STID ACADEMY

MASTERING OSDP/SSCP PROTOCOLS

Course ID	**STID-ACD-SEC-07**
Duration	**1 day**
Format	**VILT / ILT / OST**
Certified Training	**Yes**
Languages	**FR / EN**

SECURE AND OPTIMIZE YOUR ACCESS CONTROL SYSTEMS WITH OSDP & SSCP PROTOCOLS

In a world where security and interoperability are crucial, mastering the OSDP (Open Supervised Device Protocol) and SSCP (Secure Smart Communication Protocol) is a strategic asset to ensure the reliability, protection, and compatibility of access control infrastructures. Through this expert training, STid offers you a unique opportunity to develop a deep understanding of secure communications between readers and controllers while adopting best practices in cryptography and integration. You will learn how to configure, optimize, and secure your equipment, ensuring maximum protection against cyber threats and seamless interoperability with multi-vendor systems.

PREREQUISITES

- Good understanding of access control systems and communication protocols.
- Technical knowledge in networking and embedded system security.
- Experience in the installation or administration of access control solutions is a plus.

AUDIENCE

This training is designed for professionals in the security and access control industry, including:
- Installers & Integrators
- Administrators & Security Managers
- Product Managers
- Commercial Teams
- Technical Support Teams

LEARNING OBJECTIVES

Understand the key challenges and fundamental principles of OSDP and SSCP protocols in access control systems.

Master the architecture and operation of secure communications between readers, controllers, and host systems.

Implement and configure OSDP and SSCP protocols to ensure interoperability and compliance with international standards.

Secure data exchanges using advanced encryption and authentication mechanisms.

Apply best practices in administration and maintenance to ensure the long-term reliability of access control infrastructures.

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DETAILED COURSE OUTLINE

INTRODUCTION TO OSDP AND SSCP PROTOCOLS

- Overview of OSDP and SSCP protocols: history and evolution
- Role of protocols in securing access control systems
- Comparison with other communication protocols (Wiegand, RS485, etc.)
- Interoperability challenges and international standards

MODULE 1: ARCHITECTURE AND FUNCTIONING OF OSDP AND SSCP PROTOCOLS

- Structure and communication principles of the protocols
- Technical framework: interactions between readers, controllers, and host systems
- Communication modes: secured (OSDP Secure Channel, SSCP) vs. non-secured
- Benefits of bidirectional communication and device supervision

MODULE 2: SECURING AND ENCRYPTING COMMUNICATIONS

- Introduction to cryptography applied to OSDP and SSCP protocols
- Authentication mechanisms and encryption key management
- Data exchange protection and attack prevention (replay, interception, injection)
- Implementation of Secure Channel in OSDP and advanced security in SSCP

MODULE 3: CONFIGURATION AND DEPLOYMENT OF OSDP AND SSCP PROTOCOLS

- Parameterization of readers and controllers for optimal integration
- Use of configuration and monitoring tools for the protocols
- Deployment in an existing environment: best practices and recommendations
- Migration strategies from proprietary protocols to OSDP and SSCP

MODULE 4: INTEROPERABILITY AND INTEGRATION INTO SECURE INFRASTRUCTURES

- Compatibility of OSDP and SSCP with different manufacturers and access control systems
- Integration into multi-vendor infrastructures
- Validation tests and verification of proper functioning
- Case studies: successful deployments of OSDP and SSCP

MODULE 5: CASE STUDIES AND HANDS-ON WORKSHOPS

- Analysis of real-world scenarios for implementing OSDP and SSCP protocols
- Simulations and practical exercises on secure configurations
- Troubleshooting technical issues and system optimization
- Q&A session with STid experts

CERTIFICATION

Certificate of Completion awarded upon successful completion.

LEARNING FORMAT

ILT (Instructor-Led Training) :
Experience hands-on training at STid's headquarters, led by experts in a fully equipped environment. Benefit from live demonstrations, interactive exercises, and direct engagement with STid specialists for an optimal learning experience.

VILT (Virtual Instructor-Led Training) :
Join a real-time, interactive training session from anywhere. Delivered via video conferencing, VILT provides expert-led instruction, practical exercises, and live Q&A, ensuring the same high-quality.

OST (On-Site Client Training) :
Tailored training delivered at your site, adapted to your infrastructure, security needs, and equipment for a fully personalized learning experience.

SCHEDULE AND REGISTRATION

To check the schedule, pricing, or register for the course:

customer.training@stid.com

Learn more at:
www.stid.com