



Comprehensive Video Analytics Solutions

innoVi - Immix Integration Guide

Change Log

Date	Version	Change
July 2020	1.1	Initial version
August 2020	1.2	Added health events and events format
September 2020	1.3	Changed allowlist IP



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1. Overview

This guide explains the required definitions to be made in both innoVi and Immix to enable a successful integration.

2. Immix Setup

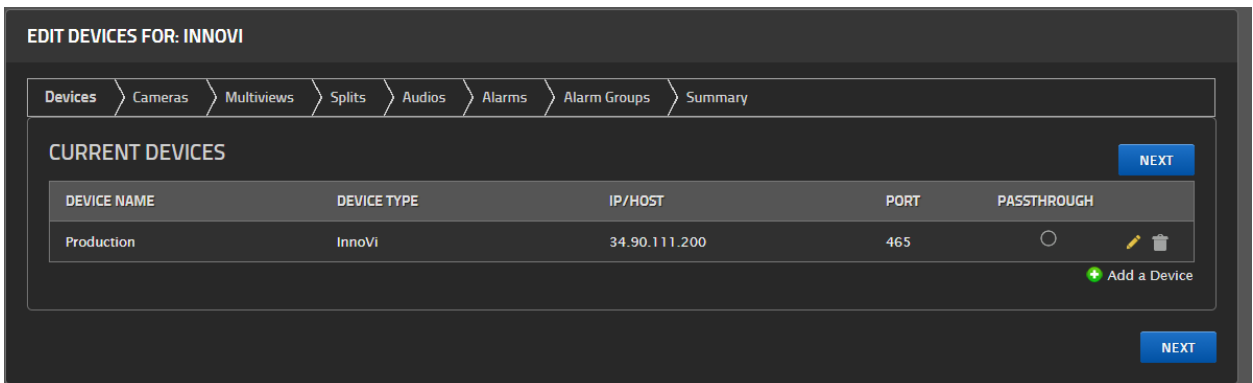
2.1 Allowlist innoVi IP addresses

innoVi sends its alarms to Immix using the following active IP address that MUST be allowlisted in Immix:

- **34.90.111.200**

The following ports are supported: **465** or **587**

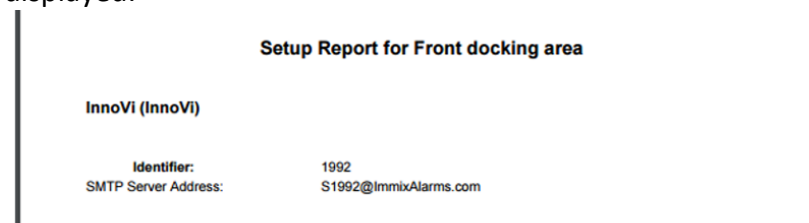
In your site, add a device with one of the supported innoVi IP address ports, device type is "InnoVi", as shown here:



2.2 Site Number

Each Immix site should have a unique System Number ('S' number) which is required to be set up in the equivalent innoVi site.

To find your relevant site number(s), select View Summary. The following window is displayed:



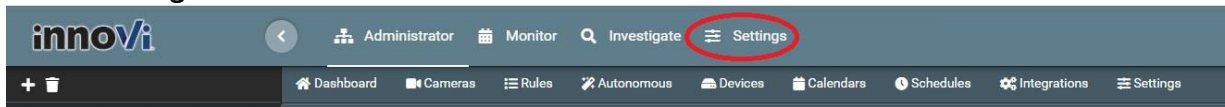
Record the displayed 'S' number shown (in this example: 1992).

3. innoVi Setup

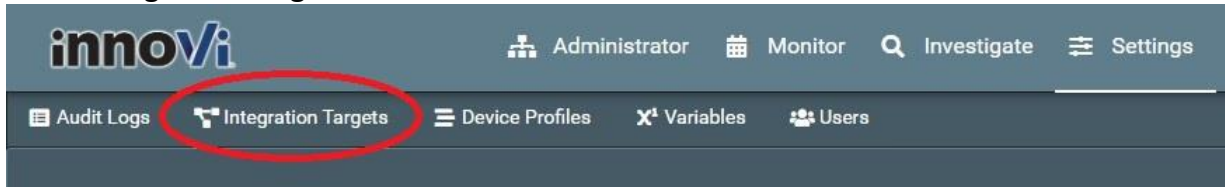
3.1 Define Integration Target

Log in to your innoVi account.

