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Marlin - Export Parameter Specification

Version 1.2
Final

Source	Marlin Developer Community
Date	October 8, 2013

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76

77 Contents

78	1	Introduction	4
79	1.1	Terminology and Conventions.....	4
80	1.2	Abbreviations	4
81	1.3	References	4
82	1.3.1	Normative References	4
83	1.3.2	Informative References.....	5
84	1.3.3	Byte/Bit Ordering.....	5
85	2	Export parameters	6
86	2.1	Target System ID and Action Result Parameters.....	6
87	2.1.1	Export to DTCP Action	6
88	2.1.2	Export to CPRM Action	7
89	2.1.3	Export to VCPS Action	9
90	2.1.4	Export to MG-R Action	10
91	2.1.5	Export to SAFIA for iVDR TV Recording	11
92	2.1.6	Export to SAFIA for iVDR Audio Recording.....	11
93	2.1.7	Export to AACCS Action.....	12
94	2.1.8	Export to NSM CPS	14
95	2.2	ActionParameters for Marlin IPTV-ES	15
96			

97 **1 Introduction**

98 This document describes specifications of parameters used when exporting contents
99 from Marlin to other DRM systems.

100 **1.1 Terminology and Conventions**

101 The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”,
102 “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this
103 specification are to be interpreted as described in IETF RFC 2119 [RFC2119].
104

105 **1.2 Abbreviations**

AACS	Advanced Access Content System
CPRM	Content Protection for Recordable Media
DTCP	Digital Transmission Content Protection
MG-R	MagicGate Type-R
SAFIA	Security Architecture for Intelligent Attachment Device
VCPS	Video Content Protection System
NSM CPS	NSM Content Protection System for Self-Encoding Content

107

108 **1.3 References**

109 **1.3.1 Normative References**

[AACSREC091]	Advanced Access Content System (AACS), Recordable Video Book – Revision 0.91.
[AACSREC095]	Advanced Access Content System (AACS), Recordable Video Book – Revision 0.95
[AACSBDREC092]	Advanced Access Content System (AACS), Blu-ray Disc Recordable Book – Revision v0.92.
[AACSBDREC095]	Advanced Access Content System (AACS), Blu-ray Disc Recordable Book – Revision v0.95.
[AACSRLREC092]	Advanced Access Content System (AACS), Red Laser Recordable Video Book – Revision 0.92.
[CPRM-DVD]	Content Protection for Recordable Media Specification, DVD Book, Revision 0.96,
[CPRM-SD-AUDIO]	Content Protection for Recordable Media Specification, SD Memory Card Book, SD-Audio Part, Revision 0.96,
[CPRM-SD-VIDEO093]	Content Protection for Recordable Media Specification, SD Memory Card Book, SD-Video Part, Revision 0.93,
[CPRM-SD-VIDEO096]	Content Protection for Recordable Media Specification, SD Memory Card Book, SD-Video Part, Revision 0.96,
[DTCP14]	Digital Transmission Content Protection Specification Revision 1.4 Informational Version
[DTCP17]	Digital Transmission Content Protection Specification Revision 1.7 Informational Version
[RFC2119]	S. Bradner, <i>Key words for use in RFCs to Indicate Requirement Levels</i> , IETF RFC 2119, March 1997 http://www.ietf.org/rfc/rfc2119.txt

[SAFIA-PDS1]	Security Architecture for Intelligent Attachment Device Specifications – Protocol and Date Structure Volume 1 - Version 1.10
[SAFIA-RPD-Audio]	Security Architecture for Intelligent Attachment Device Specifications – Recording and Playback Device for iVDR –Audio Stream Recording - Version 1.01
[SAFIA-RPD-TV]	Security Architecture for Intelligent Attachment Device Specifications – Recording and Playback Device for iVDR –TV Recording Specification - Version 1.10
[VCPS]	Video Content Protection System for the DVD+R/+RW, Video Recording Format System Description, Version 1.2, February 2005

110

111 **1.3.2 Informative References**

[MGRSARAAD-Info]	MagicGate Type-R for Secure Audio Recording for ATRAC Audio Device Specification – Informational Version – ver0.9
[MGRSARMS-Info]	MagicGate Type-R for Secure Audio Recording for Memory Stick and Memory Stick PRO Specification – Informational Version – ver0.9
[MGRSVREMPR- Info]	MagicGate Type-R for Secure Video Recording Embedded Memory with Playback and Recording Function Specification – Informational Version – ver1.03
[MGRSVRMS-Info]	MagicGate Type-R for Secure Video Recording for Memory Stick PRO Specification – Informational Version – ver1.03 SAFIA Specification License Agreement. February 23, 2007
[NSMCPS-Info]	NSM Specifications, Content Protection System for Self-Encoding Content, – Informational Version – Revision 1.01

112

113 **1.3.3 Byte/Bit Ordering**

114 All data variables in this specification are presented with the most significant bit (or
115 byte) on the left-hand side and the least significant bit (or byte) on the right-hand side
116 (network byte order), unless particular definition is given.

