

Contents

Page

Foreword	ix
Introduction	x
1 Scope	1
2 Normative references	1
3 Terms, definitions, symbols and abbreviated terms	2
3.1 Terms and definitions	2
3.2 Symbols and abbreviated terms	2
4 Document conventions and organization.....	3
4.1 Conventions	3
4.2 Notation.....	3
5 Theory of operation	4
5.1 Interworking approach.....	4
5.2 General	4
5.2.1 Value assignment.....	4
5.2.2 Property naming.....	4
5.2.3 Range	4
5.2.4 Arrays.....	4
5.2.5 Default mapping	4
5.2.6 Conditional mapping.....	4
5.2.7 Method invocation.....	5
6 EnOcean translation	5
6.1 Operational scenarios	5
6.1.1 Use case for enocean bridging	5
6.2 Requirements specific to enocean bridging function.....	6
6.2.1 Introduction.....	6
6.2.2 Exposing enocean devices to OCF clients	6
6.2.3 Protocol translation between enocean and OCF	12
7 Device type mapping	14
7.1 Introduction.....	14
7.2 EnOcean equipment profiles to OCF device types and OCF resource types	14
7.3 Telegram parameters	15
7.3.1 Push button.....	15
7.3.2 Rocker 1 st action	15
7.3.3 Key card	15
7.3.4 Alert signals	16
7.3.5 Open/closed	16
7.3.6 Temperature	16
7.3.7 Barometer.....	16
7.3.8 Illumination	16
7.3.9 Humidity	16
7.3.10 PIR/occupancy	16
7.4 Indirect parameters through enocean equipment profile	16
7.4.1 Introduction.....	16
7.4.2 Range	16
7.4.3 Unit.....	17

8	Detailed mapping APIs	17
8.1	Introduction	17
8.2	Barometric sensor EEP A5-05-01	17
8.2.1	Derived model	17
8.2.2	Property definition	17
8.2.3	Derived model definition	17
8.3	Key card switch, EEP F6-04-01	18
8.3.1	Derived model	18
8.3.2	Property definition	18
8.3.3	Derived model definition	18
8.4	Key card switch, EEP F6-04-02	19
8.4.1	Derived model	19
8.4.2	Property definition	19
8.4.3	Derived model definition	19
8.5	Light sensor EEP A5-06-01	20
8.5.1	Derived model	20
8.5.2	Property definition	20
8.5.3	Derived model definition	21
8.6	Light sensor EEP A5-06-02	21
8.6.1	Derived model	21
8.6.2	Property definition	21
8.6.3	Derived model definition	22
8.7	Light sensor EEP A5-06-03	22
8.7.1	Derived model	22
8.7.2	Property definition	22
8.7.3	Derived model definition	23
8.8	Light sensor EEP A5-06-04	23
8.8.1	Derived model	23
8.8.2	Property definition	23
8.8.3	Derived model definition	24
8.9	Light Sensor EEP A5-06-05	24
8.9.1	Derived model	24
8.9.2	Property definition	24
8.9.3	Derived model definition	25
8.10	Light, temperature and occupancy sensor EEP A5-08-01	25
8.10.1	Derived model	25
8.10.2	Property definition	25
8.10.3	Derived model definition	26
8.11	Light, temperature and occupancy sensor EEP A5-08-02	27
8.11.1	Derived model	27
8.11.2	Property definition	27
8.11.3	Derived model definition	27
8.12	Light, temperature and occupancy sensor EEP A5-08-03	28
8.12.1	Derived model	28
8.12.2	Property definition	28
8.12.3	Derived model definition	29
8.13	Liquid leakage detector (water) EEP F6-05-01	30
8.13.1	Derived model	30

8.13.2	Property definition	30
8.13.3	Derived model definition	30
8.14	Occupancy sensor EEP A5-07-01	31
8.14.1	Derived model	31
8.14.2	Property definition	31
8.14.3	Derived model definition	31
8.15	Occupancy sensor EEP A5-07-02	32
8.15.1	Derived model	32
8.15.2	Property definition	32
8.15.3	Derived model definition	32
8.16	Occupancy sensor EEP A5-07-03	33
8.16.1	Derived model	33
8.16.2	Property definition	33
8.16.3	Derived model definition	33
8.17	Push button, EEP F6-01-01	34
8.17.1	Derived model	34
8.17.2	Property definition	34
8.17.3	Derived model definition	34
8.18	Rocker switch, 2 rocker EEP F6-02-01	35
8.18.1	Derived model	35
8.18.2	Property definition	35
8.18.3	Derived model definition	36
8.19	Rocker switch, 2 rocker EEP F6-02-02	36
8.19.1	Derived model	36
8.19.2	Property definition	36
8.19.3	Derived model definition	37
8.20	Rocker switch, 2 rocker EEP F6-02-03	38
8.20.1	Derived model	38
8.20.2	Property definition	38
8.20.3	Derived model definition	38
8.21	Rocker switch, 2 rocker EEP F6-02-04	39
8.21.1	Derived model	39
8.21.2	Property definition	39
8.21.3	Derived model definition	39
8.22	Rocker switch, 4 rocker EEP F6-03-01	41
8.22.1	Derived model	41
8.22.2	Property definition	41
8.22.3	Derived model definition	41
8.23	Rocker switch, 4 rocker EEP F6-03-02	42
8.23.1	Derived model	42
8.23.2	Property definition	42
8.23.3	Derived model definition	43
8.24	Single input contact EEP D5-00-01	44
8.24.1	Derived model	44
8.24.2	Property definition	44
8.24.3	Derived model definition	44
8.25	Smoke detector EEP F6-05-02	45
8.25.1	Derived model	45

