# CryptoMedia Security Platform

Designed to protect high-value content, including 4K UHD and High Dynamic Range (HDR) programming, CryptoMedia Security Platform enables consumers to securely and easily store, copy and share premium content across multiple devices.

## Superior Security

- Provides robust hardware root-of-trust for highest level of security
- Proven expertise and experience in secure key issuance and management
- Supports VIDITY and MovieLabs ECP security requirements

## Improved Profitability

- Improves time-to-market with a comprehensive suite of ready-to-use components
- Reduces development costs with integrated solutions
- Simplifies certification with pre-validated IP

## Overview

The CryptoMedia Security Platform is a complete content storage solution and includes a hardware root-of-trust, player software and trusted key provisioning services to meet the growing demand for high-quality digital movie watching experiences of 4K Ultra-high Definition (UHD) and High Dynamic Range (HDR) content.

With a comprehensive suite of components for the entire content protection ecosystem, the platform complies with the latest industry security requirements and enables VIDITY-compliant chipset makers, as well as storage and player device manufacturers to bring their products to market faster and easier.

**Key Issuance Center**



**Content protection ecosystem for VIDITY**
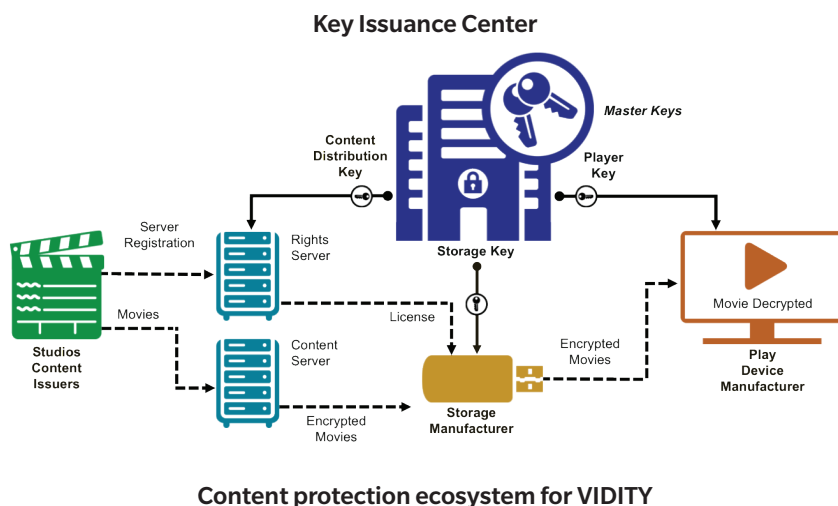
The CryptoMedia security platform includes:
- A **Key Derivation Core** that provides a complete and tsecure hardware IP solution for handling symmetric keys in VIDITY-compliant player devices

- A **Player Agent** that is available standalone or integrated with the Key Derivation Core for secure acquisition and playback of VIDITY content

- A **Key Issuance Center** (KIC) that provides keys to player and storage device manufacturers, as well as content providers in the VIDITY ecosystem

- **DPA Resistant Solutions**, including cryptographic hardware cores and software libraries, that provide protection against side channel attacks

## Features

- Supports VIDITY and MovieLabs security requirements for 4K UHD and HDR content
- Enables secure storage of premium content with integrated hardware and software solution
- Secure Player Software Agent supports Android and Embedded Linux platforms for VIDITY-compliant devices
- Meets the highest level of security requirements for key derivation functions

## Deliverables

**Key Derivation Core:**
- Encrypted Verilog RTL

Full documentation:
- Hardware Interface Specification
- Software Interface Specification
- Manufacturing Test and Personalization Specification

Integration deliverables:
- SDC constraint file for ASIC synthesis
- Timing check scripts
- Full suite of test vectors
- ANSI C reference driver source code

**Player Software Agent:**
- Complete SCSA-compliant solution for Android and Embedded Linux platform

Full documentation:
- Software Design Kit (SDK) Specification

Integration deliverables:
- Includes pre-compiled component libraries for normal world and secure world (TEE)
- Includes reference application
- Optionally supports CRD hardware and software solutions

**Key Issuance Center:**
- Destributes Content Distribution Keys to Content Issuers
- Distributes Player Keys to player device makers
- Distributes Storage Keys to storage device makers

**DPA Resistant Solutions:**
- Configurable DPA Resistant HW Core
- DPA Resistant Software Crypto Library

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