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# TECHNICAL SPECIFICATION



Multimedia home server systems - Conceptual model for domain management

INTERNATIONAL ELECTROTECHNICAL COMMISSION



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– 2 –

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### CONTENTS

FOREWORD4							
INT	RODI	JCTION		6			
1	Scop	e		7			
2	Term	s, defin	itions and abbreviations	7			
	2.1	Terms	and definitions	7			
	2.2	Abbrev	viations	9			
3	Use o	cases		9			
	3.1	Purpos	e of description of use cases	9			
	3.2	-	le 1: A domain in ARIB TR-B27				
	3.3	-	le 2: A domain in DVB CPCM				
	3.4	Examp	le 3: A domain in OMA DRM V2.0	10			
	3.5	Examp	le 4: A domain in permission code	11			
	3.6	Examp	le 5: A common domain in Marlin DRM	12			
4	Conc	eptual r	nodel	13			
	4.1	Definit	ion of a domain				
	4.2	Formin	g a domain	13			
	4.3	Compo	nents of a device which can join a domain	14			
	4.4	Requir	ements	14			
		4.4.1	Abstract domain model	14			
		4.4.2	Information elements	16			
		4.4.3	Joining and leaving domains	16			
		4.4.4	Usage control by usage rules				
		4.4.5	Revocation of a device				
		4.4.6	Items gathered by content issuer				
5	Refe	rence m	odels				
	5.1		al				
	5.2		nodel				
		5.2.1	Overview of basic model				
		5.2.2	RI management domain model				
		5.2.3	Autonomous domain model				
	5.3		ced model				
		5.3.1	Overview of enhanced model				
		5.3.2	Domain model which extends over multiple domains				
		5.3.3	Merged (or divorced) domain model				
			ative) Existing domain specifications				
			ative) Management for simultaneous information in a domain				
Bib	liogra	ohy		31			
Fig	ure 1	– Doma	in in ARIB TR-B27	9			
Fig	ure 2	– Doma	in in DVB CPCM				
Fig	ure 3	– Doma	in in OMA DRM V2.0	11			
-	Figure 4 – Domain in permission code						
-	Figure 4 – Domain in permission code						
-	Figure 6 – Overview of a domain						
-	-						
гıg	Figure 7 – Components of a device14						

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- 3 -

Figure 8 – Relationship between the basic elements of a domain model	15
Figure 9 – Example of RI management domain model	19
Figure 10 – Example of an RI management domain model	19
Figure 11 – Example of the RI management domain model	20
Figure 12 – Example of the RI management domain model	20
Figure 13 – Example of RI management domain model	20
Figure 14 – Example of an autonomous domain model	21
Figure 15 – Example of Autonomous domain model	22
Figure 16 – Regional domain	22
Figure 17 – Time stamped domain	23
Figure 18 – Merged user domains	23
Figure 19 – Merging domains based on user entities	24
Figure 20 – Merged domain	24
Figure 21 – Divorced user domain	25
Figure 22 – Divorced user domain based on user entities	25
Figure 23 – Divorced domain	26
Table 1 – Information elements of a domain	16
Table 2 – Device parameters that join domain	17
Table 3 – Items managed in a domain	18
Table A.1 – Domain specifications in DVB	27
Table A.2 – Domain specifications in OMA	27
Table A.3 – Domain specifications in ARIB	28
Table A.4 – Domain specifications in permission code	28
Table A.5 – Domain specifications in Marlin	28
Table A.6 – Domain specifications in iTunes	29
Table A.7 – Domain specifications in Coral	29
Table A.8 – Domain specifications in Cluster Protocol	29

- 4 -

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#### MULTIMEDIA HOME SERVER SYSTEMS – CONCEPTUAL MODEL FOR DOMAIN MANAGEMENT

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Technical specifications are subject to review within three years of publication to decide whether they can be transformed into International Standards.

IEC 62579, which is a technical specification, has been prepared by technical area 8: Multimedia home server systems of IEC technical committee 100: Audio, video and multimedia systems and equipment.

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– 5 –

The text of this technical report is based on the following documents:

Enquiry draft	Report on voting	
100/1626/CDV	100/1676/RVC	

Full information on the voting for the approval of this technical specification can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be be

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- 6 -

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#### INTRODUCTION

Compared with analog media, digital contents can be copied easily and the copies don't decline in quality. So it is certain that digital contents should be protected.

But, compared to the rights of private records on analog media, it is hard for users to enjoy their digital contents freely. The concept of a domain has been defined in several organizations for the purpose of improving user convenience. Domains enable users to consume and manage their digital contents in a manner which is more like enjoying analog contents. Users can enjoy digital contents, which are stored on a device, not only on the device where they are stored on but also on other devices within the same domain such as home or school, etc. From a standpoint of copyrights, it means that the contents are allowed to be consumed with a copy control technology on limited devices. A domain manages both user convenience and contents protection. Depending on the scenario of the operated domain, the limit and the boundary on domain configuration can be flexible.

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- 7 -

#### MULTIMEDIA HOME SERVER SYSTEMS – CONCEPTUAL MODEL FOR DOMAIN MANAGEMENT

#### 1 Scope

This Technical Specification defines the conceptual model of domain management, which includes terms, requirements and reference models. The domain is a set of devices, users, and/or other entities which can share contents. Entities within a domain are allowed to play, copy and move content and usage rules to other entities within the same domain.

Some existing systems have been proposed in this field of domain, but various vocabularies and models are specified. This situation causes confusion and misunderstanding of systems, and disturbs interoperability. This Technical Specification is intended to standardize the vocabularies and clarify the models.

All kinds of digital content, including broadcast content which needs to be protected, are considered in this specification. On the other hand, rights management and content protection technology are beyond the scope of this specification.

NOTE In addition, network protocol and media format for content sharing and exchange are also out of the scope of this specification. Refer also to IEC 62481-1 and IEC 62481-2 for interoperability guidelines..