

Innominate Training and ICSE Certification 2010

mGuard and IDM Product Training for Partners and Customers

ICSE Boot Camps for Certification as Innominate Certified Systems Engineer

Innominate is offering the following technical training program to our partners and customers. It provides you with comprehensive, up-to-date knowledge around our products to make you even more successful in selling, conceiving, and implementing superior industrial network security and remote services solutions with Innominate's mGuard technology.

All trainings are based on the latest released versions of the Innominate mGuard firmware and the Innominate Device Manager (mGuard 7.0 and IDM 1.3 as of February 2010). Depending on previous knowledge and personal needs, you can book individual one or two day product trainings or attend our comprehensive five-day ICSE Boot Camp and get certified as an Innominate Certified Systems Engineer. The trainings are held in English and/or German as per participants' needs. Training materials and documentation will be available in English.

Innominate mGuard Product Training

Duration: 2 days

Participants get to know the complete mGuard functionality as available through the mGuard WebGUI. They acquire valuable knowledge about frequently asked questions, common pitfalls, and know-how on troubleshooting problems in 1st-level technical support and technical consulting situations. Several practical hands-on exercises will allow to immediately apply and deepen the lessons learned.

Contents:

1. Overview
product family, architecture, hardware, software, management, typical applications, useful tools
2. Installation
connecting, configuration access, base configuration, NTP service
3. Network Modes
stealth, router, PPPoE, PPTP, and modem mode, user authentication, certificate management, remote access via HTTPS and SSH, recovery procedure, support tools
4. Services
DNS, DynDNS, DHCP, proxy settings, redundancy, Quality of Service (QoS)
5. Firewall
firewall rules, DoS protection, port forwarding, NAT, and 1:1 NAT, user/group specific firewall, firewall logging and support
6. Virtual Private Networks (VPNs)
IPsec connections, authentication, firewall inside VPNs, IKE options, dead peer detection, IPsec status, tunnel groups
7. Malware protection for industrial PCs with CIFS Integrity Monitoring.
8. Management Functions
SNMP support, configuration pull, configuration profiles, licensing, firmware update (offline/online)
9. Generic Administration Interface (GAI)
functionality, gaiconfig utility
10. Support and Troubleshooting
flashing of devices, rollout support, analysis of snapshots and TCP dumps

Prerequisites

Good basic knowledge of networks based on Ethernet and Internet Protocols (TCP/IP) and about the general functionality of firewalls and virtual private networks (VPNs).
For the practical exercises, **please bring a notebook with Windows XP Professional SP2** or newer on which you have administrator privileges (other systems on request).

Innominate Device Manager User Training

Duration: 1 day

Since its first appearance in September 2006, Innominate Device Manager (IDM) has turned out to be a key component for the acquisition and efficient implementation of larger mGuard projects which has been well received by the market and proven itself in the practice of numerous customer installations. In this training, participants get to know the architecture and functionality of Innominate Device Manager and are enabled for practical work with an existing IDM Installation.

Contents

1. Overview of the IDM Architecture
IDM server, data base, client,
certificate authority (CA)
2. Devices
3. Templates
4. Permissions and Inheritance
5. Configuration Push and Pull,
Scheduling
6. VPN Configuration
7. Automation Resources
Using address pools and integrated
certificate authority in templates and
devices
8. Importing Device Lists
9. Managing Device Licenses
10. Managing Firmware Updates

After signing the appropriate license agreement (IDM Demo EULA), Innominate resellers can obtain an IDM installation in form of a Virtual Machine image usable with free VirtualBox or VMware Players and a 6 months IDM demo license for personal use in testing and demonstrations. Attending an IDM User Trainings is required to obtain such an IDM demo license.

Prerequisites

Participants should have good knowledge about and possibly practical experience with mGuard security appliances on a current version, i.e., master the network/firewall/VPN configuration through the mGuard WebGUI at the level provided in an mGuard product training. For the practical exercises, **please bring a notebook with Windows XP Professional SP2** or newer with >4 GB of free disk space on which you have administrator privileges (other systems on request).

Innominate Device Manager Administrator Training

Duration: 1day

Participants learn to set up and operate an IDM installation and to deploy it in different roll-out scenarios, enabling them to offer these services and provide competent consultancy.

