

## CIMA VIDEO SERVICES FOR BROADCOM 7405 PLATFORM

CIMA supplies the 7405 platform with several Video Applications. These applications can be used to enable a wide variety of Consumer Services. All services are optimized for Over The Top use and make the 7405 platform an excellent box for Operator as well as Hybrid or OTT implementations.

### Television Services

*IPTV Player.* The UDP Player is an optimized Television Player supporting UDP and HTTP streaming. It supports a large amount of cache storage up to 4 MB. Even with this large cache the Player can be setup to start playing from 0 KB and up. The engine supports Transport Streams. Also the player can support Smooth Streaming.

*DVB Player Engine.* This engine is able to play Transport Streams from any tuner type. In combination with the Player engine there is also support for Conditional Access Systems either Software, SmartCard or Common Interface based. Also an application is supplied to support search and tuning of hardware tuners.

*TVU Player.* This OTT player supports "Peer To Peer" distribution of Television Channels. Within the package of TVU a large amount of foreign channels from as far as China, North and South America, Middle East and other TV channels can be received.

*Electronic Program Guide.* This application can get its data either from a Transport Stream or by accessing Internet XML based databases for EPG data (like epgdata.org). Also we can supply an API to access server based solutions.

*PVR services.* Streams can be recorded to either a Harddisk (both SATA as USB connected) and USB mass storage.

### Video On Demand Services

*VOD Client.* This client combines the function to support RTSP based playing of Video Streams. Combined with an XML based engine to support Metadata exchange, a VOD service can be supplied. Just like the UDP Player the VOD Player supports SmoothStreaming and caching to optimize support for OTT streams.

*BitTorrentDNA.* A very effective way of VOD is the forward/store/play method that is supplied using BitTorrent DNA. This technology makes it possible to deliver VOD services for HD movies, often used in areas where bandwidth problems of the internet occur. It consists of a DNA account and Content Management System from BitTorrent and the DNA client that manages the download process.

*YouTubeXL client.* This is a standard client to support YouTube. It comes with a Flash based User Interface including search and selection.

### Security Services

*CardDeCrypto Engine.* We support both Common Interface as well as direct embedded SmartCards of Irdeto, CONAX and many others. It makes it easy to seamlessly implement any combination of security even when you want to combine DVB decryption with OTT security.

*AES engine.* This engine makes it possible to distribute Encrypted files (like with BitTorrent DNA). The security can also be combined with the Security Peer Engine of the chipset that supports a long list of security measures. The engine also

supports the peering of the HDD to the address based on the Chipset peering, making it impossible to install the HDD in a PC or other STB and play/copy the content there.

*SoftwareDeCrypto Engine.* We support several software based Conditional Access Systems like VeriMatrix and SecureMedia.

## Special Features

*HotelTV Integration.* CIMA developed a special Integration package using a single cable integration between the HotelTV versions of Philips, Samsung and LGE. This makes it possible to integrate the TV and the STB to one functioning unit for installation in the Hospitality market or for Digital Signage.

*LAN/WAN Enabled.* We support the software to enable a second Ethernet Controller and/or a WiFi Card (up to 11N). Also it is possible to integrate Internet

Gateways like a DSL or Cable modem based on our integrated IP stack (PPP).

*WebKit Browser.* This Internet enabled browser makes it possible to browse the Internet on TV. With this generation TV sets in HD mode you can get an almost PC alike Internet browsing experience.

*Adobe Flash Lite / JVM.* These engines make it possible to run Flash as well as JAVA applications directly on the the box. Items like games, widgets etc can make the box a multifunctional device.

*VideoPhone (Q4 2010).* In partnership with INKSPIN we are developing a VideoPhone application based on Skype switching. It makes it possible to call to other STB's but also to PC/MAC's with Skype installed.

*Payment Interface.* This XML interface is integrated against RBS WorldPay system, making implementation of payments services easy.



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