2 Export parameters

2.1 Target System ID and Action Result Parameters

2.1.1 Export to DTCP Action

2.1.1.1 Export to DTCP Action (Revision 1.4)

2.1.1.1.1 Target System ID

To support exporting to DTCP Sinks, a license can implement the Export action. The Target System ID defined to represent an export to a DTCP sink (Revision 1.4) is:

```
urn:marlin:action:export:target:dtcp-1-4
```

2.1.1.1.2 Action Result Parameters

In the Extended Status result for the Describe, Check and Perform methods, the ExportInfo parameter SHALL be an Integer value containing the DTCP descriptor to use for the content, as defined in Digital Transmission Content Protection Specification Revision 1.4 Informational Version [DTCP14], Annex B, Section B.2:

Syntax	Size	Formats
Private_data_type{		
Reserved	1	bslbf
Retention_Move_mode	1	bslbf
Retention_State	3	bslbf
EPN	1	bslbf
DTCP_CCI	2	bslbf
Reserved	5	bslbf
Image_Constraint-Token	1	bslbf
APS	2	bslbf
}		

2.1.1.2 Export to DTCP Action (Revision 1.7)

2.1.1.2.1 Target System ID

To support exporting to DTCP Sinks, a license can implement the Export action. The Target System ID defined to represent an export to a DTCP sink (Revision 1.7) is:

```
urn:marlin:action:export:target:dtcp-1-7
```

2.1.1.2.2 Action Result Parameters

In the Extended Status result for the Describe, Check and Perform methods, the ExportInfo parameter SHALL be an Integer value containing the DTCP descriptor to use for the content, as defined in Digital Transmission Content Protection Specification Revision 1.7 Informational Version [DTCP17], Annex B, Section B.2:

Syntax	Size	Formats
Private_data_type{		
Reserved	1	bslbf
Retention_Move_mode	1	bslbf
Retention_State	3	bslbf
EPN	1	bslbf
DTCP_CCI	2	bslbf
Reserved	3	bslbf
DOT	1	bslbf

```

163         AST 1 bslbf
164         Image_Constraint_Token 1 bslbf
165         APS 2 bslbf
166     }
167

```

168 2.1.2 Export to CPRM Action

169 CPRM is a recording method that can be used to record digital video/audio content to
170 removable or portable media including DVD-R/-RW [CPRM-DVD], SD Memory Cards
171 [CPRM-SD-VIDEO093], [CPRM-SD-AUDIO], and so on.

172
173 This chapter describes identifiers and parameters that are used to export from Marlin
174 to CPRM.

175 2.1.2.1 Export to CPRM for DVD

176 2.1.2.1.1 Target System ID

177 The Target System ID defined to represent an export to a CPRM for DVD sink is:

```

178 urn:marlin:action:export:target:cprm-dvd-0-9-6
179

```

180 2.1.2.1.2 Action Result Parameters

181 In the Extended Status result for the Describe, Check and Perform methods, the
182 ExportInfo parameter SHALL be an Integer value containing following information:

Byte	Bit	7	6	5	4	3	2	1	0
0		CGMS		APSTB		Reserved	EPN	Reserved	

184
185 CGMS, APSTB, EPN and Reserved SHALL be specified according to [CPRM-DVD].
186

187 2.1.2.2 Export to CPRM for SD Video (Revision 0.93)

188 2.1.2.2.1 Target System ID

189 The Target System ID defined to represent an export to a CPRM for SD Video
190 (Revision 0.93) sink is:

```

191 urn:marlin:action:export:target:cprm-sd-video-0-9-3
192

```

193 2.1.2.2.2 Action Result Parameters

194 In the Extended Status result for the Describe, Check and Perform methods, the
195 ExportInfo parameter SHALL be an Integer value containing following information:

Byte	Bit	7	6	5	4	3	2	1	0
0		Initial Move Control Information		Current Move Control Information		Copy Count Control Information			
1		Reserved		APSTB		Reserved			

197

198 Initial Move Control Information, Current Move Control Information, Copy Count
 199 Control Information, APSTB and Reserved SHALL be specified according to [CPRM-
 200 SD-VIDEO093].

