



Milestone Technical Configuration Level 1

Training Workshop Agenda



Note: *Each participant must bring a laptop with wireless connectivity and a modern browser capable of accessing the internet. Additional technical equipment information is on page 7.*

Workshop description

In the Technical Configuration Level 1 training workshop, participants will learn how to install and configure the XProtect® Corporate VMS to specifications for realistic scenarios.

During the workshop, participants act as Integration Technicians to install the different XProtect Corporate VMS components to accommodate a customer's business needs. This includes detailed steps on how to configure various hardware, product specifications, and real-world requirements. At the end of the workshop, participants will set up a new XProtect Corporate VMS using a detailed specification.

Attending this workshop helps prepare participants to take the Milestone Certified Integration Technician (MCIT) online assessment.

The course duration is three full working days, 9 am to 5 pm, with a total seat time of 18 hours. Coffee and other refreshments are provided throughout the day and lunch is provided.

Workshop format

This three-day training workshop consists of a series of hands-on exercises that help participants configure features of the Milestone XProtect Corporate VMS to address realistic scenarios.

Step-by-step instructions guide participants as they work to install, configure, and demonstrate core features of the Milestone XProtect Corporate VMS. Discussion topics address common solutions.

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

Target audience

Field technicians who are responsible for installing and configuring video surveillance systems are encouraged to attend this workshop.

Prerequisites

To be successful in this workshop, you should first complete the [Milestone Technical Configuration Level 1 Pre-workshop Orientation](#), in addition to the following free eLearning courses:

1. Milestone Fundamentals of IP Surveillance Systems
2. Getting Started with XProtect® Professional
3. Getting Started with XProtect® Smart Client

These free eLearning courses can be accessed on the [Milestone Partner Learning Portal](#).

Technical equipment

To maximize the learning experience, network components, cameras, and accessories are provided for use by each participant during the workshop.

Each participant 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.

Workshop materials

Each participant will receive the following materials at the start of the workshop:

- Milestone Technical Configuration Level 1 Exercise Handbook
- Milestone Technical Configuration Level 1 Sequential Checklist
- Milestone Technical Configuration Level 1 Annotated Checklist (electronic)

Certificates and credits

When the workshop concludes on the third day, a certificate of completion will be available to download and print in each participant's Milestone Learning Portal profile. This certificate can be submitted to Building Industry Consulting Service International ([BICSI](#)) for up to 18 Continuing Education Credits.

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

Case Study: Acme Retail (Facilitator-led exercises)

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
- Adjust the time zone of your server to match the time zone of your laptop
- 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
- Verify that the Mobile Server is running
- Install the Recording Server to your Server
- Verify that the Recording Server has started
- Download and install the Management Client to your laptop
- Install the Milestone Mobile admin plug-in to your laptop
- Download and Install the Smart Client to your laptop

Configure the Acme Retail HQ Recording and Storage Settings

- Open the Management Client and log in to 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 Acme Retail HQ Recording Server
- Add archive settings for the Acme Retail HQ Recording Server
- Define retention and grooming for the Acme 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 laptop
- 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 Motion Detection
- 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

- 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

- 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

Configure Security

- Create Security Staff and Users roles
- Define overall security settings for a role
- Add a Basic user to a role
- Verify the roles of Admin reception
- Add Smart Client Profiles
- Assign profiles to roles
- Create Evidence Lock Profile and add it to a role

Define alarms

- Configure a Device Failure alarm
- Add Alarm Sound Settings
- Add categories to the alarm data settings
- Verify alarm in Smart Client
- New Alarm: Admin Office Door Bell
- Verify speakers are associated with a camera
- Smart Client: Create a 1 x 1 view and Make Overlay Buttons

System options and monitoring performance

- Specify general VMS settings
- Set Options for System Monitoring
- Create a Notification Profile
- System performance and alerting
- Customize the System Monitor

- Adjust System Monitor Thresholds
- Create additional notification rules
- Use the manual to determine log file functions
- Check System Log
- Change Server Log Options
- Validate Log Events

Configure Mobile server

- Configure a Mobile Server
- Connect to the Mobile Server
- Set up and verify video push

Interconnect

- Verify Smart Client Access to a Remote System
- Add an Interconnected System
- Modify the “SMART WALL - Text notification on robbery in Store #1” rule to trigger on an event from the interconnected system

XProtect Server service/upgrade/expansion proficiencies

- Run a Configuration Report
- Save and Load a configuration backup
- Configure the Download Manager
- SQL tools and maintenance

Participant equipment requirements

Each participant in the Milestone Technical Configuration Level 1 workshop is required to bring a laptop for the hands-on exercises. All other equipment will be supplied by the workshop provider.

Your laptop must meet the minimum requirements specified below.

Minimum system requirements for participant laptops

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)
- Windows 10 (Pro, Enterprise)

Please check ✓

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

Minimum 2 GB RAM

Minimum 8 GB free hard disk space

Ethernet port or dongle for USB-to-RJ45

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.

It is recommended your laptop has a dedicated number pad or you bring an external one.