



I2 - RECORD

RECORDING/PLAYBACK CAPABILITIES SUITE OF MODULES

DESIGNED FOR ATC MANAGEMENT APPLICATIONS

RUNNING UNDER LINUX AND WINDOWS OS



GENERAL DESCRIPTION

I2-Record is an extremely versatile and robust application allowing users to capture and record all screen activities as videos (with sound if required) in a variety of formats. The application works under Linux or Windows Operation system.

I2-Record supports legacy hardware (HP_UX, Solaris, etc.), and most video cards. It allows simultaneous recording of multiple screens attached to a single computer.

For an ATC incident investigation, the highly customizable easy to use UI module provides the investigator the ability to compare and display multiple screens simultaneously. It provides fast forward to the time of interest, frame-by-frame playback, saving single frames as images, etc.

I2-Record allows a great deal of customization via its own Configuration Manager module.

The general schematic of the recording system is displayed in Figure 1 General schematics of the I2-Record application.

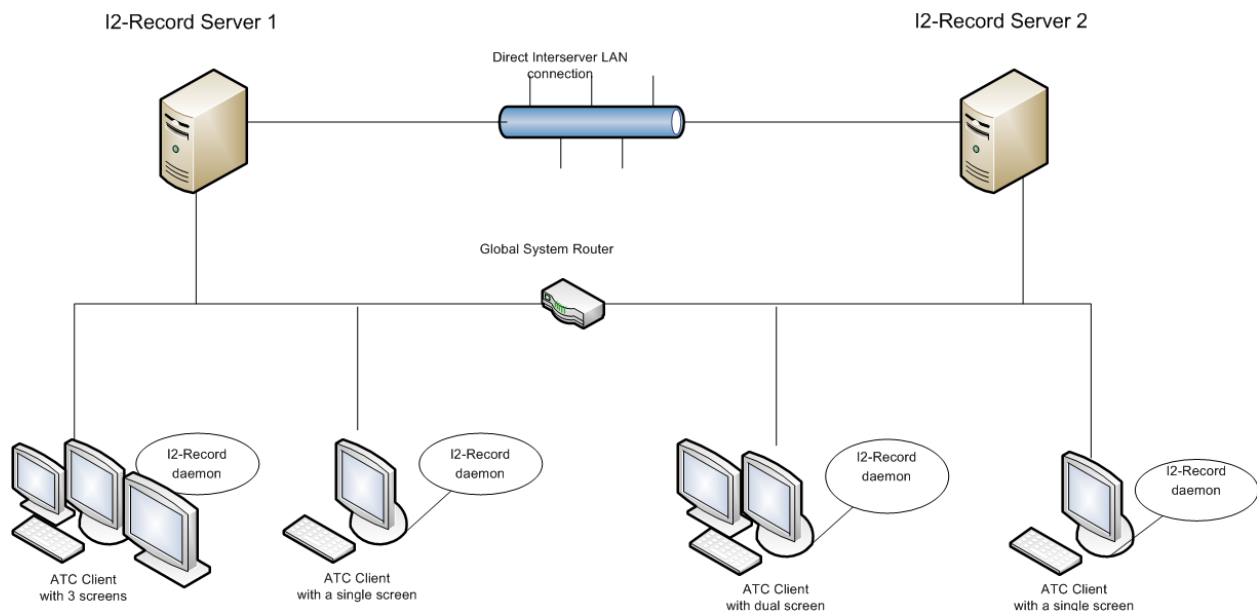


FIGURE 1 GENERAL SCHEMATICS OF THE I2-RECORD APPLICATION



I2-RECORD CONFIGURATION MANAGER

The Configuration manager's User Interface provides the capability to customize almost any aspect of the application, from selecting which screens simultaneously connected to the CUP should be recorded, to selecting the video format for each screen, to setting the size of the output files, etc. The Configuration Manager is also used to specify the audio source to be included in the recording (microphone, speakers, MIDI, etc.)

I2-RECORD FEATURES

DUAL REDUNDANCY

The application provides dual redundancy using the OS-based task management technology. It is also achieved by using a distributed data base technology.

VIDEO AND VOICE SYNCHRONIZATION

I2-Record allows for synchronization with controllers' Comm systems (provided that the audio recordings are in recognized audio format).

VIDEO FORMATS

Using the Configuration Manager's User Interface, the system can be configured to save the recordings in the following formats:

- MKV
- MP2, MP3, MP4
- MPEG-1
- MPEG-2 PS



- MOV
- MPEG
- AVI

SIZE OF THE OUTPUT FILES

One of the great advantages of the I2-Record over its competitors is its ability to minimize the sizes of recorded files without compromising their video and audio quality. For example, recording video and audio on one 1920x1080 screen, running SMGCS software product with average load, continuously for 45 days, requires under 1 Tb (~1000 Gb) of storage, or approximately 0.25 Mb / second.

SEPARATE VIDEO AND AUDIO STREAMS

I2-Record can be configured to record video and audio streams into separate files. If desired, these files may be synchronized later to produce a single file.