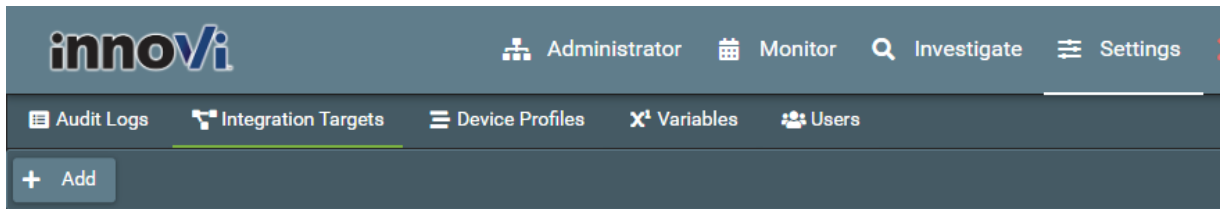
Select **Settings**



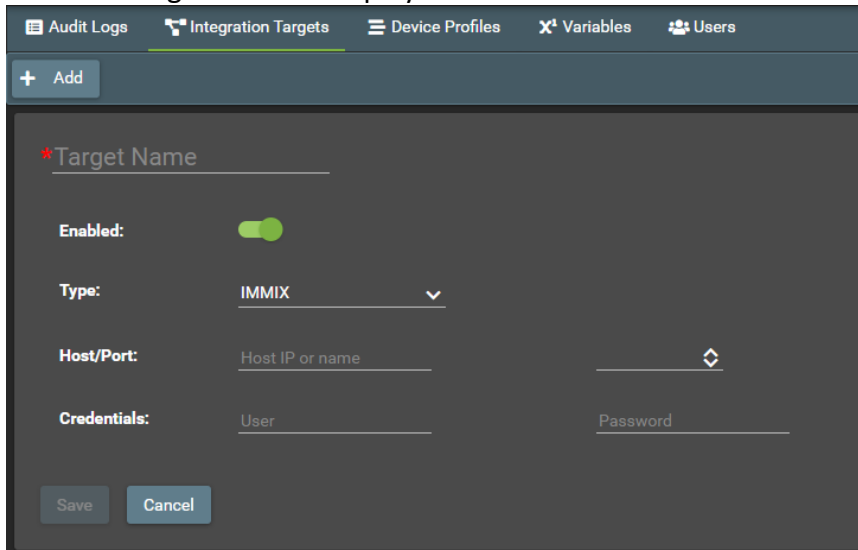
Select **Integration Targets**



Select **+ Add**



The following window is displayed:

A screenshot of the Integration Targets configuration window. The window has a dark background and a light-colored header. The header contains the same navigation items as the dashboard: Audit Logs, Integration Targets, Device Profiles, Variables, and Users. Below the header is a button labeled "+ Add". The main content area contains the following fields:

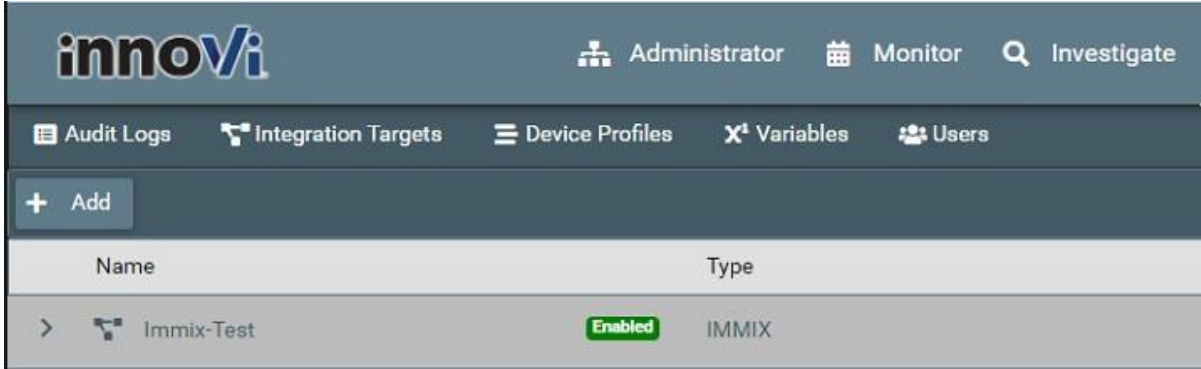
- *Target Name**: A text input field.
- Enabled:**: A toggle switch that is currently turned on (green).
- Type:**: A dropdown menu with "IMMIX" selected.
- Host/Port:**: A text input field with "Host IP or name" as a placeholder and a small icon to the right.
- Credentials:**: Two text input fields, one labeled "User" and one labeled "Password".

