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| Title | **Data Formats for Olfactory Related Actuator** |
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| Source(s) | Yegi Lee [zxcasd312@naver.com](mailto:zxcasd312@naver.com) (Konkuk University)  Shin Kim [new.xin22@gmail.com](mailto:new.xin22@gmail.com) (Konkuk University)  Eunji Choi [c950707@gmail.com](mailto:c950707@gmail.com) (Konkuk University)  Kyoungro Yoon [yoonk@konkuk.ac.kr](mailto:yoonk@konkuk.ac.kr) (Konkuk University) |
| Re: |  |
| Abstract | This contribution proposes syntaxes, semantics, and examples for representing olfactory related actuator information in the physical world in a standardized data format. |
| Purpose | To start discussion on purpose of the standard |
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# Introduction

This contribution proposes actuator command types which can generate olfactory related effect. It contains syntaxes, semantics, and examples for representing olfactory related actuator information in the physical world in a standardized data format.

2 Data formats for interfacing actuator command

* 1. Scent actuator
     1. General

This sub-clause specifies an actuator command type which can generate a scent effect.

* + 1. Syntax

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| --- |
| "scentCommandData": {  "type": "object",  "properties": {  "scent": {  "$ref": "#/definitions/scentType"  },  "intensity": {  "type": "integer",  "minimum": 0,  "maximum": 100  }  },  "additionalProperties": false,  "required": ["scent"]  }, |

* + 1. Semantics

Semantics of the scentCommandData:

| *Name* | *Definition* |
| --- | --- |
| scentCommandData | Provide a structure for describing a command for a scent actuator. |
| scent | Describes the scent that specific scent actuator can generate. The scent unit of the command value describes as a reference to a term that shall be using the scentType. |
| intensity | Describes the intensity that the scent actuator shall emit in percentage(%) with respect to the maximum intensity that the specific actuator can generate. |

* + 1. Examples

This example shows the description of a actuator command of scent effect with the following semantics. This scent actuator is commanded to perform the intensity 5% of the maximum intensity with the scent “rose”.

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| {  "commandInfoBaseAttributes": {},  "scentCommandData": {  "scent": "rose",  "intensity": 5  }  } |