

Ad marker: SCTE-35 enhanced

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Structure

Segment	Tag	Tag Count
Segment in which the ad avail starts.	OATCLS-SCTE35	1
Segment in which the ad avail starts.	ASSET	1
Segment in which the ad avail starts.	CUE-OUT	1
Each succeeding segment.	CUE-OUT-CONT	0-n
Segment in which ad avail ends.	CUE-IN	1

Tag contents

- OATCLS-SCTE35 containing the base64 encoded raw bytes of the original SCTE-35 ad avail message.
 - ASSET containing the CAID or UPID as specified in the original SCTE35 message.
 - 1 CUE-OUT per ad avail.
 - CUE-OUT-CONT containing the following:
 - The elapsed time of the avail.
 - The duration declared in the original SCTE35 message.
 - SCTE35 containing the base64 encoded raw bytes of the original SCTE-35 ad avail message.
- These lines repeat until the ad avail ends.
- CUE-IN to indicate the end of the avail.

Example

```
#EXT-OATCLS-SCTE35:/DA0AAAAAAAAAAAAABQb+ADAQ6QAeAhxDVUVJQAAAO3/PAAEUrEoICAAAAAAG+2UBNAAANvrtoQ==
#EXT-X-ASSET:CAID=0x0000000020FB6501
#EXT-X-CUE-OUT:201.467
.
.
.
#EXT-X-CUE-OUT-CONT:ElapsedTime=5.939,Duration=201.467,SCTE35=/DA0AAAA...AAG+2UBNAAANvrtoQ==
.
.
.
#EXT-X-CUE-IN
```

Meaning of [/DA0AAAAAAAAAAAAABQb+ADAQ6QAeAhxDVUVJQAAAO3/PAAEUrEoICAAAAAAG+2UBNAAANvrtoQ==](#) acquired at <https://comcast.github.io/scte35-js/>

- tableId: 252
- selectionSyntaxIndicator: false
- privateIndicator: false
- sectionLength: 52
- protocolVersion: 0
- encryptedPacket: false
- encryptedAlgorithm: 0
- ptsAdjustment: 0
- cwIndex: 0
- tier: 0
- spliceCommandLength: 5
- spliceCommandType: 6
- spliceCommand:
 - specified: true
 - pts: 3150057
- descriptorLoopLength: 30
- descriptors:
 - 0:
 - spliceDescriptorTag: 2
 - descriptorLength: 28
 - identifier: "CUEI"
 - segmentationEventId: 1073741883
 - segmentationEventCancelIndicator: false
 - programSegmentationFlag: true
 - segmentationDurationFlag: true
 - deliveryNotRestrictedFlag: false
 - webDeliveryAllowedFlag: false
 - noRegionalBlackoutFlag: true
 - archiveAllowedFlag: true
 - deviceRestrictions: 3
 - segmentationDuration: 18132042
 - segmentationUpidType: 8
 - segmentationUpidLength: 8
 - segmentationUpid:
 - 0: 0
 - 1: 0
 - 2: 0
 - 3: 0
 - 4: 32
 - 5: 251
 - 6: 101
 - 7: 1
 - segmentationTypeId: 52
 - segmentNum: 0
 - segmentsExpected: 0
- crc: 922414497

Reference Splice Info Table containing PID

```
* SCTE 35 Splice Information, TID 252 (0xFC), PID 1055 (0x041F)
Short section, total size: 50 bytes
- Section 0:
  Protocol version: 0x00 (0)
  Encryption: none
  PTS adjustment: 0x00000000 (0)
  CW index: 0xFF (255), tier: 0xFFF (4095)
  Command type: 0x05 (SpliceInsert), size: 20 bytes
  Splice event id: 0x00000012, cancel: 0
  Out of network: yes, program splice: yes, duration set: yes, immediate: no
  Time PTS: 0x075C14B4A
  Duration PTS: 0x00066FF30 (6750000), auto return: no
  Unique program id: 0x0001 (1), avail: 0x12 (18), avails expected: 255
  - Descriptor 0: SCTE 35 Avail (0x00, 0), 8 bytes
    Identifier: 0x43554549 ("CUEI")
    Provider id: 0x00000012
  CRC32: 0xEAA8473F (OK)

* SCTE 35 Splice Information, TID 252 (0xFC), PID 1055 (0x041F)
Short section, total size: 50 bytes
- Section 0:
  Protocol version: 0x00 (0)
  Encryption: none
```

PTS adjustment: 0x00000000 (0)
CW index: 0xFF (255), tier: 0xFFF (4095)
Command type: 0x05 (SpliceInsert), size: 20 bytes
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Out of network: yes, program splice: yes, duration set: yes, immediate: no
Time PTS: 0x075C14B4A
Duration PTS: 0x00066FF30 (6750000), auto return: no
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* SCTE 35 Splice Information, TID 252 (0xFC), PID 1055 (0x041F)