Contents

1. Installation of PostgreSQL Data Base
2. Installation of IDM
IDM Server, IDM CA, IDM Client
3. Installation of HTTPS Web Server
for configuration pull
4. Roll-Outs with Configuration Push
5. Roll-Outs with Configuration Pull
6. Roll-Outs with IDM and mGuard
roll-out support during flashing
7. Operations
Backup and restore of the data base,
update from previous versions

Prerequisites

Previous attendance of mGuard Product Training and IDM User Training or comparable knowledge. For the practical exercises, **please bring a notebook with Windows XP Professional SP2** or newer with >4 GB of free disk space on which you have administrator privileges (other systems on request).

ICSE Boot Camp

Duration: 5 days

The ICSE Boot Camp is our comprehensive training offering for the initial technical qualification of staff members. It combines all of the mGuard and IDM trainings above with an additional day of solution practice into an intensive week of training leading you to certification as an Innominate Certified Systems Engineer (ICSE).

Contents

- Day 1-2: mGuard Product Training
- Day 3-4: Innominate Device Manager User & Administrator Training
- Day 5: mGuard / IDM Solution Practice
In this hands-on lab, participants work in small teams coached by the trainer on selected use cases for industrial network security and/or secured remote services applying the knowledge gathered during days 1-4 in representative scenarios. Subsequently, the solutions will be presented and compared with other (sample) solutions.

Prerequisites

Good basic knowledge of networks based on Ethernet and Internet Protocols (TCP/IP) and about the general functionality of firewalls and virtual private networks (VPNs).

For the practical exercises, **please bring a notebook with Windows XP Professional SP2** or newer with >4 GB of free disk space on which you have administrator privileges (other systems on request).

ICSE Certification and Innominate Certified Partner Status

ICSE is a personal certification of the participant as Innominate Certified System Engineer and valid for 18 months. Attendance of an ICSE Update Training after 12-18 months is required to renew and maintain the certification beyond that period.

Obtaining and maintaining Innominate Certified Partner Status as a company requires at least two employees with valid ICSE Certification.

New in 2010: ICSE Update Training (in preparation)

Planned Duration: 2 days

This training is required to renew expiring personal ICSE certificates for another 18 months period. It educates you about the use and benefits of technical innovations and new product features introduced since your last certification. It also includes an extensive Q&A session to exchange experiences and problems encountered with your peers and receive advice on them from our training staff.

Contents

- New products and versions released over the last 18 months
- What's new in mGuard firmware
- What's new in Innominate Device Manager
- Q&A session, practice exchange

Prerequisites

Previous personal ICSE certificate which is about to expire or expired (not older than 24 months).

For the practical exercises, **please bring a notebook with Windows XP Professional SP2** or newer with >4 GB of free disk space on which you have administrator privileges (other systems on request).

New in 2010: Supporting mGuard VPN Installations

Duration: 1 day

To a large extent, mGuard products are being used in remote access and remote services applications that involve setup and operation of virtual private networks (VPNs). If you are in charge of planning, configuring, and supporting such VPN installations this class is for you! The advanced understanding of IPsec VPNs and their mGuard implementation imparted by this training course will help you to provide routine support and experienced on-demand troubleshooting to your users.

Contents

- Understanding and creating X.509 certificates
- Basic VPN configuration in stealth, router, and PPPoE modes, 1:1 NAT of local networks
- Advanced VPN techniques: 1:1 NAT of remote networks, masquerading, TCP encapsulation, Hub & Spoke VPNs
- VPN logging, snapshot analysis, and troubleshooting
- Practical exercises

Prerequisites

Participants should have good knowledge about and possibly practical experience with mGuard security appliances on a current version, i.e., master the network/firewall/VPN configuration through the mGuard WebGUI at the level provided in an mGuard product training.

For the practical exercises, **please bring a notebook with Windows XP Professional SP2** or newer on which you have administrator privileges (other systems on request).

Dates, Pricing and Registration

For scheduled dates for all of the trainings above as open events for up to 8 participants at Innominate in Berlin as well as pricing and registration information please refer to the accompanying registration form or to our website www.innominate.com under > Services > Training.

On request, we are pleased to also provide you with a proposal and quotation for trainings as a closed event exclusively for your company at a location of your choice.