

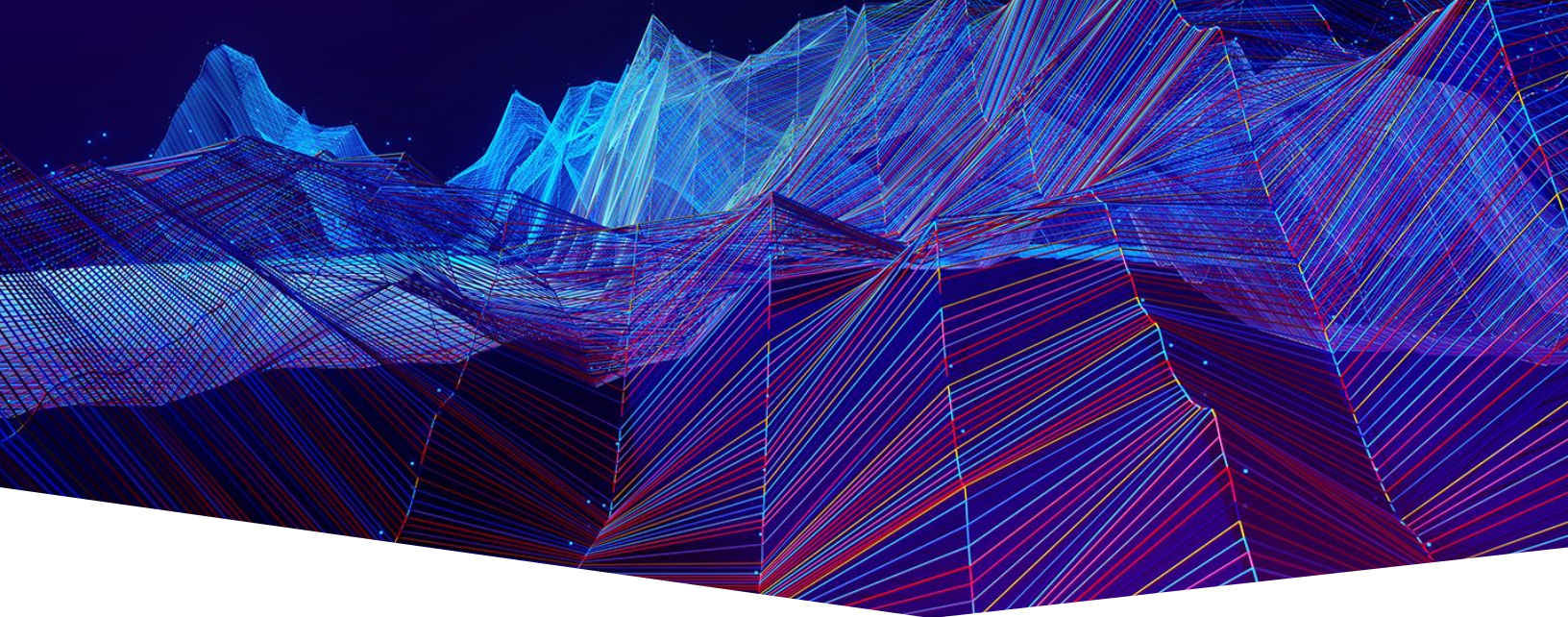


Advanced IPTV Experience

Elevate your PayTV operations with an award-winning solution, ensuring robust security, scalability, and seamless content delivery

Verimatrix
VCAS IPTV

PRODUCT BRIEF



VCAS ULTRA FOR IPTV

In the dynamic and competitive media industry, the importance of content is paramount. PayTV operators, striving to maximize the value of their infrastructure while remaining competitive, will find a reliable ally in the Verimatrix VCAS Ultra for IPTV solution. Esteemed by content owners, this solution stands out for its efficiency and robust security in content delivery.

Featuring exceptional scalability and centralized encryption capabilities, VCAS for IPTV empowers network operators to securely and cost-effectively distribute content tailored for various segments across any device.

Leverage a superior level of multi-screen content and revenue security, harnessing the efficiency and versatility of two-way broadband infrastructure. VCAS for IPTV, a market leader and award-winning digital TV security solution, offers efficient implementation, ensuring operators stay at the forefront of content security and delivery.

Versatile Deployment Options

Understanding that one size does not fit all, Verimatrix VCAS for IPTV presents a unique offering with dual deployment options. Choose between on-premises installation for complete control and integration within your existing infrastructure, or opt for the convenience and scalability of Verimatrix VCAS as a SaaS solution. This flexibility ensures that whether your operation is large or small, or your needs change over time, our solution evolves with you.

