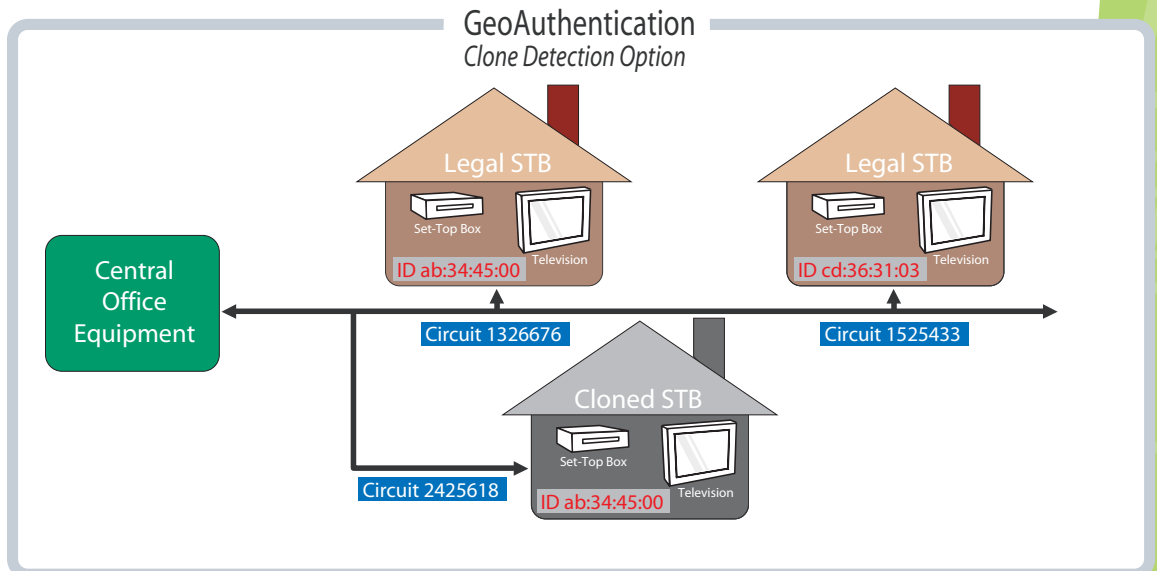


Description

GeoAuthentication™ is a head-end option to the Verimatrix Video Content Authority System (VCAS) that directly addresses theft of service challenges for system operators. In even the most carefully controlled operational environment, service revenue can be lost through service piracy. Sophisticated attacks on a large scale can involve “clone” STB clients that mimic legal equipment by duplication of MAC address and other theoretically unique identifiers. GeoAuthentication addresses this threat by cross referencing STB or PC client identifiers with information about the physical network connections between the head-end and the subscriber equipment. This physical connectivity information can be gathered from DHCP server option 82 records and other network management databases. Routine analysis of STB authentication requests in conjunction with network topology data generates exception conditions related to changes in location, duplicated credentials or other irregular activity which can then be investigated more thoroughly.



Features

Platform OS	Solaris 10, Linux (RHE v4/5)
Head-end interfaces	DHCP, SNMP, Custom
GUI	Java based
Sweep frequency	Operator controlled, typical daily
Middleware interface	XML-RPC subscriber management interface works in push or pull model compatible with multiple middleware packages
Networks supported	xDSL, Fiber, Ethernet and other topologies with unique physical connections

GeoAuthentication extends the security perimeter of the IPTV network by unambiguously linking the STB clients, the physical network infrastructure and the head-end authentication system. With management tools like GeoAuthentication, theft of service in IPTV systems due to client cloning can be greatly reduced or eliminated.



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