



# VO's CAS Solution

A Dual Card & Card-less Conditional Access System  
Based on Software and Hardware Security

SECURITY



viaccess-orca

In an increasingly connected world, adapting security needs to a rapidly shifting landscape of both casual and organized piracy is becoming an increasing challenge for content service providers. VO's dual-mode Conditional Access System gives them the best of all worlds and allows them to run a single system from a single vendor rather than forcing them to choose one technology or the other: the smartcard responds to the most demanding security concerns of content owners while the card-less option allows for flexible and dynamic deployment.

## Content Security Challenges

Ensuring ongoing content security has become a high priority for content service providers. To protect their revenues and business, they need to adopt advanced security solutions, which can effectively guard against control word sharing and other piracy threats.

### Protect

Secure premium content and firmly combat piracy

### Evolve

Constantly enrich your solution to counter the very latest piracy threats and adapt to your needs

### Accelerate

Reduce time-to-market by deploying a proven, pre-integrated, off-the-shelf solution capable of swapping from card-less to card-based CAS

### Diversify

Offer a wide variety of business models to best fit individual market circumstances and customer needs

### Monitor

Study the market to learn about emerging piracy trends and possible weaknesses in your system security

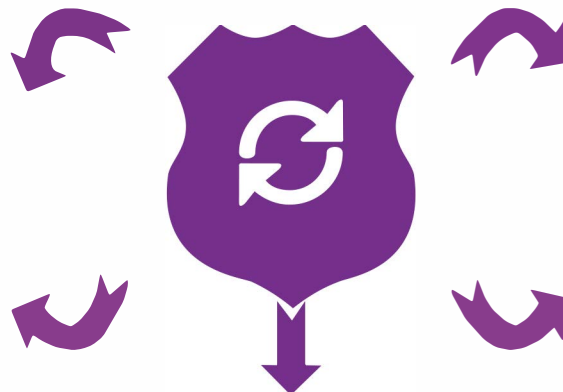
## Adapt to a Dynamic Reality

To ensure on-going protection, Viaccess-Orca employs a unique approach to content security. Beyond delivering the most advanced CAS solution, Viaccess-Orca creates a truly 360° security approach for content service providers.

### Viaccess-Orca 360° Security Services:

Best of breed technology and a new generation of smartcard every 18 to 24 months

Legal protection through investigation and prosecution of pirates



Open communication policy with partners & customers

Proactive anti-piracy operations and dedicated security services

Continuous monitoring of security risks

# Viaccess-Orca CAS Solution

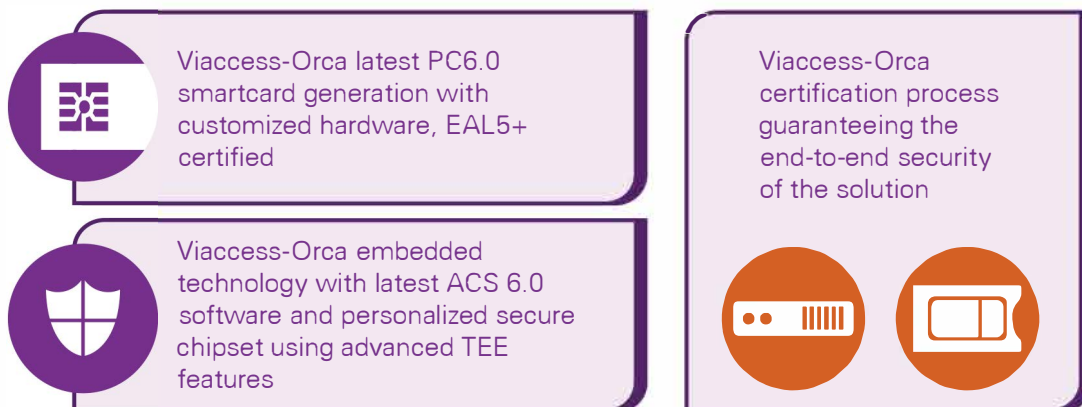
With over 20 years of experience in premium content protection, Viaccess-Orca enables content service providers to earn the trust of the most demanding content owners and gain access to desirable assets.

Now we take things one step further. By allowing the simultaneous use of both our card and card-less technologies on the same head-end and on the terminal side, the solution offers a unified Conditional Access System. Card-less security can be used for fast and cost-effective launch of service. This option allows operators to flexibly and dynamically manage their subscriber base, while allowing seamless transition to card based technologies in order to expand services and security. The smartcard option benefits from the latest PC6.0 generation of smartcards released earlier this year.

