DSX DVR/NVR Configuration

Overview

WinDSX has the ability to integrate with different DVR/NVR systems. This integration allows stored and live video from the DVR/NVR to be accessed within the DSX software. All video is transmitted across a Local Area Network connection.

Operation

Real time video can be automatically displayed in response to alarm events. Additionally the operator can request real time and stored video from the alarm acknowledgement screen or from any input/output or camera icon.

Recorded Video can also be viewed while running a History report. Simply highlight the event you would like to see the video for and click the "Show Video" button. The system will find the video that matches the event time and date and display it on screen.
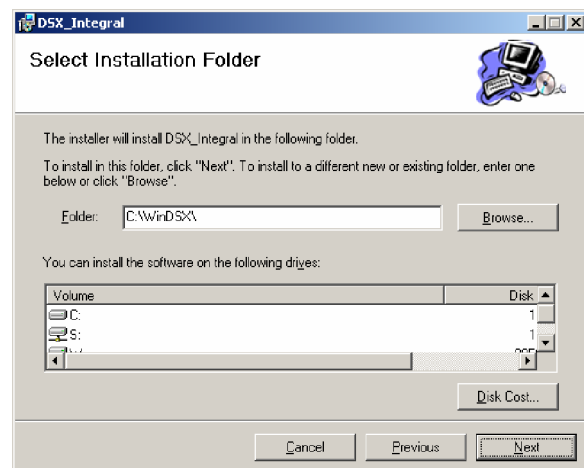
Installing the DVR/NVR Driver

Each of the DVR/NVR Drivers are slightly different. The following instructions work for most all drivers.

1. Copy the files from the Driver Disk into the WinDSX folder on each PC you want to access the DVR. There are different folders for each different driver. In the folder there may be a text file that gives details and instructions particular to that driver. Be sure to follow these closely.

2. To install the driver navigate to the "DSX_?xyz?.msi" file in the WinDSX folder where you copied it to and double click. Click on Next to begin the process.
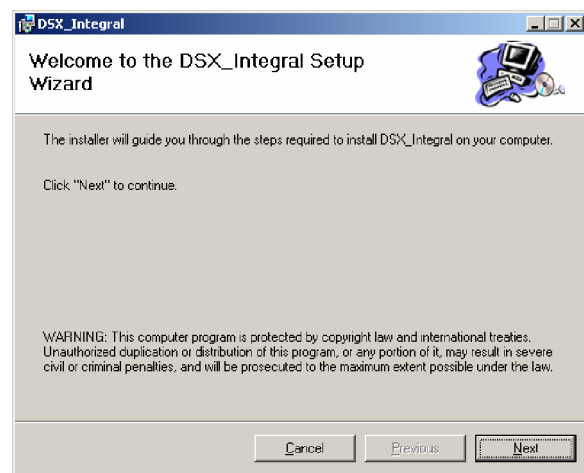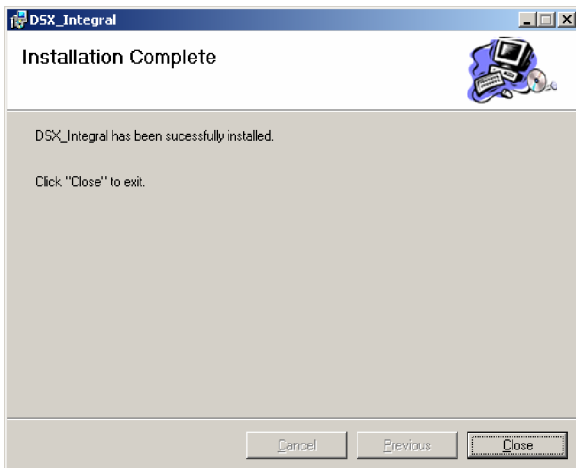

