# exacqVision® XBR Interface

The *exacqVision XBR* (evXBR) interface allows an operator to easily view stored video from a camera and time determined by the *Datavantage XBR* retail analytics software.

## 1    Requirements

evXBR operates using the command line interface to the exacqVision Client (http://www.exacq.com/reseller/eV-CLI.pdf).  Therefore, it is required that you have exacqVision Client version 2.6 or higher installed on the workstation on which video is to be viewed.  Presently, evXBR.exe and evXBR.xml must be located in the same directory as the exacqVision Client for proper operation.

It is also required that the exacqVision Client be configured with the IP address and a valid username and password for each exacqVision Server from which evXBR will retrieve video.  In this way, passwords do not have to be stored or passed in plain text into evXBR.

**NOTE:**  If the evXBR specifies an exacqVision Server IP address which has not been configured on the Add Systems page of the exacqVision Client, that server will not be connected and the search operation will stall.

## 2    Operation

evXBR takes command line parameters from the XBR software.  The parameters passed to evXBR on the command line are:
- -s  IP address of exacqVision Server on which desired video is stored.
- -p  TCP port number of the exacqVision Server.  Defaults to 22609 if not present.
- -c  Camera number for desired video (see note below).
- -d  Date (MMDDYYYY).
- -b  Begin time of desired video (HH:MM:SS).
- -e  End time of desired video (HH:MM:SS).

From these parameters, evXBR creates an XML file that conforms to the ev-CLI protocol. evXBR writes this file into the exacqVision Client directory, and then starts the exacqVision Client with the following command line:

    edvrclient -FeVCmdLine.xml

**NOTE:** The XBR command line specifies the desired video as a camera number.  In the ev-CLI, camera number alone indicates an analog input.  Because IP cameras do not have such a well defined physical input to number mapping, the ev-CLI requires IP cameras to be specified by either name or by IP address and input number on the IP device (e.g. on a quad input encoder).  To map the camera number provided by XBR to the video input parameters required by ev-CLI, a configuration file is used.  The configuration file is in XML for standards-based, human readable editing.  This file is named evXBRConfig.xml and **must be located in the same directory as evXBR.exe**. See below for an example of the configuration XML.

## 3   Options

These attributes may be specified on the same line as the <Config> tag in the evXBRConfig.xml file.

- ▪ Top – Top of the client window in desktop coordinates. (Integer)
  Defaults to mouse cursor position if not specified.

- ▪ Left – Left of the client window in desktop coordinates. (Integer)
  Defaults to mouse cursor position if not specified.

- ▪ Width – Width of the client window. (Integer)
  Defaults to 392 pixels if not specified.

- ▪ Height – Height of the client window. (Integer)
  Defaults to 377 pixels if not specified.

## 4   Example

An example of the evXBRConfig XML file is:

```
1   <?xml version="1.0" ?>
2   <Config Width="392" Height="377">
3       <System IPAddr="66.162.54.82">  <!-- Exacq Hybrid server -->
4           <Camera Number="1">
5               <Input Name="TV">       <!-- Analog camera specified by name -->
6               </Input>
7           </Camera>
8           <Camera Number="2">
9               <Input Number="5">      <!-- Analog camera specified by number -->
10              </Input>
11          </Camera>
12          <Camera Number="3">         <!-- IP camera specified by name -->
13              <Input Name="Panasonic NS202">
14              </Input>
15          </Camera>
16      </System>
17      <System IPAddr="66.162.54.84">      <!-- Exacq Axis server -->
18          <Camera Number="1">
19              <Input Name="221 - Front">  <!-- IP camera specified by name -->
20              </Input>
21          </Camera>
22          <Camera Number="2">
23              <!-- IP camera specified by IP addr and input number -->
24              <Input Device="192.168.100.227" Number="1">
25              </Input>
26          </Camera>
27      </System>
28  </Config>
```

**NOTES:**
- Line 1 - The xml prolog is required.
- Line 2 - Top and Left are not specified in this example, so the video window will open in the lower right of the desktop.
- Lines 5 and 19 - The exacqVision input may be specified by name for analog or IP cameras.
- Line 9 – The exacqVision input for analog cameras may be specified by input number alone.
- Line 24 – The exacqVision input for IP cameras may be specified by IP address of the camera and input number (one-based).  This number could be more than one on a multi-input input encoder