

**CEA's Proposed Draft Amendments to Regulations, filed as Appendix A to
CEA Comments on Third Further Notice of Proposed Rulemaking
CS Docket No. 97-80, PP Docket No. 00-67, August 24, 2007**

1 Part 15 of the Code of Federal Regulations is amended as follows:
2

3 PART 15 - RADIO FREQUENCY DEVICES
4

- 5 1. The authority for Part 15 continues to read as follows:
6

7 AUTHORITY: 47 U.S.C. 154, 302a, 303, 304, 307, 336, and 544a.
8

- 9 2. Amend § 15.38 by revising paragraphs (b)(1)(3) and (b)(5), adding paragraphs
10 (b)(14)-(18), and adding paragraph (c), to read as follows:¹
11

12 **§ 15.38 Incorporations by Reference**
13

14 *****
15

16 (b) ***
17

18 (1) SCTE 28 [2008]: "Host-POD Interface Standard," 2008,² IBR
19 approved for §§ 15.123, 15.124.
20

21 (2) SCTE 41 [2008]: "POD Copy Protection System," 2008,³ IBR
22 approved for §§ 15.123, 15.124.
23

24 (3) SCTE 54 2006: "Digital Video Service Multiplex and Transport System
25 Standard for Cable Television," 2006, IBR approved for § 15.123.
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28

29 (5) ANSI/SCTE 65 [2008]: "Service Information Delivered Out-of-Band
30 for Digital Cable Television," 2008,⁴ IBR approved for §§ 15.123,
31 15.124.

¹ All standards designated throughout these proposed regulations for "[2008]" publication are existing standards that require minor revisions to enable the capabilities set forth in these Comments. These draft regulations assume that affected standards will be published in 2008, following joint agreement by the Cable and CE industries. *See also* n.2-n.4 *infra*.

² SCTE 28 2003: "Host-POD Interface Standard" 2003, revised as necessary to include those provisions of OC-SP-CCIF2.0-I03-051117: "CableCARD Interface 2.0 Specification," deemed acceptable to both the CE and cable industries, and further revised as necessary to include support for switched-digital video, pay per view, and video on demand as set forth in Appendix C to these Comments.

³ SCTE 41 2003: "POD Copy Protection System," revised as necessary to include those provisions of OC-SP-CCCP2.0-I02-050708: "CableCARD Copy Protection 2.0 Specification," deemed acceptable to both the CE and cable industries.

⁴ ANSI/SCTE 65 2003: "Service Information Delivered Out-of-Band for Digital Cable Television," revised as necessary to include new profile 4 for delivery of metadata, as set forth in Appendix C to these Comments.

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- 4
5 (14) SCTE DVS 683r3: "AVC Video Systems and Transport Constraints for
6 Cable Television," (in progress), IBR approved for § 15.124.
7
8 (15) ISO/IEC 14496-10:2005: "Information technology - Coding of audio-
9 visual objects - Part 10: Advanced Video Coding," 2005, IBR approved
10 for § 15.124.
11
12 (16) SCTE 79-1 2003: "DOCSIS 2.0 Part 1: Radio Frequency Interface,"
13 2003, IBR approved for § 15.124.
14
15 (17) SCTE 106 2005: "DOCSIS Set-Top Gateway (DSG) Specification,"
16 2005, IBR approved for § 15.124.
17
18 (18) SCTE 90-1 [2008]: "SCTE Application Platform Standard OCAP 1.x
19 Profile," 2008, IBR approved for § 15.124.⁵
20

21 (c) The following materials are freely available from at least one of the following
22 addresses: Cable Television Laboratories, Inc., 858 Coal Creek Circle, Louisville,
23 Colorado 80027, www.cablelabs.com/udcp; or Consumer Electronics Association, 1919
24 S. Eads St., Arlington, VA 22202, ~~2500 Wilson Blvd., Arlington, VA 22201,~~
25 www.ce.org/publicpolicy.
26

