

**JUNE 2019** 



## **ACKNOWLEDGEMENTS**

#### LIST OF WORKING GROUP COMPANIES

A&E Networks Essence Nielsen
ABC Experian Marketing Services Philo

AccuWeather Extreme Reach Placed
Ad-ID Flashtalking PlaceIQ
Adobe FreeWheel Premion

AMC Networks Gamut Simulmedia
Amobee GfK North America Sizmek

Beachfront Media Google Sony Pictures Television

Cadent Hulu Spectrum Reach

CBS Interactive Integral Ad Science SpotX
Cheddar IRI SundaySky

Comcast Spotlight KERV Interactive Telaria

Crackle Kochava The Media Trust Com

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Cuebiq Liquidus Marketing Verizon Media Group

Dataxu LiveRamp WarnerMedia

Dentsu Aegis MediaMath Xandr

Digitas LBI Medicx Media Solutions ZypMedia

Discovery Communications Modi Media

Dish Network NBCUniversal

Epsilon NCC Media



## **EXECUTIVE SUMMARY**

Planning and executing a TV campaign used to be simple. Regardless of what inventory you bought, the mechanics were generally the same. Deals were guaranteed on a demo CPM and they would be measured and reported by Nielsen. Creative trafficking was usually pain-free. Time-shifting disrupted things a bit, but Commercial ratings and VOD helped buyers cope with the diminishing supply of live rating points.

But now, as a confluence of factors have brought upon us Advanced TV, we are faced with a TV industry that's more complex than ever. Addressable TV has been around for a number of years now, but with the advent of OTT devices and new streaming services popping up all the time, we as an industry are starting to view this opportunity in a new light—as part of a bigger push to eliminate wasted impressions, garner insights into TV campaigns, and finally tie exposures to outcomes for true attribution. Fueled by data, this new landscape goes beyond the age/sex demographic and into targetability and granularity in a very digital-like manner.

However, despite the obvious benefits there is still confusion in the marketplace as to how each are transacted, measured, and trafficked differently. The goal of this reference guide is to bring clarity to this space so that when there are conversations between the buy and sell side (and everyone in between) everyone is starting with the same basic level of understanding.

We have attempted to collect "just the facts" and organized this chart so that it starts with Traditional Linear TV and becomes increasingly 'advanced' along the way. The chart becomes more addressable, more data-infused, more on-demand, and more digital as you move from left to right. This guide will aid you in determining which avenues make the most sense for your brand. Grouped into five sections, you will gain an understanding into the transactional nature of each, the state of measurement, and even how the ads themselves are trafficked.

Given today's rapid pace of change, we expect to be making updates to this document as the Advanced TV space continues to evolve. Please read this as an invitation to join the conversation with us.

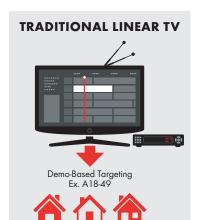
For more information on digital video, please visit video-guide.iab.com.

To get involved, please email <u>digitalvideocenter@iab.com</u> or <u>committees@iab.com</u>.

Enjoy!



# BROADCAST/SET TOP BOX AD DELIVERY DEFINITIONS



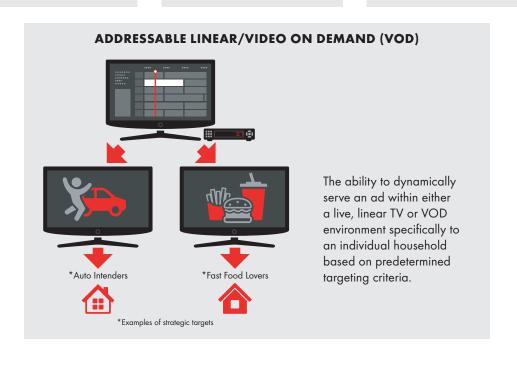
TV programming that follows a schedule, which includes both live as well as time-shifted (via DVR or VOD) viewing, in which ads are not delivered via Dynamic Ad Insertion.



Same programming as traditional linear TV, but uses an audience-based buying approach that incorporates different data sets including demographics, interests, and viewing behavior to optimize a linear TV schedule against specific networks, programs, and dayparts to better reach a higher concentration of an advertiser's strategic audience.



