

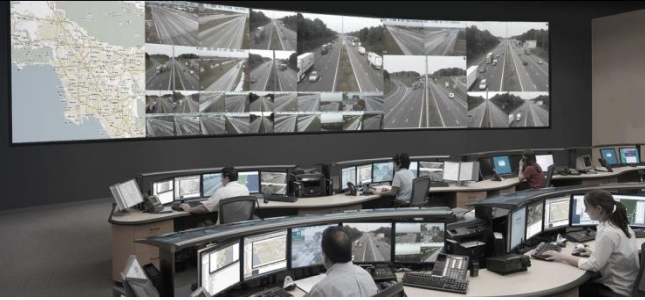
# Pelco DSConnex

Release Documentation

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A Whole World of Integration



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## 1. Introduction

The following documentation outlines the instructions and prerequisites for the device driver. It contains information instructions as well as technical prerequisites and system requirements.

## 2. Setup

### 2.1 Versions

IPSecurityCenter Version: 4.8.1 or above

Packages: CNL.IPSecurityCenter.Driver.Pelco.DSConnex.Version.4.8.X.X.ipscdriver

Currently the driver has been tested to work with Pelco Digital Sentry and Pelco DX8100, and can work with DIACAP devices.

Other hardware and firmware versions may be compatible with the device driver, however functionality cannot be guaranteed.

#### Driver Description

The driver interfaces with any Pelco device supported by the DSConnex SDK. The driver implements the following functionality:-

- Live Video
- Playback
- Video Export
- Snapshots
- Pan/Tilt/Zoom

### 2.3 Prerequisites

The DSConnex SDK which can be found here: <\\10.10.10.2\sdk\Pelco\Digital Sentry\SDK\DSConnex 7.0.70.exe> needs to be installed on client and server machines.

If the device is configured in DIACAP mode, the clients and server will need to have IPsec configured. The Pelco Client installer can do this for Windows 2000 and XP computers only. For Windows 7/Server2008, this needs to be set up manually with the authentication mode set to "Preshared Key".

## 3. Driver Functionality

### 3.1 DSConnex Server

#### 3.1.1 Properties

##### **Diacap**

Boolean – Specifies whether or not the device you are connecting to is a DIACAP device.

##### **IP**

Text – Specifies the IP of the device. This should be the IP of the device.

##### **Port**

Numeric (Whole Numbers) – For DIACAP DX8100 this needs to be set to the appropriate port as configured on the unit.

##### **Username**

Text – The username used to access the device (if there is no username/password set up on the device any data in this field is entirely arbitrary).

##### **Password**

Text – The password used to access the device (if there is no username/password set up on the device any data in this field is entirely arbitrary).

##### **Credentials**

List of computer name, username, password triplets – If the device is configured as a DIACAP device then user accounts can only be used on one client at a time. This credential list is used to map clients to their unique user accounts.

##### **System Type**

Selection – The type of device you are connecting to, possible values:

- Unknown
- DigitalSENTRY
- DSDataPoint
- DVX
- Pelco400
- Pelco8x00
- Pelco4600
- PelcoEndura

Currently we have tested this driver on a Pelco DX8100 (selection Pelco8x00) and a Pelco Digital Sentry (selection DigitalSENTRY). Other hardware types may also work, and this is where they should be specified, however functionality cannot be guaranteed.

### 3.1.2 Events

The driver does not define any custom events.

#### Online State Event

The online state event will be fire when the device changes state (e.g. Online, pending, offline etc).

### 3.1.3 Methods

The Server defines a number of custom methods for use with devices, note that given this driver is intended to support multiple devices **not all methods are supported by all devices**.

#### Start recording

Starts recording on a given camera (will carry on recording for up to 5 hours if not stopped beforehand).

##### Parameters

Camera ID – integer ID of the camera to start recording on.

Continuous – Boolean indicating whether or not recording is to be continuous, false for fixed amount of time.

Description – text description to attach to this recording.

Duration – the amount of time to record for (ignored if continuous is true)

Frame Rate – the frame rate of this recording (**not supported by all devices**)

#### Stop recording

Stops recording on a given camera.

##### Parameters

Camera ID – integer ID of the camera to stop recording on.

#### Focus Far Start

Starts focusing on far objects on a given camera

##### Parameters

Camera ID – integer ID of the camera to stop recording on.

### **Focus Far Stop**

Stops focusing on far objects on a given camera

#### **Parameters**

Camera ID – integer ID of the camera to stop recording on.

### **Focus Near Start**

Starts focusing on near objects on a given camera

#### **Parameters**

Camera ID – integer ID of the camera to stop recording on.

### **Focus Near Stop**

Stops focusing on near objects on a given camera

#### **Parameters**

Camera ID – integer ID of the camera to stop recording on.

### **Get Max Supported Cameras**

Gets the maximum number of supported cameras for this device

#### **Parameters**

none

### **Get Recorder Local Time**

Gets the local time on the device

#### **Parameters**

None

### **Iris Close Start**

Starts iris closing on a given camera

#### **Parameters**

Camera ID – integer ID of the camera to stop recording on.

### **Iris Close Stop**

Stops iris closing on a given camera

#### **Parameters**

Camera ID – integer ID of the camera to stop recording on.

### **Iris Open Start**

Starts iris opening on a given camera

#### **Parameters**

Camera ID – integer ID of the camera to stop recording on.

### **Iris Open Stop**

Stops iris opening on a given camera

#### **Parameters**

Camera ID – integer ID of the camera to stop recording on.



## 3.2 DSConnex Camera

### 3.2.1 Properties

The DSConnex camera defines 2 custom properties

#### Brightness

Integer – Defines the brightness of video on this camera from 0-63. **Not supported by all devices.**

#### Contrast

Integer – Defines the contrast of video on this camera from 0-63. **Not supported by all devices.**

### 3.2.2 Events

This device defines no custom events; the only event available is the Device Online State event.

#### Online State Event

The online state event will be fire when the device changes state (e.g. Online, pending, offline etc).

### 3.2.3 Methods

The DSConnex camera object does not define any specific methods.

## 4. Video Streaming

To view video on a DIACAP device a second account must be set up on the device corresponding to the 'Second Username' and 'Second Password' properties on the server object. This is because DIACAP devices do not allow the same account to log in from different assemblies and an account is already used by the server.

### 4.1 Live video

It is possible to stream live video feed from a selected camera. If the camera is a PTZ camera then you will be able to control this by dragging the mouse over the live video feed.

### 4.2 Playback recorded video

It is possible to stream recorded video feed from a selected camera, however due to SDK limitations on some devices it is not possible to see which time periods have video available and which do not (in these instances the timeline will allow you to seek to any time period but this may not have video available).

## 5. Video Export

Title	Details
Max Concurrent Exports	1 (per DSConnex server object)
Output File Type	xpa

### Opening an XPA file

The .xpa files will open with Integral Media Player, which comes bundled with the SDK installation. Once the SDK is installed the files should automatically open in this player, but if not can be opened from within Integral Media Player (through File -> Open...).

#### Known Issues

- On add/remove camera as the subsystem getting restarted and it is restarting the client app in the subsystem. The SDK behave in the same way and upon add/remove camera the IPSC client restart is expected to get the video feed from the re-indexed cameras.