Short section, total size: 50 bytes

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Encryption: none
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CW index: 0xFF (255), tier: 0xFFF (4095)
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Splice event id: 0x00000012, cancel: 0
Out of network: yes, program splice: yes, duration set: yes, immediate: no
Time PTS: 0x075C14B4A
Duration PTS: 0x00066FF30 (6750000), auto return: no
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- Descriptor 0: SCTE 35 Avail (0x00, 0), 8 bytes
 Identifier: 0x43554549 ("CUEI")
 Provider id: 0x00000012
CRC32: 0xEAA8473F (OK)

* SCTE 35 Splice Information, TID 252 (0xFC), PID 1015 (0x03F7)

Short section, total size: 50 bytes

- Section 0:

Protocol version: 0x00 (0)
Encryption: none
PTS adjustment: 0x00000000 (0)
CW index: 0xFF (255), tier: 0xFFF (4095)
Command type: 0x05 (SpliceInsert), size: 20 bytes
Splice event id: 0x400004F6, cancel: 0
Out of network: yes, program splice: yes, duration set: yes, immediate: no
Time PTS: 0x078CA4459
Duration PTS: 0x000F73140 (16200000), auto return: no
Unique program id: 0x0001 (1), avail: 0x0B (11), avails expected: 255
- Descriptor 0: SCTE 35 Avail (0x00, 0), 8 bytes
 Identifier: 0x43554549 ("CUEI")
 Provider id: 0x0000000B
CRC32: 0x045999F6 (OK)

* SCTE 35 Splice Information, TID 252 (0xFC), PID 1015 (0x03F7)

Short section, total size: 50 bytes

- Section 0:

Protocol version: 0x00 (0)
Encryption: none
PTS adjustment: 0x00000000 (0)
CW index: 0xFF (255), tier: 0xFFF (4095)
Command type: 0x05 (SpliceInsert), size: 20 bytes
Splice event id: 0x400004F6, cancel: 0
Out of network: yes, program splice: yes, duration set: yes, immediate: no
Time PTS: 0x078CA4459
Duration PTS: 0x000F73140 (16200000), auto return: no
Unique program id: 0x0001 (1), avail: 0x0B (11), avails expected: 255
- Descriptor 0: SCTE 35 Avail (0x00, 0), 8 bytes
 Identifier: 0x43554549 ("CUEI")
 Provider id: 0x0000000B
CRC32: 0x045999F6 (OK)

* SCTE 35 Splice Information, TID 252 (0xFC), PID 1055 (0x041F)

Short section, total size: 45 bytes

- Section 0:

Protocol version: 0x00 (0)

Encryption: none
PTS adjustment: 0x00000000 (0)
CW index: 0xFF (255), tier: 0xFFF (4095)
Command type: 0x05 (SpliceInsert), size: 15 bytes
Splice event id: 0x00000012, cancel: 0
Out of network: no, program splice: yes, duration set: no, immediate: no
Time PTS: 0x076284A7A
Unique program id: 0x0001 (1), avail: 0x12 (18), avails expected: 255
- Descriptor 0: SCTE 35 Avail (0x00, 0), 8 bytes
 Identifier: 0x43554549 ("CUEI")
 Provider id: 0x00000012
CRC32: 0x1ED64BDB (OK)

* SCTE 35 Splice Information, TID 252 (0xFC), PID 1055 (0x041F)

Short section, total size: 45 bytes

- Section 0:

Protocol version: 0x00 (0)
Encryption: none
PTS adjustment: 0x00000000 (0)
CW index: 0xFF (255), tier: 0xFFF (4095)
Command type: 0x05 (SpliceInsert), size: 15 bytes
Splice event id: 0x00000012, cancel: 0
Out of network: no, program splice: yes, duration set: no, immediate: no
Time PTS: 0x076284A7A
Unique program id: 0x0001 (1), avail: 0x12 (18), avails expected: 255
- Descriptor 0: SCTE 35 Avail (0x00, 0), 8 bytes
 Identifier: 0x43554549 ("CUEI")
 Provider id: 0x00000012
CRC32: 0x1ED64BDB (OK)

* SCTE 35 Splice Information, TID 252 (0xFC), PID 1055 (0x041F)

Short section, total size: 45 bytes

- Section 0:

