DEA

SECURITY®

DEAVMS

PLUGIN INTERFACES

DeaVMS Plug-In V1.1.0

CONTENTS

1. INTRODUCTION

The DeaVMS Plug-in involves:

- **XProtect Management Client**: for the configuration of the DEA systems,
- **XProtect Event Server**: for the communication with DEA systems,
- **XProtect Smart Client's Map** and **Smart Map**: for monitoring the status and sending of the commands to DEA systems.

The DeaVMS is installed, by its setup (*.msi*), in the *MIPPlugin* folder inside Milestone installation folder.

2. USING

- *NET Framework Version= 4.7*
- *MilestoneSystem.VideoOS.Platform Version= 23.3.1*
    - *VideoOS.Platform.Background.BackgroundPlugin*
    - *VideoOS.Platform.ItemManager*
    - *VideoOS.Platform.Messaging.Message*

3. ENVIRONMENT

- MIP environment for XProtect Event Server and administration

4. ARCHITECTURAL DIAGRAM

The application extends the **BackgroundPlugin** interface.

At the start of the *XProtect Event Server,* the plugin is initialised.

During initialisation, the plugin registers three communication channels (*MessageCommunicationManager*)

- **Background-Client**: channel between *background* and *XProtect Smart Client,* used to send commands from the *XProtect Smart Client* to the Background:
    - Switch the visualization of the status (*SecutityLevel* or *Diagnostic visualization*) in *XProtect Smart Client*;
- **Background -Admin Settings**: channel between *background* and *XProtect Management Client,* used to send commands from Setting page of the Configurator to the Background:
    - Request the current DEA Map status,
    - Request the alignment between XProtect objects and DEA objects,
    - Save the configuration and restart the background service;
    - Read/Edit DEA boards configuration to set the custom alarm message.
- **Background -Admin Server**: channel between *background* and *XProtect,* used to send commands from Device pages of the Configurator to the Background:
    - Request the DEA Device status
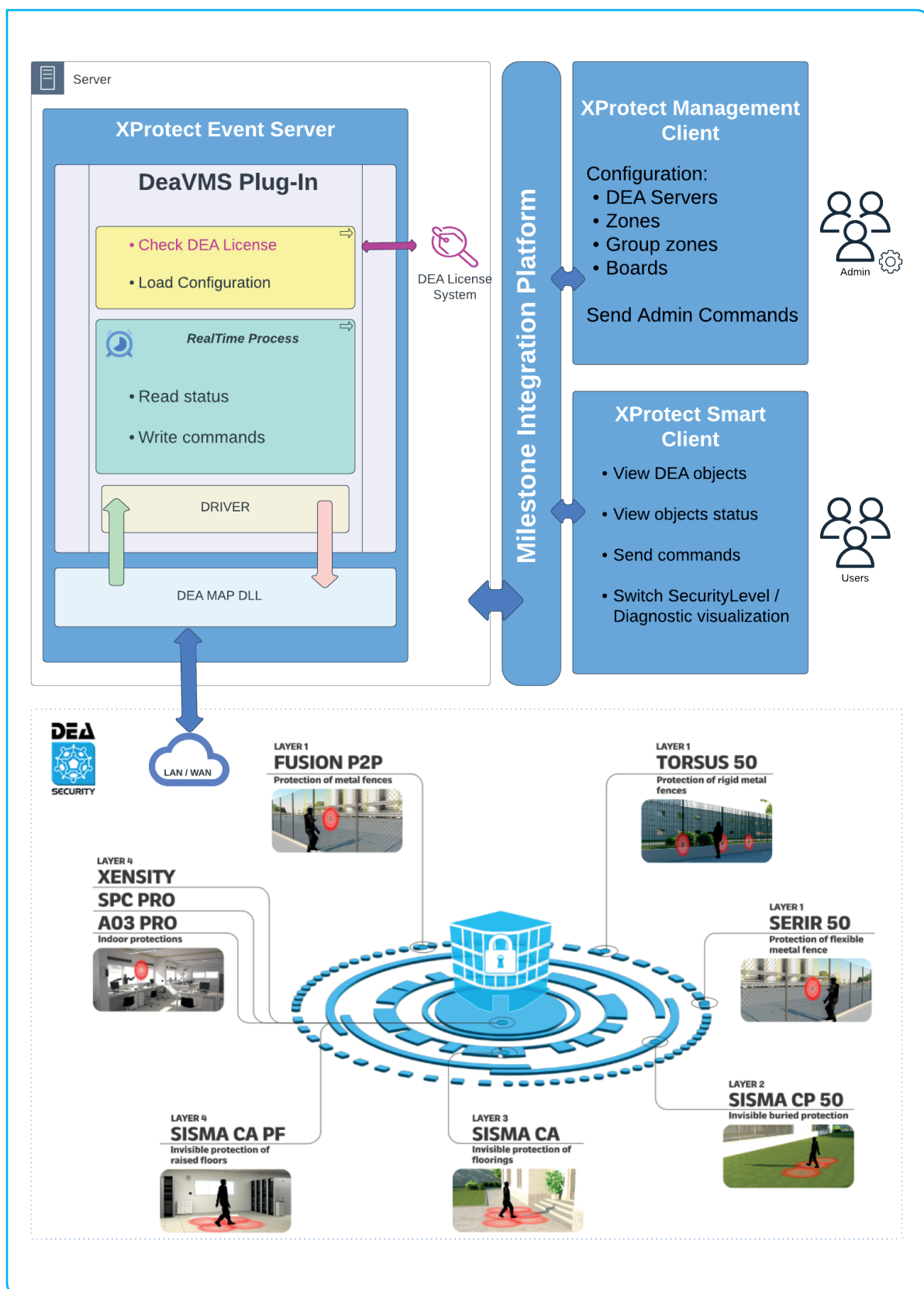   - Align Zone/Sectors with DEA system,
    - Clear Zone/Sectors,

When the application is started, it is checked whether the DEA licence is correctly installed. If the licence is not installed, it is not possible to communicate with DEA devices.

