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13 # Marlin – Identifier and Attribute Registry

14 Version 1.0.3
15 Final

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Contact Information

Feedback on this specification should be addressed to: editor@marlin-community.com

Contact information for the Marlin Trust Management Organization can be found at: http://www.marlin-trust.com/

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1   Introduction

This document acts as a registry of the various attributes and identifiers defined by Marlin specifications. The intent is to provide a single document to act as both an aid to implementers as well as a point of control so as to avoid naming collisions.

For the most part this document is an informative amalgamation of identifiers and attributes that are normatively specified elsewhere. Throughout this document the convention is to cite a bibliographic reference to the specification that provides the normative definition. In the event of an ambiguous or conflicting definition the referenced source of the information takes precedence.

However, some attributes and identifiers are normatively described in this document due to the necessity of a common specification for these globally used attributes and identifiers. For this case the sections will be clearly marked as Normative and the terminology and conventions describe below will be used.

1.1   Terminology and Conventions

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this specification are to be interpreted as described in IETF RFC 2119 [RFC2119].

These capitalized key words are used to unambiguously specify requirements and behavior that affect the interoperability and security of implementations. When these key words are not capitalized they are meant in their natural-language sense.

All elements of this specification are considered Normative unless specifically marked Informative. All Normative Elements are Mandatory to implement, except where such an element is specifically marked OPTIONAL. Finally, where Normative elements are described as OPTIONAL, they MAY be omitted from an implementation, but when implemented, they MUST be implemented as described.

1.2   References

[8pusObjects]	Octopus – Objects Version 1.0.1.
[DMZ]	Marlin Dynamic Media Zones Version 1.0 Final, January 25, 2008
[MCSV13]	Marlin Core System Specification Version 1.3 Final. September 16, 2006
[MBBV12]	Marlin Broadband Delivery System Specification Version 1.2 Final. September 8, 2006.
[MEXP]	Marlin – Export Parameter Specification Version 1.0.1 Final. March 11, 2008
[MPACS]	Marlin – Profile and Capability Signaling Version 1.0
[8pusPlankton]	Octopus – Plankton Version 1.0.1.
[Starfish]	*Starfish - Marlin Broadcast Encryption Scheme* v1.2

111 2   Marlin Registry

112 2.1   Reserved Specification Identifier Namespaces

113

URN Specification Identifier Namespaces	
Namespace	**Citation**
urn:marlin:core:	[MCSV13]
urn:marlin:broadband:	[MBBV12]
urn:marlin:pacs	[MPACS]

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115 2.2   Registered XML Namespaces

116 The following table itemizes the defined XML Namespaces defined by Marlin
117 specifications.

118

XML Namespace Identifier	Citation
urn:marlin:core:1-3:schemas	[MCSV13]
http://marlin-drm.com/1.0	[MCSV13]
urn:marlin:core:1-1:nemo:services:schemas	[MCSV13]
urn:marlin:core:1-2:nemo:services:schemas:exceptions	[MCSV13]
http://www.octopus-drm.com/profiles/base/1.0	Octopus
http://www.octopus-drm.com/profiles/base/1.0/plankton	[8pusPlankton]
http://marlin-drm.com/starfish/1.2	[Starfish]
urn:marlin:broadband:1-1:nemo:services:schemas:exceptions	[MBBV12]
urn:marlin:broadband:1-2:nemo:services:action-token	[MBBV12]
urn:marlin:broadband:1-2:nemo:services:configuration	[MBBV12]
urn:marlin:broadband:1-1:nemo:services:schemas:data-certification-service	[MBBV12]
urn:marlin:broadband:1-1:nemo:services:schemas:data-certification-service:data-item	[MBBV12]
urn:marlin:broadband:1-2:nemo:services:schemas:data-update-service	[MBBV12]
urn:marlin:broadband:1-1:nemo:services:schemas:license-service	[MBBV12]
urn:marlin:broadband:1-1:nemo:services:schemas:metering-service	[MBBV12]
urn:marlin:broadband:1-1:nemo:services:schemas:registration-service	[MBBV12]

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121 2.3   Registered MIME Types