Protocol version: 0x00 (0)
Encryption: none
PTS adjustment: 0x00000000 (0)
CW index: 0xFF (255), tier: 0xFFF (4095)
Command type: 0x05 (SpliceInsert), size: 15 bytes
Splice event id: 0x00000012, cancel: 0
Out of network: no, program splice: yes, duration set: no, immediate: no
Time PTS: 0x076284A7A
Unique program id: 0x0001 (1), avail: 0x12 (18), avails expected: 255
- Descriptor 0: SCTE 35 Avail (0x00, 0), 8 bytes
 Identifier: 0x43554549 ("CUEI")
 Provider id: 0x00000012
CRC32: 0x1ED64BDB (OK)

* SCTE 35 Splice Information, TID 252 (0xFC), PID 1045 (0x0415)

Short section, total size: 50 bytes

- Section 0:

Protocol version: 0x00 (0)
Encryption: none
PTS adjustment: 0x00000000 (0)
CW index: 0xFF (255), tier: 0xFFF (4095)
Command type: 0x05 (SpliceInsert), size: 20 bytes
Splice event id: 0x00000016, cancel: 0
Out of network: yes, program splice: yes, duration set: yes, immediate: no
Time PTS: 0x07AA76812
Duration PTS: 0x00083D600 (8640000), auto return: yes
Unique program id: 0x000A (10), avail: 0x08 (8), avails expected: 255
- Descriptor 0: SCTE 35 Avail (0x00, 0), 8 bytes
 Identifier: 0x43554549 ("CUEI")
 Provider id: 0x00000008
CRC32: 0x43101852 (OK)

* SCTE 35 Splice Information, TID 252 (0xFC), PID 1045 (0x0415)

Short section, total size: 50 bytes

- Section 0:

Protocol version: 0x00 (0)
Encryption: none
PTS adjustment: 0x00000000 (0)

CW index: 0xFF (255), tier: 0xFFF (4095)
Command type: 0x05 (SpliceInsert), size: 20 bytes
Splice event id: 0x00000017, cancel: 0
Out of network: yes, program splice: yes, duration set: yes, immediate: no
Time PTS: 0x07AAFA572
Duration PTS: 0x0007B98A0 (8100000), auto return: yes
Unique program id: 0x0001 (1), avail: 0x08 (8), avails expected: 255
- Descriptor 0: SCTE 35 Avail (0x00, 0), 8 bytes
 Identifier: 0x43554549 ("CUEI")
 Provider id: 0x00000008
CRC32: 0x4ADEEB3E (OK)

* SCTE 35 Splice Information, TID 252 (0xFC), PID 1015 (0x03F7)
Short section, total size: 45 bytes

- Section 0:
 Protocol version: 0x00 (0)
 Encryption: none
 PTS adjustment: 0x000000000 (0)
 CW index: 0xFF (255), tier: 0xFFF (4095)
 Command type: 0x05 (SpliceInsert), size: 15 bytes
 Splice event id: 0x400004F6, cancel: 0
 Out of network: no, program splice: yes, duration set: no, immediate: no
 Time PTS: 0x079C17599
 Unique program id: 0x0001 (1), avail: 0x0B (11), avails expected: 255
 - Descriptor 0: SCTE 35 Avail (0x00, 0), 8 bytes
 Identifier: 0x43554549 ("CUEI")
 Provider id: 0x0000000B
 CRC32: 0x2E655951 (OK)

* SCTE 35 Splice Information, TID 252 (0xFC), PID 1015 (0x03F7)
Short section, total size: 45 bytes

- Section 0:
 Protocol version: 0x00 (0)
 Encryption: none
 PTS adjustment: 0x000000000 (0)
 CW index: 0xFF (255), tier: 0xFFF (4095)
 Command type: 0x05 (SpliceInsert), size: 15 bytes
 Splice event id: 0x400004F6, cancel: 0
 Out of network: no, program splice: yes, duration set: no, immediate: no
 Time PTS: 0x079C17599
 Unique program id: 0x0001 (1), avail: 0x0B (11), avails expected: 255
 - Descriptor 0: SCTE 35 Avail (0x00, 0), 8 bytes
 Identifier: 0x43554549 ("CUEI")
 Provider id: 0x0000000B
 CRC32: 0x2E655951 (OK)

* SCTE 35 Splice Information, TID 252 (0xFC), PID 1045 (0x0415)
Short section, total size: 45 bytes

- Section 0:
 Protocol version: 0x00 (0)
 Encryption: none
 PTS adjustment: 0x000000000 (0)
 CW index: 0xFF (255), tier: 0xFFF (4095)
 Command type: 0x05 (SpliceInsert), size: 15 bytes
 Splice event id: 0x00000018, cancel: 0
 Out of network: no, program splice: yes, duration set: no, immediate: no
 Time PTS: 0x07B2B3E12
 Unique program id: 0x0001 (1), avail: 0x08 (8), avails expected: 255
 - Descriptor 0: SCTE 35 Avail (0x00, 0), 8 bytes
 Identifier: 0x43554549 ("CUEI")
 Provider id: 0x00000008
 CRC32: 0xD497DA82 (OK)

