
**Information technology — Trusted
Platform Module Library —**

**Part 2:
Structures**

*Technologies de l'information — Bibliothèque de module
de plate-forme de confiance —*

Partie 2: Structures



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CONTENTS

Foreword	xv
Introduction	xvi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols and abbreviated terms	1
5 Notation	1
5.1 Introduction	1
5.2 Named Constants	2
5.3 Data Type Aliases (typedefs)	3
5.4 Enumerations	3
5.5 Interface Type	4
5.6 Arrays	5
5.7 Structure Definitions	6
5.8 Conditional Types	7
5.9 Unions	8
5.9.1 Introduction	8
5.9.2 Union Definition	8
5.9.3 Union Instance	9
5.9.4 Union Selector Definition	10
5.10 Bit Field Definitions	11
5.11 Parameter Limits	12
5.12 Enumeration Macro	13
5.13 Size Checking	13
5.14 Data Direction	14
5.15 Structure Validations	15
5.16 Name Prefix Convention	15
5.17 Data Alignment	16
5.18 Parameter Unmarshaling Errors	16
6 Base Types	18
6.1 Primitive Types	18
6.2 Miscellaneous Types	18
7 Constants	19
7.1 TPM_SPEC (Specification Version Values)	19
7.2 TPM_GENERATED	19
7.3 TPM_ALG_ID	20
7.4 TPM_ECC_CURVE	24
7.5 TPM_CC (Command Codes)	24

7.5.1	Format	24
7.5.2	Description.....	25
7.5.3	TPM_CC Listing	26
7.6	TPM_RC (Response Codes)	29
7.6.1	Description.....	29
7.6.2	Response Code Formats.....	30
7.6.3	TPM_RC Values.....	33
7.7	TPM_CLOCK_ADJUST	38
7.8	TPM_EO (EA Arithmetic Operands)	38
7.9	TPM_ST (Structure Tags)	39
7.10	TPM_SU (Startup Type).....	41
7.11	TPM_SE (Session Type).....	41
7.12	TPM_CAP (Capabilities)	42
7.13	TPM_PT (Property Tag).....	43
7.14	TPM_PT_PCR (PCR Property Tag).....	48
7.15	TPM_PS (Platform Specific).....	50
8	Handles	51
8.1	Introduction.....	51
8.2	TPM_HT (Handle Types)	51
8.3	Persistent Handle Sub-ranges	52
8.4	TPM_RH (Permanent Handles)	53
8.5	TPM_HC (Handle Value Constants)	54
9	Attribute Structures.....	56
9.1	Description	56
9.2	TPMA_ALGORITHM	56
9.3	TPMA_OBJECT (Object Attributes)	56
9.3.1	Introduction	56
9.3.2	Structure Definition	57
9.3.3	Attribute Descriptions	58
9.4	TPMA_SESSION (Session Attributes).....	63
9.5	TPMA_LOCALITY (Locality Attribute).....	64
9.6	TPMA_PERMANENT.....	65
9.7	TPMA_STARTUP_CLEAR.....	66
9.8	TPMA_MEMORY	67
9.9	TPMA_CC (Command Code Attributes)	68
9.9.1	Introduction	68
9.9.2	Structure Definition	68
9.9.3	Field Descriptions	68
10	Interface Types.....	71
10.1	Introduction.....	71
10.2	TPMI_YES_NO	71
10.3	TPMI_DH_OBJECT	71

