

SECURE CONTENT DISTRIBUTION

The Inside Secure Conditional Access System is a unique and innovative approach to offer data protection and key management system solutions to our customers. This system has a modular design where in various components can be utilized to upgrade and enhance existing key generation, data distribution, content protection, Conditional Access System (CAS) and/or Digital Rights Management (DRM) systems.

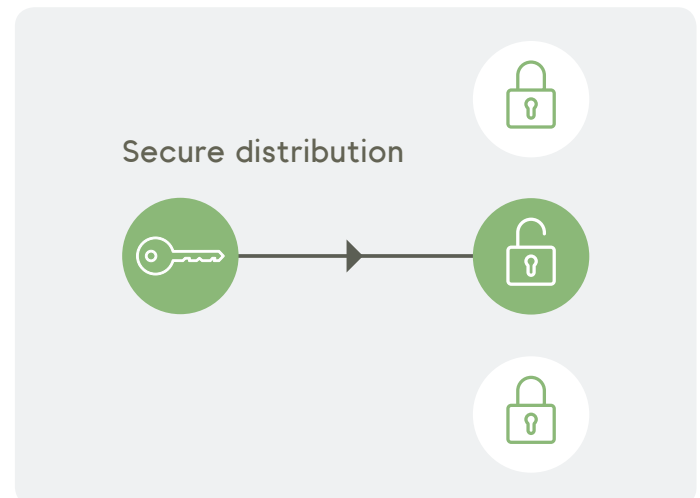
It provides a hardware root of trust utilizing the secrets programmed into the chipset and module via the Inside Secure Provisioning and Key Management System. Using this approach, system keys in the SoC are never exported to software as keys are only processed inside the SoC / module secure key store. This provides the same, or better, protection than a hardened security module such as found in smart card based systems. It is deployed as a cardless solution employing only the SoC or module as appropriate. It is designed for all types of key generation, data distribution, and content protection architectures such as CDN, Satellite, Cable, Telco, IPTV, and Digital Terrestrial distribution.

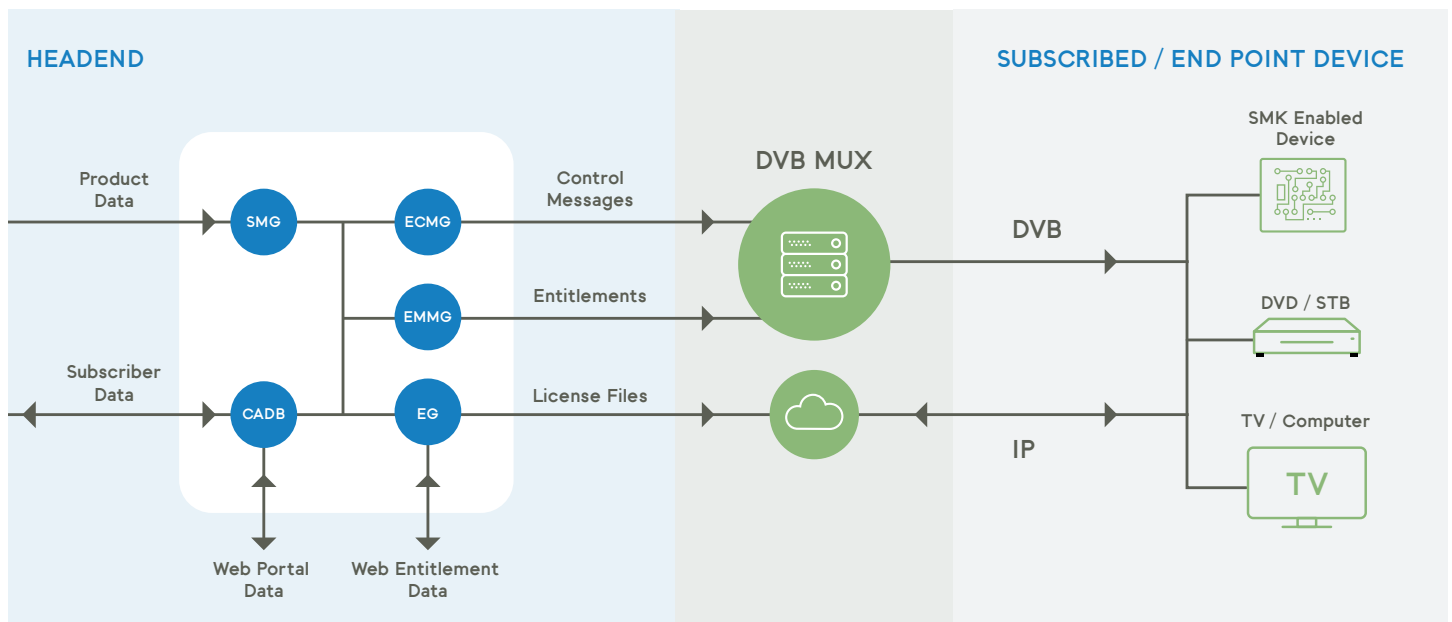
The basis for our security is hardware enforced key management utilizing secure silicon

The fully DVB compliant CAS reference system for PayTV offers hardware enforced key handling for Entitlement and Control Word processing. It leverages secrets programmed into the System on Chip (SoC) at time of manufacturing. SoC secrets are embedded by Inside Secure Provisioning and Key Management Platform. Our BlackBoxes are on the manufacturing lines of all top-tier SoC and module providers thus allowing a broad range of choices when selecting components.

System Overview

- Modular solutions for new and existing content distribution systems
- Hardware enforced security utilizing secure silicon
- Offered as a Reference System for either Data Distribution or DVB PayTV systems
- For data distribution, the system provides full key generation and key distribution for sending sensitive files and data across any network
- For DVB PayTV, it offers hardware security for key handling in Entitlement and Control Word processing
- Reviewed and vetted by three studio approved security auditors
- Suitable for smart cardless system deployments





DVB PayTV Headend and STB components may be licensed separately. These modules can be integrated to form complete systems.

Elements of the modular Headend architecture:

- Conditional Access Database (CADB) secure data management application
- Entitlement Management Message Generator (EMMG) to entitle content
- Entitlement Control Message Generator (ECMG) to secure content distribution
- Secure GateKeeper™ (SMG™) key generation security server
- Entitlement Generator (EG) to enable Internet based content

Elements of the STB security architecture:

- SypherMedia Kernel™ (SMK™) security client
- SoC with enabled hardware security features and BlackBox programming

Features & Benefits

- Hardware security support from every major SoC vendor
- Scalable and Modular system architecture
- High-reliability system, redundant server cluster configuration
- Easy integration with Billing, SMS, and Customer Care systems
- DVB-T/T2, DVB-S/S2, DVB-C, and IPTV systems support
- Extremely flexible product and package management
- Subscription management and entitlement enforcement on OEM devices
- Fully DVB and Simulcrypt compliant

For further details on all of Inside's security solutions, visit www.insidesecond.com

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