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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 compass sensor capabilities** |
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| Re: |  |
| Abstract | This contribution illustrates the basic JSON schema structure for representing compass sensor capabilities in a standardized data format. The semantics and examples of the compass 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 compass sensor capabilities in a standardized data format. The semantics and examples of the compass sensor capabilities are presented.

# Compass sensor capability

## General

This sub-clause specifies a capability of a compass sensor.

## Syntax

|  |
| --- |
| "compassSensorCapabilityData": {  "type": "object",  "properties": {  "sensorCapabilityBaseType": {  "$ref": "#/definitions/sensorCapabilityBaseType"  },  }  } |

## Semantics

Semantics of the compassSensorCapabilityData:

| Name | Definition |
| --- | --- |
| compassSensor CapabilityData | Tool for describing a compass sensor capability |

## Examples

The compass sensor can measure between 0 and 360 (degree) in this example.

|  |
| --- |
| compassSensorCapabilityData:{  "sensorCapabilityBaseType": {  "minValue": 0  "maxValue": 360  "unit": "degree"  },  } |

# Conclusions

We recommend accepting the proposed compass sensor capabilities.