10.4	TPMI_DH_PERSISTENT	72
10.5	TPMI_DH_ENTITY	72
10.6	TPMI_DH_PCR	73
10.7	TPMI_SH_AUTH_SESSION	73
10.8	TPMI_SH_HMAC	73
10.9	TPMI_SH_POLICY	73
10.10	TPMI_DH_CONTEXT	74
10.11	TPMI_RH_HIERARCHY	74
10.12	TPMI_RH_ENABLES	74
10.13	TPMI_RH_HIERARCHY_AUTH	75
10.14	TPMI_RH_PLATFORM	75
10.15	TPMI_RH_OWNER	75
10.16	TPMI_RH_ENDORSEMENT	76
10.17	TPMI_RH_PROVISION	76
10.18	TPMI_RH_CLEAR	76
10.19	TPMI_RH_NV_AUTH	77
10.20	TPMI_RH_LOCKOUT	77
10.21	TPMI_RH_NV_INDEX	77
10.22	TPMI_ALG_HASH	78
10.23	TPMI_ALG_ASYM (Asymmetric Algorithms)	78
10.24	TPMI_ALG_SYM (Symmetric Algorithms)	79
10.25	TPMI_ALG_SYM_OBJECT	79
10.26	TPMI_ALG_SYM_MODE	80
10.27	TPMI_ALG_KDF (Key and Mask Generation Functions)	80
10.28	TPMI_ALG_SIG_SCHEME	81
10.29	TPMI_ECC_KEY_EXCHANGE	81
10.30	TPMI_ST_COMMAND_TAG	81
11	Structure Definitions	83
11.1	TPMS_EMPTY	83
11.2	TPMS_ALGORITHM_DESCRIPTION	83
11.3	Hash/Digest Structures	84
11.3.1	TPMU_HA (Hash)	84
11.3.2	TPMT_HA	84
11.4	Sized Buffers	85
11.4.1	Introduction	85
11.4.2	TPM2B_DIGEST	85
11.4.3	TPM2B_DATA	86
11.4.4	TPM2B_NONCE	86
11.4.5	TPM2B_AUTH	86
11.4.6	TPM2B_OPERAND	86
11.4.7	TPM2B_EVENT	87
11.4.8	TPM2B_MAX_BUFFER	87
11.4.9	TPM2B_MAX_NV_BUFFER	87
11.4.10	TPM2B_TIMEOUT	88
11.4.11	TPM2B_IV	88
11.5	Names	88
11.5.1	Introduction	88
11.5.2	TPMU_NAME	88
11.5.3	TPM2B_NAME	89
11.6	PCR Structures	89
11.6.1	TPMS_PCR_SELECT	89

11.6.2	TPMS_PCR_SELECTION.....	90
11.7	Tickets.....	90
11.7.1	Introduction.....	90
11.7.2	A NULL Ticket.....	91
11.7.3	TPMT_TK_CREATION.....	92
11.7.4	TPMT_TK_VERIFIED.....	93
11.7.5	TPMT_TK_AUTH.....	94
11.7.6	TPMT_TK_HASHCHECK.....	95
11.8	Property Structures.....	95
11.8.1	TPMS_ALG_PROPERTY.....	95
11.8.2	TPMS_TAGGED_PROPERTY.....	95
11.8.3	TPMS_TAGGED_PCR_SELECT.....	96
11.9	Lists.....	96
11.9.1	TPML_CC.....	96
11.9.2	TPML_CCA.....	97
11.9.3	TPML_ALG.....	97
11.9.4	TPML_HANDLE.....	97
11.9.5	TPML_DIGEST.....	98
11.9.6	TPML_DIGEST_VALUES.....	98
11.9.7	TPM2B_DIGEST_VALUES.....	98
11.9.8	TPML_PCR_SELECTION.....	99
11.9.9	TPML_ALG_PROPERTY.....	99
11.9.10	TPML_TAGGED_TPM_PROPERTY.....	99
11.9.11	TPML_TAGGED_PCR_PROPERTY.....	100
11.9.12	TPML_ECC_CURVE.....	100
11.10	Capabilities Structures.....	100
11.10.1	TPMU_CAPABILITIES.....	100
11.10.2	TPMS_CAPABILITY_DATA.....	101
11.11	Clock/Counter Structures.....	101
11.11.1	PMS_CLOCK_INFO.....	101
11.11.2	<i>Clock</i>	101
11.11.3	<i>ResetCount</i>	101
11.11.4	<i>RestartCount</i>	102
11.11.5	<i>Safe</i>	102
11.11.6	TPMS_TIME_INFO.....	102
11.12	TPM Attestation Structures.....	103
11.12.1	Introduction.....	103
11.12.2	TPMS_TIME_ATTEST_INFO.....	103
11.12.3	TPMS_CERTIFY_INFO.....	103
11.12.1	TPMS_QUOTE_INFO.....	103
11.12.2	TPMS_COMMAND_AUDIT_INFO.....	104
11.12.3	TPMS_SESSION_AUDIT_INFO.....	104
11.12.4	TPMS_CREATION_INFO.....	104
11.12.5	TPMS_NV_CERTIFY_INFO.....	104
11.12.6	TPMI_ST_ATTEST.....	105
11.12.7	TPMU_ATTEST.....	105
11.12.8	TPMS_ATTEST.....	105
11.12.9	TPM2B_ATTEST.....	106
11.13	Authorization Structures.....	106
11.13.1	Introduction.....	106
11.13.2	TPMS_AUTH_COMMAND.....	106
11.13.3	TPMS_AUTH_RESPONSE.....	106
12	Algorithm Parameters and Structures.....	107

