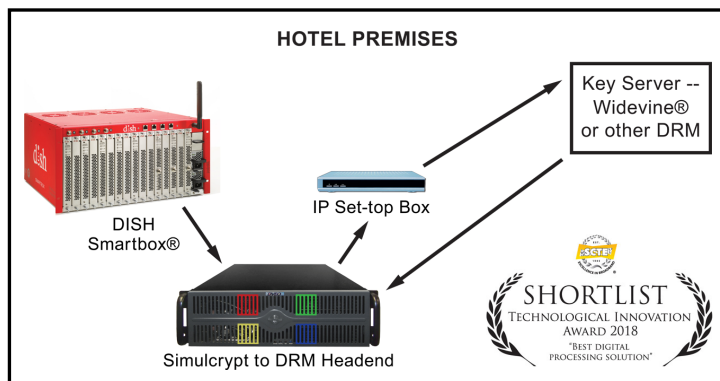


Simulcrypt to DRM Headend™: Hotel

This is a compact, affordable, reliable, head end unit designed to securely deliver the comprehensive package of content arriving via a DISH Smartbox® with Simulcrypt CAS and securely convert it to Google "royalty free" Widevine® DRM. This offering makes DISH TV a very competitive source of secure content for hotels, schools, hospitals, cruise ships, etc. The Smartbox® and the system have to reside on premises since the simulcrypt content is delivered between them via AES 128. The unit can also accommodate clear cable or over the air ATSC tuner cards for delivery of free to air content.



Features

- IPTV solution for Smartbox®: Decrypts simulcrypted DISH streams and re-encrypts with IPTV industry standard "royalty-free" Widevine® DRM
- Output covers the universe of set-top, mobile, or other IP connected devices, including multicast over private network
- Extendable: Add non Smartbox® streams such as hotel information, school videos, or IPTV offerings
- Supports IP delivered Widevine® key services from BuyDRM™ and others
- Able to re-encrypt 100+ channels simultaneously
- Dedicated Linux® based appliance that is highly secure with no access to OS or Root
- Unit will log and report all efforts to tamper with it
- Auditable logs are available with adjustable duration
- Application resides on a tamper proof SSD
- Some channels can be unencrypted
- Redundant power supplies
- Provides uncompromised level of security at a reasonable price

Overview

DRM differs from CAS in that it is designed for the OTT and IPTV market and offers an ever changing key from a "key server". Unlike CAS which relies on a fixed solution, DRM relies on modified AES 128 with continuous delivery of keys. When coupled to a DVEO DRM headed processor it supports either or all of Apple FairPlay™, Google "Widevine®", or Microsoft PlayReady™ DRMs.

Simulcrypt is a software based conditional access system and offers great end-to-end protection for content creators and distributors. It is software based and thus avoids security vulnerabilities of traditional card based systems. The flexibility of software CAS makes it difficult for "hackers" to keep up with the pace of changes. One of its advantages is that it relies on open "DVB" standards and provides interfaces to companies such as DVEO to integrate it with third party DRM systems.

DISH TV and others offer a wide variety of licensed and secured top grade content for distribution via satellite for use in hotel rooms, school dorms, hospitals, apartment buildings, etc. Per its agreements DISH TV utilizes Simulcrypt to securely and inexpensively deliver its content to its customers via satellite.

Traditionally hospitality customers relied on Pro:Idiom™ and other proprietary security platforms to ensure end to end security required by major studios. Recently Google eliminated fees for Widevine®, which happens to be certified by the entertainment industry. This presents a great value proposition to the hospitality industry.



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Applications & Markets

- Hotels, schools, cruise ships, cable head ends
- Hospitality

BuyDRM™

BuyDRM™ is a DRM key provider and provides key services at a reasonable rate for popular DRM's like Widevine® and PlayReady®.

Widevine

Widevine® DRM provides advanced subscriber and content management infrastructure to pay TV operators who are constantly juggling rights or entitlements for subscribers and need a reporting system. It allows OTT and IPTV operators a simple easy to use interface for subscribers and clients and their entitlements. It allows operators an easy to use "Rights Manager" that allows them to restrict content to certain devices. It comes with a sophisticated set of "rules" that are set up at the beginning of their relationship. It also provides "content use reporting" with auditable trails in case issues arise.

Features

- Grants rights to each customer
- Maps entitlements and licenses for the devices the customer is intending to use
- Built into each Google Android™ and Apple browser

Ordering Information

Simulcrypt to DRM Headend: Hotel

Specifications

IP Inputs

IP	Two each 10 Gigabit with Simulcrypt
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IP Outputs

IP	Two each 10 Gigabit with Widevine® DRM
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Administration

Access:	Web interface, SSH (Secure command line interface)
SNMP:	Monitoring and alerts
Scheduling:	On, Off support for timeslots

CPU & Operating System

CPU:	One or two Intel® Xeon® 16 Cores
OS:	DVEO embedded Linux® on SSD

Physical & Power

Size – 3 RU high (W x H x D):	19 x 5.25 x 25.2 inches (48.26 x 13.34 x 64 cm)
Power Supply:	3U 760W – Redundant
Temperature Range:	Operating: 0°C ~ +50°C on Full Load Storage & Shipping: -20°C ~ +70°C
Non-operating Humidity:	5% to 95% non-condensing
Weight:	39 lbs. (17.69 kg)
Conformities:	UL, BSMI, CSA, FCC, CE, RoHS      

Security

Ports security scanned to military requirements prior to shipment	
Firewall equipped:	Yes