* SCTE 35 Splice Information, TID 252 (0xFC), PID 1015 (0x03F7)
Short section, total size: 50 bytes

- Section 0:
 Protocol version: 0x00 (0)
 Encryption: none
 PTS adjustment: 0x000000000 (0)
 CW index: 0xFF (255), tier: 0xFFF (4095)
 Command type: 0x05 (SpliceInsert), size: 20 bytes

Splice event id: 0x400004F7, cancel: 0
Out of network: yes, program splice: yes, duration set: yes, immediate: no
Time PTS: 0x07E2772B9
Duration PTS: 0x000F73140 (16200000), auto return: no
Unique program id: 0x0001 (1), avail: 0x0C (12), avails expected: 255
- Descriptor 0: SCTE 35 Avail (0x00, 0), 8 bytes
 Identifier: 0x43554549 ("CUEI")
 Provider id: 0x0000000C
CRC32: 0xF85CCA9D (OK)

* SCTE 35 Splice Information, TID 252 (0xFC), PID 1015 (0x03F7)

Short section, total size: 50 bytes

- Section 0:

Protocol version: 0x00 (0)
Encryption: none
PTS adjustment: 0x00000000 (0)
CW index: 0xFF (255), tier: 0xFFF (4095)
Command type: 0x05 (SpliceInsert), size: 20 bytes
Splice event id: 0x400004F7, cancel: 0
Out of network: yes, program splice: yes, duration set: yes, immediate: no
Time PTS: 0x07E2772B9
Duration PTS: 0x000F73140 (16200000), auto return: no
Unique program id: 0x0001 (1), avail: 0x0C (12), avails expected: 255
- Descriptor 0: SCTE 35 Avail (0x00, 0), 8 bytes
 Identifier: 0x43554549 ("CUEI")
 Provider id: 0x0000000C
CRC32: 0xF85CCA9D (OK)

* SCTE 35 Splice Information, TID 252 (0xFC), PID 1015 (0x03F7)

Short section, total size: 45 bytes

- Section 0:

Protocol version: 0x00 (0)
Encryption: none
PTS adjustment: 0x00000000 (0)
CW index: 0xFF (255), tier: 0xFFF (4095)
Command type: 0x05 (SpliceInsert), size: 15 bytes
Splice event id: 0x400004F7, cancel: 0
Out of network: no, program splice: yes, duration set: no, immediate: no
Time PTS: 0x07F1EA3F9
Unique program id: 0x0001 (1), avail: 0x0C (12), avails expected: 255
- Descriptor 0: SCTE 35 Avail (0x00, 0), 8 bytes
 Identifier: 0x43554549 ("CUEI")
 Provider id: 0x0000000C
CRC32: 0x33F3C14D (OK)

* SCTE 35 Splice Information, TID 252 (0xFC), PID 1015 (0x03F7)

Short section, total size: 45 bytes

- Section 0:

Protocol version: 0x00 (0)
Encryption: none
PTS adjustment: 0x00000000 (0)
CW index: 0xFF (255), tier: 0xFFF (4095)
Command type: 0x05 (SpliceInsert), size: 15 bytes
Splice event id: 0x400004F7, cancel: 0
Out of network: no, program splice: yes, duration set: no, immediate: no
Time PTS: 0x07F1EA3F9
Unique program id: 0x0001 (1), avail: 0x0C (12), avails expected: 255
- Descriptor 0: SCTE 35 Avail (0x00, 0), 8 bytes
 Identifier: 0x43554549 ("CUEI")
 Provider id: 0x0000000C
CRC32: 0x33F3C14D (OK)

* SCTE 35 Splice Information, TID 252 (0xFC), PID 1035 (0x040B)

Short section, total size: 45 bytes

- Section 0:

Protocol version: 0x00 (0)
Encryption: none
PTS adjustment: 0x00000000 (0)
CW index: 0xFF (255), tier: 0xFFF (4095)
Command type: 0x05 (SpliceInsert), size: 15 bytes
Splice event id: 0x0000163A, cancel: 0

```
Out of network: yes, program splice: yes, duration set: no, immediate: no
Time PTS: 0x07F0C4F73
Unique program id: 0x0000 (0), avail: 0x00 (0), avails expected: 0
- Descriptor 0: SCTE 35 Avail (0x00, 0), 8 bytes
  Identifier: 0x43554549 ("CUEI")
  Provider id: 0x00000000
CRC32: 0xD7165C79 (OK)
```

Others

https://docs.aws.amazon.com/medialive/latest/ug/schedule-fields-for-splice_insert.html