RDK6 Feature Validation

Validation / Test Coverage Status

Category	Subcategory	Existing/New Feature	Test Readiness
Streaming apps	YouTube	Upgrade	Premium app certification test suite
	Netflix	Upgrade	Premium app certification test suite
	Amazon Prime	Upgrade	Premium app certification test suite
Framework	Firebolt	Upgrade	Firebolt Native Apps Compliance Suite Firebolt Certification App (FCA) - Open sourcing in progress - Expected ETA - Aug EOM
	Ripple	New	Firebolt Certification App (FCA) - Open sourcing in progress - Expected ETA - Aug EOM
	Lightning	Upgrade	Exercise different lightning apps - Refer animation test apps under TDK MVS Test Apps Media Playback And Graphics Validation Test Setup Strike test tool - https://strike.lightningjs.io/es6/#home
	QT for BLE	Existing	Manual tests using BLE remote.
	Core Thunder framework	Upgrade	RDK API And Event Certification Suite **Testing Areas** • Execute rdkservices plugins test • Perform System testing • Perform Bootup testing • Execute Performance testing • Perform WebApp testing
	Browser - WPEWebkit	Upgrade	Browser Performance Suite rdkcentral/MVT: Media Validation Tool for verification of browser's media playback capabilities
Screen cast	DIAL	Existing	Test coverage using Xcast RDK service - RDK API And Event Certification Suite Manual tests for real screen validation
Security	DAC (Containerization)	New	Containerization Test Framework
	Dobby	New	Containerization Test Framework
	Rialto	New	Rialto Gstreamer Test Framework
	Packager (Lisa)	New	RDK API And Event Certification Suite
	AppArmor	New	AppArmor Test Framework
Graphics	Rendering	Existing	Westeros ESSOS test apps - Firebolt Native Apps Compliance Suite
	Graphics (OpenGL ES)	Existing	Glmark2 - Hardware Performance Suite
Gstreamer	Gstreamer	Existing	Gstreamer unit tests
	Gstreamer SoC SDK	Existing	Firebolt Native Apps Compliance Suite
DRM & Content protection	PlayReady	Existing	Media Playback And Graphics Validation Suite rdkcentral/MVT: Media Validation Tool for verification of browser's media playback
	Widevine	Existing	Media Playback And Graphics Validation Suite
	Common SVP	New	
	Verimatrix	New	
Build & Platform	Yocto version	Existing	
	Kernel	Existing	Kernel Test Framework
	Init system	Existing	Basic sanity and Performance tests
	Application Manager	Existing	RDK Shell service test coverage, RDK API And Event Certification Suite

	Broadcom SDK	Existing	HAL Certification Suite
Video Player	IP	Existing	Media Playback And Graphics Validation Suite rdkcentral/MVT: Media Validation Tool for verification of browser's media playback
	QAM	Existing	NA
	DVB	Existing	DVB RDK service test coverage, RDK API And Event Certification Suite
	ATSC	Existing	NA
	TSB	New	Fog test coverage (Test cases/streams for Live protected contents are not available)
	DAC Apps	Existing	Containerization Test Framework RDK API And Event Certification Suite
Remote Control and Voice	Voice Stack	New	Manual tests for voice remote
	RF4CE remote	Existing	
	BLE voice remote	Existing	
	External Audio support	Existing	
Networking	Wi-Fi	Existing	•Wi-Fi service test coverage, RDK API And Event Certification Suite •Wi-Fi HAL test coverage, HAL Certification Suite
	LAN	Existing	Test execution using ethernet connected DUT
Device Management	Telemetry		Automatics Tests
	Feature Control		Automatics Tests
	Crash Upload		Automatics Tests
	Firmware Upgrade		Xconf firmware upgrade tests via System service RDK API And Event Certification Suite
	Webpa		Automatics tests

Validation Platforms

- **Validation support for a single build (32 bit) on each platform**
- **Along with regular RDK builds for RPI HYB and RPI MC, separate Alexa enabled build for the same.**
- **UEI Tatlow, T4H Lima RCUs supported platform builds for validation.**

	Platform Name	Remarks
1	RPI HYB	Complete test suites execution for each RDK6 RC builds
2	RPI MC	
3	Realtek SOC Reference	
4	Amlogic SOC Reference	
5	Broadcom SOC Reference	
6	Sercomm - Realtek Video Accelerator	
7	Skyworth - Amlogic Video Accelerator	
8	Sagemcom - Broadcom Video Accelerator	
9	Amlogic TV	Applicable test suites execution.

Validation Process

- Flash the devices using RDK6 RC builds provided by CMF.
- Run the tests available in TDK, Automatics and Manual tests against each feature.
- Attach the test reports including defect mapping in the feature ticket and also provide the tested image details in ticket.
- Link all open RDK/SOC/OEM issues identified as part of the feature validation in the corresponding feature ticket.
- If there are no failures then will resolve the ticket as **Verified** , otherwise **Failed** and assign back to developer.

Defect Dashboard

Overall defect summary

⚠ com.atlassian.sal.api.net.ResponseException: Could not parse json from Jira

Open Issues

key	summary	type	created	due	assignee	reporter	priority	status	resolution

⚠ Jira project doesn't exist or you don't have permission to view it.

View these issues in Jira