MIME Type	Citation
application/vnd.marlin.drm.conftoken+xml	[MBBV12]
application/vnd.marlin.drm.actiontoken+xml	[MBBV12]
application/vnd.marlin.drm.license+xml	[MBBV12]

122

123 2.4   Registered Identifiers

Attribute Identifier
Security Policy Identifiers [MCSV13]
urn:marlin:core:1.0:nemo:services:proximity-check:policy:0

Attribute Identifier
urn:marlin:core:1.0:nemo:services:drm-client-information:get-octopus-node:policy:0
urn:marlin:core:1-2:nemo:services:drm-client-information:get-security-metadata:policy:0
urn:marlin:core:1-2:nemo:services:drm-client-information:get-domain-links:policy:0
urn:marlin:core:1.0:nemo:services:drm-client-information:get-scuba-sharing-key:policy:0
urn:marlin:core:1.0:nemo:services:provide-domain-information:policy:0
urn:marlin:core:1.0:nemo:services:provide-drm-objects:obtain-objects:policy:0
urn:marlin:core:1-2:nemo:services:security-data:obtain-data:policy:0
urn:marlin:core:1.3:nemo:services:license-transfer:policy:0
Security Policy Identifiers [MBBV12]
urn:marlin:broadband:1.0:nemo:services:license-service:policy:0
urn:marlin:broadband:1.0:nemo:services:registration-service:nodeAcquisition:policy:0
urn:marlin:broadband:1.0:nemo:services:registration-service:linkAcquisition:policy:0
urn:marlin:broadband:1.0:nemo:services:registration-service:deregistration:policy:0
urn:marlin:broadband:1.0:nemo:services:datacertification-service:policy:0
urn:marlin:broadband:1.0:nemo:services:dataupdate-service:policy:0
urn:marlin:broadband:1.0:nemo:services:metering-service:policy:0
<DRMAction> Identifiers [MCSV13]
urn:marlin:core:1.0:nemo:services:provide-drm-objects:context:action:registration
urn:marlin:core:1.0:nemo:services:provide-drm-objects:context:action:deregistration
License transfer operation identifiers [MCSV13]
urn:marlin:core:1-0:service:license-transfer:move
urn:marlin:core:1-0:service:license-transfer:copy
urn:marlin:core:1-0:service:license-transfer:render
urn:marlin:core:1-0:service:license-transfer:checkout
urn:marlin:core:1-3:service:license-transfer:release
Algorithm identifiers [MCSV13]
http://marlin-drm.com/starfish/algorithmID/1.0
Export action identifiers [MEXP]
urn:marlin:action:export:target:dtcp-1-4
urn:marlin:action:export:target:cprm-dvd-0-9-6
urn:marlin:action:export:target:cprm-sd-video-0-9-3
urn:marlin:action:export:target:cprm-sd-audio-0-9-6
urn:marlin:action:export:target:vcps-1-2
urn:marlin:action:export:target: mgr-svr-ms-1-0-3
urn:marlin:action:export:target:mgr-sar-ms-0-9-0
urn:marlin:action:export:target:mgr-svr-empr-1-0-3
urn:marlin:action:export:target:mgr-sar-aad-0-9-0
urn:marlin:action:export:target:safia-ivdr-tv-1-1-0
urn:marlin:action:export:target:safia-ivdr-audio-1-0-1
urn:marlin:action:export:target:aacs-rec-bd
urn:marlin:action:export:target:aacs-rec-bdrl
NEMO Security usage attribute identifiers [MBBV12]
urn:marlin:broadband:1.0:nemo:services:datacertification-service:assertion

Attribute Identifier
OutputControlTechnology ID
urn:marlin:organization:intertrust:wudo
MS3 Extension Types
wudo
cfwd
General Obligations ID
urn:marlin:organization:intertrust:cfwd

