

User Guide and Installation Document

Introduction

Pixuate plugins helps to configure the edge devices, view the generated events from edge devices and live view of the cameras from pixuate milestone database and to see the reports of all the analytics. There are many tabs as many number of analytics with two extra tabs, configuration and reports tab, excluding these two, all other tabs have same look and feel only analytic type changes.

General flow of the application

1. An image is captured from an IP camera
2. The image is then sent to the configured edge device, which analyses and adds attributes to it.
3. Analysed result from the edge devices is sent to milestone via MQTT broker and stored in milestone database.
4. There are mainly three different types of tabs available in milestone they are
 - 1) Configuration Tab
 - 2) Report Tab
 - 3) Analytics Tab
5. Configuration tab helps to configure the edge device with associated analytics.
6. Reports tab is used to show all the generated events of a selected analytic.
7. Analytic tab will shows the recently generated events and live view of the camera.

Analytic Types

Camera Masked :

Crowding :

Driver On Mobile :

Fire Smoke Detection :

Face Recognition :

Intruder Detection :

Line Crossing :

Loitering Detection :

License Plate Recognition :

Occupancy :

Object Detection :

People Count :

Red Light Violation Detection :

Social Distance Monitoring :

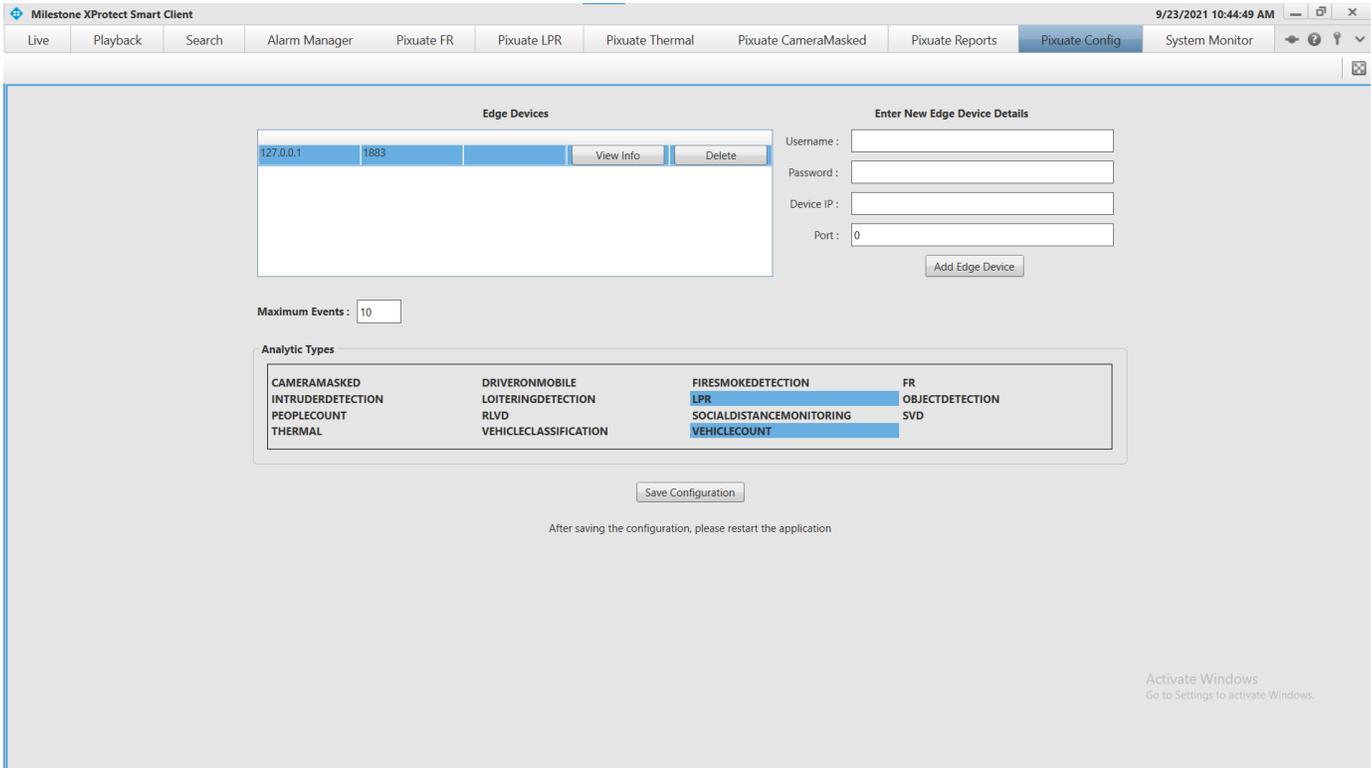
Speed Violation Detection :

