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ANSI/SCTE 40 2016

Digital Cable Network Interface Standard

ANSI/SCTE 40 2016

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ANSI/SCTE 40 2016

TABLE OF CONTENTS

1.0	Scope	1
2.0	DEFINITIONS and Acronyms	2
2.1	<i>Compliance Notation</i>	2
2.2	<i>Glossary</i>	2
3.0	Normative references	6
3.1	<i>SCTE References</i>	6
3.2	<i>Standards from other Organizations</i>	7
4.0	Informative References	7
4.1	<i>SCTE References</i>	7
4.2	<i>Standards from Other Organizations</i>	8
5.0	Reference acquisition	9
6.0	PHYSICAL LAYER Characteristics	10
6.1	<i>RF Interface</i>	10
6.1.1	<i>Maximum Individual Carrier Amplitude</i>	10
6.2	<i>Frequency Plan</i>	10
6.3	<i>Communications Channels</i>	11
6.3.1	<i>Forward Application Transport (FAT) Channels</i>	11
6.3.2	<i>NTSC Analog Channels</i>	12
6.3.3	<i>Out-Of-Band Forward Data Channels (FDC)</i>	12
6.3.4	<i>Out-Of-Band Reverse Data Channels (RDC)</i>	13
6.3.5	<i>DOCSIS Upstream and Downstream Channels</i>	15
6.4	<i>Downstream Transmission Characteristics</i>	15
6.4.1	<i>RF Signal Levels and Adjacent Channel Characteristics</i>	17
7.0	Transport Layer Protocols	20
7.1	<i>Forward Application Transport (FAT) Channels</i>	20
7.2	<i>Out-of-Band Forward Data Channels (FDC)</i>	21
7.3	<i>Out-of-Band Reverse Data Channels (RDC)</i>	21
8.0	Services and Related Protocol Stacks	21

ANSI/SCTE 40 2016

8.1	<i>Audio-Visual Services</i>	23
8.1.1	Analog Audio-Visual Services.....	23
8.1.2	Digital Audio-Visual Services	23
8.1.3	VBI Services	24
8.2	<i>Data Services</i>	24
8.3	<i>In-Band Service/System Information</i>	24
8.4	<i>Out-of-Band Service/System Information</i>	25
8.5	<i>Emergency Alert System (EAS)</i>	25
8.6	<i>Closed Captioning</i>	26
8.6.1	Analog Television Programs.....	26
8.6.2	Digital Television Programs	26
8.7	<i>Digital Television (DTV) Content Advisory Information</i>	26

LIST OF FIGURES

Figure 1 Cable Network Interface.....	1
Figure 2 FAT Channel Physical Layer Protocol.....	12
Figure 3 Out-of-band Forward Data Channel Lower Layer Protocols.....	13
Figure 4 Out-of-band Reverse Data Channel Lower Layer Protocols.....	14
Figure 5 FAT Channel Transport Layer Protocol.....	21
Figure 6 Interrelation of Service Channels, Logic Interfaces and Applications for Scrambled Programming.....	22
Figure 7 Interrelation of Service Channels, Logic Interfaces and Applications for Unscrambled Programming.....	23
Figure 8 Modified Protocol Stack for Audio-Visual Services.....	24
Figure 9 Protocol Stack for Out-of-Band Service/System Information.....	25
Figure 10 Protocol Stack for Inband EAS.....	26

LIST OF TABLES

Table 1. Digital Cable Network Frequency Bands.....	11
Table 2. FDC Channel: RF Transmission Characteristics.....	13
Table 3. RDC Channel: RF Transmission Characteristics.....	14
Table 4. Analog and FAT Channel: RF Transmission Characteristics.....	16
Table 5. Nominal Relative Carrier Power Levels.....	18
Table 6. Adjacent Channel Characteristics.....	19

Digital Cable Network Interface Standard

1.0 SCOPE

NOTE: This document is identical to SCTE 40 2011 except for informative components such as the title page, NOTICE text, headers and footers. No changes have been made to any text in the document beyond this point, other than headers and footers.

This standard defines the characteristics and normative specifications for the digital network interface between a cable television system and commercially available digital cable products that are used to access multi-channel television programming (See Figure 1). The network interface is also compatible with existing analog and digital set-top terminal equipment owned by cable operators and with terminal equipment developed via the OpenCable™ specification process (See www.opencable.com). All specifications in this document apply at the Demarcation Point except as specifically noted. Specifications noted to apply at the terminal device are applicable regardless of whether that device is owned by the subscriber or the cable operator. The key functional characteristics assumed in this document are the following:

- The cable network provides services utilizing 6-MHz in-band channel(s), out-of-band forward data channel(s), and out-of-band reverse data channel(s). The 6-MHz in-band channels follow the CEA-542-C channel-tuning plan. However, the frequency location can change over time such that analog and digital channels could be located anywhere in the downstream operating range. Nothing in this standard precludes the use of other narrowband or wideband digital signals.
- The 6 MHz in-band channels are used to transport digital services (QAM modulated MPEG-2 transport streams) as well as analog services (NTSC AM-VSB channels). Nothing in this standard precludes the use of other modulation modes.
- Services are either in the clear or protected using conditional access technology.

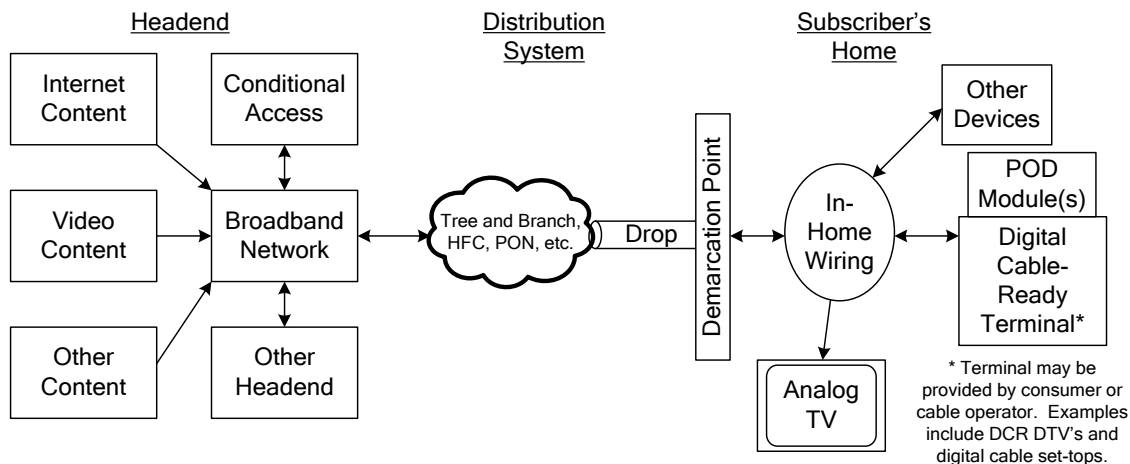


Figure 1 Cable Network Interface