

# ISO/IEC 30118-18:2021-10 (E)

## Information technology - Open Connectivity Foundation (OCF) Specification - Part 18: OCF resource to Z-wave mapping specification

---

<b>Contents</b>		<b>Page</b>
Foreword .....		v
Introduction .....		vi
1	Scope .....	1
2	Normative references .....	1
3	Terms, definitions, symbols and abbreviated terms .....	2
3.1	Terms and definitions .....	2
4	Document conventions and organization .....	2
4.1	Conventions .....	2
4.2	Notation .....	2
5	Theory of operation .....	3
5.1	Interworking approach .....	3
5.2	Mapping syntax .....	3
5.2.1	Introduction .....	3
5.2.2	General .....	3
5.2.3	Value assignment .....	3
5.2.4	Property naming .....	4
5.2.5	Range .....	4
5.2.6	Arrays .....	4
5.2.7	Default mapping .....	4
5.2.8	Conditional mapping .....	4
5.2.9	Method invocation .....	4
6	Z-Wave translation .....	4
6.1	Operational scenarios .....	4
6.1.1	Introduction .....	4
6.1.2	Overview of OCF-Z-Wave bridging .....	5
6.1.3	Use case for OCF Client and Z-Wave server .....	5
6.2	Requirements specific to Z-Wave bridging function .....	5
6.2.1	Requirements specific to Z-Wave .....	5
6.2.2	Exposing Z-Wave servers to OCF clients .....	6
7	Device type mapping .....	13
7.1	Introduction .....	13
7.2	Z-Wave device types to OCF device types .....	13
8	Resource to command class mapping .....	14
8.1	Introduction .....	14
8.2	Z-Wave command classes to OCF resources .....	14
8.2.1	Introduction .....	14
8.2.2	Battery command class mapping .....	15
8.2.3	Binary switch command class mapping .....	15
8.2.4	Door lock command class mapping .....	15
8.2.5	Multilevel sensor command class mapping .....	16
8.2.6	Multilevel switch command class mapping .....	16
8.2.7	Notification command class mapping .....	16

8.2.8	User code command class mapping .....	17
9	Detailed mapping APIs .....	17
9.1	Battery command class .....	17
9.1.1	Derived model .....	17
9.1.2	Property definition .....	17
9.1.3	Derived model definition .....	18
9.2	Binary switch command class .....	18
9.2.1	Derived model .....	18
9.2.2	Property definition .....	19
9.2.3	Derived model definition .....	19
9.3	Door lock command class .....	20
9.3.1	Derived model .....	20
9.3.2	Property definition .....	20
9.3.3	Derived model definition .....	20
9.4	Multilevel sensor command class carbon dioxide .....	21
9.4.1	Derived model .....	21
9.4.2	Property definition .....	21
9.4.3	Derived model definition .....	22
9.5	Multilevel sensor command class carbon monoxide .....	23
9.5.1	Derived model .....	23
9.5.2	Property definition .....	23
9.5.3	Derived model definition .....	24
9.6	Multilevel sensor command class smoke density .....	25
9.6.1	Derived model .....	25
9.6.2	Property definition .....	25
9.6.3	Derived model definition .....	26
9.7	Multilevel sensor command class water flow .....	27
9.7.1	Derived model .....	27
9.7.2	Property definition .....	27
9.7.3	Derived model definition .....	28
9.8	Multilevel switch command class .....	29
9.8.1	Derived model .....	29
9.8.2	Property definition .....	29
9.8.3	Derived model definition .....	29
9.9	Notification command class .....	30
9.9.1	Derived model .....	30
9.9.2	Property definition .....	30
9.9.3	Derived model definition .....	31
9.10	User code command class .....	33
9.10.1	Derived model .....	33
9.10.2	Property definition .....	33
9.10.3	Derived model definition .....	34