- 27 (1) Uni-Dir-PICS-I03-040831: "Uni-Directional Receiving Device:
28 Conformance Checklist: PICS Proforma," 2004, IBR approved for §§
29 15.123.
30
31 (2) Uni-Dir-ATP-I05-040629: "Uni-Directional Receiving Device
32 Acceptance Test Plan," 2004, IBR approved for § 15.123.
33
34 (3) OC-SP-OCAP1.0.0-070814: "OCAP 1.0 Profile," 2007, IBR approved
35 for § 15.124.
36
37 (4) OC-SP-OCAP1.1-I01-061229: "OCAP 1.1 Profile," 2006, IBR
38 approved for § 15.124.
39
40 (5) OC-SP-HOST2.0-CFR-I14-070615: "OpenCable Host Device 2.0
41 Core Functional Requirements," 2007, IBR approved for § 15.124.

⁵ Currently, two incompatible versions of the OpenCable Application Platform profile exist: OC-SP-OCAP1.0.0-070814 and OC-SP-OCAP1.1-I01-061229. As proposed herein, SCTE would promulgate a common successor to these two versions, SCTE 90-1 [2008], which would incorporate all of the distinct provisions of OCAP1.0.0-070814 and OC-SP-OCAP1.1-I01-061229 into a single, unified, and final standard.

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1
2 (6) OC-SP-HOST2.1-CFR-I01-070720: "OpenCable Host Device 2.1 Core
3 Functional Requirements", 2007, IBR approved for § 15.124.
4

5 3. Amend Section 15.123(a), (c)(2), and add Section (c)(4) to read as follows:
6

7 **§ 15.123 Labeling of Digital Cable Ready Products.**
8

9 (a) The requirements of this section shall apply to unidirectional digital cable
10 products. Unidirectional digital cable products are one-way devices that accept a Point of
11 Deployment module (POD) and which include, but are not limited to televisions, set-top
12 boxes and recording devices connected to digital cable systems. Unidirectional digital
13 cable products do not include interactive two-way digital television products, except that
14 unidirectional digital cable products may have a bi-directional capacity so as to allow a
15 user to select linear programming that is made available by a cable operator on a
16 "switched digital" basis.
17

18 *****
19

20 (c) ***
21

22 ***
23

24 (2) A qualified test facility is a ~~facility~~ testing laboratory representing cable
25 television system operators serving a majority of the cable television
26 subscribers in the United States or an appropriately qualified
27 independent laboratory with adequate equipment and competent
28 personnel knowledgeable with respect to the standards referenced in
29 paragraph (b) of this section concerning the procedures set forth in Uni-
30 Dir-PICS-I03-040831: "Uni-Directional Receiving Device:
31 Conformance Checklist: PICS Proforma," 2004, (incorporated by
32 reference, see § 15.38) and with Uni-Dir-ATP-I05-040629: "Uni-
33 Directional Receiving Device Acceptance Test Plan," 2004,
34 (incorporated by reference, see § 15.38). This facility will maintain a
35 representative sample of approved, fielded interactive digital cable ready
36 devices and interactive applications (both unbound and bound) for
37 purposes of interoperability testing. For any testing laboratory to be
38 qualified hereunder such laboratory must ensure that all its decisions are
39 impartial and have a documented structure which safeguards impartiality
40 of the operations of the testing laboratory.
41

42 (3) Subsequent to the testing of its initial unidirectional digital cable product
43 model, a manufacturer or importer is not required to have other models
44 of unidirectional digital cable products tested at a qualified test facility
45 for compliance with the procedures of ~~Uni-Dir-PICS-I03-040831-~~
46 ~~030903:~~ "Uni-Directional Receiving Device: Conformance Checklist:

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1 PICS Proforma," 2003~~4~~, (incorporated by reference, see § 15.38). The
2 manufacturer or importer shall ensure that all subsequent models of
3 unidirectional digital cable products comply with the procedures in the
4 Uni-Dir-PICS-I03-040831~~1-030903~~: "Uni-Directional Receiving
5 Device: Conformance Checklist: PICS Proforma," 2003~~4~~, (incorporated
6 by reference, see § 15.38) and all other applicable rules and standards.
7 The manufacturer or importer shall maintain records indicating such
8 compliance in accordance with the verification procedure requirements
9 in part 2, subpart J of this chapter. The manufacturer or importer shall
10 further submit documentation verifying compliance with the procedures
11 in the Uni-Dir-PICS-I03-040831~~1-030903~~: "Uni-Directional Receiving
12 Device: Conformance Checklist: PICS Proforma," 2003~~4~~, (incorporated
13 by reference, see § 15.38) to the testing laboratory representing cable
14 television system operators serving a majority of the cable television
15 subscribers in the United States.

16
17 (4) Unidirectional digital cable product models must be tested for
18 compliance with Uni-Dir-PICS-I03-040831: "Uni-Directional Receiving
19 Device: Conformance Checklist: PICS Proforma" (incorporated by
20 reference, see § 15.38) in accordance with Uni-Dir-ATP-I05-040629:
21 "Uni-Directional Receiving Device Acceptance Test Plan,"
22 (incorporated by reference, see § 15.38) or an equivalent test procedure
23 that produces identical pass/fail test results. In the event of any dispute
24 over the applicable results under an equivalent test procedure, the results
25 under Uni-Dir-ATP-I05-040629: "Uni-Directional Receiving Device
26 Acceptance Test Plan," (incorporated by reference, see § 15.38) shall
27 govern.

28
29 4. Add § 15.124 to subpart B to read as follows:
30

31 **§ 15.124 Labeling of Interactive Digital Cable Ready Products.**

32
33 (a) The requirements of this section shall apply to interactive digital cable ready
34 products. Interactive digital cable products are two-way devices that accept a Point of
35 Deployment module (POD) and which are capable of receiving interactive services,
36 including a cable operator's interactive program guide, switched digital video, and other
37 interactive applications, which include, but are not limited to televisions and set-top-
38 boxes connected to digital cable systems.

39
40 (b) An interactive digital cable product may not be labeled with or marketed in a
41 manner that conveys the impression that it is compatible with interactive digital cable
42 services unless it implements, at a minimum, the following features:

43
44 (1) Tunes NTSC analog channels transmitted in-the-clear.

45
46 (2) Tunes digital channels that are transmitted in compliance with

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1 ANSI/SCTE 40 2004: "Digital Cable Network Interface Standard"
2 (incorporated by reference, see § 15.38), provided, however, that with
3 respect to Table B.11 of that standard, the phase noise requirement shall
4 be -86 dB/Hz including both in-the-clear channels and channels that are
5 subject to conditional access.
6

7 (3) Allows navigation of channels based on channel information (virtual
8 channel map and source names) provided through the cable system in
9 compliance with ANSI/SCTE 65 [2008]: "Service Information
10 Delivered Out-of-Band for Digital Cable Television" (incorporated by
11 reference, see § 15.38), or PSIP-enabled navigation in compliance with
12 ANSI/SCTE 54 2006: "Digital Video Service Multiplex and Transport
13 System Standard for Cable Television," (incorporated by reference, see
14 § 15.38).
15

16 (4) Includes the POD-Host Interface specified in SCTE 28 [2008]: "Host-
17 POD Interface Standard," (incorporated by reference, see § 15.38), and
18 SCTE 41 [2008]: "POD Copy Protection System," (incorporated by
19 reference, see § 15.38).
20

21 (5) Responds to emergency alerts that are transmitted in compliance with
22 ANSI/SCTE 54 2006: "Digital Video Service Multiplex and Transport
23 System Standard for Cable Television" (incorporated by reference, see §
24 15.38).
25

26 (6) Includes a DTV broadcast tuner as set forth in § 15.117(i).
27

28 (7) Implements the requirements set forth in either subsection (c) or
29 subsection (d) of this section.
30

31 **(c) DCR Plus Products.** To meet the definition of a "DCR Plus Product" as
32 referenced herein, an interactive digital cable product shall:
33