On demand content offered by individual networks or MVPDs via the set top box VOD menu. This refers to the inventory opportunity outside the (3 or 7) day window where the live telecast ad loads are dynamically replaced by new ads.





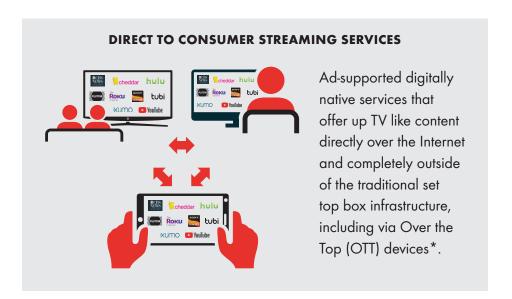
## STREAMING AD DELIVERY DEFINITIONS



A streaming pay-TV subscription, which provides access to traditional linear TV networks as well as on demand content delivered over the Internet without the traditional set top box infrastructure.



An online business model in which television networks and MVPDs allow their paying customers to access live and/or on demand video content from their networks through Internet-based applications.



\*OTT (Over the Top) Device - A device that can connect to a TV (or functionality within the TV itself) to facilitate the delivery of Internet-based video content (i.e., streaming boxes, media streaming devices, Smart TV's and gaming consoles).



				BROADCAST/S1	B AD DELIVERY	STREAMING AD DELIVERY			
	Charac	teristics	Traditional Linear TV	Data-Driven Linear TV	STB VOD	Addressable Linear/VOD	vMVPD	TV Everywhere	Direct to Consumer Services
	Ad Delivery to Consumer	How are ads delivered to the viewer?	1:Many	1:Many	1:1 HH	1:1 HH	1:1 (+co-viewing)	1:1 (+co-viewing)	1:1 (+co-viewing)
			119.9MM TV HHs (Broadcast Only + Pay-TV, Nielsen¹)  305.4MM Individuals (Broadcast Only + Pay-TV, Nielsen¹)			64 MM HHs			89% of US Adults use the Internet (Pew <sup>7</sup> )
						04 MIM FIFTS		Total Multi- Channel subscribers (Traditional	98.3 MM Broadband HHs in US (Leichtman Research <sup>8</sup> )
	Scale	What do we know about the size or reach potential of each?	Total Pay-TV subscribers (Traditional MVPD and vMVPD) - 94.8MM HHs (Nielsen²)		72.4MM HHs (Nielsen³)	IAB Advanced	7.7MM subscribers (BTIG <sup>5</sup> )	MVPD and vMVPD) - 94.8MM HHs (Nielsen <sup>2</sup> )	74% of HH (224 MM individuals) have a connected TV device (Leichtman Research <sup>9</sup> )
			Individual cable n varies dependin (the top cable net HHs) (N	g on distribution work is in 89MM		TV Targeting Guide		38MM HHs accessed a Network-based TV Everywhere application in 4Q′18 (Adobe <sup>6</sup> )	Examples - Hulu (28 million HH subscribers), Pluto TV (12 million active users), Xumo (5.5 million active users)
EW	Consumer Profile	What do we know about the consumer profiles of each?	Networks - 5		Median Age on STB VOD - 45 (Nielsen <sup>12</sup> )		Median Age for Connected TV viewership - 42 (Nielsen <sup>12</sup> )		
_			Median Age for Cable Networks - 54 (Nielsen <sup>10</sup> )		(i tieleeli )	N/A since this method of	60/40 M/F (IAB <sup>13</sup> )		
ERV			M/F Skew for Broadcast Networks - 55/45 (Nielsen <sup>11</sup> )		Each Network's VOD median age skews	buying reflects individually selected HHs			
> 0			M/F Skew for Cable Networks - 53/47 (Nielsen <sup>11</sup> )		younger than that Network's median age on Linear TV		'	00/40 M/T (IAB )	
BASIC	Content Type of	What type of content is available?	Broadcast and Cable TV Networks - Live Feed and Time Shifted via DVR/VOD		Broadcast, Cable, and VOD-Only TV Networks - On	Cable TV Networks - Live Feed and Time Shifted via DVR (Linear)	Broadcast and Cable TV Networks - Live Feed and On Demand access to network content Sync Live c Dema		All varieties of content available depending on streaming service - New and Old Original and Syndicated, Live and On Demand, Long and Short Form
			21.9	Demand access to their content		Broadcast, Cable, and VOD-Only TV Networks - On Demand access to their content (VOD)	Content Format Composition for 2018 - 11% 56% Full Episodes, 33% Live Content (FreeW		
	Targeting	What type of targeting is used?	Content-Based- By network, program, daypart, and Nielsen demographics (age/sex)  Behavioral characteristics, 1st or 3rd party segments (syndicated and custom), performance targeting		Mostly by network (run of schedule). Some providers offer targeting by program, daypart, and genre.	Household Level targeted; 1st party or 3rd party segments are matched to MVPD subscriber information to identify HHs in an anonymous manner	Audience-Based - IFA, Device ID, Device Type Address, Operating System, User Agent, Day Network as well as 1 st and 3rd party audier segments		Agent, Daypart,
							IAB Advanced T	/ Targeting Guide	
	Dynamic Ad Insertion	Does delivery type allow for DAI?	No	No	Yes, some networks offer on Day 1, but a majority offer it a few days after (C3/C7 window)	Yes	Yes	Yes	Yes



