Tolka
TCAS Conditional Access System

TCAS conditional access system offers pay-TV businesses high security protection for real time and offline program and content. With TCAS, broadcasters and TV operators are provided the ability to expand their services, offer more convenient payment methods, and given greater control over content ownership. Broadcasters and TV operators can easily integrate the TCAS into existing infrastructure to service IP, terrestrial, cable, satellite, mobile, and hybrid networks without interrupting subscriber services while protecting their digital collection.

TCAS for Apps is a software application and can be configured to operate as a secure bridge to provide content security between the STB and smart devices which are allowed access within a home network environment.

TCAS regularly updates and evolves to stay up to date against evolving security threats. TCAS offers broadcasters and TV operators the highest level of control over their content by integrating with Tolka's watermarking technology, guaranteeing content security even during viewing of pre-recorded or offline programs. TCAS can operate in conjunction with multi-room and multi-screen environments, sending encrypted content to multiple devices within a home network and deliver the content to multiple network services. For mobile or tablet devices, TCAS acts through a central subscription in the home to monitor content viewing from multiple devices.

System Benefits

- Provides operators control over the system.
- Integrates with Tolka's Watermarking content tracking solution for unparalleled content protection.
- Integrates with Tolka's solution and/or third party CAS to allow protected redistribution of content within a home network environment.

System Features

- Code obfuscation and Code tamper-proof.
- Symmetrical/Asymmetric encryption algorithm.
- Embedded Encryption Server.
- Software-based smartcard.
- SOC pairing with smartcard.
- Mac address and STB serial number pairing with smartcard.
- Secure authorization for multiple remote (wireless) devices within a home.

System Functions

- Provides operators control over the system.
- Supports DVB Simulcrypt, IPIV(Multicast).
- Supports Multiroom/Multiscreen.
- Support local PVR and extended PVR.
- Scrambling by channel, product and IPPV.
- Trigger & Message Text.
- Integrates with Tolka's Watermarking content tracking solution.
- ECM &EMM generator.
- TCAS Server Scalable.
- Support TCAS server redundancy.

TCAS for Apps Security Features

- SSL pinning
- Certificate checks
- Tamper detection
- Root detection
- Debugger and emulator checks

Categories

- TCAS for DVB
- TCAS for IPTV
- TCAS for Apps

TCAS System Overview

TCAS Head-End

Broadcast Content → TCAS Encryption

Subscriber Management → TCAS Operator Management Server

TCAS Key Manafement

TCAS Playout Devices

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