RDK Services

Overview

RDK services are a set of JSON-RPC services that provide access to the RDK core components on set-top devices. RDK services are implemented as Thunder plugins for the Thunder framework. The Thunder framework is responsible for, among other things, managing plugins and handling client requests. RDK services are invoked over HTTP or Web Sockets using their JSON-RPC services-based interface. This makes RDK services accessible to any client that can process JSON, such as Lightning JavaScript applications or HTML5 web applications. For native applications, you can also invoke RDK services directly using C/C++ native code.

Documentation

The open-source component of RDK Services is developed within the rdkcentral organization on GitHub. For further information and API references, you can refer to the RDK Services project website . The below table provides a list of RDK Services plugins along with their corresponding GitHub links.

RDK Services Plugin	Github Link
ActivityMonitor	ActivityMonitor (rdkcentral.github.io)
AVInput	AVInput (rdkcentral.github.io)
Bluetooth	Bluetooth (rdkcentral.github.io)
CompositeInput	CompositeInput (rdkcentral.github.io)
ContinueWatching	ContinueWatching (rdkcentral.github.io)
ControlService	ControlService (rdkcentral.github.io)
dataCapture	DataCapture (rdkcentral.github.io)
DeviceDiagnostics	DeviceDiagnostics (rdkcentral.github.io)
DeviceIdentification	DeviceIdentification (rdkcentral.github.io)
DeviceInfo	DeviceInfo (rdkcentral.github.io)
DisplayInfo	DisplayInfo (rdkcentral.github.io)
DisplaySettings	DisplaySettings (rdkcentral.github.io)
DTV	DTV (rdkcentral.github.io)
FireboltMediaPlayer	FireboltMediaPlayer (rdkcentral.github.io)
FrameRate	FrameRate (rdkcentral.github.io)
FrontPanel	FrontPanel (rdkcentral.github.io)
HdcpProfile	HdcpProfile (rdkcentral.github.io)
HdmiCec_2	HdmiCec_2 (rdkcentral.github.io)
HdmiCecSource	HdmiCecSource (rdkcentral.github.io)
HdmiCec	HdmiCec (rdkcentral.github.io)
HdmiCecSink	HdmiCecSink (rdkcentral.github.io)
HdmiInput	HdmiInput (rdkcentral.github.io)
LinearPlaybackControl	LinearPlaybackControl (rdkcentral.github.io)
LocationSync	LocationSync (rdkcentral.github.io)
LoggingPreferences	LoggingPreferences (rdkcentral.github.io)
MaintenanceManager	MaintenanceManager (rdkcentral.github.io)
MediaEngineRMF	MediaEngineRMF (rdkcentral.github.io)
Messenger	Messenger (rdkcentral.github.io)
Monitor	Monitor (rdkcentral.github.io)
MotionDetection	MotionDetection (rdkcentral.github.io)

Network	Network (rdkcentral.github.io)
OCIContainer	OCIContainer (rdkcentral.github.io)
OpenCDMi	OpenCDMi (rdkcentral.github.io)
Packager	Packager (rdkcentral.github.io)
PersistentStore	PersistentStore (rdkcentral.github.io)
PlayerInfo	PlayerInfo (rdkcentral.github.io)
RDKShell	RDKShell (rdkcentral.github.io)
RemoteActionMapping	RemoteActionMapping (rdkcentral.github.io)
RemoteControl	RemoteControl (rdkcentral.github.io)
ScreenCapture	ScreenCapture (rdkcentral.github.io)
SecurityAgent	SecurityAgent (rdkcentral.github.io)
StateObserver	StateObserver (rdkcentral.github.io)
SystemAudioPlayer	SystemAudioPlayer (rdkcentral.github.io)
System	System (rdkcentral.github.io)
Telemetry	Telemetry (rdkcentral.github.io)
TextToSpeech	TextToSpeech (rdkcentral.github.io)
Timer	Timer (rdkcentral.github.io)
TraceControl	TraceControl (rdkcentral.github.io)
UsbAccess	UsbAccess (rdkcentral.github.io)
UserPreferences	UserPreferences (rdkcentral.github.io)
VoiceControl	VoiceControl (rdkcentral.github.io)
Warehouse	Warehouse (rdkcentral.github.io)
WebKitBrowser	WebKitBrowser (rdkcentral.github.io)
Wifi	Wifi (rdkcentral.github.io)
Xcast	XCast (rdkcentral.github.io)

Some RDK components contain RDK services that are separately developed as part of their project. Refer to the each component repository, respectively:

- YouTube (Cobalt)