ZWave Command Classes

On a ZWave's properties you'll find 2 values to show what the device can do:

Capabilities 209,140,0,4,17,1|38,39,112,114,115,117,134,

Version 6,1,91,3,11

The first 6 numbers in capabilities are what is reported by the ZWave ZW\_GetNodeProtocolInfo function (0x41): Capability, Security, Reserved, Basic Device Class (, Generic Device Class, Specific Device Class. If the Capability is >= 128 then the device listens for commands, otherwise it's a battery operated device that only wakes up occasionally.

The version is what's reported by the COMMAND\_CLASS\_VERSION command VERSION\_REPORT. There are 5 values: Z-Wave Library Type, Z-Wave Protocol Version, Z-Wave Protocol Sub Version, Application Version, Application Sub Version. The Application version is specific to the device and not defined by Z-Wave.

The library types are:

CONTROLLER\_STATIC 1

CONTROLLER 2

SLAVE\_ENHANCED 3

SLAVE 4

INSTALLER 5

SLAVE\_ROUTING 6

CONTROLLER\_BRIDGE 7

DUT 8

The protocol version and sub-version are the version of the Z-Wave library, and they are listed here: [ZWave\_Protocol\_Version](http://wiki.micasaverde.com/index.php/ZWave_Protocol_Version" \o "ZWave Protocol Version)

