

Contents

Page

Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms, definitions and abbreviated terms	2
3.1 Terms and definitions	2
3.2 Abbreviated terms	3
4 Conformance	3
4.1 HWID tag conformance	3
4.2 Application conformance	4
4.3 Platform conformance	4
5 Interoperability	4
5.1 Overview and key design decisions	4
5.2 Hardware identifiers - <hwidID>	4
5.3 Use case overview	4
5.4 HWID type	5
5.4.1 General	5
5.4.2 Issuance of a primary HWID	5
5.4.3 Adding information to a primary HWID	5
5.4.4 Archiving a primary HWID	5
5.4.5 Issuance of a system HWID	6
5.4.6 Adding information to a system HWID	6
5.4.7 Archiving a system HWID	6
5.4.8 Systems of systems	6
5.5 Supplemental HWID types	7
5.6 Key design decisions of HWIDs	8
5.7 Uniqueness of identifiers	9
5.7.1 General	9
5.7.2 Entity registration identification – regid	9
5.7.3 Hardware identification tag ID (hwidId)	10
5.8 Interoperability Design Considerations	10
6 Implementation of HWID processes	11
6.1 General	11
6.2 Platform requirements and guidance	11
6.2.1 HWID tag implementation considerations	11
6.2.2 HWID tag methods	12
6.3 HWID creators	13
6.4 Trustworthiness of HWIDs	14
6.5 Authenticity of HWIDs	14
6.5.1 General	14
6.5.2 XML digital signatures	14
6.5.3 JSON digital signatures	15
6.6 HWID file names	15
6.7 HWID storage	15
6.8 HWID recovery	15
6.9 HWID Considerations for asset management platforms	15

7	Hardware ID file data specification	15
7.1	General.....	15
7.2	Minimum HWID tag data required	16
7.3	Recommended HWID tag data values	17
7.4	XML and JSON naming conventions.....	17
7.4.1	XML considerations	17
7.4.2	JSON considerations	17
7.5	Language functionality	18
7.6	Element structure.....	18
7.7	Data definitions.....	18
7.7.1	Requirement levels.....	18
7.7.2	HWID	19
7.7.3	HWIDMeta.....	20
7.7.4	Entity	22
7.7.5	Link.....	23
7.7.6	LinkContent.....	24
7.7.7	Meta	24
7.7.8	OrderInfo.....	24
7.7.9	Location.....	25
7.8	Attribute value definitions	26
7.8.1	General	26
7.8.2	ChannelType.....	26
7.8.3	HWIDType	27
7.8.4	hwType	27
7.8.5	purchaseCondition	28
7.8.6	LocationType.....	28
7.8.7	Role	29
7.8.8	SupplementalHWIDType.....	29
7.8.9	TrustLevel.....	30
7.8.10	Rel	30
	Annex A (informative) XML schema definition (XSD).....	32
	Annex B (informative) UML and XML documentation	33
	Annex C (informative) Sample HWIDs.....	34
	Bibliography.....	41