

CTI_CAS



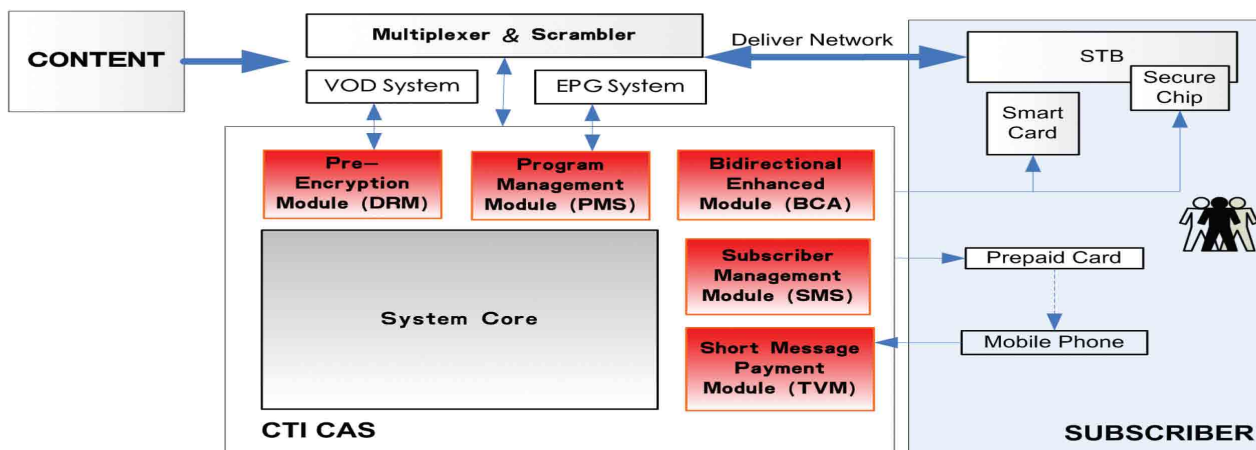
High-Security Conditional Access System

CTI CAS is the world class conditional access system (CAS) for Pay-TV network which has unique encryption algorithm, high security decoder chipset solution, and supports terminals of smart card or chip on board.

CTI CAS has scalable system structure which has the basic System Core module, and optional modules such as SMS, PMS, DRM, TVM and BCA.

During more than ten years, CTI CAS has been widely used in more than 260 operators in 75 countries without broken record.

Solution



High security of the system

- Multi-layers keys with encrypting circulation system
- Common encryption algorithm (3DES, AES, IDEA) and Communicate encryption algorithm (CES)
- Key words updating randomly (5~10 seconds), key updating controlled
- Upgrading the batch number of cards by air; subscribers can not watch scrambled programs if the lot number in the user card is lower than that of the current system.
- Broadcasting transmission orders such as pausing authorization, deleting pirate cards and selected number of smart cards etc.
- Valid period control of authorization Information to prevent subscribers' watching from overdue authorization
- Reasonable authorization system and safety strategy to against hacker attacks and protect the safety for operation.
- No broken record in more than 260 cases worldwide

The highest security technology of smart card and chipset

- Security Certified level is EAL 5+
- Active shield and memory encryption to antagonize physical attack
- Logical scrambling and anomalous electric current to antagonize side channel attack
- Chipset Operating System (Chip OS) is Developed by Communicate itself to ensure security
- Secure chipset can be on board or inside the smart card

High Security Decoder Chipset Solution

- In order to meet the higher level security requirement of pay-TV operators for valuable contents, such as HD or PVR or interactive programs, Communicate introduces a High-Security Decoder Chipset Solution for client devices that is against control word redistribution (CWR) and device software tempering.
- Each secure decoder chipset has unique chip ID. The smart card and secure decoder chipset will be paired by chip ID and keys, and the secure chipset on board can also be paired with the secure decoder chipset.
- CTI CAS can establish secure channel between COS and the decode chipset, in which the CW is uniquely encrypted. The CW is decrypted only inside the decode chipset that prevents the hacker get it outside illegally. Meanwhile, only the legal software could be received by authorized devices. Operators can manage the migration of unauthorized devices in the network.

Soft Card CAS

Soft card CAS is a cost-effective solution for operators who has large amount of subscribers. To ensure the security, Communicate SC CAS adapts high-security chip. We provide the similar level of insurance with reduced cost.