After the | in Capabilities are the command classes supported, which are here:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Numeric   |  |  |  | | --- | --- | --- | | **Name** | **Hex** | **Dec** | | COMMAND\_CLASS\_NO\_OPERATION | 0x00 | 0 | | COMMAND\_CLASS\_BASIC | 0x20 | 32 | | COMMAND\_CLASS\_CONTROLLER\_REPLICATION | 0x21 | 33 | | COMMAND\_CLASS\_APPLICATION\_STATUS | 0x22 | 34 | | COMMAND\_CLASS\_ZIP\_SERVICES | 0x23 | 35 | | COMMAND\_CLASS\_ZIP\_SERVER | 0x24 | 36 | | COMMAND\_CLASS\_SWITCH\_BINARY | 0x25 | 37 | | COMMAND\_CLASS\_SWITCH\_MULTILEVEL | 0x26 | 38 | | COMMAND\_CLASS\_SWITCH\_MULTILEVEL\_V2 | 0x26 | 38 | | COMMAND\_CLASS\_SWITCH\_ALL | 0x27 | 39 | | COMMAND\_CLASS\_SWITCH\_TOGGLE\_BINARY | 0x28 | 40 | | COMMAND\_CLASS\_SWITCH\_TOGGLE\_MULTILEVEL | 0x29 | 41 | | COMMAND\_CLASS\_CHIMNEY\_FAN | 0x2A | 42 | | COMMAND\_CLASS\_SCENE\_ACTIVATION | 0x2B | 43 | | COMMAND\_CLASS\_SCENE\_ACTUATOR\_CONF | 0x2C | 44 | | COMMAND\_CLASS\_SCENE\_CONTROLLER\_CONF | 0x2D | 45 | | COMMAND\_CLASS\_ZIP\_CLIENT | 0x2E | 46 | | COMMAND\_CLASS\_ZIP\_ADV\_SERVICES | 0x2F | 47 | | COMMAND\_CLASS\_SENSOR\_BINARY | 0x30 | 48 | | COMMAND\_CLASS\_SENSOR\_MULTILEVEL | 0x31 | 49 | | COMMAND\_CLASS\_SENSOR\_MULTILEVEL\_V2 | 0x31 | 49 | | COMMAND\_CLASS\_METER | 0x32 | 50 | | COMMAND\_CLASS\_ZIP\_ADV\_SERVER | 0x33 | 51 | | COMMAND\_CLASS\_ZIP\_ADV\_CLIENT | 0x34 | 52 | | COMMAND\_CLASS\_METER\_PULSE | 0x35 | 53 | | COMMAND\_CLASS\_METER\_TBL\_CONFIG | 0x3C | 53 | | COMMAND\_CLASS\_METER\_TBL\_MONITOR | 0x3D | 53 | | COMMAND\_CLASS\_METER\_TBL\_PUSH | 0x3E | 53 | | COMMAND\_CLASS\_THERMOSTAT\_HEATING | 0x38 | 56 | | COMMAND\_CLASS\_THERMOSTAT\_MODE | 0x40 | 64 | | COMMAND\_CLASS\_THERMOSTAT\_OPERATING\_STATE | 0x42 | 66 | | COMMAND\_CLASS\_THERMOSTAT\_SETPOINT | 0x43 | 67 | | COMMAND\_CLASS\_THERMOSTAT\_FAN\_MODE | 0x44 | 68 | | COMMAND\_CLASS\_THERMOSTAT\_FAN\_STATE | 0x45 | 69 | | COMMAND\_CLASS\_CLIMATE\_CONTROL\_SCHEDULE | 0x46 | 70 | | COMMAND\_CLASS\_THERMOSTAT\_SETBACK | 0x47 | 71 | | COMMAND\_CLASS\_DOOR\_LOCK\_LOGGING | 0x4C | 76 | | COMMAND\_CLASS\_SCHEDULE\_ENTRY\_LOCK | 0x4E | 78 | | COMMAND\_CLASS\_BASIC\_WINDOW\_COVERING | 0x50 | 80 | | COMMAND\_CLASS\_MTP\_WINDOW\_COVERING | 0x51 | 81 | | COMMAND\_CLASS\_MULTI\_CHANNEL\_V2 | 0x60 | 96 | | COMMAND\_CLASS\_MULTI\_INSTANCE | 0x60 | 96 | | COMMAND\_CLASS\_DOOR\_LOCK | 0x62 | 98 | | COMMAND\_CLASS\_USER\_CODE | 0x63 | 99 | | COMMAND\_CLASS\_CONFIGURATION | 0x70 | 112 | | COMMAND\_CLASS\_CONFIGURATION\_V2 | 0x70 | 112 | | COMMAND\_CLASS\_ALARM | 0x71 | 113 | | COMMAND\_CLASS\_MANUFACTURER\_SPECIFIC | 0x72 | 114 | | COMMAND\_CLASS\_POWERLEVEL | 0x73 | 115 | | COMMAND\_CLASS\_PROTECTION | 0x75 | 117 | | COMMAND\_CLASS\_PROTECTION\_V2 | 0x75 | 117 | | COMMAND\_CLASS\_LOCK | 0x76 | 118 | | COMMAND\_CLASS\_NODE\_NAMING | 0x77 | 119 | | COMMAND\_CLASS\_FIRMWARE\_UPDATE\_MD | 0x7A | 122 | | COMMAND\_CLASS\_GROUPING\_NAME | 0x7B | 123 | | COMMAND\_CLASS\_REMOTE\_ASSOCIATION\_ACTIVATE | 0x7C | 124 | | COMMAND\_CLASS\_REMOTE\_ASSOCIATION | 0x7D | 125 | | COMMAND\_CLASS\_BATTERY | 0x80 | 128 | | COMMAND\_CLASS\_CLOCK | 0x81 | 129 | | COMMAND\_CLASS\_HAIL | 0x82 | 130 | | COMMAND\_CLASS\_WAKE\_UP | 0x84 | 132 | | COMMAND\_CLASS\_WAKE\_UP\_V2 | 0x84 | 132 | | COMMAND\_CLASS\_ASSOCIATION | 0x85 | 133 | | COMMAND\_CLASS\_ASSOCIATION\_V2 | 0x85 | 133 | | COMMAND\_CLASS\_VERSION | 0x86 | 134 | | COMMAND\_CLASS\_INDICATOR | 0x87 | 135 | | COMMAND\_CLASS\_PROPRIETARY | 0x88 | 136 | | COMMAND\_CLASS\_LANGUAGE | 0x89 | 137 | | COMMAND\_CLASS\_TIME | 0x8A | 138 | | COMMAND\_CLASS\_TIME\_PARAMETERS | 0x8B | 139 | | COMMAND\_CLASS\_GEOGRAPHIC\_LOCATION | 0x8C | 140 | | COMMAND\_CLASS\_COMPOSITE | 0x8D | 141 | | COMMAND\_CLASS\_MULTI\_CHANNEL\_ASSOCIATION\_V2 | 0x8E | 142 | | COMMAND\_CLASS\_MULTI\_INSTANCE\_ASSOCIATION | 0x8E | 142 | | COMMAND\_CLASS\_MULTI\_CMD | 0x8F | 143 | | COMMAND\_CLASS\_ENERGY\_PRODUCTION | 0x90 | 144 | | COMMAND\_CLASS\_MANUFACTURER\_PROPRIETARY | 0x91 | 145 | | COMMAND\_CLASS\_SCREEN\_MD | 0x92 | 146 | | COMMAND\_CLASS\_SCREEN\_MD\_V2 | 0x92 | 146 | | COMMAND\_CLASS\_SCREEN\_ATTRIBUTES | 0x93 | 147 | | COMMAND\_CLASS\_SCREEN\_ATTRIBUTES\_V2 | 0x93 | 147 | | COMMAND\_CLASS\_SIMPLE\_AV\_CONTROL | 0x94 | 148 | | COMMAND\_CLASS\_AV\_CONTENT\_DIRECTORY\_MD | 0x95 | 149 | | COMMAND\_CLASS\_AV\_RENDERER\_STATUS | 0x96 | 150 | | COMMAND\_CLASS\_AV\_CONTENT\_SEARCH\_MD | 0x97 | 151 | | COMMAND\_CLASS\_SECURITY | 0x98 | 152 | | COMMAND\_CLASS\_AV\_TAGGING\_MD | 0x99 | 153 | | COMMAND\_CLASS\_IP\_CONFIGURATION | 0x9A | 154 | | COMMAND\_CLASS\_ASSOCIATION\_COMMAND\_CONFIGURATION | 0x9B | 155 | | COMMAND\_CLASS\_SENSOR\_ALARM | 0x9C | 156 | | COMMAND\_CLASS\_SILENCE\_ALARM | 0x9D | 157 | | COMMAND\_CLASS\_SENSOR\_CONFIGURATION | 0x9E | 158 | | COMMAND\_CLASS\_MARK | 0xEF | 239 | | COMMAND\_CLASS\_NON\_INTEROPERABLE | 0xF0 | 240 | | ZWave Protocol Version  The ZWave Protocol Versions are:   |  |  |  | | --- | --- | --- | | **Release** | **Version** | **Subversion** | | 5.02 Patch 2 | 2 | 64 | | 5.02 Patch 1 | 2 | 51 | | 5.02 | 2 | 48 | | 5.01 | 2 | 36 | | 5.00 Patch 1 | 2 | 22 | | 5.00 Beta 1 | 2 | 16 | | 4.50 Beta 1 | 2 | 74 | | 4.30 Beta 1 | 2 | 30 | | 4.28 | 2 | 67 | | 4.27 | 2 | 40 | | 4.26 | 2 | 32 | | 4.25 | 2 | 31 | | 4.24 Patch 1 | 2 | 28 | | 4.24 | 2 | 24 | | 4.23 | 2 | 17 | | 4.22 | 2 | 09 | | 4.21 | 2 | 06 | | 4.20 | 1 | 97 | | 4.11 | 1 | 91 | | 4.10 | 1 | 78 | | 4.07 | 2 | 27 | | 4.06 | 2 | 23 | | 4.05 | 2 | 07 | | 4.04 | 1 | 99 | | 4.03 | 1 | 81 | | 4.02 | 1 | 9 | | 4.01 | 1 | 68 | | 4.00 | 1 | 59 | | 3.40 | 1 | 53 | | 3.31 | 1 | 44 | | 3.30 | 1 | 37 | | 3.22 | 1 | 39 | | 3.21 | 1 | 25 | | 3.20 | 1 | 21 | |