				BROADCAST/ST	B AD DELIVERY	STREAMING AD DELIVERY			
	Characteristics		Traditional Linear TV	Data-Driven Linear TV	STB VOD	Addressable Linear/VOD	vMVPD	TV Everywhere	Direct to Consumer Services
	Ad Pod Structure	What do we know about the ad pods for each?	Broadcast Primetime avg = 14:52 minutes of ad time per hour, 25% of time (Kantar <sup>15</sup> )			Viewer experienc of ad breaks a Tradition	nd length as in	Varies by service each ad pod is becond	petween 60-120
					On average, 1 pre-roll ad and 4 ads per mid- roll break	MVPDs are allotted two minutes per hour for each cable network- this is where "addressable" inventory is sold (Linear)	vMVPDs are generally allotted two minutes per hour for each cable network (or sometimes given 15% share of	4.0 ads per mid-roll break, on average (FreeWheel <sup>14</sup> )	
			minutes of ad tin	ne avg = 16:18 ne per hour, 27% Kantar <sup>15</sup> )		On average, 1 pre-roll ad and 4 ads per mid-roll break (VOD)	sellable inventory for TV Everywhere environments)		
	Consumer Authentication Does a user have to input login details to		Never if accessing through an antenna (broadcast networks are free to access)  No login needed to access		content, but MV	ded to access PD has subscriber details	Yes, subscriber login	Yes, pay-TV service login credentials	Varies depending on service
CE		access content?		PD has subscriber details					
Z Z	Accessing Content	What devices are these consumed on and how does the consumer access it?	100% TV		100% TV		Connected TV Apps, Mobile Apps, and Desktop Browsers		
2								Percent impressions served: 50% CTV, 33% Mobile, 17% Desktop (FreeWheel <sup>14</sup> )	
<u>a</u>			Set Top Box		Set Top Box		Percent time spent with video outside of Linear TV: 66% CTV, 24% Mobile, 10% Desktop (Nielsen <sup>17</sup> )		
USER EX			Over the Air Antenna				vMVPD Device Share of Viewing Hours: 77% CTV, 20% Mobile, 3% Desktop (Conviva <sup>18</sup> )	Impression Distribution by Device for TV Networks, 2018 Connected TV- 65%, Desktop/ Mobile/Tablet- 35% (Innovid <sup>19</sup> )	
	Interactive Ad Capabilities	Are there opportunities to serve interactive ads?	homepages	and scale, but incl with additional vide modules) as well as	eo content and/or	More robust in capabilities-examples include extended looks, custom portals, choose your own creative, trivia games, request more information, and more			
	Personalized Ads	Are there opportunities to serve personalized ads?	Minimal, regional copy-splitting is allowed (serving different creatives depending on your region)	Minimal, can serve different creatives to specific strategic targets if you have multiple strategic targets in flight at the same time	Minimal, regional copy-splitting is allowed (serving different creatives depending on your region)	Higher degree of HH personalization through serving of different creatives to different HHs based on certain criteria	Yes, in real time based on pre-determine signals and generated from the ad serve		
	Co-viewing	How often is co-viewing occuring?		V consumption is od (IAB <sup>20</sup> )	90% of VOD consumption is co-viewed (IAB <sup>20</sup> )	96% of Linear TV consumption is co-viewed, 90% of VOD consumption is co-viewed (IAB <sup>20</sup> )	When consumed through a Connected TV, 93% of consumption is co-viewed (IAB <sup>20</sup> )		



