

## Test Vector 5001: Service ESG

Red indicates major parameters of interest		
Red background = indicates non-compliance in lab configuration		
	<b>Number</b>	<b>5001</b>
	<b>Mnemonic</b>	P14S1
	<b>VV Reference</b>	VV5001-P14S1
	<b>Notes</b>	Service ESG
<b>Payload Parameters</b>		
<b>o LLS</b>		
Group Id		1
Group Count		0
		all required attributes: @bsid, @serviceId, @sltSvcSeqNum, @serviceCategory="4" ESG on separate ROUTE Session with @hidden="true"
SLT		
RRT		-
STT		@currentUtcOffset, @utcLocalOffset
AEAT		-
OnScreenMessage	Notification	-
SMT		-
UserDefined		-
Reserved		-
<b>All = SLS fragments are contained in a metadataEnvelope per RFC 2387 in an LCT channel using an Extended FDT Instance with TOI = '0' to reference SLS fragments OR and EFDT element embedded in SrcFlow element. TOI values in the E-FDT shall follow LCT Header filters in Annex C.</b>		
<b>o SLS</b>		
USBD		relative base URL
DASH MPD		single period Segment Timeline, Adaptation Set with codecs="stpp.ttml.im2t" and <Supplemental Property and <Role elements
S-TSID		A/V media on separate LCT channels within ROUTE Session
APD		No
HELD		No
DWD		No
RSAT		No
MMT MPU		-
MMT mmt_atsc3_message		-
MMT video stream properties descriptor		-
MMT atsc staggered_descriptor		-
MMT audio stream properties descriptor		-
MMT caption asst descriptor		-
MMT DRM		-
MMT Signed message		-
MMT content advisory ratings		-
<b>o Delivery</b>		
Transport Session		Source Flow
Mode		File
EFDT		Instance in TOI '0'

LCT Header Code= point	128
FEC Payload ID<= /td>	start_offset
LCT Extension H= eader	EXT_TOL
Service Guide	OMA BCAST SG, Sec= 5.4.2 with SGDD in LCT channel
SGDD/SGDU	Service Fragment = with elements in A/332 Table 5.1 Name and Description elements extensions in A/332 Table 5.2 Schedule Fragment with element= s in A/332 Table 5.6 Content Fragment with elements in A/332 Table 5.7
Broadcaster App= lication	-
<b>○DASH-IF&lt;= /td&gt;</b>	
XML NameSpace	urn:mpeg:dash:sch= ema:mpd:2011
@availabilitySt= artTime	1970-01-01T00:00:= 00Z (UnixEpoch)
@availabilityTi= meOffset	
@timeShift Buff= erDepth	
@minBufferTime<= /td>	PT2S
@minimumUpdateP= eriod	PT0S
@profiles	urn:mpeg:dash:pro= file:isoff-broadcast:2015 (ISO BMFF Broadcast TV Profile), <a href="http://dashif.org/guidelines/dash-atsc-main">http://dashif.org/guidelines/dash-atsc-main</a>
@publishTime	yes
@suggestedPres= entationDelay	PT1.500S
<a href="#">MPD@type</a>	dynamic
@schemaLocation=	urn:mpeg:dash:sch= ema:mpd:2011 dash-mpd.xsd
Period	single
Period start	current UTC wallc= lock - UnixEpoch
AdaptationSet	single Representa= tion per AdaptationSet
Random access t= ype	closed
DASH segments	\$Number\$
@contentType== "video"	Table 2
Ratings	-
Supplemental Pr= operty	
Supplemental De= scriptor	
@contentType== "audio"	Table 6 & 7
Supplemental Pr= operty	
Accessibility (= Audio Descriptor)	@schemeldUri=&q= uot;urn:mpeg:dash:role:2011" value="enhanced-audio-intelligibility"
@contentType== "text"	W3C TTML IMSC1 Te= xt Profile
@codecs	stpp.ttml.im1t
Accessibility (= Captions)	@schemeldUri=&q= uot;urn:mpeg:dash:role:2011", @value="caption"
Role	@schemeldUri=&q= uot;urn:mpeg:dash:role:2011", @value="subtitle"
Supplemental Pr= operty	@schemeldUri=&q= uot; <a href="http://dashif.org/guidelines/dash-atsc-closedcaption">http://dashif.org/guidelines/dash-atsc-closedcaption</a> ", @value="ar:16-9"
HTTP Headers	lowercase
DRM	-

Content Replacement		
○ <b>Schema</b>		
A/331		RRT-1.0-20210128.xsd ATSC-FDT-1.0-20170920.xsd SYSTIME-1.0-20170921.xsd S-TSID-1.0-20190208.xsd SLT-1.0-20210312.xsd ROUTEUSD-1.0-20170920.xsd
A/332		SA-1.0-20210312.xsd
A/360		-
○ <b>PHY</b>		
Number of PLPs		2 (PLP0 & PLP1)
Physical Layer = Frame Length		155 msec
Number of Symbols		PLP0: 41, PLP1: 39
FFT Size		subframe 0:8K subframe 1:16K
PLP Size		PLP0: 259200 cells PLP1: 518400 cells
Bandwidth Use		
Preamble Modes		Basic: 3 / Detail: 3
Preamble Pilot = Dx		Dx = 3
Guard Interval		G5_1024
Pilot Boost		4
Scattered Pilot Pattern		PLP0: SP 6_4 PLP1: SP 12_4
Constellation Size		PLP0: 16 QAM PLP1: 256 QAM
LDPC Frame Length		PLP0: 64800 bits PLP1: 64800 bits
Code Rate		PLP0: 7/15 PLP1: 10/15
Outer Code		PLP0: BCH PLP1: BCH
Time Interleaver		HTI PLP0: 16 FEC Blocks 1 TI Block PLP1: 63 FEC Blocks 2 TI Blocks
Frequency Interleaver		On
Approximate Yielded Bitrate		PLP0: 3.1 Mbps PLP1: 18 Mbps
Approximate C/N		PLP0: 5.2 dB Gaussian PLP1: 17.1 dB Gaussian
○ <b>pcaps</b>		