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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.