34 (1) Support bidirectional communication over the cable plant through an
35 embedded cable modem compatible with SCTE 79-1 2003: "DOCSIS
36 2.0 Part 1: Radio Frequency Interface," (incorporated by reference, see §
37 15.38), implementing the DOCSIS Set-Top Gateway protocols defined
38 in SCTE 106 2005: "DOCSIS Set-Top Gateway (DSG) Specification,"
39 (incorporated by reference, see § 15.38). Interactive digital cable
40 products shall not be obligated to support legacy (i.e. non-DOCSIS) out-
41 of-band modes.
42

43 i) The set DSG mode() API of the Extended Channel Resource
44 defined in SCTE 28 [2008]: "Host-POD Interface Standard,"
45 (incorporated by reference, see § 15.38) shall always return an
46 operational_mode type of DSG_mode (0x01).

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- (2) In addition to audio and video decoding requirements set forth in § 15.123(b) for unidirectional digital cable products, also parses and decodes advanced codec audio-video content that complies with the normative elements from ISO/IEC 14496-10:2005: “Information technology -- Coding of audio-visual objects -- Part 10: Advanced Video Coding,” (incorporated by reference, see § 15.38), with constraints listed in SCTE DVS 683r3: “AVC Video Systems and Transport Constraints for Cable Television,” (in progress), (incorporated by reference, see § 15.38).
- (3) Supports navigation and display of digital channels offered via switched digital broadcast (SDB) technology via the SDB resource defined in SCTE 28 [2008]: “Host-POD Interface Standard,” (incorporated by reference, see § 15.38).
- (4) Presents switched broadcast programming to the user, as identified by the channel type parameter being set to the value ‘2’ in the virtual channel record format defined in Table 5.17 of SCTE 65 [2008]: “Service Information Delivered Out-of-Band for Digital Cable Television,” (incorporated by reference, see 15.38). The meaning of the channel_type parameter shall be changed to the following:

<u>channel type</u>	<u>Meaning</u>
<u>0</u>	<u>normal</u> — Indicates that the record is a regular virtual channel record. For non- MPEG-2 channels, the waveform_type shall be defined as “normal.”
<u>1</u>	<u>hidden</u> — Indicates that the record identifies a virtual channel that may not be accessed by the user by direct entry of the channel number (hidden). Hidden channels are skipped when the user is channel surfing, and appear as if undefined if accessed by direct channel entry. Programs constructed for use by specific applications (such as NVD theaters) utilize hidden virtual channels. If a channel_properties_descriptor() is present and the hide_guide bit is 0, the channel may be considered to be <i>inactive</i> . Inactive channels may appear in EPG displays.
<u>2</u>	<u>switched</u> — Indicates that the record identifies a virtual channel that may be switched on or off of the network. Therefore the CDS reference and MMS reference may be invalid and must be obtained via the SDB resource in order to tune to the channel.
<u>3-15</u>	<u>reserved</u> — Hosts are expected to treat virtual channel records of unknown channel_type the same as non-existent (undefined) channels.

24

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- 1 (5) Supports navigation and display of video on demand (VOD) content
2 via a VOD resource defined in SCTE 28 [2008]:“Host-POD Interface
3 Standard,” (incorporated by reference, see § 15.38).
4
- 5 (6) Shall present to an end user the entire list of authorized titles delivered
6 by the VOD system and not selectively remove titles. The title
7 hierarchical structure outlined by the VOD system metadata, if
8 displayed, will not be modified.
9
- 10 (7) Shall not retain VOD content metadata longer than indicated by the
11 VOD system that the title information is valid
12
- 13 (8) Supports impulse pay per view (IPPV) operation.
14
- 15 (9) Shall use the Generic IPPV Support resource defined in SCTE 28
16 [2008]:“Host-POD Interface Standard,” (incorporated by reference,
17 see § 15.38).
18
- 19 (10) Shall support IPPV purchase PIN and IPPV PIN reset functions
20 through the Generic Feature Control resource defined in SCTE 28
21 [2008]:“Host-POD Interface Standard,” (incorporated by reference,
22 see § 15.38).
23

