



# Net-Log Audio Logger **User Handbook**









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Sonifex Ltd, 61, Station Road, Irthlingborough, Northants, NN9 5QE, England.

Tel : +44 (0)1933 650 700 Fax : +44 (0)1933 650 726 Email : sales@sonifex.co.uk or technical.support@sonifex.co.uk Web : http://www.sonifex.co.uk

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OR Fax to

Net-Log User Handbook

Northants NN9 5QE

United Kingdom

found on our website

+44 (0)19333 650726 www.sonifex.co.uk/netlog



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In order to register the date of purchase so that we can keep you informed of any design improvements or modifications, it is important to complete the warranty registration document that is enclosed and return it to Sonifex Ltd in the UK, or register online at www.sonifex.co.uk/register

For your own records you should write down the serial number (which can be found on the rear of the Net-Log) and software versions (which is found in the About menu screen of Net-Log-Win, which is accessed via the help menu).

Serial Number	
Net-Log-Win Version	V
Net-Log-Win Play Filter Version	v
Net-Log Base Version	v
Net-Log Version	V



#### **Reporting Software Bugs**

Whilst every effort has been made to ensure that the Net-Log-Win software is bug-free, it is possible that there are bugs in the software. If you find any bugs, please report them to Sonifex because it helps us to improve the quality of the product and we will usually be able to issue another version of software onto the Sonifex website for you to download and upgrade your Net-Log.

Report any bugs by email to: netlog.support@sonifex.co.uk

When you report a bug, please add the following points:

- The Net-Log serial number, the Software versions, and the License status you are using. All of which can be found in the About menu screen (Figure 11.7).
- If the bug is associated with Audio timing or data please include the data from the audio header screen (Figure 11.5)
- A contact who we can get in touch with regarding the problem, together with a reply email address.
- What you were doing when the bug occurred.
- What actually happened, in as much detail as possible.
- What you think the problem was caused by.

The more information you include, the easier it is to find the bug and cure it so please add as much information as you can.

#### **Unpacking the Net-Log**

Each Net-Log is shipped in protective packaging and should be inspected for damage before use. Where an item is found to have transit damage, notify your supplier immediately with all the relevant details of the shipment. Packing materials should be kept for inspection and also for if the product needs to be returned.



## WARRANTY & SAFETY INFORMATION



#### **Safety of Mains Operated Equipment**

This equipment has been designed to meet the safety regulations currently advised in the country of purchase and it conforms to the safety regulations specified by use of the CE Mark.

The power supply is rated to 95 - 265VAC at 47 - 63Hz with a fuse of 2A.

Warning: There are no user serviceably parts inside the machine. If you should ever need to look inside the unit, always disconnect the mains supply before removing the equipment covers.

### **Fuse Rating**

(E

The Net-Log is supplied with a single fuse in the live conducting path of the power-in feed at the power supply. For reasons of safety it is important that the correct rating and type of fuse is used. Incorrectly rated fuses could present a possible fire hazard, under equipment fault conditions.

#### **Power Cable and Connection**

An IEC power connector is supplied with the Net-Log, which has a moulded plug attached – this is a legal requirement. If no moulded plug has been supplied with your Net-Log, please contact your supplier, because an IEC connector is always supplied from the Sonifex factory.

If for any reason, you need to use the Net-Log with a different power cable, you should use the following wiring guidelines

Wire Colour	Connection
Green, or green and yellow	Earth (E)
Blue, or Black	Neutral (N)
Brown, or Red	Live (L)



#### **WEEE & RoHS Directives - Sonifex Statement**



The Waste Electrical and Electronic Equipment (WEEE) Directive was agreed on 13 February 2003, along with the related Directive 2002/95/EC on Restrictions of the use of certain Hazardous Substances in electrical and electronic equipment (RoHS).

The Waste Electrical and Electronic Equipment Directive (WEEE) aims to minimise the impacts of electrical and electronic equipment on the environment during their life times and when they become waste. It applies to a huge spectrum of products. It encourages and sets criteria for the collection, treatment, recycling and recovery of waste electrical and electronic equipment. All products manufactured by Sonifex Ltd have the WEEE directive label placed on the case. It gives a contact for individuals who are unsure about the correct procedure when the product has reached its "end of use".