8.25.2	Property definition	45
8.25.3	Derived model definition	45
8.26	Temperature and humidity sensor EEP A5-04-01	46
8.26.1	Derived model	46
8.26.2	Property definition	46
8.26.3	Derived model definition	46
8.27	Temperature and humidity sensor EEP A5-04-02	47
8.27.1	Derived model	47
8.27.2	Property definition	47
8.27.3	Derived model definition	48
8.28	Temperature and humidity sensor EEP A5-04-03	48
8.28.1	Derived model	48
8.28.2	Property definition	48
8.28.3	Derived model definition	49
8.29	Temperature sensor EEP A5-02-01	50
8.29.1	Derived model	50
8.29.2	Property definition	50
8.29.3	Derived model definition	50
8.30	Temperature sensor EEP A5-02-02	51
8.30.1	Derived model	51
8.30.2	Property definition	51
8.30.3	Derived model definition	51
8.31	Temperature sensor EEP A5-02-03	52
8.31.1	Derived model	52
8.31.2	Property definition	52
8.31.3	Derived model definition	52
8.32	Temperature sensor EEP A5-02-04	53
8.32.1	Derived model	53
8.32.2	Property definition	53
8.32.3	Derived model definition	53
8.33	Temperature sensor EEP A5-02-05	54
8.33.1	Derived model	54
8.33.2	Property definition	54
8.33.3	Derived model definition	54
8.34	Temperature sensor EEP A5-02-06	55
8.34.1	Derived model	55
8.34.2	Property definition	55
8.34.3	Derived model definition	55
8.35	Temperature sensor EEP A5-02-07	56
8.35.1	Derived model	56
8.35.2	Property definition	56
8.35.3	Derived model definition	56
8.36	Temperature sensor EEP A5-02-08	57
8.36.1	Derived model	57
8.36.2	Property definition	57
8.36.3	Derived model definition	57
8.37	Temperature sensor EEP A5-02-09	58
8.37.1	Derived model	58

8.37.2	Property definition	58
8.37.3	Derived model definition	58
8.38	Temperature sensor EEP A5-02-0A	59
8.38.1	Derived model	59
8.38.2	Property definition	59
8.38.3	Derived model definition	59
8.39	Temperature sensor EEP A5-02-0B	60
8.39.1	Derived model	60
8.39.2	Property definition	60
8.39.3	Derived model definition	60
8.40	Temperature sensor EEP A5-02-10	61
8.40.1	Derived model	61
8.40.2	Property definition	61
8.40.3	Derived model definition	61
8.41	Temperature sensor EEP A5-02-11	62
8.41.1	Derived model	62
8.41.2	Property definition	62
8.41.3	Derived model definition	62
8.42	Temperature sensor EEP A5-02-12	63
8.42.1	Derived model	63
8.42.2	Property definition	63
8.42.3	Derived model definition	63
8.43	Temperature sensor EEP A5-02-13	64
8.43.1	Derived model	64
8.43.2	Property definition	64
8.43.3	Derived model definition	64
8.44	Temperature sensor EEP A5-02-14	65
8.44.1	Derived model	65
8.44.2	Property definition	65
8.44.3	Derived model definition	65
8.45	Temperature sensor EEP A5-02-15	66
8.45.1	Derived model	66
8.45.2	Property definition	66
8.45.3	Derived model definition	66
8.46	Temperature sensor EEP A5-02-16	67
8.46.1	Derived model	67
8.46.2	Property definition	67
8.46.3	Derived model definition	67
8.47	Temperature sensor EEP A5-02-17	68
8.47.1	Derived model	68
8.47.2	Property definition	68
8.47.3	Derived model definition	68
8.48	Temperature sensor EEP A5-02-18	69
8.48.1	Derived model	69
8.48.2	Property definition	69
8.48.3	Derived model definition	69
8.49	Temperature sensor EEP A5-02-19	70
8.49.1	Derived model	70

8.49.2	Property definition	70
8.49.3	Derived model definition	70
8.50	Temperature sensor EEP A5-02-1A.....	71
8.50.1	Derived model.....	71
8.50.2	Property definition.....	71
8.50.3	Derived model definition	71
8.51	Temperature sensor EEP A5-02-1B.....	72
8.51.1	Derived model.....	72
8.51.2	Property definition.....	72
8.51.3	Derived model definition	72
8.52	Temperature sensor EEP A5-02-20	73
8.52.1	Derived model.....	73
8.52.2	Property definition.....	73
8.52.3	Derived model definition	73
8.53	Temperature sensor EEP A5-02-30	74
8.53.1	Derived model.....	74
8.53.2	Property definition.....	74
8.53.3	Derived model definition	74