

## A Newly Engineered Cardless Security Platform for the Future of Video



### Key features

- “Always-on” experience
- Instant key and entitlement distribution
- Comprehensive chipset integration
- Highly efficient Entitlement Management Message (EMM) bandwidth handling for maximum scalability
- Cloud-ready design
- Highly individual Entitlement Control Message (ECM) encryption
- Client hardware security based on latest industry standards

### The Challenges of Network and Security Migration

The support cost and frustration of black screens are major issues for video service operators. Limitations in broadcast security solutions also cause concerns about cycle times and bandwidth, but broadcasters often feel that migrating to a new cardless security solution is overwhelming and fear vendor lock-in.

Transitioning from broadcast to multi-network services creates technical and commercial challenges for operators:

- Lack of set-top box return path to the head-end
- Need to increase average revenue per user (ARPU) and offer personalized services
- Increased competition from telcos and OTT operators

### The Solution: VCAS 5 for DVB

VCAS™ 5 for DVB provides a future-proof revenue security architecture as the pay-TV industry undergoes rapid transformation, giving video service

operators a competitive edge in multi-screen services. This newly engineered cardless security platform expands subscriber reach with instant key and entitlement distribution for a fully connected, always-on experience. As the pioneer of cardless broadcast security, Verimatrix offers deep expertise and proven processes of migrating one-way network operators to hybrid platforms.

### Key Benefits:

- Avoid black screens with instant set-top box key and entitlement provisioning
- Maintain freedom of choice for chipset and set-top vendors
- Easily scalable for more viewers and more channels
- Simulcrypt for evolving networks and protecting multiple streams

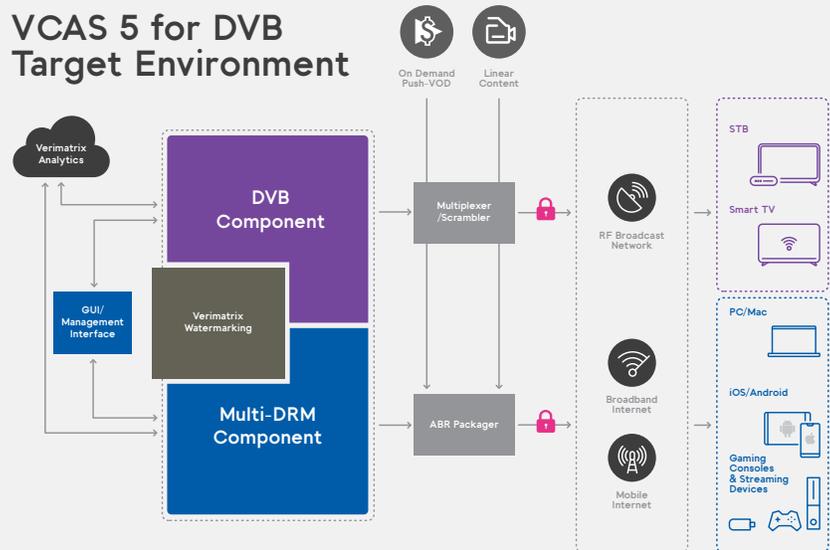
## Comprehensive Chipset Integration

Full integration with the industry's most comprehensive list of leading system-on-chip (SoC) vendors offers unparalleled flexibility. Enjoy a wide selection of robust client devices at different price points to satisfy any need and budget.

## Efficient Use of Bandwidth for Maximum Scalability

VCAS 5 for DVB sets a higher standard for scaling capabilities – even for the largest networks. Sophisticated addressing schemes allow operators to not only entitle packages to a large audience; it is even possible to provide highly individual a-la-carte program choices in very large populations, without compromises regarding network reliability and bandwidth efficiency. Networks can also be segmented so data is only delivered where it is really needed.

## VCAS 5 for DVB Target Environment



## Capabilities and Components

- **Operator Management Interface (OMI)**  
The core administrative component of VCAS, the OMI provides a single VCAS integration point for customer care, billing and middleware systems through a set of content, device, and entitlement management interfaces.
- **Broadcast Content Security Manager (BCSM)**  
BCSM enables advanced pay-TV business models within VCAS secured one-way networks. It provides operators with unlimited flexibility to define pay-TV products and services, manages authentication, key distribution and user control. BCSM includes an entitlement control message (ECM) generator, implementing DVB Simulcrypt with multiplexers/scramblers, which enables MPEG-compliant Multi-Program Transport Stream (MPTS) encryption. This is complemented by an optional DVB SI server.
- **Verimatrix EncryptionEngine**  
This high-performance device encapsulates all cryptographic operations to protect ciphers and control mechanisms, and the set of operator keys.

## Fully Integrated with Connected Security

Verimatrix's unified head-end integrates premium OTT delivery through HTTP Live Streaming (HLS) and MPEG-DASH protocols. This also enables advanced TV Everywhere delivery, allowing a viewer to enjoy all subscribed services on any authorized device, anywhere and anytime, while fully protected by VCAS.

## Request a Demo

[Request a demo](#) or visit [www.verimatrix.com](http://www.verimatrix.com) to learn more about how Verimatrix can enhance and secure your revenue while improving digital exchange between content providers, video service operators, and subscribers. Verimatrix is focused on enhancing the connected content distribution workflow by leveraging its award-winning VCAS security solutions and unmatched partner ecosystem to reduce the costs and complexities associated with legacy distribution workflows.

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