Sonifex Ltd will be happy to give you information about local organisations that can reprocess the products, or alternatively all products that have reached "end of use" can be returned to Sonifex and will be reprocessed correctly free of charge.

Sonifex Ltd has phased out the use of certain hazardous substances identified in the European Union's Restriction of Hazardous Substances (RoHS) directive. The RoHS directive limits the use of certain hazardous substances currently used in EEE manufacture, including lead, mercury, cadmium, hexavalent chromium, and halide-containing compounds PBB (polybrominated biphenyl) and PBDE (polybrominated diphenyl ether). Elimination of these substances will result in more environmentally friendly recycling of electronic equipment. For the products which Sonifex manufacture, the main area where products were affected was in the use of lead for manufacturing and assembling electronics circuit boards.

Sonifex Ltd practices lead-free (LF) manufacturing processes. LF solder is used on the surface-mount PCB manufacturing processes and for hand soldering. The printed circuit boards (PCBs) used are either gold plated, or immersion tin plated, both of which use no lead. Historically the PCBs were hot air solder levelled (HASL) PCBs which used tin/lead based solder.

The manufacturing processes include the assembly of purchased components from various sources. Product is offered as RoHS compliant, or LF, only after sufficient evidence is received from the component manufacturers that their components are RoHS compliant. Sonifex Ltd relies solely on the distributor, or manufacturer, of the components for identification of RoHS compliance. Thus whilst every effort is made to ensure compliance, Sonifex Ltd makes no warranty, or certification, or declaration of compliance concerning said components.

Sonifex Ltd defines "Lead Free" as pertaining to any product, which has been manufactured by Sonifex Ltd using components which have been declared by the manufacturers as "Lead Free". All statements by Sonifex Ltd of RoHS compliance are based on component manufacturer documentation.



## Introduction

## **General Overview**

The principal behind the Net-Log logger is that generally speaking, computers should not be used for recording audio where their general unreliability can cause system crashes or lockups, with little regard for the security of the audio being recorded. However, for playback, using computers is perfectly acceptable and probably preferable, due to the ability to manipulate and edit the audio, provided it is in a suitable format.



Fig 1-1: Net-Log System Block Diagram.

## The Net-Log

The Net-Log is a 1U rack-mount, hardware audio recorder, designed primarily for audio logging in a broadcast environment. It is able to record up to 4 mono, or 2 stereo audio feeds, which are saved onto a large internal IDE hard disk. The hard disk is continuously overwritten, allowing access to all the audio recorded on it. Apart from the front panel mounted record override button, all functions and configurations are controlled via the Ethernet TCP/IP network connection using the supplied Windows control software package.

Net-Logs can be used singularly (Fig 1-2), or if more record channels are required, multiple Net-Logs can easily be configured to operate on the same Network (Fig 1-3).

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Fig 1-2: Single Net-Log Connection example.

#### **Net-Log Control Software**

Net-Log works in conjunction with a software control package that runs under Windows. This package consists of Net-Log-Win, Net-Util and Net-Log Auto-Archive. Net-Log-Win is the main control and configuration program. Net-Util is a configuration and monitoring utility that communicates with Net-Log via a serial connection. Net-Log Auto-Archive is a program designed to Archive audio data from multiple Net-Logs simultaneously.

#### Recording

Audio presented to the inputs is encoded in one of two user selectable formats, MPEG layer 2 or G.729A (An additional license is required to enable the G.729A format – contact Sonifex Ltd for details). The compressed data is then written to the internal IDE hard disk drive. Recording can be either continuous or programmed to start and stop at selected times. Record set-up allows for mono/dual mono/stereo and sample-frequency/bit-rate selection, depending on record format selected.

When recording has started, these parameters can only be altered once the audio on the disk has been deleted. The hard disk audio cannot be deleted whilst the logger is recording.

#### Playing

Two methods of audio playback are supported by Net-Log in conjunction with the Net-Log-Win software. Sections of audio can be transferred to a file on the PC using the Play Download function. These files can then be played using Net-Log-Win's media file player. Alternatively, Play Stream offers the ability to play audio direct from the Net-Log.