If the DEA licence is correctly installed, the application checks if one or more DEA servers are saved in the XProtect system and tries to initialise communication with them via the DeaMap.dll library.

Once communication with the DEA servers has been initialised, the plug-in reads the status of all DEA objects and reports them to XProtect. Each change of status in DEA is also reported in real time in XProtect.

The configuration process is done directly in XProtect Management Client. The DEA map, DEA servers and its objects (zones, sectors, group of zones) are registered in XProtect system via `Configuration.Instance.SaveItemConfiguration` function.
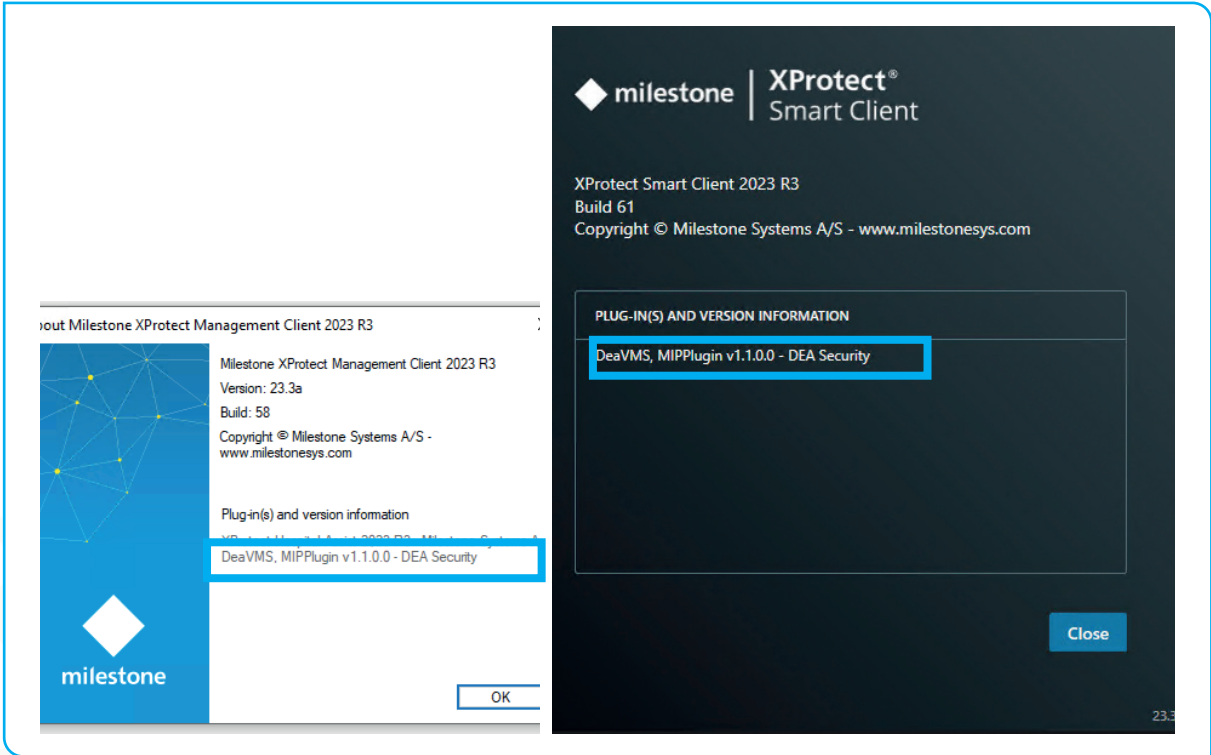
Each change of the object status is notified via `EventServerControl.Instance.ItemStatusChanged` function.

Server

XProtect Event Server

DeaVMS Plug-In

• Check DEA License

• Load Configuration

RealTime Process

• Read status

• Write commands

DRIVER

DEA MAP DLL

DEA License System

Milestone Integration Platform

XProtect Management Client

Configuration:
• DEA Servers
• Zones
• Group zones
• Boards

Send Admin Commands

Admin

XProtect Smart Client

• View DEA objects

• View objects status

• Send commands

• Switch SecurityLevel / Diagnostic visualization

Users

LAN / WAN

LAYER 1 FUSION P2P
Protection of metal fences

LAYER 1 TORSUS 50
Protection of rigid metal fences

LAYER 4 XENSITY SPC PRO A03 PRO
Indoor protections

LAYER 1 SERIR 50
Protection of flexible meetal fence

LAYER 4 SISMA CA PF
Invisible protection of raised floors

LAYER 3 SISMA CA
Invisible protection of floorings

LAYER 2 SISMA CP 50
Invisible buried protection

```
ManufacturerName   = "DEA Security"
IntegrationName    = "DeaVMS"
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