12.1 Symmetric	107
12.1.1 Introduction	107
12.1.2 TPMI_AES_KEY_BITS	107
12.1.3 TPMI_SM4_KEY_BITS	107
12.1.4 TPMI_CAMELLIA_KEY_BITS	108
12.1.5 TPMU_SYM_KEY_BITS	108
12.1.6 TPMU_SYM_MODE	108
12.1.7 TPMU_SYM_DETAILS	109
12.1.8 TPMT_SYM_DEF	109
12.1.9 TPMT_SYM_DEF_OBJECT	110
12.1.10 TPM2B_SYM_KEY	110
12.1.11 TPMS_SYMCIPHER_PARMS	110
12.1.12 TPM2B_SENSITIVE_DATA	110
12.1.13 TPMS_SENSITIVE_CREATE	111
12.1.14 TPM2B_SENSITIVE_CREATE	111
12.1.15 TPMS_SCHEME_SIGHASH	112
12.1.16 TPMI_ALG_HASH_SCHEME	112
12.1.17 HMAC_SIG_SCHEME	112
12.1.18 TPMS_SCHEME_XOR	113
12.1.19 TPMU_SCHEME_HMAC	113
12.1.20 TPMT_KEYEDHASH_SCHEME	113
12.2 Asymmetric	114
12.2.1 Signing Schemes	114
12.2.2 Encryption Schemes	116
12.2.3 Key Derivation Schemes	116
12.2.4 RSA	119
12.2.5 ECC	122
12.3 Signatures	124
12.3.1 TPMS_SIGNATURE_RSASSA	124
12.3.2 TPMS_SIGNATURE_RSAPSS	124
12.3.3 TPMS_SIGNATURE_ECDSA	125
12.3.4 TPMU_SIGNATURE	125
12.3.5 TPMT_SIGNATURE	126
12.4 Key/Secret Exchange	126
12.4.1 Introduction	126
12.4.2 TPMU_ENCRYPTED_SECRET	126
12.4.3 TPM2B_ENCRYPTED_SECRET	127
13 Key/Object Complex	128
13.1 Introduction	128
13.2 Public Area Structures	128
13.2.1 Description	128
13.2.2 TPMI_ALG_PUBLIC	128
13.2.3 Type-Specific Parameters	128
13.2.4 TPMT_PUBLIC	132
13.2.5 TPM2B_PUBLIC	132
13.3 Private Area Structures	133
13.3.1 Introduction	133
13.3.2 Sensitive Data Structures	133
13.3.3 TPM2B_SENSITIVE	134
13.3.4 Encryption	135
13.3.5 Integrity	135
13.3.6 _PRIVATE	135
13.3.7 TPM2B_PRIVATE	135

13.4 Identity Object	136
13.4.1 Description.....	136
13.4.2 _ID_OBJECT	136
13.4.3 TPM2B_ID_OBJECT	136
14 NV Storage Structures	137
14.1 TPM_NV_INDEX.....	137
14.2 TPMA_NV (NV Index Attributes).....	138
14.3 TPMS_NV_PUBLIC	141
14.4 TPM2B_NV_PUBLIC	141
15 Context Data	142
15.1 Introduction.....	142
15.2 TPM2B_CONTEXT_SENSITIVE	142
15.3 TPMS_CONTEXT_DATA.....	142
15.4 TPM2B_CONTEXT_DATA.....	142
15.5 TPMS_CONTEXT	143
15.6 Parameters of TPMS_CONTEXT	143
15.6.1 <i>sequence</i>	143
15.6.2 <i>savedHandle</i>	144
15.6.3 <i>hierarchy</i>	145
15.7 Context Protection.....	145
15.7.1 Context Integrity	145
15.7.2 Context Confidentiality.....	145
16 Creation Data	146
16.1 TPMS_CREATION_DATA	146
16.2 TPM2B_CREATION_DATA	146
Annex A (informative) Algorithm Constants	147
A.1 Introduction.....	147
A.2 Allowed Hash Algorithms	147
A.2.1 SHA1	147
A.2.2 SHA256	147
A.2.3 SHA384	147
A.2.4 SHA512	148
A.2.5 SM3_256	148
A.3 Architectural Limits	148
Annex B (informative) Implementation Definitions	149
B.1 Introduction.....	149
B.2 Logic Values	149
B.3 Processor Values	149
B.4 Implemented Algorithms.....	150
B.5 Implemented Commands	151
B.6 Algorithm Constants	154
B.6.1 RSA	154
B.6.2 ECC	154