201 2.1.2.3 Export to CPRM for SD Video (Revision 0.96)

202 2.1.2.3.1 Target System ID

203 The Target System ID defined to represent an export to a CPRM for SD Video
 204 (Revision 0.96) sink is:

205

urn:marlin:action:export:target:cprm-sd-video-0-9-6

206

207 2.1.2.3.2 Action Result Parameters

208 In the Extended Status result for the Describe, Check and Perform methods, the
 209 ExportInfo parameter SHALL be a 22 bytes ByteArray value containing following
 210 information:

211

Byte	Bit	7	6	5	4	3	2	1	0
0	Trigger Bit			Reserved					
1	Initial Move Control Information			Current Move Control Information		Copy Count Control Information			
2	Reserved			APSTB		Reserved			
3	Validity of Current Start Date	Current First Playback Flag		Current Start Date					
4	Current Start Date								
5	Current Start Date				Current Start Time				
6	Validity of Current End Date	Reserved		Current End Date					
7	Current End Date								
8	Current End Date				Current End Time				
9	Current Playback Counter								
10	Current Playback Counter								
11	Validity of Initial Start Date	Reserved		Initial Start Date					
12	Initial Start Date								
13	Initial Start Date				Initial Start Time				
14	Validity of Initial End Date	Reserved		Initial End Date					

15	Initial End Date		
16	Initial End Date		Initial End Time
17	Initial Playback Counter		
18	Initial Playback Counter		
19	Validity of Span	Reserved	Span Days
20	Span Days		
21	Span Days		Span Time

Trigger Bit, Initial Move Control Information, Current Move Control Information, Copy Count Control Information, APSTB, Validity of Current Start Date, Current First Playback Flag, Current Start Date, Current Start Time, Validity of Current End Date, Current End Date, Current End Time, Current Playback Counter, Validity of Initial Start Date, Initial Start Date, Initial Start Time, Validity of Initial End Date, Initial End Date, Initial End Time, Initial Playback Counter, Validity of Span, Span Days, Span Time and Reserved SHALL be specified according to [CPRM-SD-VIDEO096].

2.1.2.4 Export to CPRM for SD Audio

2.1.2.4.1 Target System ID

The Target System ID defined to represent an export to a CPRM for SD Audio sink is:

urn:marlin:action:export:target:cprm-sd-audio-0-9-6

2.1.2.4.2 Action Result Parameters

In the Extended Status result for the Describe, Check and Perform methods, the ExportInfo parameter SHALL be an Integer value containing following information:

Bit	7	6	5	4	3	2	1	0
Byte								
0	Reserved						CCI	
1	Move Control Information				Check-out Control Information			

CCI, Move Control Information, Check-out Control Information and Reserved SHALL be specified according to [CPRM-SD-AUDIO].

2.1.3 Export to VCPS Action

To support exporting to VCPS Sinks [VCPS], a license can implement the Export action. The Target System ID defined to represent an export to a VCPS sink is:

urn:marlin:action:export:target:vcps-1-2

2.1.3.1 Action Result Parameters

In the Extended Status result for the Describe, Check and Perform methods, the ExportInfo parameter SHALL be an Integer value containing the following information:

244

Bit	7	6	5	4	3	2	1	0
Byte	APS		CGMS1		CGMS2		EPN1	EPN2
0	Reserved							
1								
2								
3								

245

246 Where APS stands for Analog Protection System trigger bits, CGMS for Copy
247 Generation Management System control bits EPN for Encryption Plus Non-Assertion
248 bit

249

250 APS, CGMS, EPN and Reserved SHALL be specified according to [VCPS].

251

252 2.1.4 Export to MG-R Action

253 2.1.4.1 Export to MG-R(SVR) for Memory Stick PRO

254 The parameters that are used to export from Marlin to MG-R(SVR) for Memory Stick
255 PRO are described below.

256

257 urn:marlin:action:export:target:mgr-svr-ms-1-0-3

258

Byte	Bit	7	6	5	4	3	2	1	0
0		CCI		EPN	APSTB		ICT	Reserved	

259

260 CCI, EPN, APSTB, ICT and Reserved SHALL be specified according to
261 [MGRSVRMS-Info].

262 2.1.4.2 Export to MG-R(SAR) for Memory Stick and Memory Stick PRO

263 The parameters that are used to export from Marlin to MG-R(SAR) for Memory Stick
264 and Memory Stick PRO are described below.

