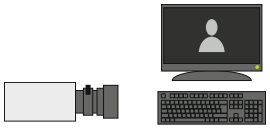
The PelcoXPortal Driver



The PelcoXPortal driver links the Pelco Endura IP video management system to North. Available for ObSys and Commanders.

This document relates to PelcoXPortal driver version 1.0

Please read the *Commander Manual* or *ObSys Manual* alongside this document, available from *www.northbt.com*

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Compatibility with the Pelco Endura System

The PelcoXPortal driver allows North to interface with a Pelco Endura IP video management system.

The driver connects, via an Ethernet network, to a client PC running the Pelco X-Portal XMI (multi-connection interface) application (Fig 1).

Via the Pelco X-Portal XMI, connected to an Endura SM5000 system manager, the driver can select a camera to display on a monitor and position a camera to a stored preset positions.

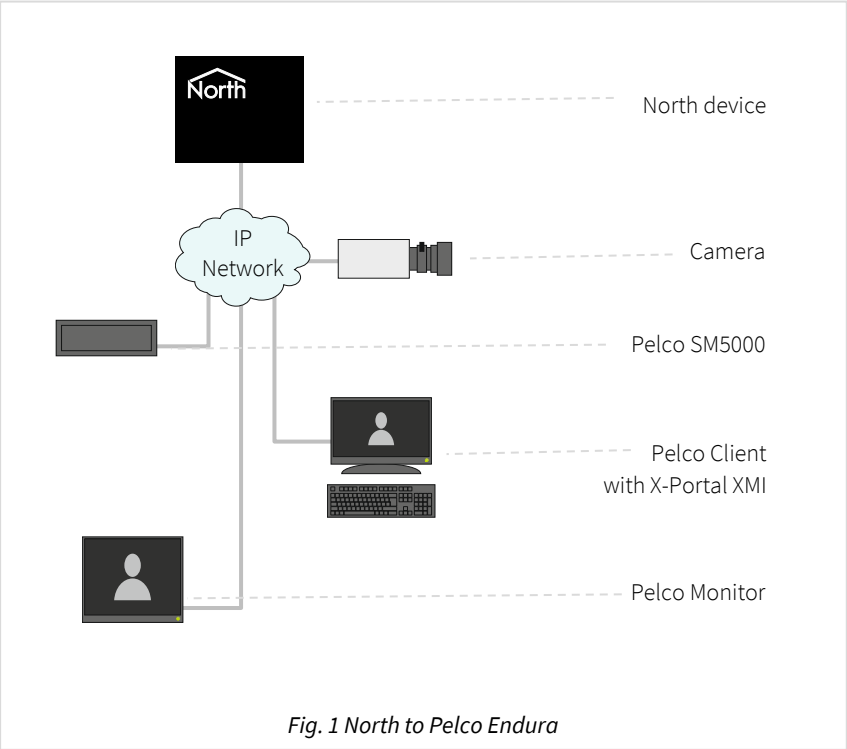

Fig. 1 North to Pelco Endura

Equipment

Pelco Endura equipment compatible with the driver includes:

- Pelco Endura SM5000 system manager

Values

The driver can typically access the following values:

- Camera preset position
- Monitor select camera
- Monitor format

Prerequisites

The Pelco X-Portal XMI should be configured to connect with a SM5000 system manager. To configure the driver, you will require the IP address of the client PC running XMI, name of the Endura system, user-id, and coded password.

To enable control of cameras and monitors, the driver must be set with the name of each camera and monitor as configured within the Endura system.

Using the Driver

On ObSys, the PelcoXPortal driver is pre-installed. On Commander, the driver is available to download in the file 'Bank15 PelcoXPortal.cdm'. On all of these North devices, you can use the driver to create an interface to Pelco X-Portal. Once started, you will need to set up the driver before it can communicate with the Pelco Endura system.

Starting the Interface

To start an interface using the PelcoXPortal driver, follow these steps:

- → **Start Engineering** your North device using ObSys
- → Navigate to **Configuration, Interfaces,** and set a unused **Interface** to 'PelcoXPortal' to start the particular interface
- → Navigate to the top-level of your North device, then rescan it.

The driver setup object (M*c*), labelled **PelcoXPortal Setup**, should now be available. If this object is not available, check an interface licence is available and the driver is installed.

