

Milestone Technical Configuration Level 1

Training Class Agenda



Note: This class can be in-person or online. For the online class, please see the list of technical requirements below.

Target Audience

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

Class Description

The Technical Configuration Level 1 class introduces students to real-life scenarios that use core features of the Milestone XProtect® Corporate VMS. During this class, students will complete hands-on exercises to install and configure an XProtect Corporate VMS installation.

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

Attending this class helps prepare students to take the [Milestone Certified Integration Technician \(MCIT\) online assessment](#).

The class duration is three full working days, 9:00 AM to 5:00 PM, with a total seat time of 18 hours.

Class Format

Through a series of hands-on exercises that address realistic scenarios, students will receive step-by-step instructions to install, configure, and demonstrate core features of an XProtect Corporate VMS installation. Class discussions will address the topics of each exercise.

Recommended Milestone eLearning

It is strongly recommended that you review eLearning courses prior to taking TC1 in order to be successful with the hands-on exercises and class discussions. These eLearning courses cover fundamental knowledge and skills with cameras, networks, and storage devices.

[TC1 Pre-Class](#): The TC1 Pre-Class Coursework provides essential knowledge to review before taking the TC1 class. The Integration Technician training track provides valuable information and explores topics from the TC1 class even further.

[Milestone Integration Technician Learning Path](#): The Integration Technician training track is recommended for field technicians who are responsible for installing and configuring multi-server, medium-complexity video surveillance systems. The courses included in this training track provide knowledge on how to install and configure systems using Milestone products.

The [eLearning](#) section of the [Milestone Partner Learning Portal](#) provides additional [Role-Specific Learning Paths](#).

Class Materials

Each student will receive the following downloadable materials in class:

- Milestone Technical Configuration Level 1 Lab Manual
- Milestone Technical Configuration Level 1 Presentation

Technical Requirements

The following technical requirements are recommended to maximize the online class experience:

- Internet access
- 1Mbit/s available download and upload bandwidth
- Internet latency of 900 or less (700 or less is recommended; see details below)
- Headset or speakers (microphone not required)
- 17-inch monitor or larger
- Internet browser

Browser: Firefox browser is NOT supported. Please use another browser, such as Chrome or Edge.

To check your internet latency:

- Launch this test lab: <https://labondemand.com/Launch/122B02AA>
- Hover your mouse pointer over the data bars at the top of the lab window.



- A latency of 700 or less is recommended for online classes.
- A latency of 700-900 will have slow interactions with the online labs. We recommend finding an alternative internet connection for a better class experience.
- A latency of 900 or more does not meet the requirements. The online labs will be slow to respond and disrupt your learning. Find an alternative internet connection.

To check your connection to the Adobe Connect classroom:

- Go to https://milestonesys.adobeconnect.com/common/help/en/support/meeting_test.htm
- Select Run Diagnostic Test.

Agenda (3 days)

Day 1:

- System Components Overview
- Configure the Network and Servers to Support the Customer's Requirements
- Install XProtect VMS Components
- Configure the Acme Retail HQ Recording and Storage Settings
- Add Devices to the Acme Retail HQ Recording Server
- Configure Hardware and Devices
- Rules Introduction

Day 2:

- Configure and Use Events
- Configure a Smart Wall
- Configure Roles and Users

- Define Alarms
- System Options, System Monitoring, and Log Files
- Install and Configure the Acme Retail HQ Mobile Server
- XProtect Server Service/Upgrade/Expansion Proficiencies
- Milestone Deployment Assistant

Day 3:

- Larsen Warehouse Specification

Hands-on Exercises

Case Study: Acme Retail (Facilitator-led exercises)

Configure the Network and Server to Support the Customer's Requirements

- Startup Lab Environment: Technical Configuration 1 Base Lab (2024R1)
- Document the network settings
- Verify the automatic login of each VM and verify the WORKSTATION VM is connected to the network
- Verify the servers can resolve each other
- Verify the class materials in the fileshare
- Verify that the times and time zones match for the WORKSTATION VM, RECORDING SERVER VM, and MANAGEMENT SERVER VM

Install XProtect VMS Components

- Install the management server to the MANAGEMENT SERVER VM
- Verify the management server is running
- Download and install the recording server to the RECORDING SERVER VM
- Install the Legacy Device Pack to the RECORDING SERVER VM
- Download and install the Management Client to the WORKSTATION VM
- Download and install the Smart Client to the WORKSTATION VM

Configure the Acme Retail HQ Recording and Storage Settings

- Open the Management Client and sign in to the server
- Review the license information
- Configure the default storage settings
- Configure the storage settings for the Acme Retail HQ recording server
- Add archive settings 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
- Create additional device groups
- Add devices to camera groups

Configure Hardware and Devices

- Configure camera settings

- Configure recording settings
- Configure a privacy mask
- Configure motion detection
- Configure inputs

Rules Introduction

- 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: FRAME RATE - Keyframe normal, full FPS on motion on outdoor cameras
- Add a time profile
- Add a day-length time profile
- Edit the rule: FRAME RATE - Keyframe normal, full FPS on motion on outdoor cameras outside work hours

Configure and Use Events

- Add a user-defined event
- Add a generic event to test an external alarm string
- Create a rule to log the intrusion alarm
- Open the port for TCP communication with the external system
- Use the Generic Events Test Tool

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 the rule: SMART WALL - Set Smart Wall monitor to show cameras
- Create a new rule: SMART WALL - Trigger Lockdown preset on Lockdown User-Defined Event
- Create a new rule: SMART WALL - Text notification on hidden panic alarm pressed at goods entrance

Configure Roles and Users

- Create Security Staff and General Staff roles
- Define specific security settings for a role
- Add a basic user to a role
- Verify the roles for Reception
- Add Smart Client profiles
- Assign profiles to roles
- Create an Evidence Lock profile and add it to a role
- Define overall security settings for a role

Define Alarms

- Configure a device failure alarm
- Add alarm sound settings
- Add categories to the alarm data settings
- Create a new alarm for the Admin Office doorbell

- Create a 1 x 1 view in Smart Client and make overlay buttons

System Options, System Monitoring, and Log Files

- Specify general VMS settings
- Set options for the Mail Server
- Create a notification profile
- Create notification rules
- Verify system performance and alerting
- Customize the System Monitor
- Use the manual to identify the log files and check the system log
- Change server log options
- Validate log events

Install and Configure the Acme Retail HQ Mobile Server

- Create a basic user for the mobile server
- Create a role for mobile server access
- Download and install the mobile server to the MANAGEMENT SERVER VM
- Verify the mobile server is running
- Configure the mobile server
- Edit the Security Staff role
- Set up and verify Video Push

XProtect Server Service/Upgrade/Expansion Proficiencies

- Run the Configuration Report
- Save and load a configuration backup

Milestone Deployment Assistant

- Create a new deployment