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| Project | **Specification of Sensor Interface for Cyber and Physical World**  <<https://sagroups.ieee.org/2888.1/> **>** |
| Title | **Syntax and semantics of ambient light sensor capabilities** |
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| Re: |  |
| Abstract | This contribution illustrates the basic JSON schema structure for representing ambient light sensor capabilities in a standardized data format. The semantics and examples of the ambient light sensor capabilities are presented. |
| Purpose | To start discussion on purpose of the standard |
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# Introduction

This contribution illustrates the basic JSON schema structure for representing ambient light sensor capabilities in a standardized data format. The semantics and examples of the ambient light sensor capabilities are presented.

# Ambient light sensor capability

## General

This sub-clause specifies a capability of an ambient light sensor.

## Syntax

|  |
| --- |
| "ambientLightSensorCapabilityData": {  "type": "object",  "properties": {  "sensorCapabilityBaseType": {  "$ref": "#/definitions/sensorCapabilityBaseType"  },  "supportedColor": {  "%ref": "#/definitions/colorType"  }  }  } |

## Semantics

Semantics of the ambientLightSensorCapabilityData:

| Name | Definition |
| --- | --- |
| ambientLightSensor CapabilityData | Tool for describing an ambient light sensor capability |
| supportedColor | It describes color supported |

## Examples

The ambient light sensor can measure up to 400 (lux) white light in this example.

|  |
| --- |
| ambientLightSensorCapabilityData:{  "sensorCapabilityBaseType": {  "maxValue": 400  "unit": "lux"  },  "supportedColor": "white"  } |

# Conclusions

We recommend accepting the proposed ambient light sensor capabilities.