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| Project | **Standard for Actuator Interface for Cyber and Physical World**<https://sagroups.ieee.org/2888/ **>** |
| Title | **Application Programming Interfaces for Scent Actuator** |
| DCN | **2888-22-0020-00-0002** |
| Date Submitted | **Feb. 14, 2022** |
| Source(s) | Yegi Lee zxcasd312@naver.com (Konkuk University)Shin Kim new.xin22@gmail.com (Konkuk University)Kyoungro Yoon yoonk@konkuk.ac.kr (Konkuk University) |
| Re: |  |
| Abstract | This contribution proposes the application programming interfaces for scent actuator. |
| Purpose | To start discussion on purpose of the standard |
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# Introduction

This contribution proposes the application programming interfaces for scent actuator.

# API for individual actuators

Table 1 – Scent API

|  |
| --- |
| Nested Classes |
| Modifier and Type | Method and Description |
|  |  |
| Constructor |
| Constructor and Description |
| Scent() |
| *Default constructor.* |
|  |
| Scent(String id) |
|  |
| Scent(String id, String serverIPAddress, integer serverPort) |
|  |
| Fields |
| Modifier and Type | Field and Description |
|  |  |
| Methods |
| Modifier and Type | Method and Description |
| int | setScentComplexCommand(scentType scent, int intensity) |
|  | *This function sets a command to designate a scent type and control the intensity of the scent actuator. This function shall include a scent parameter defined by scentType from IEEE2888.2(Section 4.2.4) with the intensity parameter. If the command succeeds, this function returns 1; otherwise, it returns 0.* |
|  |  |
| int | setScentType(scentType scent) |
|  | *This function sets a command to designate a scent type of the scent actuator. This function shall include a scent parameter defined by scentType from IEEE2888.2(Section 4.2.4). If the command succeeds, this function returns 1; otherwise, it returns 0.* |
|  |  |
| Int | setScentIntensity(int intensity) |
|  | *This function sets a command to control the intensity of scent emissions on the scent actuator. This function shall include the intensity parameter. If the command succeeds, this function returns 1; otherwise, it returns 0.* |
|  |  |