24 **(d) OCAP-Enabled Products.** To meet the definition of an “OCAP-Enabled
25 Product” as referenced herein, an interactive digital cable product shall:
26

- 27 (1) Implement either OC-SP-OCAP1.0.0-070814: “OCAP 1.0 Profile,”
28 (incorporated by reference, see § 15.38), or OC-SP-OCAP1.1-I01-
29 061229: “OCAP 1.1 Profile,” (incorporated by reference, see § 15.38),
30 or SCTE 90-1 [2008]: “SCTE Application Platform Standard OCAP
31 1.x Profile,” (incorporated by reference, see § 15.38), or successor
32 versions of these specifications.
33
- 34 (2) Implement OC-SP-HOST2.1-CFR-I01-070720: “OpenCable Host
35 Device 2.1 Core Functional Requirements,” (incorporated by
36 reference, see § 15.38) or OC-SP-HOST2.0-CFR-I14-070615,
37 “OpenCable Host Device 2.0 Core Functional Requirements,”
38 (incorporated by reference, see § 15.38), or successor versions of
39 these specifications.
40

41 **(e) Certification and Testing.**

- 42
- 43 (1) A manufacturer or importer of a DCR Plus product shall have a sample
44 of its first model tested at a qualified test facility to show compliance
45 with §§ 15.124(b), (c). The manufacturer’s or importer’s subsequent
46 DCR Plus products may thereafter be self-certified.

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1
2 (2) A manufacturer or importer of an OCAP-enabled product shall have a
3 sample of its first model tested [at a qualified test facility] to show
4 compliance with the Interoperability Audit Acceptance Test Plan and
5 PICS as published on the CableLabs website, www.opencable.com,
6 (and as referred to in the OpenCable Certification Wave Guidelines)
7 for the Host Profile in question, and as tested by CableLabs in a fair,
8 objective, verifiable and non-discriminatory manner. If the Host
9 Device does not pass the audit by CableLabs, the Licensee will be
10 informed of the specific reasons for such failure, and shall be given an
11 opportunity to correct in a timely fashion and re-request Certification
12 in accordance with the OpenCable Certification Wave Guidelines. The
13 manufacturer's or importer's subsequent OCAP-enabled products may
14 thereafter be self-certified.

15
16 Part 76 of the Code of Federal Regulations is amended as follows:

17
18 **PART 76 – MULTICHANNEL VIDEO AND CABLE TELEVISION SERVICE**

19
20 5. The authority for Part 76 continues to read as follows:

21
22 AUTHORITY: 47 U.S.C. 151, 152, 153, 154, 301, 302, 302a, 303, 303a, 307,
23 308, 309, 312, 315, 317, 325, 339, 340, 341, 503, 531, 522, 531, 532, 534,
24 535, 536, 537, 543, 544, 544a, 545, 548, 549, 552, 554, 556, 558, 560, 561,
25 571, 572, and 573.

26
27 6. Amend § 76.602 by revising paragraphs (b)(2)-(3), (b)(5) and (b)(10)-(12), and by
28 adding paragraph (c) to read as follows:

29
30 **§ 76.602 Incorporations by reference.**

31
32 *****

33
34 (b) ***

35
36 (2) SCTE 28 [2008]: “Host-POD Interface Standard,” 2008,⁶ IBR
37 approved for §§ 76.640, 76.641.

38
39 (3) SCTE 41 [2008]: “POD Copy Protection System,” 2008,⁷ IBR approved
40 for §§ 76.640, 76.641.

41
42 ***

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⁶ See *supra*, n.2.

⁷ See *supra*, n.3.

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1 (5) ANSI/SCTE 65 [2008]: “Service Information Delivered Out-of-Band
2 for Digital Cable Television,” 2003⁸, IBR approved for §§ 76.640,
3 76.641.

4
5 ***

6
7 (10) SCTE 79-1 2003: “DOCSIS 2.0 Part 1: Radio Frequency Interface,”
8 2003, IBR approved for § 76.641.