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Comprehensive Feature Set

Part of the VCAS Ultra multi-network platform, VCAS Ultra for IPTV is a full-featured Conditional Access (CA) solution trusted by the largest service providers for over 20 years. It offers:

Flexibility in Deployment:

Cardless clients, including state-of-the-art secure SOC implementations like trusted execution environments (TEE), Business-to-Consumer (B2C) and Business-to-Business (B2B) configurations, original equipment manufacturers (OEM) and hosted solutions, and cost-effective, small form factor scalability for tier-1 Pay-TV operators with millions of subscribers.

Multi-Network Extensibility:

As part of the broader VCAS Ultra multi-network platform, it extends to DVB, and Internet TV/OTT, with options for hybrid DVB-OTT services, optional software- or hardware-based forensic watermarking, and single security authority integration.

VCAS Operator Management Interface (OMI):

Serves as a centralized integration point for customer support, billing, and middleware systems. OMI enables consistent subscriber and rights management across diverse networks and devices (DVB, IPTV, Internet TV/OTT, and hybrids).

Content Security Manager:

Supports authentication, key distribution, and user control.

Encryption Systems Support:

This solution seamlessly integrates with third-party AES scramblers. Additionally, the VCAS solution offers a Real-Time Encryption Server (RTES) for encrypting live streams and a VOD Encryption Manager for pre-encrypting VOD assets, providing versatile encryption options.

VCAS Monitoring:

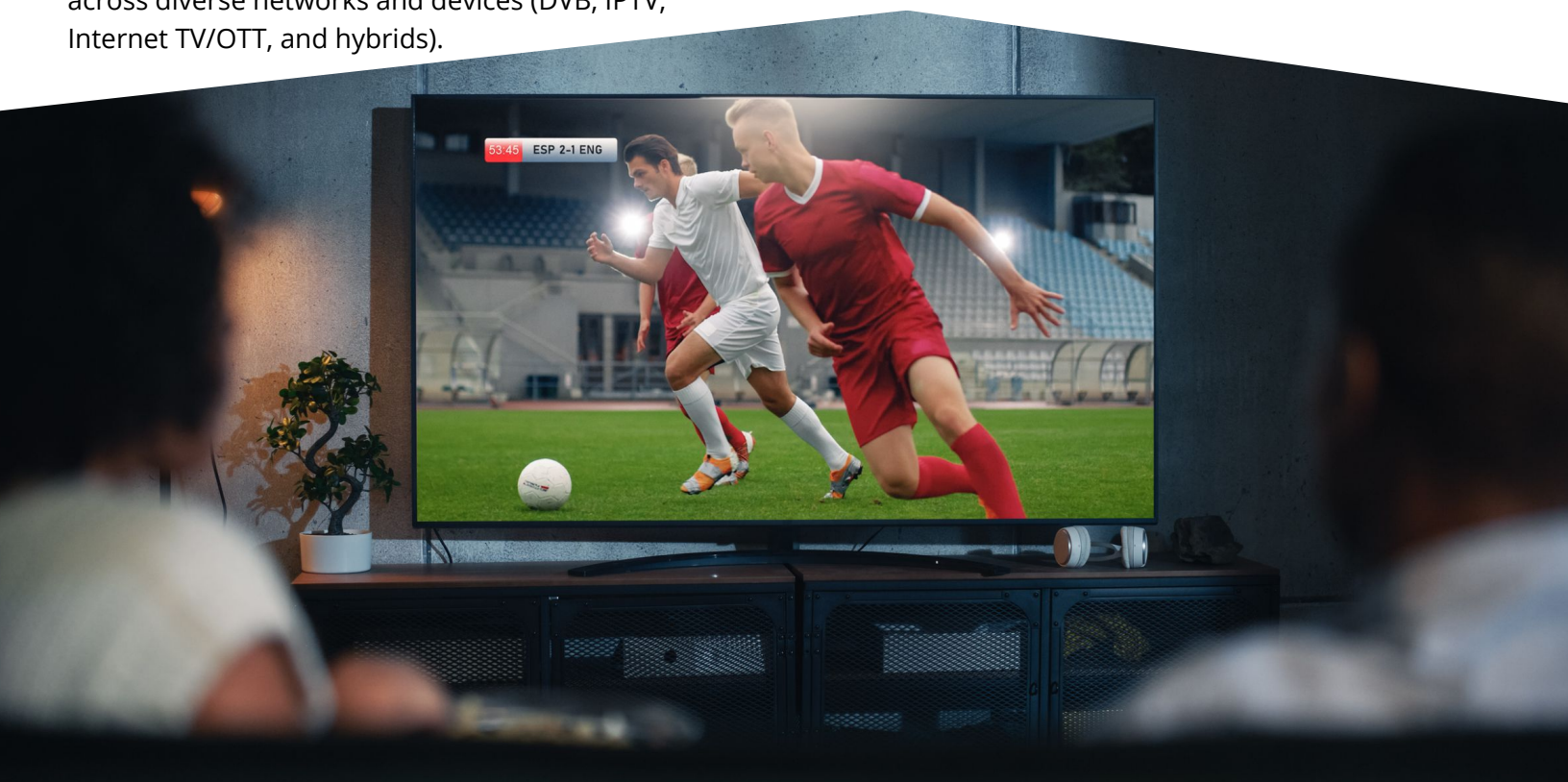
This feature enables operators to track connected device behaviors, content consumption, and network usage. It is an invaluable tool for guiding business decisions, detecting anomalies, and optimizing network usage.