			BROADCAST/STB AD DELIVERY				STREAMING AD DELIVERY			
	Characteristics		Traditional Linear TV	Data-Driven Linear TV	STB VOD	Addressable Linear/VOD	vMVPD	TV Everywhere	Direct to Consumer Services	
SELLING	Inventory Where does the inventory originate from?		(National) and	Programmers Stations/MVPDs cal)	Cable Networks - Networks (~80%) and MVPDs (~20%)	MVPDs (their allocation of two minutes per hour of commercial time for cable networks may be sold as addressable inventory)	vMVPD service providers (may sell their two minutes per hour of commercial time)	Networks, MVPDs, and Local Broadcast Stations	Service providers themselves	
					Broadcast Networks - Networks (100%)		National linear feed is sold by the Networks/ Programmers			
	Inventory Sources		TV Networks, an Nati Direct through	ct through Broadcast, Cable letworks, and Syndicators for National Direc Ca VOI Net through local broadcast		Direct through MVPDs			Direct through the streaming service, marketplaces, and exchanges	
			station groups lo	and MVPDs for cal	MVPDs		Indirectly through	packaged with Linear TV inventory (fluidity)		
			Indirectly	through 3rd party	aggregators and	Indirectly through SSPs, streaming devices, Smart TVs, and 3rd party aggregators				
	Direct vs Programmatic	What % is purchased in a real-time, biddable environment?	No	ascent, but starting	to grow in availab	lity	14%-Programmatic (93% Private Marketplace, 7% Open Exchange) 86% Direct (FreeWheel <sup>14</sup> )			
<b>∞</b> ŏ		· currency useas	Nielsen demo-based CPMs, typically guaranteed on a C3 or C7 basis			CPMs (either P2+ or demo guarante other traditional digital curren				
Z	Currency		huvs mav	Strategic target CPM	1 HH impression counted regardless of ad length					
BUYING				Hybrid approach (Primary and Secondary guarantee)			1 P2+ impression counted by ad server regardless of ad length			
				re 'equivalized' 1:30 spot impressions)			Solutions are becoming available that are inclusive of co-viewing based metrics for Connected Device and Connected TV			
	Make Goods	What happens when there is	Like-for-like TV inventory used to make up for under-delivery			Like-for-like TV				
	for Audience Deficiency	under-delivery, pre-emptions, and/or cancellations?	TV Every	ywhere impressions (fluidity)		inventory used to make up for under-delivery	Digital campaigns are typically billed reflective final delivery, so there is no concept of make-go		lled reflective of or of make-goods	
	Added Value/ Sponsorship Opportunities	What are some of the common added value opportunities based on ad spend?	Highly customizable and typically includes billboards, themed sponsorships, overlays, promos, custom content, and product integrations	stomizable d typically includes iillboards, themed onsorships, overlays, promos, om content, id product		None	Limited opportunities, short form 'bonus' impressions, slates, pod ownership		orm 'bonus' vnership	

Please refer to the Standard Terms and Conditions for Internet Advertising for Media Buys One Year or Less IAB/4As Standard Addendum for Digital Video Advertising in TV Long Form Video - March 2018