3. Select the WinDSX folder or the folder where the WinDSX software is installed on this PC. Click on Next.

4. Click Next on the Installation Confirmation screen.
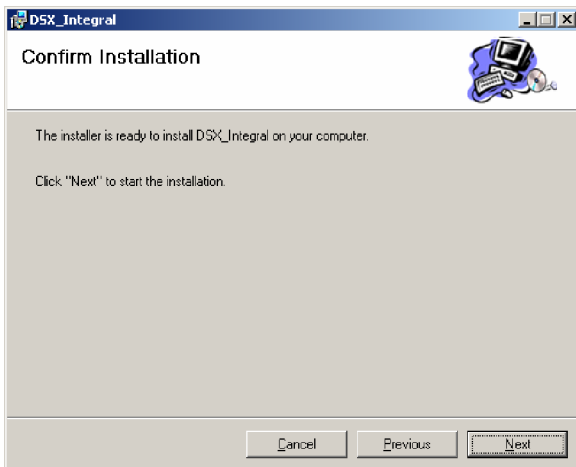
5. The installation progression screen is shown next. Once the install is complete click on Close.


Note/// The driver must be installed on each PC you want to access the DVR/NVR Server.

6. The DVR/NVR Integration feature requires a USB Software Features Key and the Software Key Monitor program. Next are the Instructions for the USB Software Key.

USB Software Key

The USB Software Features Key is used to enable the WinDSX SQL Software, Hot Swap Redundant Comm Server feature, Live (DSX) Image and Signature Capture, and DVR/NVR integration. The KeyMon.exe program and the USB Key need only to be installed on a single PC in the System for the software or enabled features to be functional on all PCs running WinDSX.
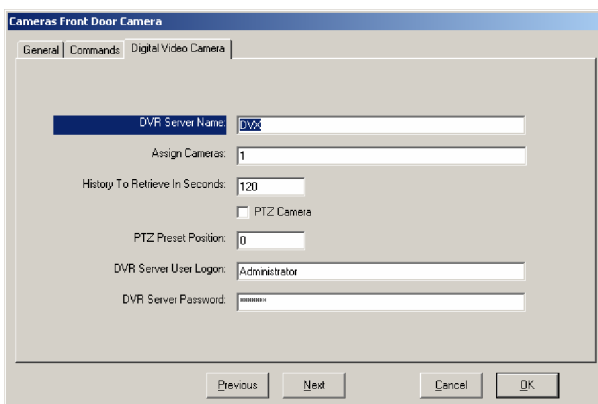
1. Select which PC will have the USB Key installed and will run the Software Key Monitor program. Consider that the program must be running at all times and the USB Key must be installed and recognized at all times for the protected software and features to operate properly and fully. The old Image Key used in older badging systems must now be replaced with the USB Software Key and the Software Key Monitoring program. There can only be one USB Software Key in a system. The Key can be modified in the field to incorporate new features.

2. Locate the HDD32.exe in the WinDSX Folder on the PC where the USB Key is connected. Double click on the HDD32.exe to begin the install. Click Next, then Finish on the Wizard pop up screens. The system will return a message indicating the installation was successful.

3. Plug the DSX USB Software Key into a free USB port on the Computer of choice.

4. From the WinDSX folder on the same PC that the USB Key is installed and where the HDD32.exe was just loaded find the KeyMon.exe and run it. Once the Software Key Monitor program finds the USB Software Key, the KeyMon program will display a screen like the one shown below on this page. To Close KeyMon click once on the small X in the top right corner of the status screen.
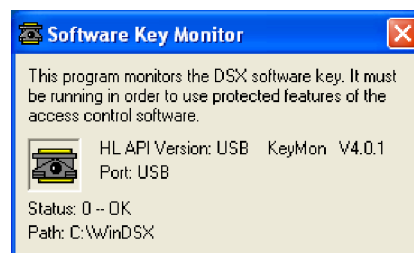
5. The KeyMon program must be started each time Windows is started. Double clicking on the executable from Windows Explorer can start the Key Monitor Program - KeyMon.exe. The KeyMon.exe can also have a shortcut created so that it is launched from the Windows Desktop before the WinDSX program is started. The KeyMon shortcut can also be placed in the Windows "Startup" if desired. In later versions Keymon can be run as a Service just as Comm Server can.