Hybrid Deployment Capable:

VCAS for IPTV offers the flexibility to deploy in a hybrid topology, combining SaaS and on-premises solutions. Operators can choose which system to prioritize as primary and which to use as a backup, according to their specific needs. Verimatrix efficiently accommodates either setup.

Watermarking (Optional):

Integrated with Verimatrix watermarking solution to protect the entire path of content consumption across multiple platforms.



The solution offers a full range of pay-TV functionality, including Pay-Per-Channel (PPC), Pay-Per-View (PPV), and Push Video on Demand (Push VOD), along with Digital Video Recording (DVR) capabilities.

Key Design and Technology Features Include:

- A Web services API for system control.
- Pre-integration with a broad range of set-top boxes (STB) offering various security levels.
- Independent security audits by Merdan and Cartesian with excellent results.
- Compliance with the MovieLabs Specification for Enhanced Content Protection (ECP), Secure Media Pipeline (SMP) and High Definition Content Protection (HDCP 2.2) required for Ultra High Definition (UHD/4K) and other high-value content.
- Escalable to manage any number of devices.
- Support of Business-to-Business models.

A Single Management Interface

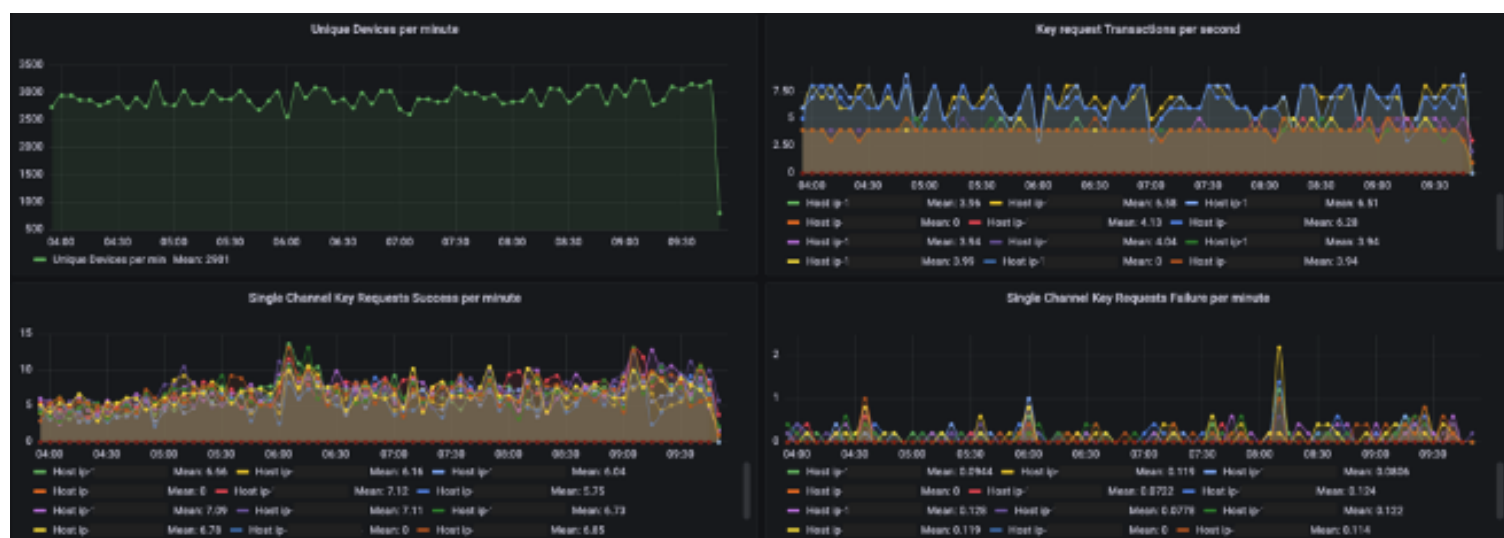
A unique value-add by Verimatrix® is the common VCAS entitlement and management interface, providing a single point of integration with back-end systems like middleware and subscriber management/billing systems. VCAS enables cross-DRM domain management (i.e., VCAS Super Domains), allowing content entitled to a subscriber's domain to be automatically available to all domain devices, whether they are IPTV, DVB, Hybrid, or OTT clients. With Verimatrix VCAS Ultra for IPTV, you are equipped not just to navigate the currents of the media industry but to lead the way, ensuring the protection and maximization of your content investments.

