

PISYS CONTROL SYSTEM

- ROBUST, SECURE CONTENT PROTECTION FOR PAY TV
- NUMEROUS BUSINESS MODELS TO INCREASE ARPU
- EASY-TO-USE SOLUTION FOR FAST DEPLOYMENTS
- OVER-THE-AIR SECURITY CLIENT UPDATE FOR RENEWABILITY

THE CONVERGENT SOLUTION FOR DVB, IP AND MOBILE CONTENT PROTECTION

The Irdeto PIsys Control System is a versatile, modular and scalable conditional access system (CAS) that protects content conveyed over DVB, IP and mobile networks. Used in combination with an Irdeto-approved client device and security client such as a set-top box (STB) and an Irdeto security client such as a smart card or a software-based client, PIsys ensures that operators' digital media is secured with the best encryption technology.

PIsys offers a range of standard features and optional modules to enable revenue- and royalty-generating services, including:

- Subscription: up to 65,000 packages
- Ordered pay per view (PPV): multiple ordering methods
- Impulse PPV: with or without feedback, pre- or post-paid
- Pre-paid pay TV: scratch card, cash payment
- Personal (or digital) video recorder (PVR): stored content encryption, on/off control for subscription PVR, digital rights management (DRM) rules for copied content
- Auto-expiry card: variable packages and validity periods
- Video on demand (VOD), push VOD: subscription or PPV

Compliant with all industry standards, PIsys protects operators' investments and allows them maximum choice in business growth.



KEY FEATURES

Best-In-Class Security

PIsys provides a wide range of advanced security features, and carries out updates to smart cards or software-based clients over the air. This design enables renewability of security clients without requiring expensive card swaps.

A Variety of Business Models

PIsys has a large number of optional modules to support advanced functionality to raise ARPU, such as PVR, VOD and push VOD, or to support new business models such as pre-paid pay TV.

Compliance with Industry Standards

Irdeto leverages industry standard technology for scalability and redundancy, and complies with DVB standards such as DVB Simulcrypt.

Easy-To-Use Interface and System Design

With the intuitive and user-friendly interface of PIsys, operators can configure, maintain and monitor the control system easily and quickly.

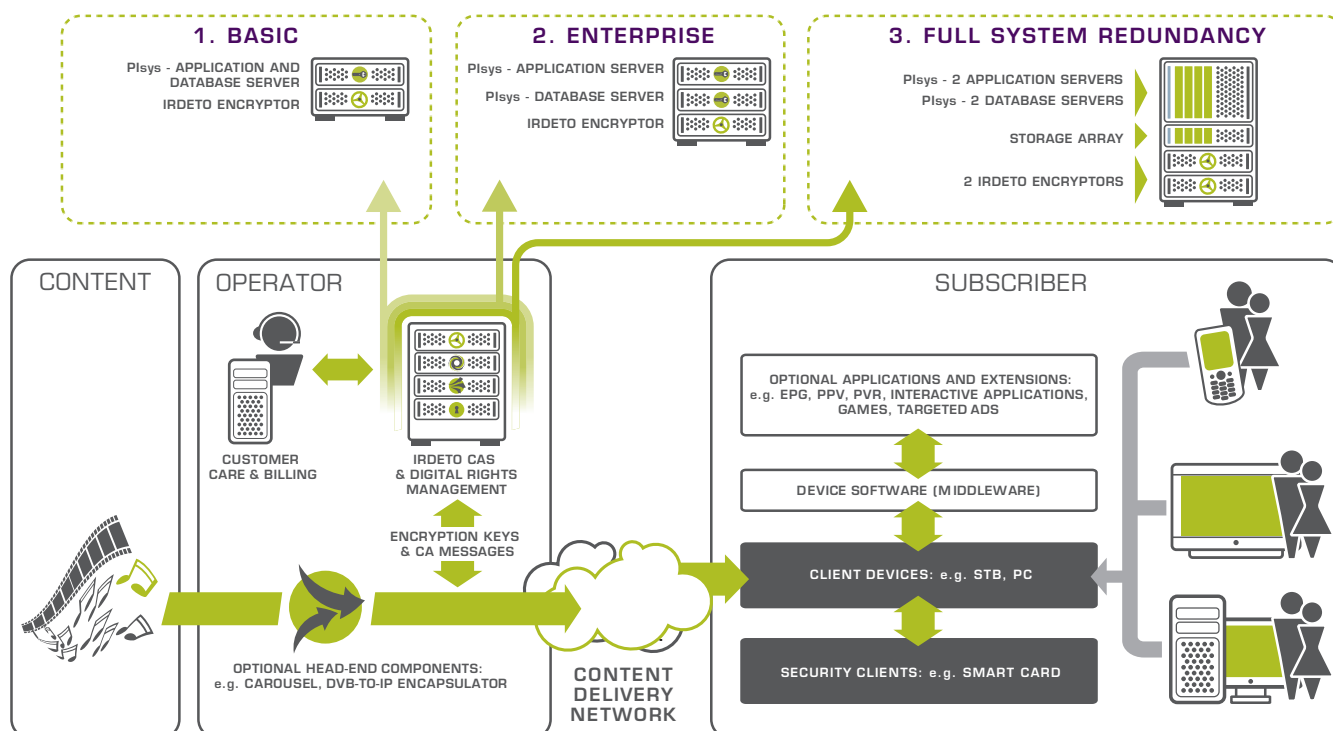
DEPLOYMENT OPTIONS

Irdeto Plsys can be deployed in different configurations based on operators' scalability and redundancy needs. Options ranging from a simple, cost-effective model to a fully redundant, highly scalable configuration are available.

	1 Basic	2 Enterprise	3 Full System Redundancy
Size and redundancy	Medium-sized network, no redundancy	Large network, no redundancy	Large network, full redundancy
Scalability ¹	500,000 smart cards	20 million smart cards	20 million smart cards
CAS hardware ²	One (1) IBM System x3550 server One (1) Irdeto Encrytors	Two (2) IBM System X3550 servers One (1) Irdeto Encrytors	Four (4) IBM servers or server blades, similarly configured as the IBM System X3550 One (1) IBM System Storage DS3200 Two (2) Irdeto Encrytors
CAS software	One IBM server for Plsys application and database: - Microsoft Windows Server 2003 R2 Standard Edition - Microsoft SQL Server 2005 Standard Edition Service Pack 1	One IBM server for Plsys application: - Microsoft Windows Server 2003 R2 Standard Edition One IBM server for Plsys database: - Microsoft Windows 2003 Server R2 Enterprise Edition - Microsoft SQL Server 2005 Standard Edition Service Pack 1	Two IBM servers for Plsys application: - Microsoft Windows Server 2003 R2 Standard Edition Two IBM servers for Plsys database: - Microsoft Windows 2003 Server R2 Enterprise Edition - Microsoft SQL Server 2005 Standard Edition Service Pack 1

¹ This assumes one active sector per smart card.

² Refer to IBM and Irdeto Encrytor datasheets for product descriptions. Contact Irdeto for configuration details such as CPU speed, memory size and RAID setup.



FUNCTIONALITIES AND SPECIFICATIONS

- Compliance with all industry standards, such as DVB Simulcrypt (version 1 and 2)
- High scalability, up to 20 million smart cards
- Support for STB Secure Loader
- DVB Service Information (DVB SI) generation for applications such as electronic program guide (EPG)
- Easy-to-use APIs to subscriber management systems
- Variants for DVB, IPTV and mobile networks