Configuring WinDSX for DVR/NVR Integration

1. Under Location select Camera and click on the Add button (blank page) in the toolbar.

2. **Enter the Number** of the Camera. This is a number that is only used by the WinDSX software and has no relation to the camera number on the DVR. It could be the Camera number on the DVR or any arbitrary number.

3. **Enter the Name** of the Camera or Cameras this particular interface is to represent. The name should be descriptive of the view that this camera selection will deliver.

4. **Skip the Comm Port** entry as it is not utilized with DVR/NVR communications. WinDSX interfaces with the DVR/NVR over a Local Area Network connection.

5. **Enter the List Order Number** which is the order that these Cameras are to be listed in the Camera window of the WinDSX Workstation program.

6. Skip Select an Output.

7. **Select an Icon** to represent the DVR Camera in the Workstation Program.

8. **Select the camera type** which is the type of DVR/NVR that WinDSX is communicating with.

9. Select the Digital Video Camera Tab.

10. **Enter the DVR Server Name**. This is the DNS name or the TCP/IP address of the Digital Video Recorder. This name or address is how the unit is "Known" on the PC Local Area Network.

11. **Enter the DVR/NVR Camera Numbers**. The Camera as defined in the WinDSX system can be multiple Cameras or just a just a single Camera on a Digital Video Recorder. This means that each camera on the DVR/NVR could be independently defined in WinDSX for unique and individual control or a select group of cameras on the DVR/NVR could be defined as just one Camera in WinDSX for group display and control. A camera could also be defined more than once in WinDSX. For example, a PTZ camera could be defined multiple times with different PTZ presets for different viewing angles.

This is a comma-separated list of all Cameras that should be associated together. For Example: 1,3,6,8 in this field instructs the system to pull up video from cameras 1, 3, 6, and 8 when this camera is selected in WinDSX.

12. **Enter the History to Retrieve in Seconds.** This is the amount (in seconds) of the stored video that should be displayed. If you enter 120 seconds and you request stored video that is associated to an alarm event you will receive 60 seconds before the event and 60 seconds after the event. This time is always split in to half. One half of the time before the event occurs and one half of the time after the events occur. No more than 5 minutes or 300 seconds.

13. **Select PTZ Camera** if this camera has Pan, Tilt, and Zoom capabilities. If there are multiple cameras defined here then this applies to only the first camera in the list.

14. **Enter the PTZ Preset Position**. Enter the preset position for this PTZ camera that describes the position this camera should be in when live video is requested. Preset position only applies to the first camera in the camera list.

15. It is possible to define this PTZ camera more than once in the WinDSX software; each time with a different PTZ preset position. This would allow the same camera to be accessed multiple different ways from within WinDSX. Through one camera icon the PTZ camera would be sent a particular Preset (look at the front door) and through a different icon the same camera would be sent a different Preset (look at back door).

16. **Enter the DVR/NVR Server User Logon**. If the DVR/NVR uses a Logon enter it here. Consult the manufacturer of the DVR/NVR system for more details.

17. **Enter the DVR/NVR Server Password**. If the DVR/NVR uses a Password enter it here. Consult the manufacturer of the DVR/NVR system for more details.

Configuring Inputs for the DVR

By associating a camera with an Input, Live and/or Stored video from a DVR/NVR can be displayed through History Reports, automatically upon alarm, and manually from Inputs within the Workstation program.

1. To configure an input (alarm point) to automatically call a DVR/NVR Camera from the Alarm Acknowledgement screen, edit the input, select the *Options Tab* and enable ***Display Camera on Alarm***. (this is optional)

2. Click on the *Icons/ASCII Out Tab* and **Select the Camera to be associated with this Input**. When the Input is selected in the Workstation program, video from the camera can be accessed by right clicking on the Input and selecting Live or Stored Video from the Command Menu.

Configuring Outputs for the DVR/NVR

By assigning a Camera to an Output 1 under *Outputs* an association is created that links the DVR to Access Granted and Denied Events from both the Workstation Alarm and Monitor Windows and Recorded Video from History Reports.

1. To assign a Camera to an Output, edit the output 1 of choice and select the *Options Tab.* Then **Select the Camera to be associated with this Output**.