

Milestone Learning & Performance

Milestone Technical Configuration Level 1



The open platform company

Course description

This three-day class consists of a series of hands-on exercises that build on each other to configure the XProtect Corporate VMS to specifications from realistic scenarios. Step-by-step instructions guide the learner as they configure systems according to sample specs.

A final project allows them to practice and demonstrate their skills in a more independent environment, but with continued support from the facilitator.

Participants leave with a detailed sequential checklist and annotated notes to help transfer their knowledge to the field.

Successful students will also leave prepared to complete the Milestone Certified Integration Technician (MCIT) online exam.

The course duration is three full working days 9 am to 5 pm, total seat time 18 hours. Coffee and other refreshments will normally be provided during the day, and lunch is provided.

Target audience

Anyone interested in learning how to install and configure XProtect® Expert and XProtect® Corporate, according to a detailed specification, is welcome to sign up for this class.

Prerequisites

To be successful in this course, you should first complete the following free eLearning courses:

1. Milestone Fundamentals
2. Getting Started with XProtect® Professional
3. Getting Started with XProtect® Smart Client

These can be accessed through the Milestone website.

Technical equipment

To maximize the learning experience, network components, cameras and accessories are provided for use by each student during the certification training.

The student is required to bring a laptop for accessing the training server for the hands-on exercises. The laptop must meet all the minimum specifications listed on the last page of this document.

Documentation and certificates

Course documentation is provided at the start of class for each student:

1. Milestone Integration Technician Exercise Handbook
2. XProtect® Advanced Installation and Configuration Sequential Checklist
3. XProtect® Advanced Installation and Configuration Annotated Checklist (electronic)

After attending class, a completion certificate will be emailed to you.

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Milestone Systems Inc.

8905 SW Nimbus Avenue, Suite 400 • Beaverton, OR 97008, USA • Tel: +1 503 350 1100 • Fax: +1 503 350 1199

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Agenda (3 days)

Day 1:

- Introducing the Acme Retail Case Study
- Configure the Network and Server
- Install Milestone XProtect Advanced Components
- Configure the ACME Retail HQ Recording and Storage Settings
- Add Devices to the ACME Retail HQ Recording Server
- Configure Cameras
- Rules Introduction
- Create Profiles

Day 2:

- Configuring and Using Events
- Configure a Smart Wall
- Set Security
- Set Options
- Define alarms
- System monitoring
- Configure Mobile server
- Interconnect

Day 3:

- Configuring the MegaMotors project
- Final presentation and project validation

Hands-on exercises

- Introduction to the Acme Retail Case Study
- Configure the Network and Server
 - Document the network settings for your server
 - Connect your local computer to network and verify the connection
 - Download the class material from the Trainer's server
 - Open a Remote Desktop Connection to your server
 - Install the Microsoft SQL Server Management Tools
 - Verify Microsoft SQL server access and permissions
- Install Milestone XProtect Advanced Components
 - Install the Management Server to your Server
 - Verify that the Management Server is running
 - Download and install the Milestone Mobile server to your Server
 - Verify that the Mobile Server is running

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- Install the Recording Server to your Server
- Verify that the Recording Server status is connected using the system tray
- Download and install the Management Client to your local computer
- Install the Milestone Mobile admin plug-in to your local computer
- Download and Install the Smart Client to your Local Computer
- Configure the ACME Retail HQ Recording and Storage Settings
 - Open the Management Client and log into the Server
 - Review license information
 - Authorize the ACME Retail Recording Server
 - Configure the Default Storage Settings for the Classroom
 - Configure the Storage Settings for the AMCE Retail HQ Recording Server
 - Add archive settings for the AMCE Retail HQ Recording Server
 - Define retention and grooming for the AMCE Retail HQ Recording Server
- Add Devices to the ACME Retail HQ Recording Server
 - Add devices, create device groups, and assign devices to default groups
 - Add a Direct Show device with manual scanning
 - Add a video file to a Direct Show device
 - Install the XProtect Screen Recorder on Your Local Computer
 - Add a Firewall Exception for Screen Recording to Your Server
 - Add the Screen Recorder as device
 - Create additional device groups
 - Add devices to camera groups
- Configure Cameras
 - Configure camera settings and define video streams
 - Configure Recording settings
 - Configure a Privacy mask
 - Configure 360° Lenses
 - Create PTZ presets
 - Configure the Microphone to retain recorded audio for only 24 hours.
 - Configure inputs and outputs
- Introducing Rules
 - Deactivate the Default Record on Motion Rule
 - Create the Rule: RECORD - On motion on indoor cameras
 - Create the rule: RECORD – Always on outdoor cameras
 - Create the rule: FRAMERATE - Keyframe normal, full FPS on motion on outdoor cameras
 - Verify that the rules are working
 - Create new rule: RECORD AUDIO - from admin reception front door on doorbell activated
- Create Profiles
 - Add a Time Profile
 - Add a Day length time profile
 - Edit Rule: FRAMERATE - Keyframe normal, full FPS on motion on outdoor cameras outside work hours
- Configuring and Using Events
 - Log in with Smart Client
 - Configure Client Settings

