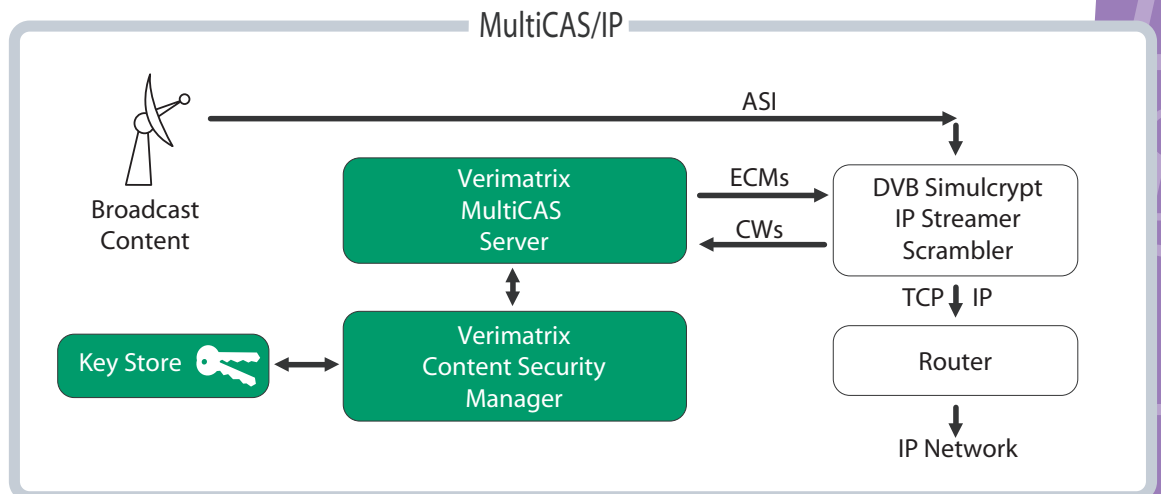


High Performance Broadcast Encryption for IPTV

The Verimatrix MultiCAS server is a key option within the Video Content Authority System (VCAS) that integrates high performance IPTV head-end scrambler equipment with robust software-based content security.

MultiCAS/IP uses DVB 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. Timing of key change intervals and other service parameters are managed directly through the multiplexer interface, while MultiCAS inserts VCAS formatted ECM packets within the transport stream to support client service decryption.

MultiCAS interfaces directly with DVB Simulcrypt-compatible video, audio and data multiplexer and IP streamer equipment from leading head-end vendors.



Features

Platform OS	Solaris 10, Linux (RHE v4/5)
Head-end interfaces	Compliant to DVB Simulcrypt
Key mutation rate	User selectable per stream, up to 2/sec
Content encryption	128bit AES, others as supported by scrambler
Capacity	128 channels per multiplexer/streamer
Network Management	SNMP
Equipment compatibility	Adtec Digital, Harmonic, Scientific Atlanta (a Cisco company), Tandberg Television, Thomson and other vendors supporting DVB Simulcrypt.

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 3rd-party head-end scrambling equipment. The option of using a MultiCAS-based configuration provides additional choices in overall rack space usage, equipment redundancy and system management when configuring an IPTV head-end.



VCAS

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. Traditional conditional access systems are architected around one-way communications, while Verimatrix has designed its solutions from the ground up using the power and elegance of modern two-way IP infrastructure. Cryptographic and e-commerce technologies proven on the Internet enable VCAS to offer a more sophisticated level of content protection than traditional smartcard-based 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.

VCAS security has received very favorable results in independent audits and is the approved security choice in pay-TV operator deployments on a worldwide basis. As the global leader in software-based security, VCAS offers flexibility in choice of client devices, broad middleware interoperability and proven scalability.

Features

Platform OS	Solaris 10, Linux (RHE v4/5)
Video codecs	MPEG-2, H.264, VC1, DivX
Video encapsulation	MPEG-2 TS
Encryption	128bit AES, 128bit RC4, 1024 bit PKI (2048, 4096 optional), DVB-CSA
Digital certificates	X.509 compliant
Network management	SNMP
Database support	Oracle (9i, 10g)
Content ingestion	Manual or automatic
Head-end integration	XML-RPC, SOAP, DVB-Simulcrypt
Clone detection	Patent-pending GeoAuthentication & QuantumID options

Verimatrix—Securing Content, Enhancing Entertainment

Verimatrix sets the standard for software-based content security and revenue enhancement technologies in pay-TV networks, with a global customer base of telecommunications providers. VCAS offers a suite of next-generation technologies that protect content and enhance revenue streams, while combating digital piracy wherever it occurs within the distribution chain. VCAS has been consistently highly rated in independent audits with zero security exposures.

The company's content security experts maintain close relationships with the major studios and broadcasters to help address the challenges facing the pay-TV networks of today, and those of tomorrow. Verimatrix's customers benefit with most favorable access to premium content, enabling the richest, most versatile viewing experience for their digital video subscribers. For more information, please visit www.verimatrix.com

Verimatrix Location and Contact Information

Verimatrix, Inc. • 6825 Flanders Drive • San Diego, CA 92121

USAGeneral +1.858.677.7800 • Fax +1.858.677.7804

internet: www.verimatrix.com • email: info@verimatrix.com