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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.