

# ISO/IEC 29341-30-12:2017-06 (E)

## Information technology - UPnP Device Architecture - Part 30-12: IoT management and control device control protocol - IoT management and control transport generic service

---

Contents	Page
1 Scope.....	1
2 Normative References .....	1
3 Terms, Definitions and Abbreviations .....	2
4 Notations and conventions .....	2
4.1 Notation .....	2
4.2 Data Types .....	3
4.3 Vendor-defined Extensions .....	3
5 Service Modelling Definitions .....	3
5.1 Service Type .....	3
5.2 SensorTransportGeneric Service Architecture .....	3
5.3 Key Concepts .....	3
5.3.1 Sensor Connectivity .....	3
5.3.2 Sensor HTTP/HTTPS Transport Protocol .....	4
5.4 State Variables.....	5
5.4.1 State Variable Overview .....	5
5.4.2 <u><a href="#">A ARG TYPE SensorID</a></u> .....	5
5.4.3 <u><a href="#">A ARG TYPE SensorURN</a></u> .....	5
5.4.4 <u><a href="#">A ARG TYPE SensorClientID</a></u> .....	5
5.4.5 <u><a href="#">A ARG TYPE DataRecords</a></u> .....	5
5.4.6 <u><a href="#">A ARG TYPE DataRecordCount</a></u> .....	7
5.4.7 <u><a href="#">A ARG TYPE TransportURL</a></u> .....	7
5.4.8 <u><a href="#">A ARG TYPE SensorDataTypeEnable</a></u> .....	7
5.4.9 <u><a href="#">A ARG TYPE SensorRecordInfo</a></u> .....	7
5.4.10 <u><a href="#">A ARG TYPE TransportConnectionID</a></u> .....	8
5.4.11 <u><a href="#">A ARG TYPE TransportConnections</a></u> .....	8
5.5 Actions .....	9
5.5.1 <u><a href="#">ConnectSensor()</a></u> .....	9
5.5.2 <u><a href="#">DisconnectSensor()</a></u> .....	12
5.5.3 <u><a href="#">ReadSensor()</a></u> .....	13
5.5.4 <u><a href="#">WriteSensor()</a></u> .....	14
5.5.5 <u><a href="#">GetSensorTransportConnections()</a></u> .....	15
5.5.6 Error Code Summary.....	16
6 XML Service Description .....	17

Table 1 — State Variables .....	5
Table 2 — Actions .....	9
Table 3 — Arguments for <u><a href="#">ConnectSensor()</a></u> .....	9
Table 4 — Error Codes for <u><a href="#">ConnectSensor()</a></u> .....	11
Table 5 — Arguments for <u><a href="#">DisconnectSensor()</a></u> .....	12
Table 6 — Error Codes for <u><a href="#">DisconnectSensor()</a></u> .....	12
Table 7 — Arguments for <u><a href="#">ReadSensor()</a></u> .....	13
Table 8 — Error Codes for <u><a href="#">ReadSensor()</a></u> .....	14
Table 9 — Arguments for <u><a href="#">WriteSensor()</a></u> .....	14
Table 10 — Error Codes for <u><a href="#">WriteSensor()</a></u> .....	15
Table 11 — Arguments for <u><a href="#">GetSensorTransportConnections()</a></u> .....	16
Table 12 — Error Codes for <u><a href="#">GetSensorTransportConnections()</a></u> .....	16
Table 13 — Error Code Summary .....	16