#### Archiving

Archive is an automated method of transferring audio data from one or more Net-Logs to a designated PC via the Network interface. When the audio data arrives at the PC, it can be arranged into files of a predetermined size. These files can then be copied to a removable media for long-term storage. If temporary audio storage is required, to satisfy broadcast authority requirements for example, then Archiving may not be necessary as the large hard drives used in Net-Log can, depending on the format or bit rate of the recordings, hold several weeks of audio. Sections of the audio could be downloaded as required using the Play Download function. The Net-Log-Win software provides a simple method of Archiving audio data for users with a single Net-Log. For larger installations where multiple Net-Logs are used, the Net-Log Auto-Archive package offers the ability to archive audio data from up to 20 Net-Logs simultaneously.



Fig 1-3: Multiple Net-Log Connection example.

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#### Network

The speed of the network connection on Net-Log is 10Mbps, and the physical connection is made via a BNC connector for coax cables, or a RJ45 connector for twisted pair cabled networks. For maximum network performance, the Net-Logs and client PCs' should be linked via a network Switch. This will cater for the Net-Logs' 10Mb connection whilst allowing the client PCs' to run at 100MB/1GB. In most applications, this arrangement will provide sufficient network performance for multiple clients to simultaneously access multiple Net-Logs. However, on existing networks where network traffic is already high, or where archiving audio from multiple Net-Logs running at high data rates, the required bandwidth of the network hardware needs to be carefully considered. In such cases a dedicated network may be required. The specification of the PC used as the Auto-Archive client will also need to be able to handle the large amounts of audio data being transferred. If the network hardware is incapable of handling the required data rates, Play Stream will be interrupted by periods of silence and audio data on the Net-Log may be overwritten before it can be archived to the target PC.

The following example illustrates a known working configuration and provides a starting point when considering larger systems.

5 Net-Logs each configured as follows:

4 mono channels of MPEG compression recording non-stop, 32 kHz sample rate, 192 kbps bit rate, archiving to a single Auto-Archive client PC via a dedicated 10/100Mb Network switch. The Auto-Archive client PC is an Intel PIII, 1GHz or equivalent fitted with a 100Mb network card.

This system provides sufficient bandwidth for continuous archiving plus the capability for additional Net-Log-Win clients to Play Stream audio.

#### **Required Hardware**

Audio can be delivered to a network-connected remote PC for live playback through an appropriate audio card. For recordings made using the MPEG format, a software codec supplied as part of the Windows 98/NT/2000/XP operating system, provides the decoding and conversion of the audio to a format supported by any standard Windows audio card capable of playing .wav files. Likewise, recordings made using G.729A are converted to the same Windows supported format by a software codec embedded in the Net-Log-Win software. Therefore, Net-Log-Win client PC's can play audio in both formats using a single audio card.

It is recommended to use a PC with the following minimum specification: Pentium 166MHz 64MB RAM Audio card & speakers as above 100Mbps network connection Windows 98/NT/2000/XP DirectX 6 or greater





#### **Physical Description**

The logger is housed in a 1U high 19" rack mount box. The front panel is chrome plated and there are chrome plated panel inserts for the fan inlet/outlet with domed labels for the "Sonifex" and "Net-Log".

#### Power

The unit is powered via an IEC filtered input for 95 – 265V supply at 47–63Hz, peak 60W, 30W average. There is an external fuse for the mains input that is rated at 2A. We recommend that the Net-Log is operated from an uninterruptable power supply. It should be noted that the record header is written regularly during the record process so if the power fails the data lost will be limited. At a bit rate of 192kbps this loss will be a maximum of 1 minute. Lower data rates will give proportionately greater time loss.