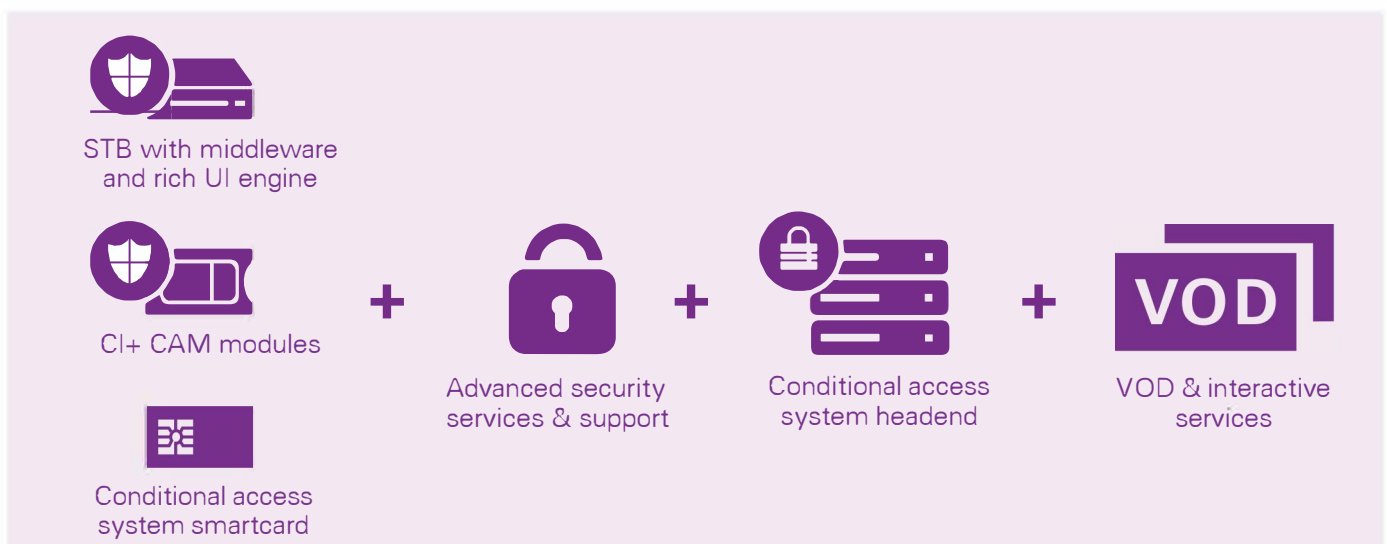
We introduce Viaccess-Orca Secure Environment (VSE), to increase the robustness of the global solution. VSE takes full advantage of the latest secure chipset technologies in terms of Trusted Execution Environment (TEE). After our pioneering work on the launch of the customized hardware PC6.0, Viaccess-Orca has developed proprietary code embedded in the chipset to improve the security of its Conditional Access System.

VO's CAS solution relies on DVB Common Scrambling Algorithm (CSA) and AES encryption standards.

## CAS Solution: Dual Technology



Our CAS solution is part of a pre-integrated, security-conscious ecosystem that ensures short integration time and cost-effective launch. To cover the needs for all markets, the ecosystem includes CI+ CAM modules, a zapper and an initial middle range set-top-box. A high-end STB with interactive middleware is expected soon after launch.



# CAS Solution Highlights



## **Fast Time to Market**

Operators can deploy Pay-TV services quickly and cost-effectively



## **Simplified Logistics**

Eliminate the need to buy, provision and manage smartcards, and drastically reduce customer care costs and complexities



## **Flexible Business Models**

VO's CAS Solution supports all Pay-TV business models



## **Advanced Security**

Ensure the highest software security standards, including obfuscation, whilst leveraging secure hardware chipset mechanisms. VO's CAS Solution offers a state-of-the-art EAL5+ certified smartcard chip



## **Seamless Updates**

Ensure security updates are performed automatically over the air (OTA)



## **Security Upgrades**

Viaccess-Orca's proactive protection measures include software upgrades and new generation smartcards on a regular basis



## **Enhanced Security Services**

VO's CAS solution can be offered as a service, enabling rights management by Viaccess-Orca



## **Proactive Anti-Piracy**

Includes various anti-piracy operations and dedicated security services, such as fighting against card and control word sharing schemes



## **Complete Ecosystem**

Choose your components from a pre-integrated, field-proven ecosystem of secure STB and CI+ CAM modules

