators

## **4.2 Common class**

4.2.1 General

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

### **….**

### **4.2.6 Display Mode Type**

4.2.6.1 General

This sub-clause specifies a data type, which describes the type of display mode.

4.2.6.2 Syntax

|  |
| --- |
| "displaymodeType": { "type": "string", "enum": [ "text\_mode", "graphics\_mode"] }, |

* + - 1. Semantics

The semantics of the displaymodeType:

|  |  |
| --- | --- |
| *Name* | *Definition* |
| text\_mode | A display mode in which content is represented on a display screen in terms of characters. The display screen is divided into rows and columns. The font size, foreground color, and background color for text are fixed. |
| graphics\_mode | A display mode in which content is represented on a display screen in terms of individual pixels. The display screen is divided into pixels vertically and horizontally. The font size, foreground color, and background color for text are variable. |