

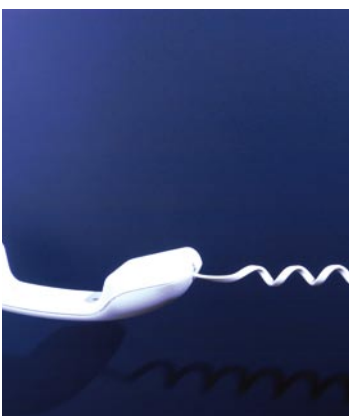
# SMARTWORKS™ SOFT RECORDER

SOFT RECORDER MODULE

## Standard Features for

### Soft Recorder

- IP coders: G711, G723.1, GSM, G.722, G.729a
- Media format: G711, G723.1, GSM in both raw and WAV format.
- DTMF Tone Detection
- AGC on each RTP stream
- Programmable jitter buffer
- Streaming to buffer
- Automatic Termination of recording

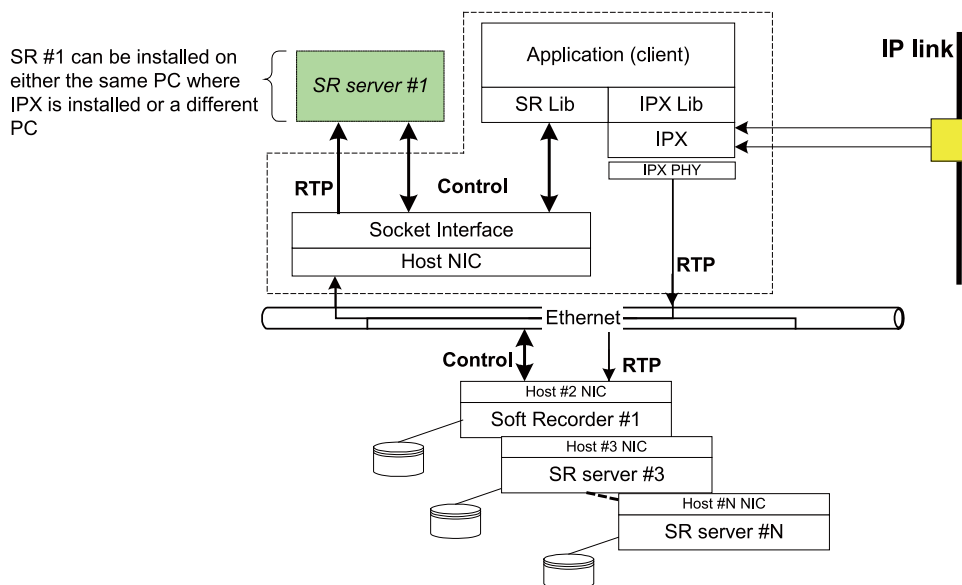


Since 1991, Ai-Logix has designed boards used in interactive and passive telephony applications. With global support for all types of telephone and radio systems - analog, digital, and enterprise PBXs, Ai-Logix products have set a new world standard in telephony communications. A single API, combined with event driven reporting simplifies application development by providing one standard for all types of networks.

SmartWORKS™ Soft Recorder Module (previously called Soft Recorder) is a software component running with the AudioCodes IPX-C board to form a complete VoIP recording solution. The recording module is implemented with HMP technology that takes the advantage of the unused CPU processing load on a high performance CPU.

### Architecture benefits

SmartWORKS™ Soft Recorder Module is designed around client/server architecture where the client is the application who requests the recording service and the server who provides the service is the recording module. The client/server software architecture is a versatile, message-based and modular infrastructure that is intended to improve flexibility and scalability as compared to centralized and time sharing processing. A single machine can play both roles as a client and a server depending on the software configuration. That is, both application and the recording module can be loaded onto one machine. Further more, the client can be served by multiple recording servers.



## Key Features and Benefits

### Scalability

The modular design makes both system density and cost very scalable from low to high density. The architecture allows for a low density system which can grow to a higher density product. The customer pays as the system grows.

### Configuration flexibility

The recording module does not have specific hardware requirements. The application developer can select their platform and system configuration according to their target system throughputs, price range, and available space.

### Sure prediction of the system performance

The recording modules' performance benchmark is specified with CPU usage on a given load. On a given recording server, the performance can be easily predicted.

### Building a high availability system

A high availability system can be built easily and cost effectively by using one standby recording module for other active recording server on the system (1 for N redundancy).

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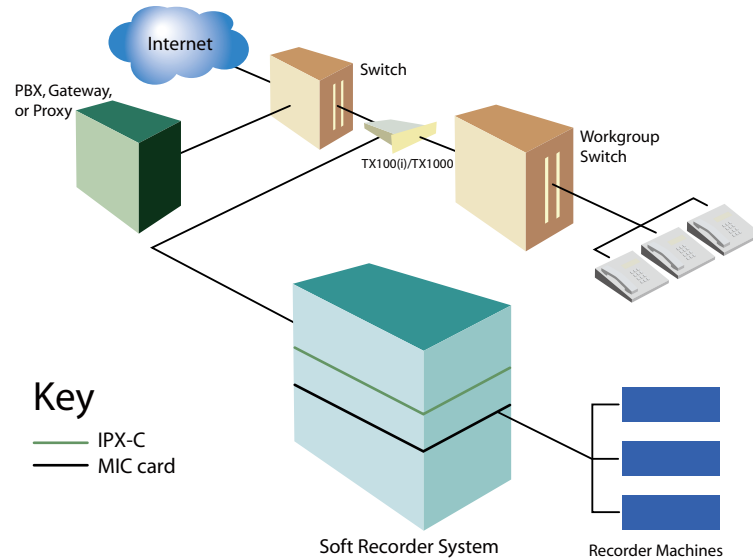
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## SmartWORKS™ Soft Recorder Application Model



### HARDWARE REQUIREMENTS

Pentium D or equivalent · 3.4 GHz CPU , 1 Gig RAM or better

### OPERATING SYSTEMS

Windows 2000, Windows XP, Windows 2003 32 bit

### IP INTERFACE

Designed to support RFC 3550, 3551

### IP TRANSCODER

G.711 A/mu law, G.723.1, GSM, G.729a, G.722

### JITTER BUFFER

Programmable jitter buffer schema

### MEDIA RECORDING FORMAT

RAW, WAV file formats PCM, ADPCM, G.711, G.723.1 & GSM, G.729a, G.722

Sample rate: 8000 kHz

### SDK

SmartWORKS Recorder API · License Key Utility

### DTMF TONE DETECTION

DTMF digits: 0 - 9, \*, #, A, B, C, D · Primary & Secondary stream - out-of-band RFC 2833, & in-band Bell 506

### AUTOMATIC GAIN CONTROL (AGC)

Programmable AGC automatically equalizes both streams of a full-duplex conversation

### RECORDING TERMINATION

Automatic stop record upon maximum time and silence detection (programmable per session) Also automatically responds to a disk I/O error.

### CPU PERFORMANCE (WITH TEST APPLICATION)

20-25% load for 64 G.711 recording sessions (2 RTPs, summing and record)

50-55% load for 64 GSM recording sessions (2 RTPs, summing and record)

Performance measured on Pentium D · 3.4 GHz CPU , 1 Gig RAM

Recording performance for others: TBD