Thermal :

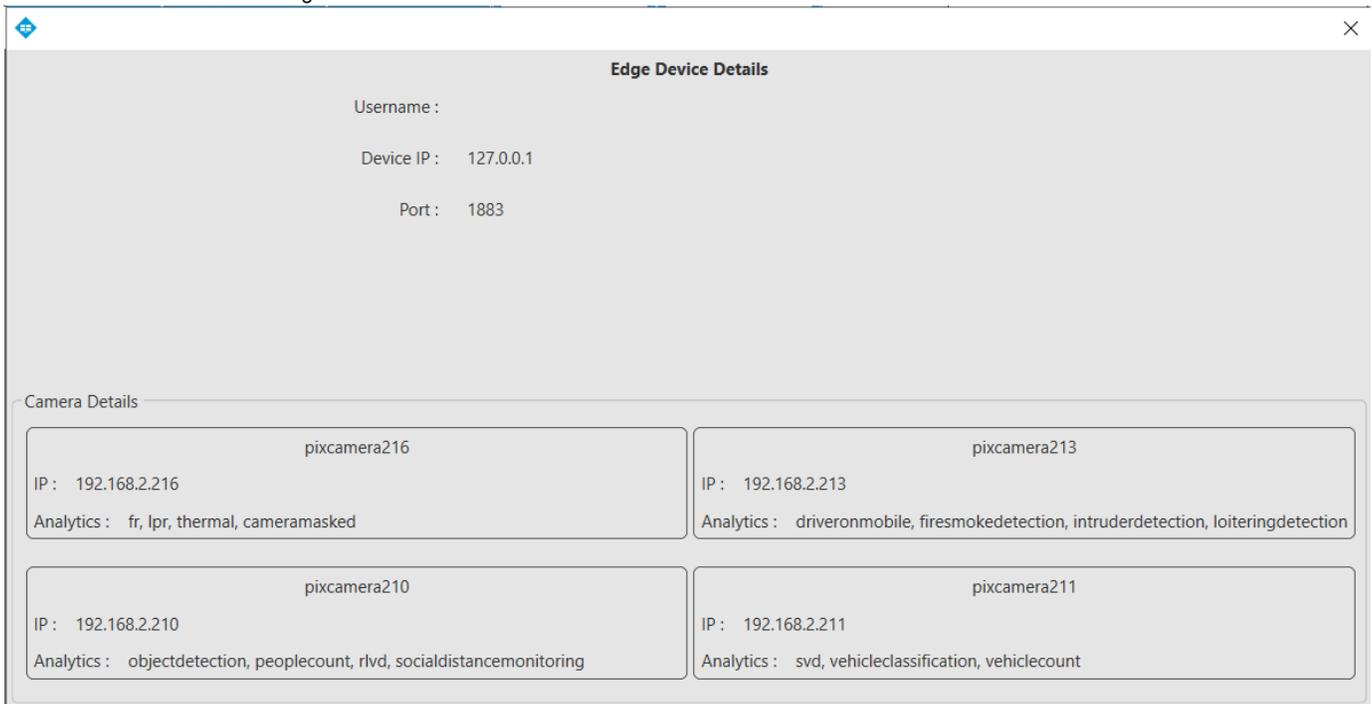
Vehicle Classification :