#### **Level Indicators**

There are four tri-colour LED's positioned on the front panel indicating input levels for each individual channel:

Led State	Meaning
Off	Input level < -18dBu
Yellow	–18dBu < Input level < 0dBu
Green	0dBu < Input level < 12dBu
Red	Input level >12dBu







#### **Record Control/Indicator**

This backlit button gives an indication of what channels are currently being recorded and can also be used to give limited control over the recording. When pressed, the button will flash indicating that a record start or stop has been initiated and must be pressed again within three seconds to confirm the action. The LED states and their relative modes are shown below:-

Button State	Mode
Off	No channels recording
Fast flashing	Record Start/Stop initiated
Slow flashing	Some channels recording
On	All available channels recording

When the button is pressed, the Net-Log checks to see which channels can be altered using this button (See Options, Record Format options, Override Enabled). If recording, a confirmed button press will stop the recording. If not recording, a confirmed button press will start the recording on enabled channels.

#### **Archive Alarm**

This red coloured LED is used to warn of loss of data during a recording process. If the Net-Log is about to overwrite data that has not been archived on to a remote computer then this indicator will start to flash. The amount of warning time you get before data is lost can be configured in the main software.

Led State	Meaning
Off	Normal
Flashing	Data is about to be lost
On	Data has been lost

#### **Disk Drive Alarm**

A red coloured LED giving an indication that there has been an error reading/writing from/ to the internal hard disk.

#### **Reset Switch**

Restarts the machine. NOTE that this does not overwrite any configurations and simply reboots the machine.









Fig 2-2: The Rear Panel.

#### Audio Inputs/Input Level Control

The audio inputs consist of four 3-pin XLR connectors (2-channel stereo, 4-channel mono) with independent level gain controls for each input, accessible through the rear-panel using a flat-blade screwdriver.

#### **Network Status Indicators**

There are four network status indicators, which are all labelled independently.

Rx	Receiving data
Тх	Transmitting data
Link	A network link has been established
Col	Network collision

#### **Network Connections**

There are two network connectors: one a BNC (coax, 10base2), and the other an RJ45 (10baseT). Either of these can be used for TCP/IP connection.

#### **RS232 Serial Ports**

There are two 9 pin D-Type connectors (COM1 and COM2) situated on the rear panel. COM1 is used for firmware updates and for updating the network settings, i.e. IP Address, Subnet Mask, etc. It can also be used as a messaging output for data analysis. COM2 is used for the Serial Control Interface.

The	settinas	for	COM1	are	fixed	at:-
11IC	secongs		comi	are	intea	u.

Baud rate	115200
Data Bits	8
Parity	NONE
Stop Bits	1

7



#### **Alarm Outputs And Remote Inputs And Outputs**

The remote connector is a 15 pin male D-type, which has four remote inputs to control recording, four record tally outputs to indicate which channels are recording and a double-pole-double-throw alarm output relay which activates on either the Archive Alarm or the Hard-Disk Alarm.

The remote inputs and output can be driven by 5V logic. The inputs are active low. These can be set to momentary or latching action via the Remote Options screen. The record tally outputs are open-collector driven. See Chapter 14 for pin connection details.



8



#### **Adjusting Record Input Levels**

The peak audio input levels are preset at +12dBu. This means that an audio signal of +12dBu, once encoded, will be at the maximum digital value. To change the peak audio input level, follow the procedure below.

- 1 Switch the unit on and while the alarm LED's on the front panel are flashing, press the record control button. The record button will illuminate.
- 2 Connect a constant audio signal at the required peak level to Input 1.
- 3 Adjust the Input 1 level control on the rear panel until the input level LED 1 on the front panel is green.
- 4 Repeat steps 2 & 3 for all 4 inputs. When you have finished, simply press the record control button and the Net-Log will complete its initialisation procedure.

The peak audio input levels can be changed at any time, but it should be noted that any ongoing recordings would be interrupted as the unit has to be power reset.

### **Network Topology**

The network that the Net-Log is connected to must be a dedicated network, if you are to guarantee the audio being available for play streaming. The ideal configuration is shown in Fig 3-1, with the Net-Log(s) connected directly to a network switch, which is connected directly to dedicated network interface cards in the PC's. It is under these conditions that the test results have been achieved in Fig 3-2.



Fig 3-1: Network Topology.

