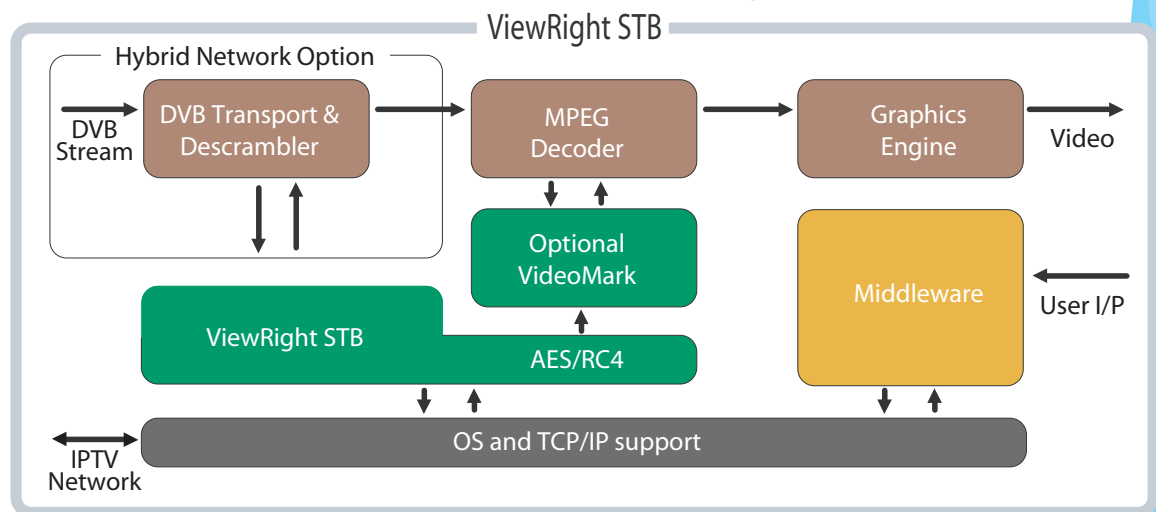


Software-based Content Security for IP Set-top Boxes

The Verimatrix ViewRight STB client is a robust package of portable embedded code that implements VCAS security functions within each set-top box (STB) in a pay-TV system. ViewRight STB code has been designed to require only a minimum of resources from the STB hardware and run-time environment and to use a standardized set of simple interfaces to the middleware code also running on the STB. As a software-based security solution, ViewRight STB operates without the need for smartcard or other interface hardware and offers best of breed content security and revenue protection functions in a hardened implementation that incorporates signing, multiple levels of integrity checking, debugger detection, key obfuscation, and intrinsic renewability. ViewRight STB is integrated and operational on a wide variety of commercial STB hardware and software combinations, with new product support added on a regular basis.



Features

Platform OS	Windows CE, Linux, VxWorks, OS20, Nucleus, etc.
Hardware	Sigma, Broadcom, Conexant, ST, TI, NXP, etc.
Secure feature use	Exploits all available SOC secure resources and functions
Memory footprint	Approx 500kB code, plus SSL support if not present
Content encryption	128bit AES, 128 bit RC4
Broadcast support	Multicast channels in MPEG-2 Transport Stream
VOD support	MPEG-2 Transport Stream with trick play support
Clone detection	Patent pending GeoAuthentication & other technologies
Middleware support	Multiple partner options

Built-in DVR Support

ViewRight STB incorporates a seamless approach for Digital Video Recording (DVR) functionality within pay-TV deployments, using local hard disk storage or a network DVR (nDVR) approach within the pay-TV head-end. ViewRight DVR functions do not compromise the security perimeter of the pay-TV system since VCAS is architected to directly enable recording and replay of broadcast streams without translation or re-encryption. By leverage of key management in the VCAS Content Security Manager, DVR and nDVR functions are supported in a flexible and cost effective manner. VCAS and ViewRight STB enable implementation of any possible business rule and content management scheme while satisfying all concerns about vulnerability of DVR files to decryption and redistribution.