9
10 (11) SCTE 106 2005: “DOCSIS Set-Top Gateway (DSG) Specification,”
11 2005, IBR approved for § 76.641.

12
13 (12) SCTE 90-1 [2008]: “SCTE Application Platform Standard OCAP 1.x
14 Profile,” 2008,⁹ IBR approved for § 76.641.

15
16 (c) The following materials are freely available from at least one of the following
17 addresses: Cable Television Laboratories, Inc., 858 Coal Creek Circle, Louisville,
18 Colorado, 80027, www.cablelabs.com/udcp; or at the Consumer Electronics Association,
19 1919 S. Eads Street, Arlington, VA, 22202, www.ce.org/publicpolicy.

20
21 (1) OC-SP-CCIF2.0-I03-051117: “CableCARD Interface 2.0 Specification,”
22 2005, IBR approved for § 76.641.

23
24 (2) OC-SP-CCCP2.0-I02-050708: “CableCARD Copy Protection 2.0
25 Specification,” 2005, IBR approved for § 76.641.

26
27 (3) OC-SP-OCAP1.0.0-070814: “OCAP 1.0 Profile,” 2007, IBR approved
28 for § 76.641.

29
30 (4) OC-SP-OCAP1.1-I01-061229: “OCAP 1.1 Profile,” 2006, IBR
31 approved for § 76.641.

32
33 7. Add § 76.641 to subpart B to read as follows:

34
35 **§ 76.641 Support for Interactive Digital Cable Ready Products on Digital**
36 **Cable Systems.**

37
38 (a) The requirements of this section shall apply to all digital cable systems that
39 are subject to the requirements set forth in § 76.640, as specified in § 76.640(a).

40
41 (b) Digital cable systems shall support interactive digital cable products, as
42 defined in § 15.124 of this chapter, through compliance with the obligations set forth in §
43 76.640, as well as through compliance with the obligations set forth in this § 76.641.

44

⁸ *See, supra*, n.4.

⁹ *See, supra*, n.5.

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1 c) No later than November 1, 2008, cable operators shall support DCR Plus
2 products as follows:

3
4 (1) Make available, upon request of a customer, PODs that comply with the
5 standards specified in SCTE 28 [2008]: "Host-POD Interface
6 Standard," (incorporated by reference, see § 76.602) and SCTE 41
7 [2008]: "POD Copy Protection System," (incorporated by reference,
8 see § 76.602).

9
10 (2) Ensure an adequate supply of PODs that comply with the standards
11 specified in SCTE 28 [2008]: "Host-POD Interface Standard,"
12 (incorporated by reference, see § 76.602) and SCTE 41 [2008]: "POD
13 Copy Protection System," (incorporated by reference, see § 76.602) to
14 ensure convenient access to such PODs by customers.

15
16 (3) Implement bi-directional DOCSIS out-of-band (OOB) communication
17 as set forth in SCTE 79-1 2003: "DOCSIS 2.0 Part 1: Radio Frequency
18 Interface," (incorporated by reference, see § 76.602), using the DOCSIS
19 Set-top Gateway (DSG) mode defined in SCTE 106 2005: "DOCSIS
20 Set-Top Gateway (DSG) Specification," (incorporated by reference, see
21 § 76.602), for PODs paired with interactive digital cable ready products.

22
23 (4) Switched digital broadcast (SDB) support:

24
25 (i) Identify SDB channels in the virtual channel record (defined in
26 Table 5.17 of ANSI/SCTE 65 [2008], "Service Information
27 Delivered Out-of-Band for Digital Cable Television,"
28 (incorporated by reference, see § 76.602)) by setting the value of
29 channel_type to '2'.

30
31 (ii) Support the SDB resource defined SCTE 28 [2008]: "Host-POD
32 Interface Standard," (incorporated by reference, see § 76.602) to
33 provide SDB channel information and support, including
34 Application Layer Protocol Data Units (APDUs) for tune requests,
35 tuning confirmations, and tuning cancellations or alternative
36 channels.