265

urn:marlin:action:export:target:mgr-sar-ms-0-9-0

266

Bit Byte	7	6	5	4	3	2	1	0
0	Copyright Protection Information	Copy Generation Information	Reserved		Copy Attribution Information		Reserved	
1	Number of check-out Information							

267

268 Copyright Protection Information, Copy Generation Information, Copy Attribution
269 Information and Reserved SHALL be specified according to [MGRSARMS-Info].
270 Number of check-out Information SHALL be specified according to [MGRSARMS-
271 Info].

272 2.1.4.3 Export to MG-R(SVR) for EMPR

273 The parameters that are used to export from Marlin to MG-R(SVR) for EMPR are
274 described below.

275

urn:marlin:action:export:target:mgr-svr-empr-1-0-3

Byte	Bit	7	6	5	4	3	2	1	0
0		CCI		EPN	APSTB		ICT	Reserved	

CCI, EPN, APSTB, ICT and Reserved SHALL be specified according to [MGRSVREMPR-Info].

2.1.4.4 Export to MG-R(SAR) for ATRAC Audio Device

The parameters that are used to export from Marlin to MG-R(SAR) for ATRAC Audio Device are described below.

urn:marlin:action:export:target:mgr-sar-aad-0-9-0

Bit Byte	7	6	5	4	3	2	1	0
0	Copyright Protection Information	Copy Generation Information	Reserved		Copy Attribution Information		Reserved	
1	Number of check-out Information							

Copyright Protection Information, Copy Generation Information, Copy Attribution Information and Reserved SHALL be specified according to [MGRSARAAD-Info].
Number of check-out Information SHALL be specified according to [MGRSARAAD-Info].

2.1.5 Export to SAFIA for iVDR TV Recording

The parameters that are used to export from Marlin to SAFIA for iVDR TV Recording are described below.

urn:marlin:action:export:target:safia-ivdr-tv-1-1-0

Bit	7	6	5	4	3	2	1	0
Byte	FM		COUNT				MU	MB
0	Content Type							
1	MC		DOT	ICT	APS		Reserved	
2	Reserved							
3								

FM, COUNT, MU, MB and Reserved SHALL be specified according to [SAFIA-PDS1].
Content Type, MC, DOT, ICT and APS SHALL be specified according to [SAFIA-RPD-TV].

2.1.6 Export to SAFIA for iVDR Audio Recording

The parameters that are used to export from Marlin to SAFIA for iVDR Audio Recording are described below.

urn:marlin:action:export:target:safia-ivdr-audio-1-0-1

Byte	Bit	7	6	5	4	3	2	1	0
0		FM		COUNT				MU	MB
1		Reserved							
2									
3									

FM, COUNT, MU, MB and Reserved SHALL be specified according to [SAFIA-PDS1].

2.1.7 Export to AACS Action

2.1.7.1 Export to AACS Blu-ray Disc Recordable for BD-R/RE (Revision 0.92)

2.1.7.1.1 Target System ID

The Target System ID defined to represent an export to AACS Blu-ray Disc Recordable for BD-R/RE (Revision 0.92) [AACSBDRREC092] is:

urn:marlin:action:export:target:aacs-rec-bd-0-9-2

2.1.7.1.2 Action Result Parameters

In the Extended Status result for the Describe, Check and Perform methods, the ExportInfo parameter SHALL be a 16 bytes ByteArray value containing following information:

Bit Byte	7	6	5	4	3	2	1	0
0	Reserved					EPN	CCI	
1	Reserved		Trusted _Input	Image_C onstraint _Token	Digital _Only_ _Token	APS		
2~15	Reserved							

EPN, CCI, Trusted_Input , Image_Constraint_Token, Digital_Only_Token, APS and Reserved SHALL be specified according to [AACSBDRREC092].

2.1.7.2 Export to AACS Blu-ray Disc Recordable for BD-R/RE (Revision 0.95)

2.1.7.2.1 Target System ID

The Target System ID defined to represent an export to AACS Blu-ray Disc Recordable for BD-R/RE (Revision 0.95)[AACSBDRREC095] is:

urn:marlin:action:export:target:aacs-rec-bd-0-9-5

2.1.7.2.2 Action Result Parameters

In the Extended Status result for the Describe, Check and Perform methods, the ExportInfo parameter SHALL be a 16 bytes ByteArray value containing following information:

337

Bit Byte	7	6	5	4	3	2	1	0
0	Reserved					EPN	CCI	
1	Reserved	Move_Not_Allowed	Trusted_Source_Mark_Screening_Required	Image_Constraint-Token	Digital_Only-Token	APS		
2~15	Reserved							

338

339 EPN, CCI, Move_Not_Allowed, Trusted_Source_Mark_Screening_Required,
 340 Image_Constraint-Token, Digital_Only-Token, APS and Reserved SHALL be
 341 specified according to [AACSBDMREC095].