				BROADCAST/S	TB AD DELIVERY	STREAMING AD DELIVERY					
	Characteristics		Traditional Linear TV	Data-Driven Linear TV	STB VOD	Addressable Linear/VOD	vMVPD	TV Everywhere	Direct to Consumer Services		
		How should ads be trafficked?			Master video file is uploaded to ad distribution vendor who	video file is uploaded to ad distribution wideo file is		Master video file is uploaded to ad server who then deploys a VAST tag to each partner. Partners are responsible to QA and clear creatives as they come in.*			
OPERATIONAL	Trafficking Needs		ad distribution v deploys creative Network must creative Traffic instructi agency to ea	e is uploaded to vendor who then to each network. approve/clear e to run. ons are sent by ich network to tive rotations.	then deploys creative to each MVPD or Network, depending on who's handling the buy. The network/MVPD must approve/ clear creative to run. Traffic instructions are sent by agency to each network to indicate creative rotations.	uploaded to ad distribution vendor who then deploys creative to each MVPD. MVPD must approve/ clear creative to run. Traffic instructions are sent by agency to each network to indicate creative rotations.	*IAB recommenthe latest versi	adopt and utilize of June 2019)			
<b>مخ</b>	Trafficking Timing	How long does it take to traffic creative?		3-5 days pr	ior to launch		3-5 days prior to launch				
RAFFICKING	Video Ad Specs	What specs should the video ads follow?		AICP File Delivero	CP File Deliverable Specifications			Minimum video specifications vary from partner to partner. Best practice is to upload video file that is either built to the Mezzanine File specs per the IAB Digital Video Ad Format Guidelines or the AICP standards to your ad server. Ad server can then send the appropriate version to each partner, based on their requirements.  IAB Digital Video In-Stream Ad Format Guidelines  Alternative method is to reach out individually to each partner for their specs and have a different version of video file built for each partner, but this is			
-	Invalid Traffic	What is the latest information we have on invalid traffic through these channels?	0%				Minimal level of invalid traffic (<.5%) since a moof impressions served are direct or via Prival Marketplaces (Pixalate <sup>21</sup> & FreeWheel <sup>14</sup> )				

<sup>\*</sup> See page 9 of <u>IAB/4As Standard Addendum for Digital Video Advertising in TV Long Form Video - March 2018</u>



			BROADCAST/STB AD DELIVERY				STREAMING AD DELIVERY		
	Characteristics		Traditional Linear TV	Data-Driven Linear TV	STB VOD	Addressable Linear/VOD	vMVPD	TV Everywhere	Direct to Consumer Services
	Measurement Source	How is each measured?	Primary: Nielsen Age/Sex Demographics			MVPDs provide impression level data		are measured via p r advertiser-side ad	
D Z			Average commercial minute audience, live + time-shifted up to 3 (or 7) days from airing	Strategic target is typically measured via Nielsen MRI Fusion or Comscore, but is ultimately agreed upon by both buyer and seller	Comscore provides program level data  Nielsen data used as proxy for age/sex demographics	ComScore provides program level data	3rd party measurement opportunities publisher, but include: impression de demo-verification, co-viewing factor fraud detection, viewability		on delivery, g factors,
F			Alternative	: ACR, STB	CR, STB Alternative: ACR				
0	Completion Rates	What are the completion rates for each?	n/a	n/a	99% (Canoe Ventures <sup>23</sup> )	n/a for Linear, 99% for VOD	CTV - 95% , Tablet - 83%, Mobile - 75%, Desktop - 75% (Extreme Reach <sup>16</sup> )		
ENT & REP	Post-Campaign Reporting & Attribution Info	k report?	Nielsen verified demo impression delivery for every spot	Nielsen verified demo impression delivery for every spot Strategic target impressions measured by agreed upon 3rd party	HH-level impressions by network, daypart, day of week	HH-level impressions by network, daypart, day of week  Reach and Frequency	More custom tailored but typically include: Impressions by publisher, invalid traffic report, r frequency, 3rd party attribution analysis		
R E M			Network, program			More advanced attribution reporting via third parties because identity is known at the HH level allowing outcome matching to happen on a more deterministic basis			ig outcome
EASU			Third party attribution reporting is nascent, but growing - methods include analyzing commercial's effects on search or website visitation in real time as well as test/control analysis using granular STB or ACR data			IAB Advanced TV Attribution: Buyer's Guide			i <mark>de</mark>
¥	Post-Campaign Reporting Timing	How long is the turnaround time for a post-campaign report?	60-90 days after end of quarter	3-6 weeks after end of campaign	2 weeks after end of campaign	2 weeks after end of campaign	Real-time impression and 3rd party informa		ty information
	What is the viewability Viewability (opportunity to be seen) benchmark?			Inherently viewable on a TV screen			Mobile Vid	Video Benchmark eo Benchmark - 65 ability standard acı	.2% (IAS <sup>22</sup> )
			_				There is no view	ability staticated act	O33 O11 devices