124 ## *2.5   Registered Attribute Namespaces/Names/Valuespace*

125

Attribute Namespace Identifier	Name	Valuespace
[MCSV13]		
urn:marlin:nemo:2004:attribute	role	
		[MCSV13]
		urn:marlin:core:role:device
		urn:marlin:core:role:domain-information-provider
		urn:marlin:core:role:security-data-provider
		urn:marlin:core:role:drm-object-provider
		urn:marlin:core:role:drm-client
		[MBBV12]
		urn:marlin:broadband:role:license-service
		urn:marlin:broadband:role:registration-service
		urn:marlin:broadband:role:data-certification-service
		urn:marlin:broadband:role:data-update-service
		urn:marlin:broadband:role:metering-data-service
urn:marlin:core	version-major	
	version-minor	
[MBBV12]		
urn:marlin:broadband	version-minor	
	version-minor	
urn:marlin:broadband:security-metadata:attributes	trusted-time	
urn:marlin:broadband:security-metadata:attributes:license-suspension-serial		
urn:marlin:broadband:security-metadata:attributes	crlNumber	

urn:marlin:broadband:security-metadata:attributes	bkbRevocationVersion	
urn:marlin:broadband:client:capabilities	license-suspension	
	meter-play-duration	
urn:marlin:broadband:client	manufacturer	
	model	
	version	

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2.6   Registered Attribute Names/Valuespace

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Attribute Name	Attribute Valuespace
[MCSV13]	
urn:marlin:core:node:attribute:type	personality
	domain
	user
	subscription
	*
urn:marlin:core:node:attribute:device-class	Dedicated Device
	Personal Computer
	Portable Device
urn:marlin:link:attribute:domain-policy	urn:marlin:broadband:domain-policy:organization:<orgid>:*
urn:marlin:core:1-0:subscription:topic	security-data
	crl
	broadcastkeyblock
	assertion
	trustedtime
	drm-objects

131

132 2.7 Profile and Capability Identifiers and Attributes
133 (Normative)

134 An implementation that signals support for a particular functionality indicates that the
135 implementation supports the cited functionality as specified in the referenced text.
136
137 It is recommended that a specific profile description be defined to modify the
138 normative status of any optional functionality that has complex processing
139 requirements regarding mandatory and optional implementation choices.
140
141 The **profile** attribute is used to signal an amalgamation of functionality required by a
142 particular profile specification. A **profile** is identified by a profile specific URI. The
143 general intent is that a profile specification will be crafted to declare functionality
144 mandatory to implement.
145
146 The **topology**, **protocols** and **features** attributes signal support for the mandatory to
147 implement aspects of the cited text.
148
149 The following table itemizes the identifiers used to signal support for the cited
150 functionality.
151

urn:marlin:pacs Attribute Names and Values		
Attribute Name	**Attribute Value-space**	**Citation**
profile	Profile defined URI urn:marlin:bns:1-0:profile	[MPACS] [MBNS]
topology	Profile defined URI	[MPACS]
protocols	 urn:marlin:broadband:1-2:dcs urn:marlin:broadband:1-2:dus urn:marlin:core:1-3:inspection urn:marlin:core:1-3:discovery urn:marlin:core:1-3:subnote urn:marlin:core:1-3:harpoon urn:marlin:core:1-3:clientinfo urn:marlin:core:1-3:domaininfo urn:marlin:core:1-3:drmobjects urn:marlin:core:1-3:securitydata urn:marlin:core:1-3:licensexfer	[MPACS] [MBBV12] §5.2.3 [MBBV12] §5.2.4 [MCSV13] §5.4 [MCSV13] §5.5 [MCSV13] §5.6 [MCSV13] §5.7.1 [MCSV13] §5.7.2 [MCSV13] §5.7.3 [MCSV13] §5.7.4 [MCSV13] §5.7.5 [MCSV13] §5.7.6
features	 urn:marlin:broadband:client:capabilities:meter-play-duration urn:marlin:broadband:client:capabilities:license-suspension urn:marlin:dmz:1-0 urn:marlin:bbts:1-0:ecm:expose-timestamp	[MPACS] [MBBV12] §6.2, §7.1.2 [MBBV12] §6.3, §7.1.2 [DMZ] [BBTS] §3.6.1

152
153 Note that the capabilities urn:marlin:broadband:client:capabilities:meter-play-duration
154 and urn:marlin:broadband:client:capabilities:license-suspension may be signaled
155 either as a feature through [MPACS] or within the Role Assertion. Regardless of
156 which mechanism signals the capability the semantics are unchanged.
157