342

343 2.1.7.3 Export to AACSBDMREC095 Disc Recordable for Red Laser Media 344 (Revision 0.92)

345 2.1.7.3.1 Target System ID

346 The Target System ID defined to represent an export to AACSBDMREC095 Disc
 347 Recordable for Red Laser Media (Revision 0.92) defined in Chapter 3 of
 348 [AACSBDMREC092] is:

349

urn:marlin:action:export:target:aacs-rec-bdrl-0-9-2

350 2.1.7.3.2 Action Result Parameters

351 In the Extended Status result for the Describe, Check and Perform methods, the
 352 ExportInfo parameter SHALL be a 16 bytes ByteArray value containing following
 353 information:

354

Bit Byte	7	6	5	4	3	2	1	0
0	Reserved					EPN	CCI	
1	Reserved		Trusted _Input	Image_C onstraint _Token	Digital _Only_ Token	APS		
2~15	Reserved							

355

356 EPN, CCI, Trusted_Input, Image_Constraint-Token, Digital_Only-Token, APS and
 357 Reserved SHALL be specified according to Chapter 3 of [AACSBDMREC092].

358

359 2.1.7.4 Export to AACSBDMREC095 Disc Recordable for Red Laser Media 360 (Revision 0.95)

361 2.1.7.4.1 Target System ID

362 The Target System ID defined to represent an export to AACSBDMREC095 Disc
 363 Recordable for CPRM compliant recordable media and DVD+R/RW (Revision 0.95)
 364 [AACSBDMREC095] is:

365

urn:marlin:action:export:target:aacs-rec-bdrl-0-9-5

2.1.7.4.2 Action Result Parameters

In the Extended Status result for the Describe, Check and Perform methods, the ExportInfo parameter SHALL be a 16 bytes ByteArray value containing following information:

Bit Byte	7	6	5	4	3	2	1	0
0	Reserved					EPN	CCI	
1	Reser ved	Move_ Not_AI lowed	Trusted _Sourc e_Mark _Scree ning_R equired	Image_C onstraint _Token	Digital _Only_ Token	APS		
2~15	Reserved							

EPN, CCI, Move_Not_Allowed, Trusted_Source_Mark_Screening_Required, Image_Constraint_Token, Digital_Only_Token, APS and Reserved SHALL be specified according to [AACSBDREC095].

2.1.8 Export to NSM CPS

The Target System ID defined to represent an export to NSM CPS is:

urn:marlin:action:export:target:nsm-cps-1-0-1

In the Extended Status result for the Describe, Check and Perform methods, the ExportInfo parameter SHALL be a 16 bytes ByteArray value containing the NSM Global CCI to use for the content, as defined in [NSMCPS-Info], Section 6:

Syntax	Size	Formats
Global_CCI{		
EPN	1	bslbf
CCI	2	bslbf
AST	1	bslbf
MNA	1	bslbf
ICT	1	bslbf
DOT	1	bslbf
APSTB	2	bslbf
CopyCount	8	bslbf
Reserved	111	bslbf
}		

2.2 ActionParameters for Marlin IPTV-ES

The following ActionParameters for Marlin IPTV-ES Specification are defined:

- 00h: Export to DTCP.
- 01h: Export to CPRM for DVD.
- 02h: Export to CPRM for SD Video (See 2.1.2.2.2).
- 03h: Export to CPRM for SD Audio.
- 04h: Export to MG-R (SVR) for Memory Stick PRO.
- 05h: Export to MG-R (SAR) for Memory Stick and Memory Stick PRO.
- 06h: Export to VCPS.
- 07h: Export to MG-R (SVR) for EMPR.
- 08h: Export to MG-R (SAR) for ATRAC Audio Device.
- 09h: Export to SAFIA for iVDR TV Recording
- 0Ah: Export to SAFIA for iVDR Audio Recording
- 0Bh: Export to AACS Blu-ray Disc Recordable for BD-R/RE (See 2.1.7.1.2).
- 0Ch: Export to AACS Blu-ray Disc Recordable for Red Laser Media (See 2.1.7.3.2).
- 0Dh: Export to CPRM for SD Video (See 2.1.2.3.2).
- 0Eh: Export to AACS Blu-ray Disc Recordable for BD-R/RE (See 2.1.7.2.2).
- 0Fh: Export to AACS Blu-ray Disc Recordable for Red Laser Media (See 2.1.7.4.2).
- 10h: Export to NSM CPS (See 2.1.8).