B.6.3	AES.....	154
B.6.4	SM4	154
B.6.5	CAMELLIA.....	155
B.6.6	Symmetric.....	155
B.7	Implementation Specific Values	156
	Bibliography	159

Tables

Table 1 — Name Prefix Convention	15
Table 2 — Unmarshaling Errors	17
Table 3 — Definition of Base Types	18
Table 4 — Definition of Types for Documentation Clarity	18
Table 5 — Definition of (UINT32) TPM_SPEC Constants <>.....	19
Table 6 — Definition of (UINT32) TPM_GENERATED Constants <O>	19
Table 7 — Legend for TPM_ALG_ID Table.....	20
Table 8 — Definition of (UINT16) TPM_ALG_ID Constants <IN/OUT, S>	21
Table 9 — Definition of (UINT16) {ECC} TPM_ECC_CURVE Constants <IN/OUT, S>	24
Table 10 — TPM Command Format Fields Description	24
Table 11 — Legend for Command Code Tables	25
Table 12 — Definition of (UINT32) TPM_CC Constants (Numeric Order) <IN/OUT, S>	26
Table 13 — Format-Zero Response Codes.....	31
Table 14 — Format-One Response Codes	32
Table 15 — Response Code Groupings	32
Table 16 — Definition of (UINT32) TPM_RC Constants (Actions) <OUT>	33
Table 17 — Definition of (INT8) TPM_CLOCK_ADJUST Constants <IN>	38
Table 18 — Definition of (UINT16) TPM_EO Constants <IN/OUT>	38
Table 19 — Definition of (UINT16) TPM_ST Constants <IN/OUT, S>	39
Table 20 — Definition of (UINT16) TPM_SU Constants <IN>.....	41
Table 21 — Definition of (UINT8) TPM_SE Constants <IN>	41
Table 22 — Definition of (UINT32) TPM_CAP Constants	42
Table 23 — Definition of (UINT32) TPM_PT Constants <IN/OUT, S>	43
Table 24 — Definition of (UINT32) TPM_PT_PCR Constants <IN/OUT, S>	48
Table 25 — Definition of (UINT32) TPM_PS Constants <OUT>	50
Table 26 — Definition of Types for Handles	51
Table 27 — Definition of (UINT8) TPM_HT Constants <S>	51
Table 28 — Definition of (TPM_HANDLE) TPM_RH Constants <S>	53
Table 29 — Definition of (TPM_HANDLE) TPM_HC Constants <S>	55
Table 30 — Definition of (UINT32) TPMA_ALGORITHM Bits	56
Table 31 — Definition of (UINT32) TPMA_OBJECT Bits	57
Table 32 — Definition of (UINT8) TPMA_SESSION Bits <IN/OUT>.....	63
Table 33 — Definition of (UINT8) TPMA_LOCALITY Bits <IN/OUT>	65
Table 34 — Definition of (UINT32) TPMA_PERMANENT Bits <OUT>.....	65
Table 35 — Definition of (UINT32) TPMA_STARTUP_CLEAR Bits <OUT>.....	66
Table 36 — Definition of (UINT32) TPMA_MEMORY Bits <Out>	67
Table 37 — Definition of (TPM_CC) TPMA_CC Bits <OUT>	68