37
38 (5) Video On Demand (VOD) support:

39
40 (i) Support the VOD resource defined in SCTE 28 [2008]: "Host-
41 POD Interface Standard," (incorporated by reference, see §
42 76.602).

43
44 (ii) Provide the entire VOD content hierarchy, content descriptive
45 metadata, purchase information and group folder names in XML
46 format as defined in the VOD resource of SCTE 28 [2008]: "Host-

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1 POD Interface Standard," (incorporated by reference, see §
2 76.602).

3
4 (6) EPG Support:

5
6 (i) Transmit program guide data via Profile 4 of ANSI/SCTE 65
7 [2008]: "Service Information Delivered Out-of-Band for Digital
8 Cable Television," (incorporated by reference, see § 76.602) from
9 the POD to the host device.

10
11 a. Such Profile 4 data shall include at least as many Aggregate
12 Event Information Tables (AEIT) as necessary to supply
13 accurate and complete program title, program start time and
14 program duration to cover a time period equivalent to the time
15 period covered by any Cable provider supplied electronic
16 program guide.

17
18 b. Supplied data shall include Content Advisory Descriptors,
19 Caption Service Descriptors and other descriptors and
20 associated information as appropriate to supply equivalent
21 information as supplied by any Cable provider supplied
22 electronic program guide. Additionally, supplied data shall
23 include Aggregate Extended Text Tables (AETT) to supply
24 accurate and complete program description when such program
25 descriptions are available, and in each language available in
26 other cable-operator provided electronic program guides,
27 electronic descriptions or other electronic delivery
28 mechanisms.

29
30 (7) Common Reliance:

31
32 No later than July 1, 2009, no more than 80% of navigation devices placed
33 in service via sale, lease, or use by a cable operator subject to this section
34 shall perform in a single device both the basic functions as specified in
35 SCTE 28 [2008]: "Host-POD Interface Standard," (incorporated by
36 reference, see § 76.602), and SCTE 41 2003: "POD Copy Protection
37 System," (incorporated by reference, see § 76.602), and other functions.

38
39 (d) No later than the dates as set forth below, digital cable systems shall support
40 OCAP-Enabled Products (as defined in § 15.124 of this chapter) as follows:

41
42 (1) Effective January 1, 2008, digital cable systems shall make available,
43 upon request of a customer, PODs that comply with the standards
44 specified in OC-SP-CCIF2.0-I03-051117: "CableCARD Interface 2.0
45 Specification," (incorporated by reference, see § 76.602) and OC-SP-
46 CCCP2.0-I02-050708: "CableCARD Copy Protection 2.0 Specification,"

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1 2005, (incorporated by reference, *see* § 76.602).
2

3 (2) Effective January 1, 2008, digital cable systems shall ensure an adequate
4 supply of PODs that comply with the standards specified in CableCARD
5 Interface 2.0 Specification OC-SP-CCIF2.0-I03-051117 (incorporated by
6 reference, *see* § 76.602) and CableCARD Copy Protection 2.0
7 Specification OC-SP-CCCP2.0-102-050708 (incorporated by reference,
8 *see* § 76.602) to ensure convenient access to such PODs by customers.
9

10 (3) Effective November 1, 2008, digital cable systems shall make available,
11 upon request of a customer, PODs that comply with the standards
12 specified in SCTE 28 [2008]: “Host-POD Interface Standard,”
13 (incorporated by reference, *see* § 76.602) and SCTE 41 [2008]: “POD
14 Copy Protection System,” (incorporated by reference, *see* § 76.602).
15

16 (4) Effective November 1, 2008, digital cable systems shall ensure an
17 adequate supply of PODs that comply with the standards specified in
18 SCTE 28 [2008]: “Host-POD Interface Standard,” (incorporated by
19 reference, *see* § 76.602), and SCTE 41 [2008]: “POD Copy Protection
20 System,” (incorporated by reference, *see* § 76.602) to ensure convenient
21 access to such PODs by customers.
22