Vehicle Count :

Configuration Tab



- The above image shows the screen of configuration tab. Basically it is used to configure the edge devices with associated analytic types.
- To configure the edge device, user needs to enter all the necessary details like - username, password, device IP and port number in the given input fields, after entering all the details correctly press the add edge device button, if entered details are valid then the edge device will be configured.
- User can also check the configured edge device list to confirm the device is configured or not. The list contains two more buttons they are view info and delete button.
- **View info** - it is used to view edge device information like username, device IP, port number, camera details and selected analytics as shown in the below image.



- **Delete** - it is used to delete the configured edge devices.
- User can set maximum number of events that will be sent by the edge devices and different types of analytics needed, press the save configuration button to save the changes.

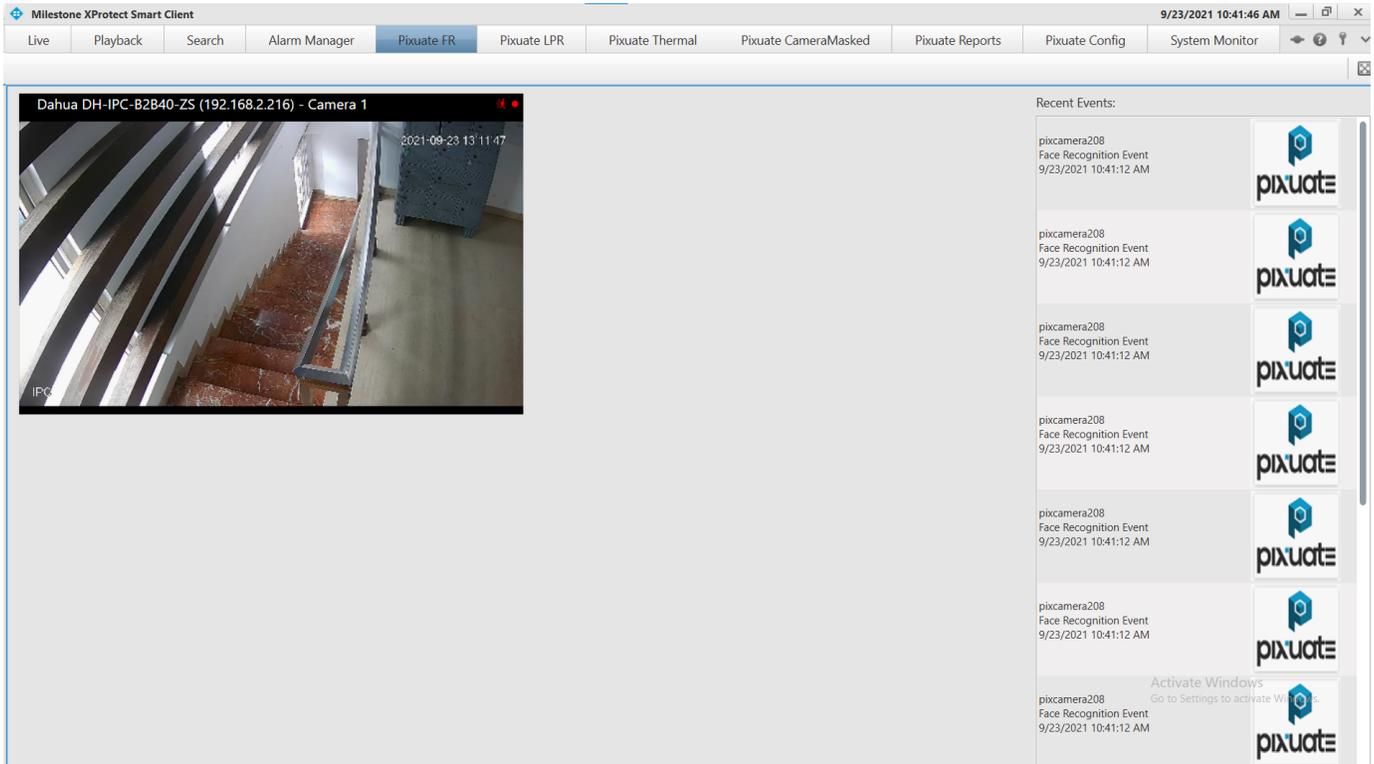
- After saving the configuration user needs to restart the milestone smart client.