## **APPENDIX**

#### **ACRONYMS**

ACR	Automated Content Recognition	IFA	Identifier For Advertising
AICP	Association of Independent Commercial Producers	MVPD	Multichannel Video Programming Distributor
C3/C7	Commercial Ratings within 3 days (or 7 days) of initial airing	P2+	Total Persons (All People Ages 2 And Over)
CPCV	Cost Per Completed View	SSP	Supply Side Platform
CPM	Cost Per Thousand Impressions	STB	Set Top Box
CTV	Connected TV	VAST	Video Ad Serving Template
DVR	Digital Video Recorder	vMVPD	Virtual Multichannel Video
НН	Household		Programming Distributor
		VOD	Video On Demand

#### **SOURCES**

- Nielsen Estimates 119.9 Million TV Homes in the U.S. for the 2018-2019 TV Season
- Nielsen Custom Data Pull, Cable UEs to date Apr 2019
- Nielsen Data Pull, VOD Penetration Apr 2019
- <sup>4</sup> IAB Advanced TV Targeting Guide
- Virtual MVPDs Account for Nearly 10% of Pay TV Subscriptions: BTIG
- <sup>6</sup> Adobe Presented Stats, Q4'18
- <sup>7</sup> Pew Internet/Broadband Fact Sheet
- 8 <u>LRG 2.4 Million Added Broadband in</u> 2018
- 9 <u>LRG 74% of U.S. TV Households Have at Least one Connected TV Device</u>
- Nielsen Custom Data Pull, Median Age Broadcast and Cable, Apr 2019
- Nielsen Custom Data Pull, M and F Skew Across Broadcast and Cable, November 2018

- Nielsen The OTT Experience: Understanding Connected Living Room Audiences
- <sup>13</sup> <u>IAB Ad Receptivity and the Ad-Supported</u> OTT Video Viewer
- FreeWheel Q4 2018 Video Marketplace Report
- 15 Kantar Media Ad Time Tracker
- <sup>16</sup> Extreme Reach Video Benchmarks 2018
- The Nielsen Total Audience Report: Q3 2018
- <sup>18</sup> Conviva's 2018 Annual State of the Streaming TV Industry
- <sup>19</sup> Innovid 2018 Global Video Benchmarks
- <sup>20</sup> IAB The OTT Co-Viewing Experience: 2017
- <sup>21</sup> Pixalate 2019 OTT Ad Fraud Guide
- <sup>22</sup> Integral Ad Science H2 2018 Media Quality Report
- <sup>23</sup> <u>Canoe Ventures VOD Ad Impression</u> <u>2018 Q2 Insights Report</u>



## **ABOUT US**



The Interactive Advertising Bureau (IAB) empowers the media and marketing industries to thrive in the digital economy. Its membership is comprised of more than 650 leading media and technology companies that are responsible for selling, delivering, and optimizing digital advertising or marketing campaigns. The trade group fields critical research on interactive advertising, while also educating brands, agencies, and the wider business community on the importance of digital marketing. In affiliation with the IAB Tech Lab, it develops technical standards and best practices. IAB and the IAB Education Foundation are committed to professional development and elevating the knowledge, skills, expertise, and diversity of the workforce across the industry. Through the work of its public policy office in Washington, D.C., IAB advocates for its members and promotes the value of the interactive advertising industry to legislators and policymakers. Founded in 1996, the IAB is headquartered in New York City and has a San Francisco office.



The IAB Digital Video Center of Excellence, a dedicated unit within IAB, is devoted to the advancement of the digital video medium in the global marketplace. Its board and members reflect a dynamic mix of top television brands, original digital video content producers, prominent print publishers, digital video technology leaders, and innovative start-ups spanning across the digital video programming, marketing, and distribution spectrum.

Together with its member companies and in cooperation with the IAB Tech Lab, the IAB Digital Video Center produces technical standards, research, and thought leadership critical to the field, while identifying emergent best practices in the fast growing arena of digital video. Working with the IAB Public Policy office, the Digital Video Center also advocates to legislators on behalf of the burgeoning medium.