

1. Introduction

This document is intended to define requirements and provide sufficient description to achieve the requirement.

6.1.1 Software Update Requirements

Intro		Details
1	Purpose & Scope	<p>This document defines system requirements but is not intended as a deep dive into the design and implementation. If need be, a separate design document may be created.</p> <p>This is a living document is subject to change over time based on internal and external conditions.</p>
2	Target Audience	<p>This document is primarily aimed at the engineering and product management of VIZIO and its technology partners including chipset manufacturers. Specific sections only also provided to system ODM's if deemed necessary.</p>
3	References	<p>The following VIZIO specifications and protocols are references for the SmartCast System spec. The current versions at the time when the document was published are referenced but the latest version always applies</p> <ul style="list-style-type: none">• SmartCast TV System Settings, version 7.2• VIZIO Home System Settings, version 7.1• Picture modes spec version 5.3• SettingsMatrixSDR_HDR10_HDR10P_DV_HLG_V3.0• Backlight-LCD-Rates-V3.0-Prelim-1.xlsx• Audio Quality Specification, version 3.4.1 See _Specifications. for details.• 2.4 Ghz 802.11ax 4K Test Spec Worksheet V4.4 Rev2.xlsx• 2.4 Ghz 802.11n 2K Test Spec Worksheet V4.4 Rev2.xlsx• 2.4 Ghz 802.11n 4K Test Spec Worksheet V4.4 Rev2.xlsx• 5.0 Ghz 802.11ac 2K Test Spec Worksheet V4.4 Rev2.xlsx• 5.0 Ghz 802.11ac 4K Test Spec Worksheet V4.4 Rev2.xlsx• 5.0 Ghz 802.11ax 4K Test Spec Worksheet V4.4 Rev2.xlsx• 5.0 Ghz 802.11n 2K Test Spec Worksheet V4.4 Rev2.xlsx• 5.0 Ghz 802.11n 4K Test Spec Worksheet V4.4 Rev2.xlsx• 6.0 Ghz 802.11ax 4K Test Spec Worksheet V4.4 Rev2.xlsx• 802.11 Test Specification V4.4 Rev2.pdf

1.1 Acronyms

	Acronym	Definition	Comments
1	3DLUT	3D Lookup Table	
2	AC off	Alternating Current off	Pull plug from the source
3	ALLM	Automatic Low Latency Mode	
4	AP	Access Point	
5	API	Application Programming Interface	
6	ARC	Audio Return Channel	
7	ATSC	Advanced Television Systems Committee	TV transmission requiring tuner, digital signal 1080p and 720p; also 480p
8	BLE	Bluetooth Low Energy	
9	BT	Bluetooth	
10	CC	Closed Captioning	
11	CEC	Consumer Electronics Control	
12	CEC	California Energy Commission	
13	DC off	Direct Current Off	Power off with remote or IP
14	DAI	Dynamic Ad Insertion	<p>Provides dynamic ad insertion into content.</p> <p>Setting Name is Ad Replacement.</p>

15	DIAL protocol	Discovery and Launch Protocol	
16	DNS	Domain Name Server	
17	DRAM	Dynamic random-access memory	
18	DV	Dolby Vision	
19	DVI	Digital Visual Interface	Connect a video source to display device, typically a computer, often passing VGA
20	eARC	Enhanced Audio Return Channel	
21	EDID	Extended Display Identification Data	
22	EOTF	Electro-Optical Transfer Function	
23	ESN	Electronic Serial Number	
24	FHD	Full High Definition	1080p
25	GB	Gigabyte	
26	GBPS	GigaBytes per Second	
27	GHz	Gigahertz	
28	HD	High Definition	720p
29	HDCP	High-bandwidth digital Content Protection	Secure connection between a source and a display (e.g. prevents recording a BD disc).
30	HDMI	High-Definition Multimedia Interface	
31	HDR	High Dynamic Range	
32	HLG	Hybrid Log Gamma	HDR format that can display on HDR TV or SDR TV.
33	HTTP	HyperText Transfer Protocol	
34	HTTPS	HyperText Transfer Protocol Secure	
35	IOT	Internet of Things	
36	IPv4/IPv6	Internet Protocol version 4/6	
37	LCD	Liquid Crystal Display	LCD is the panel
38	LED	Light-Emitting Diode	LED is the backlight. Power LED co-located with IR receiver.
39	MAC	Media Access Control	
40	mDNS	MultiCast Domain Name Server	
41	MEMC	Motion Estimation, Motion Compensation	
42	NOC	Network Operating Center	
43	NTSC	National Television System Committee	TV transmission requiring tuner, limited to analog 480i
44	NTP	Network Time Protocol	
45	ODM	Original Design Manufacturing	
46	OLED	Organic Light-Emitting Diode	
47	OUBE	Out-of-Box Experience	
48	OTA	Over the Air	Free broadcast TV
49	OTP	One-Time Password	
50	OTT	Over the Top	Content delivered over broadband internet delivered by cable, satellite or IPTV.
51	PQ	Picture Quality	
52	QAM	Quadrature Amplitude Modulation	Cable standard for digital broadcast
53	REST	REpresentational State Transfer	
54	ROM	Read-Only Memory	
55	SC	SmartCast	

56	SCFS	SmartCast File Service	
57	SCPL	SmartCast Platform Layer or SmartCast Python Layer	
58	SCOS	SmartCast OS	
59	SCTV	SmartCast TV	
60	SDR	Standard Dynamic Range	Old color standard based on Rec 709 color gamut with limited dynamic range,
61	SOC	System on Chip	
62	SSDP	Simple Service Discovery Protocol	Used in conjunction with DIAL for a two screen experience
63	TDLS	Tunneled Direct Link Setup	
64	TEE	Trusted Execution Environment	
65	TLS	Transport Layer Security	
66	TTS	Text to Speech	
67	UHD	Ultra High Definition	2160p or 3840 x 2160 AKA 4K
68	WOL	Wake on LAN	
69	WOW	Wake on Wi-Fi	
70	WOBT	Wake on Bluetooth	