Reports Tab

ID	IP Address	Device Name	Event Type	Timestamp
104	192.168.2.208	pixcamera208	Face Recognition Event	9/23/2021 10:41:12 AM
104	192.168.2.208	pixcamera208	Face Recognition Event	9/23/2021 10:41:12 AM
104	192.168.2.208	pixcamera208	Face Recognition Event	9/23/2021 10:41:12 AM
104	192.168.2.208	pixcamera208	Face Recognition Event	9/23/2021 10:41:12 AM
104	192.168.2.208	pixcamera208	Face Recognition Event	9/23/2021 10:41:12 AM
104	192.168.2.208	pixcamera208	Face Recognition Event	9/23/2021 10:41:12 AM
104	192.168.2.208	pixcamera208	Face Recognition Event	9/23/2021 10:41:12 AM
104	192.168.2.208	pixcamera208	Face Recognition Event	9/23/2021 10:41:12 AM
104	192.168.2.208	pixcamera208	Face Recognition Event	9/23/2021 10:41:12 AM
104	192.168.2.208	pixcamera208	Face Recognition Event	9/23/2021 10:41:12 AM
104	192.168.2.208	pixcamera208	Face Recognition Event	9/23/2021 10:41:12 AM
104	192.168.2.208	pixcamera208	Face Recognition Event	9/22/2021 1:53:33 PM
104	192.168.2.208	pixcamera208	Face Recognition Event	9/22/2021 1:53:33 PM

- The above image shows the screen of reports tab. It will help to view all the events generated for a specific analytic.
- User can view all the events by selecting analytic type from the dropdown and by pressing apply button. It will show you all the events for the selected analytic type.
- **From Date and Time**- User can filter the events by selecting from date and time.
- **To Date and Time** - User can also use to-date to filter the events and time.
- **Analytic** - User needs to select the analytic type to view the events generated for the selected analytic.
- **Apply** - Apply button is used to apply the filters like from-date, to-date and analytic to view the filtered events.
- **Export** - Export button is used to download or save all the events of the selected analytic type in the excel format or in Pdf format.
- **Next Page** - If there exist large number of events, then all the events will be displayed page by page. Next Page button is used to view next page events.
- **Previous Page** - Previous button is used to view previous page events.
- The numbers between previous and next page buttons indicate current page index and total number of available pages. Numbers at right side of the next page button indicate range of events shown and total number of events generated.

Analytics Tab



- The above image shows the screen of face recognition(FR) Analytic Tab.
- Analytic tab contains live view of the camera and list of recently generated events.
- List of recently generated events contains attributes of the events like - event id, event name, image, date time etc.
- User can also able to see the live view of the connected cameras of a analytic.

Installation of Pixuate Plugin

1. Download the plugin.
2. Before running the "PixuateSetip.msi", please stop following service.
 - a. Milestone XProtect Event Server
 - b. Milestone XProtect Recording Server
3. Run the installer as shown in the below images.

PixuateSetup



Welcome to the PixuateSetup Setup Wizard



The installer will guide you through the steps required to install PixuateSetup on your computer.

WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.