Table 38 — Definition of (BYTE) TPMI_YES_NO Type	71
Table 39 — Definition of (TPM_HANDLE) TPMI_DH_OBJECT Type.....	71
Table 40 — Definition of (TPM_HANDLE) TPMI_DH_PERSISTENT Type	72
Table 41 — Definition of (TPM_HANDLE) TPMI_DH_ENTITY Type <IN>	72
Table 42 — Definition of (TPM_HANDLE) TPMI_DH_PCR Type <IN>	73
Table 43 — Definition of (TPM_HANDLE) TPMI_SH_AUTH_SESSION Type <IN/OUT>	73
Table 44 — Definition of (TPM_HANDLE) TPMI_SH_HMAC Type <IN/OUT>.....	73
Table 45 — Definition of (TPM_HANDLE) TPMI_SH_POLICY Type <IN/OUT>	73
Table 46 — Definition of (TPM_HANDLE) TPMI_DH_CONTEXT Type	74
Table 47 — Definition of (TPM_HANDLE) TPMI_RH_HIERARCHY Type	74
Table 48 — Definition of (TPM_HANDLE) TPMI_RH_ENABLES Type	74
Table 49 — Definition of (TPM_HANDLE) TPMI_RH_HIERARCHY_AUTH Type <IN>.....	75
Table 50 — Definition of (TPM_HANDLE) TPMI_RH_PLATFORM Type <IN>	75
Table 51 — Definition of (TPM_HANDLE) TPMI_RH_OWNER Type <IN>	75
Table 52 — Definition of (TPM_HANDLE) TPMI_RH_ENDORSEMENT Type <IN>.....	76
Table 53 — Definition of (TPM_HANDLE) TPMI_RH_PROVISION Type <IN>.....	76
Table 54 — Definition of (TPM_HANDLE) TPMI_RH_CLEAR Type <IN>	76
Table 55 — Definition of (TPM_HANDLE) TPMI_RH_NV_AUTH Type <IN>	77
Table 56 — Definition of (TPM_HANDLE) TPMI_RH_LOCKOUT Type <IN>	77
Table 57 — Definition of (TPM_HANDLE) TPMI_RH_NV_INDEX Type <IN/OUT>	77
Table 58 — Definition of (TPM_ALG_ID) TPMI_ALG_HASH Type.....	78
Table 59 — Definition of (TPM_ALG_ID) TPMI_ALG_ASYM Type	78
Table 60 — Definition of (TPM_ALG_ID) TPMI_ALG_SYM Type.....	79
Table 61 — Definition of (TPM_ALG_ID) TPMI_ALG_SYM_OBJECT Type	79
Table 62 — Definition of (TPM_ALG_ID) TPMI_ALG_SYM_MODE Type.....	80
Table 63 — Definition of (TPM_ALG_ID) TPMI_ALG_KDF Type	80
Table 64 — Definition of (TPM_ALG_ID) TPMI_ALG_SIG_SCHEME Type.....	81
Table 65 — Definition of (TPM_ALG_ID) TPMI_ECC_KEY_EXCHANGE Type.....	81
Table 66 — Definition of (TPM_ST) TPMI_ST_COMMAND_TAG Type.....	81
Table 67 — Definition of TPMS_EMPTY Structure <IN/OUT>.....	83
Table 68 — Definition of TPMS_ALGORITHM_DESCRIPTION Structure <OUT>.....	83
Table 69 — Definition of TPMU_HA Union <IN/OUT, S>	84
Table 70 — Definition of TPMT_HA Structure <IN/OUT>	84
Table 71 — Definition of TPM2B_DIGEST Structure	85
Table 72 — Definition of TPM2B_DATA Structure	86
Table 73 — Definition of Types for TPM2B_NONCE	86
Table 74 — Definition of Types for TPM2B_AUTH	86
Table 75 — Definition of Types for TPM2B_OPERAND	86
Table 76 — Definition of TPM2B_EVENT Structure.....	87

Table 77 — Definition of TPM2B_MAX_BUFFER Structure	87
Table 78 — Definition of TPM2B_MAX_NV_BUFFER Structure	87
Table 79 — Definition of TPM2B_TIMEOUT Structure <IN/OUT>	88
Table 80 — Definition of TPM2B_IV Structure <IN/OUT>	88
Table 81 — Definition of TPMU_NAME Union <>	88
Table 82 — Definition of TPM2B_NAME Structure	89
Table 83 — Definition of TPMS_PCR_SELECT Structure	90
Table 84 — Definition of TPMS_PCR_SELECTION Structure.....	90
Table 85 — Values for <i>proof</i> Used in Tickets	91
Table 86 — General Format of a Ticket.....	91
Table 87 — Definition of TPMT_TK_CREATION Structure.....	92
Table 88 — Definition of TPMT_TK_VERIFIED Structure.....	93
Table 89 — Definition of TPMT_TK_AUTH Structure	94
Table 90 — Definition of TPMT_TK_HASHCHECK Structure.....	95
Table 91 — Definition of TPMS_ALG_PROPERTY Structure <OUT>.....	95
Table 92 — Definition of TPMS_TAGGED_PROPERTY Structure <OUT>.....	95
Table 93 — Definition of TPMS_TAGGED_PCR_SELECT Structure <OUT>.....	96
Table 94 — Definition of TPML_CC Structure	96
Table 95 — Definition of TPML_CCA Structure <OUT>.....	97
Table 96 — Definition of TPML_ALG Structure	97
Table 97 — Definition of TPML_HANDLE Structure <OUT>.....	97
Table 98 — Definition of TPML_DIGEST Structure.....	98
Table 99 — Definition of TPML_DIGEST_VALUES Structure	98
Table 100 — Definition of TPM2B_DIGEST_VALUES Structure	98
Table 101 — Definition of TPML_PCR_SELECTION Structure	99
Table 102 — Definition of TPML_ALG_PROPERTY Structure <OUT>	99
Table 103 — Definition of TPML_TAGGED_TPM_PROPERTY Structure <OUT>	99
Table 104 — Definition of TPML_TAGGED_PCR_PROPERTY Structure <OUT>	100
Table 105 — Definition of {ECC} TPML_ECC_CURVE Structure <OUT>	100
Table 106 — Definition of TPMU_CAPABILITIES Union <OUT>.....	100
Table 107 — Definition of TPMS_CAPABILITY_DATA Structure <OUT>	101
Table 108 — Definition of TPMS_CLOCK_INFO Structure.....	101
Table 109 — Definition of TPMS_TIME_INFO Structure	102
Table 110 — Definition of TPMS_TIME_ATTEST_INFO Structure <OUT>.....	103
Table 111 — Definition of TPMS_CERTIFY_INFO Structure <OUT>.....	103
Table 112 — Definition of TPMS_QUOTE_INFO Structure <OUT>	103
Table 113 — Definition of TPMS_COMMAND_AUDIT_INFO Structure <OUT>	104
Table 114 — Definition of TPMS_SESSION_AUDIT_INFO Structure <OUT>	104
Table 115 — Definition of TPMS_CREATION_INFO Structure <OUT>	104

