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# Marlin - Export Parameter Specification

Version 1.2  
Final

Source	Marlin Developer Community
Date	October 8, 2013

39

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75

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 <a href="http://www.ietf.org/rfc/rfc2119.txt">http://www.ietf.org/rfc/rfc2119.txt</a>

- [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.

## 117 2 Export parameters

### 118 2.1 Target System ID and Action Result Parameters

#### 119 2.1.1 Export to DTCP Action

##### 120 2.1.1.1 Export to DTCP Action (Revision 1.4)

###### 121 2.1.1.1.1 Target System ID

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

124

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

###### 125 2.1.1.1.2 Action Result Parameters

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

130

131 Syntax	Size	Formats
132 Private_data_type{		
133     Reserved	1	bslbf
134     Retention_Move_mode	1	bslbf
135     Retention_State	3	bslbf
136     EPN	1	bslbf
137     DTCP_CCI	2	bslbf
138     Reserved	5	bslbf
139     Image_Constraint-Token	1	bslbf
140     APS	2	bslbf
141 }		

142

##### 143 2.1.1.2 Export to DTCP Action (Revision 1.7)

###### 144 2.1.1.2.1 Target System ID

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

147

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

###### 148 2.1.1.2.2 Action Result Parameters

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

153

154 Syntax	Size	Formats
155 Private_data_type{		
156     Reserved	1	bslbf
157     Retention_Move_mode	1	bslbf
158     Retention_State	3	bslbf
159     EPN	1	bslbf
160     DTCP_CCI	2	bslbf
161     Reserved	3	bslbf
162     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:

183

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:

196

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	

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220

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].

221 **2.1.2.4 Export to CPRM for SD Audio**

222 **2.1.2.4.1 Target System ID**

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

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

226

227 **2.1.2.4.2 Action Result Parameters**

228 In the Extended Status result for the Describe, Check and Perform methods, the  
229 ExportInfo parameter SHALL be an Integer value containing following information:  
230

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

231  
232  
233  
234

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

235 **2.1.3 Export to VCPS Action**

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

238

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

239

240 **2.1.3.1 Action Result Parameters**

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

244

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

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

Byte	Bit	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-Info].  
 271

### 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

276

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

277

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

#### 280 2.1.4.4 Export to MG-R(SAR) for ATRAC Audio Device

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

283

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

284

Byte	Bit	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							

285

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

290

#### 291 2.1.5 Export to SAFIA for iVDR TV Recording

292

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

295

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

296

297

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

298

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

302

#### 303 2.1.6 Export to SAFIA for iVDR Audio Recording

304

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

307

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

308

309

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

310

311

312

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:

318

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:

323

Byte	Bit	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							

324

325

326

327

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:

332

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:

336

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

340

341

342

EPN, CCI, Move\_Not\_Allowed, Trusted\_Source\_Mark\_Screening\_Required, Image\_Constraint-Token, Digital\_Only-Token, APS and Reserved SHALL be specified according to [AACSBDRREC095].

343

344

### 2.1.7.3 Export to AACS Blu-ray Disc Recordable for Red Laser Media (Revision 0.92)

345

#### 2.1.7.3.1 Target System ID

346

347

348

349

The Target System ID defined to represent an export to AACS Blu-ray Disc Recordable for Red Laser Media (Revision 0.92) defined in Chapter 3 of [AACSRRLREC092] is:

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

350

#### 2.1.7.3.2 Action Result Parameters

351

352

353

354

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_Constraint-Token	Digital_Only-Token	APS		
2~15	Reserved							

355

356

357

358

EPN, CCI, Trusted\_Input, Image\_Constraint-Token, Digital\_Only-Token, APS and Reserved SHALL be specified according to Chapter 3 of [AACSRRLREC092].

359

360

### 2.1.7.4 Export to AACS Blu-ray Disc Recordable for Red Laser Media (Revision 0.95)

361

#### 2.1.7.4.1 Target System ID

362

363

364

365

The Target System ID defined to represent an export to AACS Blu-ray Disc Recordable for CPRM compliant recordable media and DVD+R/RW (Revision 0.95) [AACSBDRREC095] is:

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

366 **2.1.7.4.2 Action Result Parameters**

367 In the Extended Status result for the Describe, Check and Perform methods, the  
 368 ExportInfo parameter SHALL be a 16 bytes ByteArray value containing following  
 369 information:  
 370

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							

371  
 372 EPN, CCI, Move\_Not\_Allowed, Trusted\_Source\_Mark\_Screening\_Required,  
 373 Image\_Constraint\_Token, Digital\_Only\_Token, APS and Reserved SHALL be  
 374 specified according to [AACSBDRREC095].  
 375

376 **2.1.8 Export to NSM CPS**

377  
 378 The Target System ID defined to represent an export to NSM CPS is:  
 379

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

380  
 381 In the Extended Status result for the Describe, Check and Perform methods, the  
 382 ExportInfo parameter SHALL be a 16 bytes ByteArray value containing the NSM  
 383 Global CCI to use for the content, as defined in [NSMCPS-Info], Section 6:  
 384

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
}		

396  
 397  
 398  
 399

## 400 **2.2 ActionParameters for Marlin IPTV-ES**

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

- 402 • 00h: Export to DTCP.
- 403 • 01h: Export to CPRM for DVD.
- 404 • 02h: Export to CPRM for SD Video (See 2.1.2.2.2).
- 405 • 03h: Export to CPRM for SD Audio.
- 406 • 04h: Export to MG-R (SVR) for Memory Stick PRO.
- 407 • 05h: Export to MG-R (SAR) for Memory Stick and Memory Stick PRO.
- 408 • 06h: Export to VCPS.
- 409 • 07h: Export to MG-R (SVR) for EMPR.
- 410 • 08h: Export to MG-R (SAR) for ATRAC Audio Device.
- 411 • 09h: Export to SAFIA for iVDR TV Recording
- 412 • 0Ah: Export to SAFIA for iVDR Audio Recording
- 413 • 0Bh: Export to AACCS Blu-ray Disc Recordable for BD-R/RE (See 2.1.7.1.2).
- 414 • 0Ch: Export to AACCS Blu-ray Disc Recordable for Red Laser Media (See
- 415 2.1.7.3.2).
- 416 • 0Dh: Export to CPRM for SD Video (See 2.1.2.3.2).
- 417 • 0Eh: Export to AACCS Blu-ray Disc Recordable for BD-R/RE (See 2.1.7.2.2).
- 418 • 0Fh: Export to AACCS Blu-ray Disc Recordable for Red Laser Media (See
- 419 2.1.7.4.2).
- 420 • 10h: Export to NSM CPS (See 2.1.8).

421  
422