Flexible Solutions that Scale as You Grow

Verimatrix VCAS solutions are pre-integrated with a vast global ecosystem and have proven interoperability with subsystem providers (including billing, encoding, middleware and application vendors). This gives you the freedom to work with partners of your choice for your video content workflow needs – all while maintaining studio-compliant security levels. Verimatrix is often selected for our unprecedented ability to get customers up and running quickly.

VCAS Monitoring

Verimatrix VCAS solution brings the best of cloud-enabled monitoring capabilities to the on-premises Verimatrix customers of today and tomorrow.



A unique mix of cloud-based technologies that offers the video content industry with new and easy everywhere-access to subscriber experiences and trends, the latest Verimatrix VCAS monitoring is available to current and prospective clients – prioritizing the need to powerfully mix intelligence with revenue preservation and ease of use amid today's ever-increasing threat of bad actors.



ViewRight® STB for IPTV

ViewRight® (Ultra) STB for IPTV is a robust package of portable embedded code that implements the VCAS security functions within each STB in a pay-TV system. The ViewRight® STB code has been designed to require only a minimum of resources from the STB hardware and run-time environment and use a standardized set of simple interfaces to any STB control software and/or middleware. Its architecture operates in a codec-independent fashion to seamlessly support MPEG-2, MPEG-4, and other standard codecs for standard, high-definition, and 4K format content.

ViewRight® STB is already integrated with the vast majority of SoC families including 4K and UHD chipsets. The solution has been architected to be highly portable to different hardware architectures and run-time environments.

The embedded, secure system-on-chip (SOC) ANDTEE based clients provide hardware-level security without card logistics, including professional CI CAMs and consumer CI+ CAMs.

The ViewRight® STB support the following security features:

- Hardware Root of Trust: Formal SoC Certification for Ultra Security Content.
- Secure Video Path Support: Verified at the SoC platform level using TEE.
- HDCP 2.2 Protection and Signaling: Controlled asset by asset from head-end.
- Third-Party Audits: Passed Riscure hardware audits: including side channel attack and TEE verification. Farncombe VCAS Ultra system audit passed.
- VideoMark® Forensic Watermarking: Optional component that provides hardware based watermarking integrated at the SoC level.

ViewRight® CI+ for IPTV

The ViewRight® CI+ CAM is a low-cost consumer device based on the SMiT platform, offering an embedded cardless ViewRight® client. It implements support for CI+ v1.4 which supports routing and decryption of premium protected content delivered over IP to a network interface. The CI+ solution supports copy protection and output control according to CI+ specification.

Leverage the Verimatrix Partner Ecosystem
Verimatrix thrives on a robust network of strategic alliances with leading pay-TV technology providers and Consumer Electronics (CE) manufacturers. These partnerships focus on ensuring seamless integration, operational ease, and enhanced value for our customers. Our ecosystem encompasses a wide range of industry specialists, from content aggregation and system integration to VOD servers, middleware systems, and hardware manufacturers like set-top boxes and smart devices. This broad and dynamic network allows Verimatrix to offer innovative, pre-integrated solutions, aligning with both current and future market demands.

Conditional Access and Trust

Verimatrix VCAS offers stakeholders in the new multi-network service paradigm several constants: greater trust between rights owners and video service providers or distribution networks; and high-value content on whatever screens and networks viewers may chose.

Visit www.verimatrix.com/anti-piracy/vcas/.



About Verimatrix

Verimatrix (Euronext Paris: VMX) helps power the modern connected world with security made for people. We protect digital content, applications, and devices with intuitive, people-centered and frictionless security. Leading brands turn to Verimatrix to secure everything from premium movies and live streaming sports, to sensitive financial and healthcare data, to mission-critical mobile applications. We enable the trusted connections our customers depend on to deliver compelling content and experiences to millions of consumers around the world. Verimatrix helps partners get to market faster, scale easily, protect valuable revenue streams, and win new business. To learn more, visit www.verimatrix.com.



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