Table 116 — Definition of TPMS_NV_CERTIFY_INFO Structure <OUT>.....	104
Table 117 — Definition of (TPM_ST) TPMI_ST_ATTEST Type <OUT>.....	105
Table 118 — Definition of TPMU_ATTEST Union <OUT>	105
Table 119 — Definition of TPMS_ATTEST Structure <OUT>	105
Table 120 — Definition of TPM2B_ATTEST Structure <OUT>	106
Table 121 — Definition of TPMS_AUTH_COMMAND Structure <IN>	106
Table 122 — Definition of TPMS_AUTH_RESPONSE Structure <OUT>.....	106
Table 123 — Definition of {AES} (TPM_KEY_BITS) TPMI_AES_KEY_BITS Type	107
Table 124 — Definition of {SM4} (TPM_KEY_BITS) TPMI_SM4_KEY_BITS Type.....	107
Table 125 — Definition of {CAMELLIA} (TPM_KEY_BITS) TPMI_CAMELLIA_KEY_BITS Type.....	108
Table 126 — Definition of TPMU_SYM_KEY_BITS Union.....	108
Table 127 — Definition of TPMU_SYM_MODE Union	108
Table 128 —xDefinition of TPMU_SYM_DETAILS Union	109
Table 129 — Definition of TPMT_SYM_DEF Structure.....	109
Table 130 — Definition of TPMT_SYM_DEF_OBJECT Structure.....	110
Table 131 — Definition of TPM2B_SYM_KEY Structure.....	110
Table 132 — Definition of TPMS_SYMCIPHER_PARMS Structure	110
Table 133 — Definition of TPM2B_SENSITIVE_DATA Structure	111
Table 134 — Definition of TPMS_SENSITIVE_CREATE Structure <IN>	111
Table 135 — Definition of TPM2B_SENSITIVE_CREATE Structure <IN, S>.....	111
Table 136 — Definition of TPMS_SCHEME_SIGHASH Structure	112
Table 137 — Definition of (TPM_ALG_ID) TPMI_ALG_KEYEDHASH_SCHEME Type.....	112
Table 138 — Definition of Types for HMAC_SIG_SCHEME	112
Table 139 — Definition of TPMS_SCHEME_XOR Structure	113
Table 140 — Definition of TPMU_SCHEME_KEYEDHASH Union <IN/OUT, S>	113
Table 141 — Definition of TPMT_KEYEDHASH_SCHEME Structure	113
Table 142 — Definition of {RSA} Types for RSA_SIG_SCHEMES.....	114
Table 143 — Definition of {ECC} Types for ECC_SIG_SCHEMES.....	114
Table 144 — Definition of {ECC} TPMS_SCHEME_ECDSA Structure.....	114
Table 145 — Definition of TPMU_SIG_SCHEME Union <IN/OUT, S>.....	115
Table 146 — Definition of TPMT_SIG_SCHEME Structure	115
Table 147 — Definition of {RSA} TPMS_SCHEME_OAEP Structure	116
Table 148 — Definition of {ECC} TPMS_SCHEME_ECDH Structure.....	116
Table 149 — Definition of TPMS_SCHEME_MGF1 Structure	116
Table 150 — Definition of {ECC} TPMS_SCHEME_KDF1_SP800_56a Structure	116
Table 151 — Definition of TPMS_SCHEME_KDF2 Structure	117
Table 152 — Definition of TPMS_SCHEME_KDF1_SP800_108 Structure	117
Table 153 — Definition of TPMU_KDF_SCHEME Union <IN/OUT, S>	117
Table 154 — Definition of TPMT_KDF_SCHEME Structure	117