Setting up the Driver

To set up the driver, follow these steps:

- → Navigate to the **PelcoXPortal Setup** object (M*c*). For example, if you started interface 1 with the driver earlier, then the object reference will be 'M1'
- → Set the **User ID** (UI), **Coded Password** (PSW), and **Endura System Name** (VS) objects for the Endura system manager
- → Set the **IP Address** (IA) object with the IP address of the client PC running X-Portal XMI
- → For each camera and monitor you need to control, set the name of the asset using the system objects - **Monitor Name** (S*c*.M*x*.N) and **Camera Name** (S*c*.C*y*.N). These are stored within the driver and should be saved to a back-up.

Object Specifications

Once an interface is started, one or more extra objects become available within the top-level object of the device. As with all North objects, each of these extra objects may contain sub-objects, (and each of these may contain sub-objects, and so on) - the whole object structure being a multi-layer hierarchy. It is possible to navigate around the objects using the ObSys Engineering Software.

Each object is specified below, along with its sub-objects.

Example Object Reference

An example of a reference to an object in the same device: the PelcoXPortal System (S1) contains Camera 1 (C1), which itself contains a Camera Preset (P). Therefore, the complete object reference is 'S1.C1.P'.

An example of a reference to an object in a different device: the IP network object (IP) contains Default Commander object (CDIP), which contains the object above (S1.C1.P') – therefore the complete object reference is 'IP.CDIP.S1.C1.P'.

Device Top-Level Objects

When an interface is started using the PelcoXPortal driver, the objects below become available within the top-level object of the device. For example, if interface 1 is started, then the object references 'M1' and 'S1' become available.

Description	Reference	Type
PelcoXPortal Setup Set up the PelcoXPortal driver, started on interface *c* (*c* is the interface number)	M*c*	Fixed Container: On the Commander platform this will be *[CDM v20\PelcoXPortal v10]* On the ObSys platform this will be *[OSM v20\PelcoXPortal v10]*
PelcoXPortal System Access PelcoXPortal system connected to interface *c* (*c* is the interface number)	S*c*	Variable Container: *[PelcoXPortal v10]*

PelcoXPortal Driver Setup

Object Type: *[OSM v20\PelcoXPortal v10]*
Object Type: *[CDM v20\PelcoXPortal v10]*

The PelcoXPortal driver contains the following objects:

Description	Reference	Type
System Label Label displayed when scanning the system	DL	Obj\Text: 20 chars; Adjustable
User ID	UI	Obj\Text; max. 30 chars; Adjustable
Coded Password Obtained from the Pelco password encoding application	PSW	Obj\Text; max. 30 chars; Adjustable
Endura System Name This must match the name configured within the Endura SM5000 system manager	VS	Obj\Text; max. 30 chars; Adjustable
X-Portal XMI IP Address IP address of the client PC running XMI application	IA	Obj\IP; Adjustable

PelcoXPortal System

Object Type: *[PelcoXPortal v10]*

The PelcoXPortal system contains the following objects:

Description	Reference	Type
Monitor *x* The Monitor address, x, is a number in the range 1…32	**M*x***	Fixed Container: *[PelcoXPortal v10\Monitor]*
Camera *y* The Camera address, y, is a number in the range 1…640	**C*y***	Fixed Container: *[PelcoXPortal v10\Camera]*

Monitor

Object Type: *[PelcoXPortal v10\Monitor]*

A Monitor is a monitor within Pelco's Endura System. Set the Monitor Name (N) object to match the name of the monitor configured within the Endura system you wish to control.

A Monitor object contains the following objects:

Description	Reference	Type
Monitor Camera Select which camera to display on the monitor	**C**	Obj/Num: 1…640; Adjustable
Monitor Name Set to the monitor's name as configured in the Pelco Endura system. This value is stored within the driver.	**N**	Obj/Text: 32 char; Adjustable
Monitor Format	**F**	Obj\ENum; Adjustable Values: 0=Unknown, 1=Single, 2=Quad, 3=Nano, 4=Hex

Camera

Object Type: *[PelcoXPortal v10\Camera]*

A Camera is an IP camera within Pelco's Endura System. Set the Camera Name (N) object to match the name of the camera configured within the Endura system you wish to control.

The Camera contains the following objects:

Description	Reference	Type
Camera Preset Moves the camera to a preconfigured preset position	**P**	Obj/Num; Adjustable
Camera Name Set to the camera's name as configured in the Pelco Endura system. This value is stored within the driver.	**N**	Obj/Text: 32 chars; Adjustable

Driver Versions

Version	Build Date	Details
1.0	29/10/2010	Driver released
1.0	22/01/2015	Increased number of cameras to 640. Reworked TCP/IP comms

Next Steps…

If you require help, contact support on 01273 694422 or visit *www.northbt.com/support*

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Document issued 06/10/2020.