GkWare CI Plus

ABOUT CI PLUS

CI Plus is an extension to the classic EN 50 221 standard, it

- adds an extra layer of security to the communication between the Host (STB, IDTV or Headend) and the CI Module
- secures the content on the transport stream interface
- enforces copy protection regulation compliance
- adds support for graphical MHEG-5 menus and applications

CI Plus compatible hosts are also compatible to standard DVB-CI modules. In compatible hosts, the MHEG-5 MMIs will replace the limited EN 50 221 Highlevel MMIs.

OUR SOLUTION

The GkWare CI Plus software is available as add-on to our popular CI Stack. Customers that wish to perform an upgrade just have to include the new source code and very few new APIs in their projects. We also give you the choice for MHEG-5. You can, but you do not have to choose our MHEG-5 engine.

FEATURES

- Implements the following CI+ resources:
  - Content Control
  - CAM Upgrade
  - CA PVR
  - Host Language and Country
- Support for different Types of licensee specifications:
  - CI+ Trust Authority "Test"
  - CI+ Trust Authority "Production"
  - GkWare "Test"
- X.509 Certificate validation
- support for hardware-accelerated or -secured crypto-operations

REQUIREMENTS

- CI+ Compatible hardware design (AES/DES TS descrambling support, HDCP, Macrovision)
- ANSI-C Compiler

SUPPORTED PLATFORMS
(if your platform is not listed yet, please ask us !)

- STi 71xx series: 7101,7109,7105 Operating system: STLinux and OS21
- NXP/Trident: CX2450x
- ALI

CERTIFICATION

The stack already passed the official CI+ certification on a customer hardware in September 2009. We are also in close contact with several module manufacturers and other adopters of the CI+ specification for early interoperability testing.

TEST MATERIAL

We also created a lot of test material which can be licensed/purchased separately from our software stack. Material available for purchasing includes:

- Transport stream (de-)scrambling software for Windows (implementing the AES & DES TS scrambling algorithms)
- Reference Streams scrambled with fixed AES and/or DES keys
- CI Modules implementing parts of the CI Plus Specification, based on our BISS CI Module

We are also operating a custom X.509 infrastructure that allows companies without a valid license from the CI Plus Trust Authority to start their development. Certificates and the documentation for this replacement "Licensee specification" are available on request.

More information about our CI+ products is available at:
http://www.streamguru.de/ci-plus/