Table 155 — Definition of (TPM_ALG_ID) TPMI_ALG_ASYM_SCHEME Type <>.....	118
Table 156 — Definition of TPMU_ASYM_SCHEME Union	118
Table 157 — Definition of TPMT_ASYM_SCHEME Structure <>	119
Table 158 — Definition of (TPM_ALG_ID) {RSA} TPMI_ALG_RSA_SCHEME Type.....	119
Table 159 — Definition of {RSA} TPMT_RSA_SCHEME Structure	119
Table 160 — Definition of (TPM_ALG_ID) {RSA} TPMI_ALG_RSA_DECRYPT Type.....	120
Table 161 — Definition of {RSA} TPMT_RSA_DECRYPT Structure	120
Table 162 — Definition of {RSA} TPM2B_PUBLIC_KEY_RSA Structure	120
Table 163 — Definition of {RSA} (TPM_KEY_BITS) TPMI_RSA_KEY_BITS Type.....	121
Table 164 — Definition of {RSA} TPM2B_PRIVATE_KEY_RSA Structure.....	121
Table 165 — Definition of {ECC} TPM2B_ECC_PARAMETER Structure	122
Table 166 — Definition of {ECC} TPMS_ECC_POINT Structure	122
Table 167 — Definition of {ECC} TPM2B_ECC_POINT Structure	122
Table 168 — Definition of (TPM_ALG_ID) {ECC} TPMI_ALG_ECC_SCHEME Type	123
Table 169 — Definition of {ECC} (TPM_ECC_CURVE) TPMI_ECC_CURVE Type.....	123
Table 170 — Definition of (TPMT_SIG_SCHEME) {ECC} TPMT_ECC_SCHEME Structure.....	123
Table 171 — Definition of {ECC} TPMS_ALGORITHM_DETAIL_ECC Structure <OUT>	124
Table 172 — Definition of {RSA} TPMS_SIGNATURE_RSASSA Structure	124
Table 173 — Definition of {RSA} TPMS_SIGNATURE_RSAPSS Structure	125
Table 174 — Definition of {ECC} TPMS_SIGNATURE_ECDSA Structure	125
Table 175 — Definition of TPMU_SIGNATURE Union <IN/OUT, S>.....	125
Table 176 — Definition of TPMT_SIGNATURE Structure.....	126
Table 177 — Definition of TPMU_ENCRYPTED_SECRET Union <S>	126
Table 178 — Definition of TPM2B_ENCRYPTED_SECRET Structure.....	127
Table 179 — Definition of (TPM_ALG_ID) TPMI_ALG_PUBLIC Type	128
Table 180 — Definition of TPMU_PUBLIC_ID Union <IN/OUT, S>	129
Table 181 — Definition of TPMS_KEYEDHASH_PARMS Structure.....	129
Table 182 — Definition of TPMS_ASYM_PARMS Structure <>	130
Table 183 — Definition of {RSA} TPMS_RSA_PARMS Structure.....	130
Table 184 — Definition of {ECC} TPMS_ECC_PARMS Structure	131
Table 185 — Definition of TPMU_PUBLIC_PARMS Union <IN/OUT, S>.....	131
Table 186 — Definition of TPMT_PUBLIC_PARMS Structure	132
Table 187 — Definition of TPMT_PUBLIC Structure.....	132
Table 188 — Definition of TPM2B_PUBLIC Structure.....	132
Table 189 — Definition of TPM2B_PRIVATE_VENDOR_SPECIFIC Structure<>.....	133
Table 190 — Definition of TPMU_SENSITIVE_COMPOSITE Union <IN/OUT, S>	133
Table 191 — Definition of TPMT_SENSITIVE Structure	134
Table 192 — Definition of TPM2B_SENSITIVE Structure <IN/OUT>	134
Table 193 — Definition of _PRIVATE Structure <>	135

