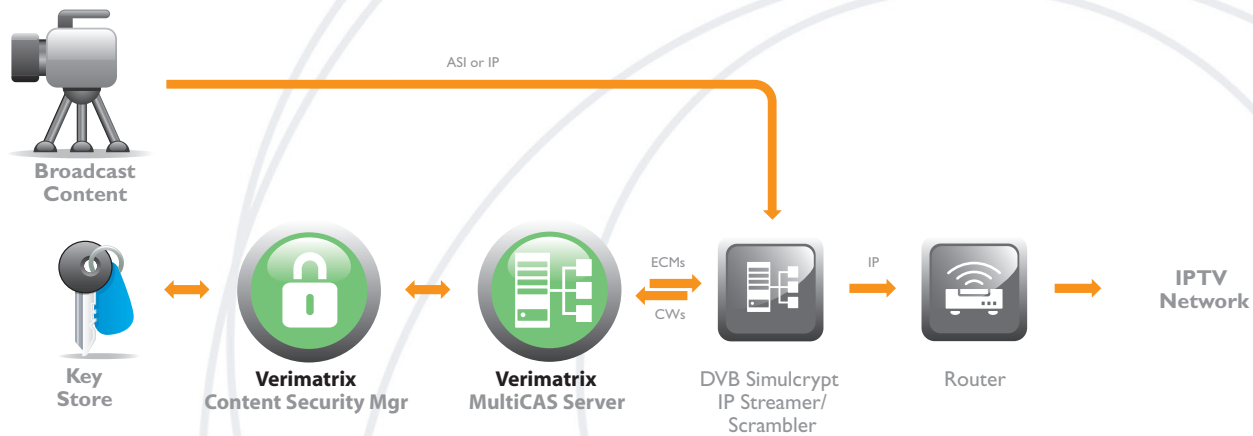


High Performance Broadcast Encryption for IPTV

Verimatrix MultiCAS/IP is a key option within the Video Content Authority System (VCAS™) that integrates third-party IPTV head-end scrambler equipment with robust Verimatrix software-based content security.

MultiCAS/IP uses standardized DVB (Digital Video Broadcast) Simulcrypt to enable VCAS-compatible encryption of multicast streams in an IPTV system. Integration of MultiCAS with commercial multiplexer and IP streamer equipment enables Advanced Encryption Standard (AES) scrambling of MPEG-2 and MPEG-4 multicast IP encapsulated content at high data rates across multiple service streams.

MultiCAS/IP interfaces directly with third-party DVB Simulcrypt-compatible video, audio and data multiplexers/streamers, which perform the content encryption. MultiCAS/IP generates VCAS-formatted entitlement control message (ECM) packets for insertion in the MPEG-2 transport stream to support client service decryption. The timing of key change intervals and other service parameters are managed directly through the multiplexer interface.



Features

- Platform OS: Sun Solaris 10 for SPARC; Red Hat Enterprise Linux 4.5
- Head-end interfaces: Compliant to DVB Simulcrypt (ETSI TS 103 197 V1.5.1, ECMG)
- Key mutation rate: User selectable per stream, up to 2/sec
- Content encryption: 128-bit AES, others as supported by Multiplexer
- Capacity: 1024 channels per multiplexer/streamer, subject to Mux model and key mutation rate
- Network management: SNMP v1, v2c, v3
- Equipment compatibility: Adtec Digital, AppearTV, Arris, Cisco, Harmonic/Scopus, Tandberg TV/Ericsson, Thomson and others

MultiCAS/IP offers a high performance hardware alternative to the Verimatrix Real Time Encryption Server (RTES™) for broadcast content encryption when used in conjunction with third-party head-end scrambling equipment. In addition to the benefit of DVB Simulcrypt support, a MultiCAS-based configuration may provide additional choices in overall rack space usage, equipment redundancy and system management when configuring an IPTV head-end.

VCASTM

The Verimatrix Video Content Authority System (VCAS) offers an advanced suite of technologies that address content security challenges for the networks of today, and those of the future.

Supporting IPTV, traditional DVB broadcast and mobile networks, VCAS fully exploits the power and elegance of modern two-way IP infrastructure to provide a superior level of content security and revenue protection on STBs, PC and a growing range of other client devices. Even in DVB broadcast networks, cost and renewability requirements demand that the system architecture match evolving standards. Cryptographic and secure electronic transaction technologies proven in e-commerce applications, together with the increasingly sophisticated features of client device chipsets, enable VCAS to offer a more renewable and flexible implementation of content protection than that of traditional CA systems.

VCAS incorporates pioneering features that provide the best security perimeter of any content protection system, enabling complete transparency for legitimate content consumption while significantly raising the level of protection against content piracy.

As the global leader in software-based security, VCAS offers flexibility in choice of client devices, broad middleware interoperability and proven scalability.

Features

- Video encoding MPEG-2, MPEG-4/H.264, VC1, DivX
- Video encapsulation MPEG-2 Transport Stream
- Content encryption 128-bit AES, RC4, DVB-CSA
- Digital certificates X.509 compliant, 1024-bit PKI signature hierarchy
- Network management integration SNMP v1, v2c, v3
- VOD content ingestion Manual or automated with flexible workflow
- Head-end integration XML-RPC, SOAP, DVB-Simulcrypt
- Hierarchical distribution Enables multi-level content delivery channels without intermediate re-encryption
- Client flexibility Supporting very wide range of broadcast and hybrid STBs, plus PC and other devices
- Clone detection Revenue protection through patent-pending monitoring and response techniques
- Watermarking Robust tracing of illegitimate content copies through patented VideoMark user specific watermarking implementations

Verimatrix—Securing Content, Enhancing Entertainment

Verimatrix sets the standard for software-based content security and revenue enhancement technologies in pay-TV networks, with a growing global customer base of service providers. VCAS and ViewRight technologies offer an independently-audited security solution for pay-TV operators of all types, and the company is consistently ranked as a global leader in the content protection marketplace.

The company's 3-Dimensional Content Security approach enables secure delivery of content to multiple devices across multiple networks using multiple layers of content protection techniques. Maintaining close relationships with major studios, broadcasters, industry organizations and our broad partner ecosystem enables the company to address the challenges facing pay-TV networks of today, and those of tomorrow. For more information, please visit www.verimatrix.com.



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