At the bottom of the window are two buttons: "Save" and "Cancel".

In this window, configure the Immix endpoint that will listen to the event metadata:

- Provide a **Target Name** (entered Immix-Test in this example)
- Select **Type: IMMIX**
- Enter **Host/Port** and **Credentials**
- Turn **Enabled** on
- Select **Save**

The integration target is now defined:

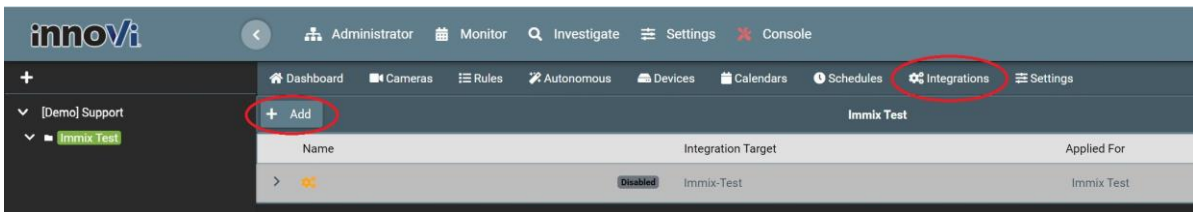


Name	Type
> Immix-Test	Enabled IMMIX

3.2 Define Integration Action

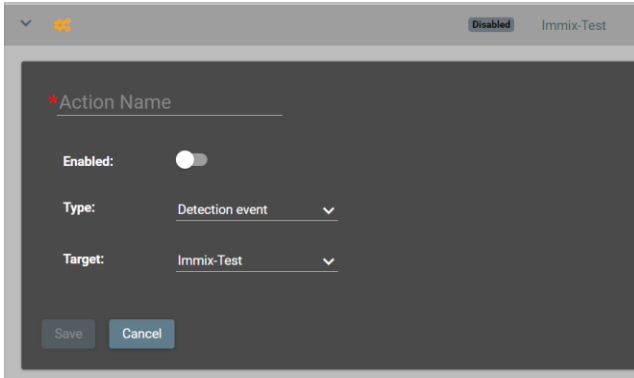
Define an **Integration Action** to be associated with the **Integration Target** you have previously defined.

Locate the folder/site with the connected cameras. This folder has a matching site in Immix. Select the folder, select **Integrations**, select **+ Add**. The integration to be added is displayed in a single line:



Name	Integration Target	Applied For
> Immix-Test	Disabled Immix-Test	Immix Test

Click the left-hand arrow under the “Name” column. The following window is displayed:

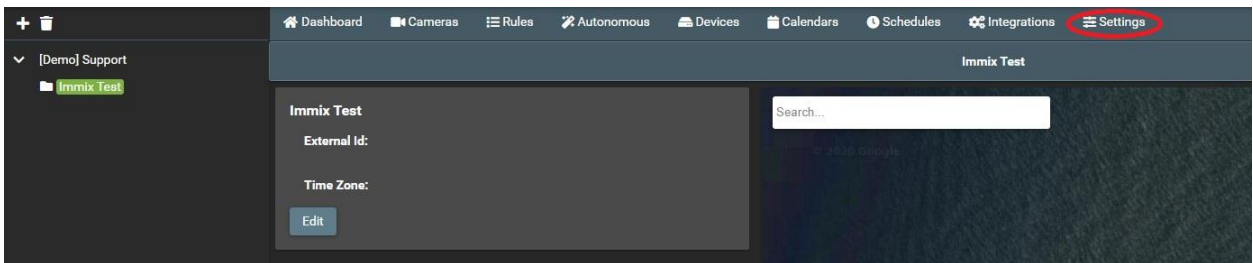


Configure the integration action with the following parameters:

- Provide an **Action Name**
- Turn **Enabled** on
- Select the event **Type**: Detection event or Health event
- Select the Integration **Target** you have previously defined (in this example: Immix-Test)
- Select **Save**

3.3 Set up immoVi folder/site

In immoVi, select the relevant folder/site, select Settings. The following window is displayed:



- Select **Edit**
- In the **External id** field, enter the **Immix 'S' Number** you have previously recorded (1992 in the above example)
- Select **Save**

4. Integration Test

Define a rule on one of the cameras, ensure events are created in immoVi, ensure the same events are successfully received in Immix

5. Events format

The following are the event types in innoVi and their appearance in Immix.

- **Detection events**

innoVi Status	Immix Status
INNOVI_UNKNOWNNS	ObjectDetected
INNOVI_UNKNOWNNS_UNKNOWN	ObjectDetected
INNOVI_UNKNOWNNS_VEGETATION	ObjectDetected
INNOVI_UNKNOWNNS_CLOUD	ObjectDetected
INNOVI_UNKNOWNNS_OBJECT	ObjectDetected
INNOVI_PEOPLE	PersonDetected
INNOVI_PEOPLE_PERSON_STANDING	PersonDetected
INNOVI_PEOPLE_PERSON_ON_THE_GROUND	PersonDetected
INNOVI_PEOPLE_PERSON_OVERHEAD	PersonDetected
INNOVI_VEHICLE	VehicleDetected
INNOVI_VEHICLE_CAR	VehicleDetected
INNOVI_VEHICLE_CAR_COMPACT	VehicleDetected
INNOVI_VEHICLE_CAR_SUV	VehicleDetected
INNOVI_VEHICLE_BUS	VehicleDetected
INNOVI_VEHICLE_SCHOOL_BUS	VehicleDetected
INNOVI_VEHICLE_MINI_BUS	VehicleDetected
INNOVI_VEHICLE_CITY_BUS	VehicleDetected
INNOVI_VEHICLE_PICKUP_TRUCK	VehicleDetected
INNOVI_VEHICLE_VAN	VehicleDetected
INNOVI_VEHICLE_TRUCK	VehicleDetected
INNOVI_VEHICLE_TRUCK_SMALL	VehicleDetected
INNOVI_VEHICLE_TRUCK_MEDIUM	VehicleDetected
INNOVI_VEHICLE_TRUCK_SEMITRAILER	VehicleDetected
INNOVI_VEHICLE_TRACTOR	VehicleDetected
INNOVI_VEHICLE_NIGHT	VehicleDetected

- **Health events – Immix format**

For sensors:

Status is:

"TamperAlarm" - in blocked/saturated/dark , or
 "VideoLoss" in all other health events

Description is one of:

"Frame rate is too low (innoVi camera ID nnnnnn)"
 "Frame rate is too high (innoVi camera ID nnnnnn)"
 "Scene is blocked (innoVi camera ID nnnnnn)"
 "Scene is saturated (innoVi camera ID nnnnnn)"

"Scene is too dark (innoVi camera ID nnnnnn)"
"Communication failed (innoVi camera ID nnnnnn)"
"General error (innoVi camera ID nnnnnn)"
"RTSP error (innoVi camera ID nnnnnn)"
"Incompatible video (innoVi camera ID nnnnnn)"
"Resolution error (innoVi camera ID nnnnnn)"
"No video (innoVi camera ID nnnnnn)"

For Edge Devices:

Status is:

"SystemEvent"

Description is one of:

"High latency (innoVi edge ID nnnnnn)"
"Overloaded (innoVi edge ID nnnnnn)"
"No comm. with cloud (innoVi edge ID nnnnnn)"

For agents (Edge software handling multiple cameras):

Status is:

"SystemEvent"

Description is one of:

"No comm. with cloud (innoVi agent ID nnnnnn)"
"High latency (innoVi agent ID nnnnnn)"



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