

14 ? Digital Video Recording (DVR)

Integral DVR Interface

Interfacing with the Integral DVR system requires the following steps:

1. Installing the Integral program.
2. Configure the Integral program.
3. Enabling the Integral interface in System Galaxy.
4. Set up the Integral options in System Galaxy.
5. Program Readers/Inputs to interface with Integral DVR.
6. Set Time Synchronization between Loops and Integral DVR.
7. View Events with DVR Images.

Important: When you are registered to use a DVR program with SG, the SG Autoload does not load date and time. The Communications Server is not controlling the data/time for the loop, it is driven by the DVR's server.

Installing the Integral program

The Integral installation is provided with the Integral DVR System. Please refer to that system's documentation for installation instructions.

Configure the Integral program

Instructions for configuring the Integral DVR System are included in the Integral DVR documentation. To interface with System Galaxy, make note of the following configuration settings:

- You must add an Administrative level user into the system, and record that user name and password to be entered into the System Galaxy programming.
- You must make note of the IP Address of the DVR unit.
- You must make note of the camera names assigned in the DVR unit.

Enabling the Integral interface in System Galaxy

In the Registration screen of System Galaxy, there is a checkbox under "General Features" that is labeled "Integral DVR". Contact Galaxy Control Systems to enable this feature.

Every workstation that is connected to a loop that interfaces with the DVR must have this feature enabled.

Set up Integral options in System Galaxy

When the Integral registration option is enabled, there is an additional tab in the Workstation Options (Configure >> Options >> Workstation Options) titled "Integral DVR Settings".

Each Integral DVR unit that will interface with System Galaxy must be added in this window. To add a Integral DVR unit, follow these steps:

1. Click the Add button
2. Enter a name for this DVR unit. (The ID number is automatically assigned)
3. Enter the IP address of the DVR. If using DHCP, enter the NAME of the DVR as setup in the Integral DVR Software. Also enter the IP port number - the default number is 18772. If this number is to be changed, it must be changed in both the Integral and SG software.
4. Enter a valid User Name and Password as set up in the Integral DVR software – repeat the password in the "Confirm Password" field.
5. Click Apply.
6. Click OK to close the workstation options, then restart SG.

Repeat this process for each DVR unit.

If a particular workstation should not have access to the DVR system, you can change the following registry setting to 0 on that workstation:

HKEY_LOCAL_MACHINE\Software\Galaxy Control Systems\System Galaxy\Integral\DVR Enabled

When SG is restarted, GCS Integral DVR Control opens automatically, but minimized. The server settings displayed are those of programmed in the workstation options.

Set Time Synchronization

A Integral DVR unit connected to a given loop can be used to set the time of the controllers in that loop to match the unit, ensuring that events and images are synchronized.

To set up this synchronization, open the Loops Properties window (Loops button or Configure >> Hardware >> Loops). For each loop with a DVR unit:

1. Click the Edit button
2. Use the "Synchronize with Integral DVR" drop-down to select the DVR unit name.
3. Click the Apply button.

System Galaxy will pull down the date/time stamp from the Integral DVR unit and pass that stamp on to the controllers every time you connect, then once every hour.

Program Readers/Inputs to Interface with Integral DVR

On the Reader and Input windows, there is an additional tab that appears when the Integral DVR option is enabled in registration. That tab, DVR settings, controls the interface between the device and the DVR with the following settings:

Integral DVR: Select the DVR that controls the camera related to the selected input or reader.

Integral Camera: Select the camera (by name) that relates to the selected input or reader.

Preset: This is a preset number, programmed through the Integral system, that controls the automatic Pan-Tilt-Zoom (PTZ) on the selected camera.

Note: If you only intend to view the Integral camera by right-clicking in the Hardware Tree (selecting "View Integral Camera") to view the associated camera, you do not need to program the remaining options. The remaining options are used to trigger recording by the DVR using reader events.

Record Seconds: Set the number of seconds of video that should be recorded when the selected input or reader is activated.

On the Readers window, place a check next to the door events that will trigger event recording by the DVR.

On the Inputs window check this **Record Alarm Events** checkbox to enable the automatic recording of any armed alarm event that happens at the specified input or reader

View Events with DVR Images

To view events that have associated DVR Images, run the Activity History Report (View >> Reports >> Activity History). After programming the settings of the report, check the DVR View checkbox at the bottom of the window. When you click "View Report" button, a view window will open. You can select any event that is associated with a DVR camera and right click to view video stored during the time of the alarm (within a two minute window).

To view live or stored video directly from the Integral DVR system, open the minimized DVR interface from the bottom of the screen. Select the camera to view. To view live video, check the Live Video check box (checked by default).

To search for stored video, search by the date and time. The list of video images will populate, then you can select the video you wish to view. Click Play to view.

If you are viewing live video over a low-bandwidth connection, you can use the Live Video Throttle option to slow-down the video stream. This option does affect System Galaxy and the stand-alone viewer.

Note: Any changes to the server settings (other than Live Video Throttle) made in this window do not affect the settings in System Galaxy.