23 (5) In addition, each cable operator shall:
24

25 i) No later than January 1, 2008, begin deployment of network support
26 for OC-SP-OCAP1.0.0-070814: “OCAP 1.0 Profile,” (incorporated by
27 reference, *see* § 76.602).
28

29 ii) No later than July 1, 2008, support OCAP-Enabled Products, as
30 defined in § 15.124 of this chapter, through deployment of OC-SP-
31 OCAP1.0.0-070814: “OCAP 1.0 Profile” (incorporated by reference,
32 *see* § 76.602) on headends that serve at least 50% of the subscribers
33 served by a digital cable system with an activated channel capacity of
34 750 MHz or greater and serving 5,000 or more subscribers.
35

36 iii) No later than November 1, 2008, support OCAP-Enabled Products, as
37 defined in § 15.124 of this chapter, through deployment of OC-SP-
38 OCAP1.1-I01-061229: “OCAP 1.1 Profile” (incorporated by
39 reference, *see* § 76.602) on headends that serve at least 50% of the
40 subscribers served by a digital cable system with an activated channel
41 capacity of 750 MHz or greater and serving 5,000 or more subscribers.
42

43 iv) No later than July 1, 2009, support OCAP-Enabled Products, as
44 defined in § 15.124 of this chapter, through deployment of SCTE 90-1
45 [2008]: “SCTE Application Platform Standard OCAP 1.x Profile”
46 (incorporated by reference, *see* § 76.602) on all digital cable systems

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1 with an activated channel capacity of 750 MHz or greater serving
2 5,000 or more subscribers.

3
4 v) No later than July 1, 2009, shall rely on SCTE 90-1 [2008]: "SCTE
5 Application Platform Standard OCAP 1.x Profile," (incorporated by
6 reference, see § 76.602) and only this specification, in at least 20
7 percent of any navigation devices placed in service via sale, lease, or
8 use.

9
10 (6) Cable operators may deploy successor versions of the OpenCable
11 Application Platform specifications referenced herein, including SCTE
12 90-1 [2008]: "SCTE Application Platform Standard OCAP 1.x Profile,"
13 (incorporated by reference, see § 76.602), provided that their networks
14 continue to fully support and remain compatible with interactive
15 devices that were initially approved and deployed in compliance with
16 any earlier version of the OpenCable Application Platform
17 Specification and OpenCable Host Core Functional Requirements that
18 was current at the time the device was approved and deployed. In this
19 context, "to fully support and remain compatible" means to support a
20 device's access, without substantial decrease in device capability, to all
21 the interactive services (including Video on Demand and Electronic
22 Program Guide) that were accessible through that device on the
23 operator's network at the time the device was approved and deployed.

24
25 (e) To assure consumer confidence in the operation of competitive devices for
26 navigation of interactive digital cable services, as required by Section 629 of the
27 Communications Act,

28
29 (1) Before being placed into service on a cable system, interactive
30 applications other than those bound to the particular rendering of a
31 program (i.e., "unbound applications") shall be verified by the Required
32 Testing Facility described in § 15.124, and shall pass interoperability
33 testing.

34
35 (2) Cable operators shall not carry interactive applications bound to the
36 particular rendering of a program (i.e. "bound applications") that have
37 not been self-verified by their developer, in documentation submitted to
38 the Required Testing Facility.

39
40 (f) Cable operators shall provide a path via headend operation for the
41 downloading of software repairs to interactive digital cable ready devices, comparable to
42 that afforded for the repair or updating of cable operator-supplied devices. Cable
43 operators must activate this path for such purpose whenever such repair software is: (1)
44 provided to the headend of each cable operator via a standard method; and (2) sent on a
45 periodic basis no more frequently than once every three months. The provider of the
46 repair software shall certify in writing to the cable operator that the primary purpose of

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1 such repair software is to repair the ability of an interactive digital cable ready product to
2 receive interactive cable services and that the software is being provided to owners of
3 such devices free of charge.