



Conax IPTV solutions

Conditional Access (CA) System for DVB over IP

The IPTV revolution

IPTV is one of the key trends in the TV industry, with the introduction of IPTV leading to a revolutionary new approach to the distribution of TV services. Employing broadband IP networks as transmission carriers opens up the possibility for operators to use the same network infrastructure for all types of services; high speed Internet access, telephony, Video On Demand (VOD) and television content. Procuring the best security solution for distributing television and video is a key element for the success of commercial IPTV.

Securing revenue streams

As a leading conditional access provider, Conax aims to best secure its customers' revenue streams. Conax focuses on ensuring the security necessary to prevent unauthorized consumption and distribution of the premium content distributed by the TV operators' one-way broadcast operations.

One CA system - support for both IP and traditional DVB

Providing broadcast TV within an IP environment is the most cost-effective way to distribute content.

Conax IPTV solutions provide:

- Capability to reuse DVB signals
- Power to encapsulate and distribute signals via IP networks

Operators can employ broadcast TV to build a platform of customers who will use the more advanced services offered over IP that are critical for developing a healthy IPTV operation. Conax IPTV solutions provide customers with the tools they need for a world class CA solution.



Conax IPTV solutions

DVB over IP

IP is the most advanced medium, and probably the best solution available for delivering point-to-point services. IPTV is a business opportunity for operators who are controlling networks ready for IP traffic and seamless distribution of broadcast TV.

Conax CAS - open, horizontal, proven and cost effective:

- Conax CAS7 is perfectly suited for broadcast IPTV. Most IPTV operators provide IPTV in broadcast mode where DVB over IP is commonly used
- Conax CAS7 supports operations where "on-demand TV" is delivered point-to-point over IP (typically VOD)
- Conax integrates on-demand services with the existing Conax CA for the level of security necessary for delivery of broadcast TV

Why operators choose DVB scrambling and DVB over IP for IP Television?

- Broadcasters' confidence in the DVB scrambling system simplifies content negotiations
- Single point of content processing
- Employing the same CA system for both DVB and IP infrastructures
- DVB-based STBs are cost effective

Hybrid TV

Hybrid TV in this context means DVB broadcasting coexisting with IP on-demand services and IP for VOD. With Hybrid TV including Conax CA you will:

- Profit on already having the broadcast level of security for on-demand services in place - no need to introduce a second security scheme
- Profit on easy integration of smart card technology for VOD services

The IP advantage

The advantage of using an IP network is utilizing the opportunity that IP offers for improving on-demand services. Today, most on-demand services still run over IP. Hybrid STBs will be made available in many markets

where operators can offer on-demand services over IP, regardless of how broadcast TV is provided.

Consolidating networks to broadcast mode for profitability

As broadcast mode becomes essential in all operations for profitability, operators choose a security solution ready to support broadcast distribution. The best and most cost-effective solution is to integrate video-on-demand services, games and other advanced services with the existing security regime (hardware security token; often smart cards). Integration adds only marginal costs to a profitable business case for on-demand services.

Conax IPTV solutions

Conax CAS7 is designed for use in IPTV operations where MPEG2 Transport Streams (MPEG2-TS) are the main carrier for transmission of the audio/video signal. The MPEG2-TS can carry MPEG2/MPEG4/H.264/AVC compression and encoding in both Standard Format and High Definition Format.

Conax CAS7 for IPTV

Conax CAS7 for IPTV works on MPEG-TS layer both for the scrambling/encryption of the content and the Conax CAS7 conditional access protocol (ECM and EMMs), based on proven, standardized technology deployed world-wide.

A number of open standardized third-party IP streamers and DVB scramblers are available supporting DVB Simulcrypt. This prevents the Digital TV operator from being locked in by a DRM vendor's proprietary ciphers and encryption format. Using a low cost DVB chipset for descrambling and decoding substantially reduces the price of IPTV STBs.

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Head office

Conax AS
Fred Olsensgate 6
NO-0152 Oslo
Norway
Tel: +47 22 40 52 00
Fax: +47 22 41 70 39
info@conax.com

Conax India

Conax Access Systems
Private Limited,
B - 206, Millenium Plaza,
Sector 27, Sushant Lok-I,
Gurgaon-122 002 Haryana
India
Tel: +91 124 404 53 07
Fax: +91 124 404 53 08

Conax China

Conax Beijing Rep. Office
1102, Guangming Building,
Liangmaqiao Road
Chaoyang District
Bijing 100016
China
Tel: +86 10 6465 6490
Fax: +86 10 6465 6483

Conax Latin America

Conax AS
Rua Fidêncio Ramos, 101 cj-81
Vila Olímpia
São Paulo - SP - CEP: 04551-010
Brazil
Tel: +55 11 3846-1726
Fax: +55 11 3044-1923

Conax South Korea

Conax AS
#704 Taesung Bldg. 265-6,
Seohyung-dong, Bundang-gu,
Seongnam-si, Gyeonggi-do
Korea 463-824
Tel: +82-31-781-6684/5
Fax: +82-31-781-6604

Conax Canada

Conax AS
Toronto
Canada
Tel: +1 647 404 9920

Conax Singapore

Conax AS Singapore Branch
Level 28 Gateway East,
Suite 32 152 Beach Road
Singapore 189721
Singapore
Tel: +65 68279761
Fax: +65 62952567

Conax USA

Conax USA, Inc.
31102 Via Cristal,
San Juan Capistrano,
CA 92675
USA
Tel: +1 (949)-690-4880

Conax Germany

Conax GmbH
Charlottenstrasse 68
10117 Berlin
Germany
Tel: +49 3020 188 332
Fax: +49 3020 188 333

Conax Russia

Conax AS
Sadovaya-Kudrinskaya str. 32, build. 1
123001 Moscow
Russia
Tel: +7 495 662 70 82
Fax: +7 495 662 70 84



www.conax.com