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- Add a User-defined Event
 - Add a Generic event
- Configure a Smart Wall
 - Create and Name a Smart Wall
 - Add Monitors to the Admin Office Security Room Smart Wall
 - Specify the Smart Wall monitor layout
 - Create Smart Wall Presets
 - Create new rule: SMART WALL – Show Cameras with Motion on left monitor
 - Create new rule: SMART WALL - Trigger Lockdown preset on Lockdown User Defined Event
 - Create new rule: SMART WALL - Text notification on robbery in Store #1
 - Verify Smart Wall set up
- Set Security
 - Create Security Staff and Users roles
 - Define overall security settings for a role
 - Add a Basic user
 - Create a Windows Active Directory user
 - Assign users and user groups to role
 - Verify the roles of Admin reception
 - Add Smart Client Profiles
 - Assign profiles to basic user
 - Create Evidence Lock Profile and Add It to a Role
- Set Options
 - Specify general VMS settings
 - Configure settings for generic events.
- Define alarms
 - Add category to alarm definition
 - Configure an alarm to send an alert to the mobile
 - Add Alarm Sound Settings
 - Add Alarm Category
 - Verify in Smart Client
 - New Alarm: Admin Office Door Bell
 - Smart Client Create a 1 x 1 view and Make Overlay Buttons
- System monitoring
 - Set Options for System Monitoring
 - Create a Notification Profile
 - System performance and alerting
 - Customize the System Monitor.
 - Adjust System Monitor Thresholds
 - Check System Logs
 - Enable SNMP Traps
- Configure Mobile server
 - Configure mobile
 - Verify on a mobile device
 - Set up and verify video push

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- Interconnect
 - Configure interconnect
 - Add events to interconnect
- XProtect Server service/upgrade/expansion proficiencies
 - Install a cold failover to the local machine.
 - Run a Configuration Reports
 - Save and Load a configuration backup

Attendee equipment requirements

Attendees in the Milestone Advanced Certification are required to bring a laptop to class for use for the hands-on exercises. All other equipment will be supplied by the course provider.

Your laptop must meet the minimum requirements specified below.

Minimum system requirements for attendee laptops

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64-bit Windows Operating System (32-bit versions are not supported)

- Windows Vista (Business, Enterprise, Ultimate)
- Windows 7 (Professional, Enterprise, Ultimate)
- Windows 8 (Pro, Enterprise)

Intel® Core 2™ Duo (or comparable processor), minimum 2.4 GHz or higher

Minimum 2 GB RAM

Minimum 8 GB free hard disk space

Required software

- Microsoft .Net 4.5.1 or newer
 - Click [here](#) to download .NET Framework 4.5.1
- DirectX 9.0 or newer
 - To check which DirectX version is installed on a computer, click **Start**, select **Run...** and type **dxdiag**. When you click **OK**, the **DirectX Diagnostic Tool** window opens. Version information is displayed near the bottom of its **System** tab.
 - Latest version available from <http://www.microsoft.com/en-us/download/>

User rights access

- You must be able to install new programs on the machine
- You must be able to change network settings
- You must be able to change firewall settings

It is highly recommended you bring an external mouse

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