Product Datasheet

Media Protection

irdeto

Conditional Access Training

- TAILORED PROGRAMS TO MEET UNIQUE NEEDS
- COMPREHENSIVE COVERAGE OF TOPICS, WITH VALUABLE HANDS-ON LAB EXPERIENCE
- QUALIFIED TRAINERS WITH EXPERIENCE IN CONFIGURATION AND TROUBLESHOOTING
- FLEXIBLE ON-SITE AND OFF-SITE TRAINING OPTIONS

The foundation of a successful pay-TV operation lies in having a best-in-class conditional access system (CAS) to protect the operator's content and having a well-trained team to operate and manage it. To help operators build this foundation and continue to expand their knowledge, Irdeto offers CAS training that can be tailored to meet the unique needs of the operator. Working with the operator, Irdeto assess the operator's business models, training objectives and trainee background in order to design the right combination of modules and suitable schedule.

KEY BENEFITS

PROVEN EXPERIENCE IN DVB, IP AND MOBILE TV

Irdeto has extensive experience in training operators' staff to manage and maximize all the value of the conditional access system (CAS). Over the years, Irdeto has developed a comprehensive training program to fit the operator's needs. The courses are suitable for a wide range of functions; from technical experts and system administrators, through to non-technical staff or high-level managers. The 5-day Foundation program provides a complete overview of all key topics. And depending on the experience of the attendees the depth of what is covered during this time varies; from the core topics to more detailed analysis.

COMBINING THEORY AND HANDS-ON INTERACTION

Irdeto offers standard CAS training that has been refined over time to ensure that it meets most needs of the operator. The length and agenda of the modules are fixed and can accommodate different audiences within an operator's organization. The maximum number is 5 students for a small classroom setting. Each course includes a mix of class-room theory and hands-on LAB time. Each training program is accompanied by a quiz to ensure that the trainee has fully understood the theory. This combination of learning and putting it into practice ensures that the trainees have the knowledge and confidence to manage the CAS in a live environment. At the end of every course, feedback is collected to ensure that the training objectives have been met to the operator's satisfaction.

ONLINE TRAINING MODULES TO ACCELERATE LEARNING

To ensure maximum preparation and understanding, Irdeto has developed a series of on-line training modules. Trainees have access to these modules before the classroom training program to allow them to prepare and get insight into theoretical elements of the course. With these on-line modules, trainees can use them as often as they would like; when and where suits them best. These on-line modules are continually enhanced to follow the latest developments in the Irdeto CAS.

FLEXIBLE ON-SITE AND OFF-SITE TRAINING OPTIONS

Based on Irdeto's experience, it is best for the training to take place on-site, at the operator's premise. The added advantage is that the hands-on LAB experience can take place in the operator's own facility. This ensures that the trainees are able to implement their learning in the actual LAB setup, using their own head end and existing structure. If preferred the courses can be conducted at the Irdeto training facility; giving the operator complete flexibility to suit their specific needs.

TAILORED TRAINING TO MEET UNIQUE NEEDS

As every organization is different, effective training can require a tailored approach. In close consultation with the operator the operational situation, training requirements, knowledge gap are assessed. This enables Irdeto to determine the most suitable training method, course content and program length. Using the standard courses as a basis, a tailored training is created to meet the operator's specific business model and CA configuration.

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INTRODUCTION PROGRAM

Audience: Management, all CA related staff, CA Operators
Topics:

- Broadcasting Terminology & DVB Standards
- Conditional Access Basics (ECM and EMM generation)
- CAS components

Hands on: System demo & basic scrambling modes
Duration: one day

FOUNDATION PROGRAM

Audience: CA Operators and Administrators
Topics, same as Introduction program plus:

- DVB transport stream generation & multiplexing
- ECM and EMM details
- Irdeto key hierarchy & cycling
- Refresh management
- Scrambling modes
- Graphical User Interface (GUI) explanations
- Integration with Subscriber Management System
- STB architecture
- Cloaked CA or Smart Card Clients
- Security and Features
- Operations Administrations and Maintenance

Hands on: System demo, basic scrambling modes, GUI's, Control center, System stability, Configuration builder, Command client
Duration: five days

CLOAKED CA MODULE

Audience: CA Operators
Topics covered:

- CCA product positioning
- CCA Terms & Definitions
- System architecture, differences in CA versions
- CCA Components
- Specifics for CCA environment
- KMS files & Configuration
- Supported features (including roadmap)

Hands on: demo,
Duration: one day

SMART CARD MODULE

Audience: CA Operators
Topics covered:

- Smart Card basics, history & variants
- Managing Smart Cards
- Smart Card files & Configuration
- FlexiFlash and updating Smart Cards
- Reporting, refresh and Synchronization

Hands on: demo,
Duration: one day

SECURITY AND FEATURES MODULE

Audience: Security staff & CA Operators
STB based topics:

- SOL,
- Regionalization
- Content based Topics;
- Surf Locking,
- Secure Chipsets & Pairing,
- CI Layer,
- Fingerprinting
- CA Based topics:
- Marriage,
- Blocking Prevention,
- HGPC,
- ARP+

Security Developments: Watermarking
Hands on: Configuration Builder,
settings and demonstrations
Duration: one day

CONFIGURATION & TUNING MODULE

Audience: CA Operators
Topics:

- Configuration of TV services
- Refresh managers
- Performance monitoring
- EMM generation & Tuning
- Redundancy and performance

Hands on: configuration building and monitoring tools
Duration: one day

CUSTOM MODULES

Audience, Content and duration:
to be discussed
Topics can include:

- New releases of the Irdeto CAS system
- Refresh courses
- Migration or introduction of new components features or services
- Performance Monitoring and event logging
- DB maintenance & size management
- Ethereal analysis
- SMS command analysis
- SNMP configuration

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