Table 194 — Definition of TPM2B_PRIVATE Structure <IN/OUT, S>	135
Table 195 — Definition of _ID_OBJECT Structure <>.....	136
Table 196 — Definition of TPM2B_ID_OBJECT Structure <IN/OUT>	136
Table 197 — Definition of (UINT32) TPM_NV_INDEX Bits <>.....	137
Table 198 — Definition of (UINT32) TPMA_NV Bits	139
Table 199 — Definition of TPMS_NV_PUBLIC Structure.....	141
Table 200 — Definition of TPM2B_NV_PUBLIC Structure.....	141
Table 201 — Definition of TPM2B_CONTEXT_SENSITIVE Structure <IN/OUT>	142
Table 202 — Definition of TPMS_CONTEXT_DATA Structure <IN/OUT, S>.....	142
Table 203 — Definition of TPM2B_CONTEXT_DATA Structure <IN/OUT>	142
Table 204 — Definition of TPMS_CONTEXT Structure	143
Table 205 — Context Handle Values.....	144
Table 206 — Definition of TPMS_CREATION_DATA Structure <OUT>	146
Table 207 — Definition of TPM2B_CREATION_DATA Structure <OUT>	146
Table A.1 — Defines for SHA1 Hash Values.....	147
Table A.2 — Defines for SHA256 Hash Values.....	147
Table A.3 — Defines for SHA384 Hash Values.....	147
Table A.4 — Defines for SHA512 Hash Values.....	148
Table A.5 — Defines for SM3_256 Hash Values.....	148
Table A.6 — Defines for Architectural Limits Values	148
Table B.1 — Defines for Logic Values	149
Table B.2 — Defines for Processor Values	149
Table B.3 — Defines for Implemented Algorithms.....	150
Table B.4 — Defines for Implemented Commands	151
Table B.5 — Defines for RSA Algorithm Constants.....	154
Table B.6 — Defines for ECC Algorithm Constants	154
Table B.7 — Defines for AES Algorithm Constants.....	154
Table B.8 — Defines for SM4 Algorithm Constants.....	154
Table B.9 — Defines for CAMELLIA Algorithm Constants	155
Table B.10 — Defines for Symmetric Algorithm Constants	155
Table B.11 — Defines for Implementation Values	156

Figures

Figure 1 — Command Format	24
Figure 2 — Format-Zero Response Codes.....	30
Figure 3 — Format-One Response Codes	31
Figure 4 — ISO/IEC 11889 (first edition) TPM_NV_INDEX	137
Figure 5 — ISO/IEC 11889 TPM_NV_INDEX	137

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT), see the following URL: [Foreword — Supplementary information](#).

ISO/IEC 11889-2 was prepared by the Trusted Computing Group (TCG) and was adopted, under the PAS procedure, by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, in parallel with its approval by national bodies of ISO and IEC.

This second edition cancels and replaces the first edition (ISO/IEC 11889-2:2009), which has been technically revised.

ISO/IEC 11889 consists of the following parts, under the general title *Information technology — Trusted Platform Module Library*:

- *Part 1: Architecture*
- *Part 2: Structures*
- *Part 3: Commands*
- *Part 4: Supporting routines*

Introduction

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Information technology — Trusted Platform Module Library —

Part 2: Structures

1 Scope

This part of ISO/IEC 11889 contains the definitions of the constants, flags, structure, and union definitions used to communicate with the TPM. Values defined in this part of ISO/IEC 11889 are used by the TPM commands defined in ISO/IEC 11899-3 and by the functions in ISO/IEC 11889-4.

NOTE The structures in this document are the canonical form of the structures on the interface. All structures are "packed" with no octets of padding between structure elements. The TPM-internal form of the structures is dependent on the processor and compiler for the TPM implementation.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

- ISO/IEC 9797-2, *Information technology -- Security techniques -- Message Authentication Codes (MACs) -- Part 2: Mechanisms using a dedicated hash-function*
- ISO/IEC 10116:2006, *Information technology — Security techniques — Modes of operation for an n-bit block cipher*
- ISO/IEC 11889-1, *Information technology — Trusted Platform Module Library — Part 1: Architecture*
- ISO/IEC 11889-3, *Information technology — Trusted Platform Module Library — Part 3: Commands*
- ISO/IEC 11889-4, *Information technology — Trusted Platform Module Library — Part 4: Supporting routines*
- TCG Algorithm Registry, available at
<http://www.trustedcomputinggroup.org/resources/tcg_algorithm_registry>