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Next >

Cancel

PixuateSetup



Confirm Installation

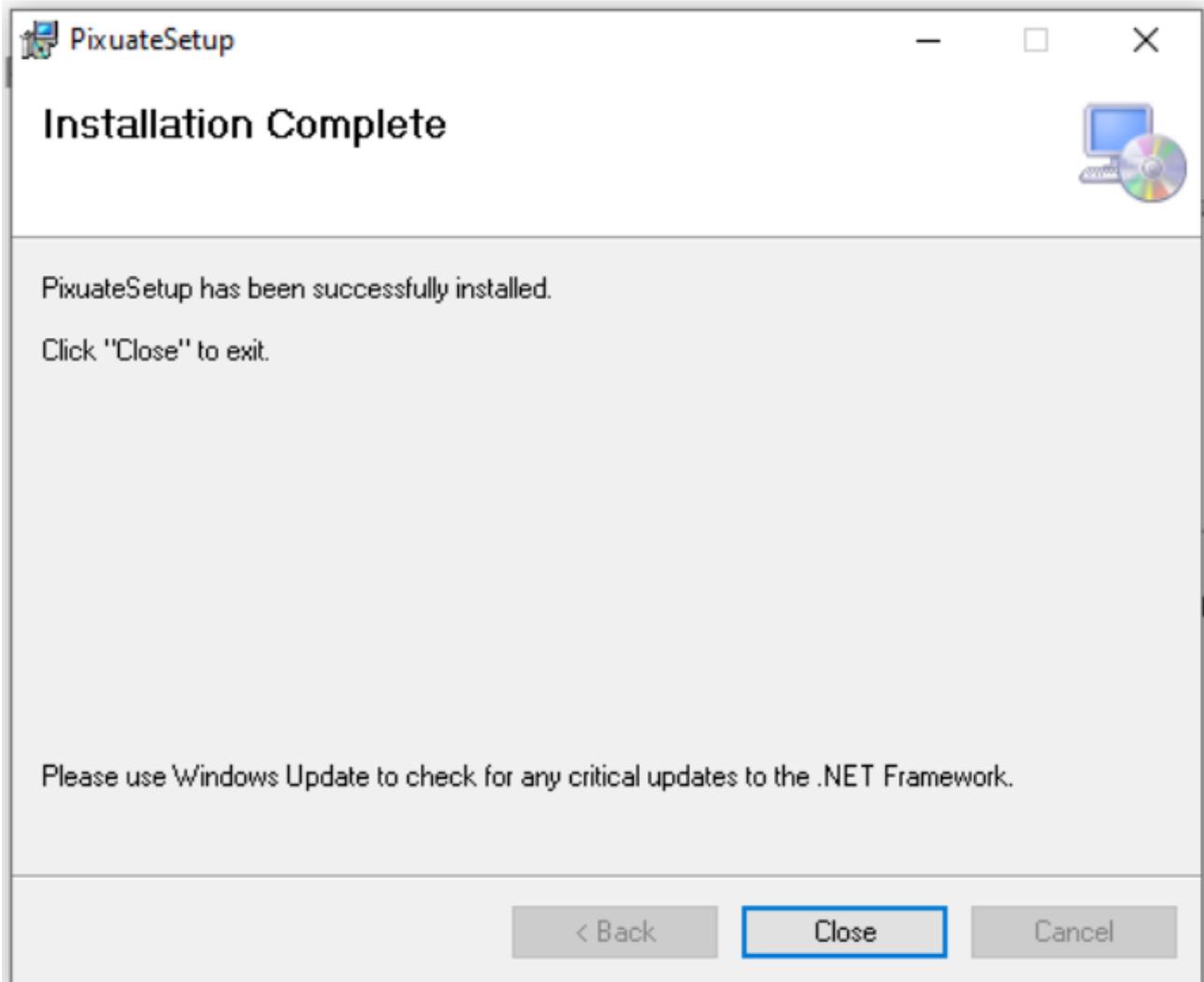


The installer is ready to install PixuateSetup on your computer.
Click "Next" to start the installation.

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Next >

Cancel



4. The Plugin DLL's and all the dependencies are installed at location C:\Program Files\Milestone\MIPPlugins\Pixuate
5. Restart both the services.
 - a. Milestone XProtect Event Server.
 - b. Milestone XProtect Recording servers.
6. Start the XProtect Smart Client and all the tabs should be visible.