9



#### **Maximum Network Connections**

The maximum number of people that can connect to the Net-Log and use Play Streaming simultaneously is dependent on the number of software licenses that have been bought and also the data rate of the recordings that you are making. The software license is available as either a 2-stream license, or a 5-stream license. Due to the low fixed bit rate of the G.729A record format, the type of license (2 or 5 streams) is the only limiting factor for the number of simultaneous Play Streams when G.729A is selected.

MPEG Record Bit Rate	Maximum number of simultaneous streams	Total stream rate
160 kbps	5 streams	800 kbps
192 kbps	4 streams	768 kbps
224 kbps	4 streams	896 kbps
256 kbps	3 streams	768 kbps
320 kbps	2 streams	640 kbps
384 kbps	2 streams	768 kbps

Fig 3-2: Maximum Simultaneous Streams.

Fig 3-2 shows the maximum number of streams, for the MPEG record format, for the given recording bit rate configured. These figures assume that there is no other activity on the network, including Archiving of Net-Log audio. The figures show that for 5 people to be able to simultaneously Play Stream one stereo channel of MPEG audio, the recording bit-rate must be set to 160kbps or less.

If you have two pairs of stereo channels on a Net-Log set at different bit-rates, the total number of people that can Play stream them is governed by the combined bit rates of the play streaming. The limit of the maximum total stream rate is around 900kbps.

Above this stream rate, play streaming will start to fail, i.e. there will be non-continuous audio and audio silences on playback.

E.g. 2 people play streaming 64kbps recording

= 2 x 64kbps = 128kbps, plus

2 people play streaming 384kbps recording

= 2 x 384kbps = 768kbps

Total = 896kbps, which is less than 900kbps and allowable.

Play streaming can occur with archiving also happening in the background. Archiving audio to a nominated hard-drive on the network happens at a maximum data rate of 1000kbps. This data rate falls if play streaming is occurring, because play streaming is given a priority over any other process. There is a downside of this priority, which is that if many people are



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play streaming continuously for a number of hours (or days), the archiving data rate may fall below the recording data rate, so that the audio is not being archived as quickly as it is recorded.

You can calculate whether this will happen by subtracting the total maximum stream rate (calculated in the above example) from 1000kbps. If the remainder is less than the recording bit rate that you are archiving, then your archiving may happen at less than real time and will, eventually fail. Note: this does assume that the play streaming is at, or beyond, the maximum for a considerable length of time (to fill the Net-Log hard disk). Invariably, the play streaming is for "dip-in" access of a short duration (<1 hour) and the archive process has time to catch-up when there is no, or little, play streaming.

#### **Connecting Net-Log To Your Network**

Before connecting the Net-Log you first need to give it an IP Address, Subnet Mask and a Default Gateway. You may need to obtain these from your network administrator, but please note that the Net-Log is not compatible with DHCP (Dynamic Host Configuration Protocol) and DNS (Domain Name System).

To help in your selection of an IP Address for the Net-Log, following is a brief description of how IP Addresses and Subnet Masks work.

#### **IP Addresses**

An IP Address is used to determine where a node (PC, Printer etc.) is situated on a network. This address must be unique to the network, otherwise conflicts will occur. The actual address is made up of 32 bits, split into four sections (each section is called an octet). Held in the address is a network ID and host ID.

The network ID, or network address, is basically the address of the local network, and all nodes within that network must have the same network ID. The host ID part of the address identifies the node within that network.

There are three different classes of IP Address: A, B and C. These determine what parts of the address contain the network ID and the host ID, (Fig 3-3).





#### Fig 3-3: IP Addresses.

Class A address: The first octet contains the network ID and the second, third and fourth contain the host ID.

Class B address: The first and second octets contain the network ID and the third and fourth contain the host ID.

Class C address: The first, second and third octets contain the network ID and the fourth contains the host ID.

So, the network ID of the IP Address that you give the Net-Log must match the network address of the network on which you connect it and the host ID of the Net-Log's IP Address must be different to that of any other device on the network.

#### Subnet Masks

To determine which parts of an address contain the network ID and host ID we use a Subnet Mask, which has an identical format to the IP Address being made up of 32-bits, split up into four octets. It is configured as follows:

For every bit in the IP Address that contains the network ID the corresponding bit in the Subnet Mask must be set to binary 1, (i.e. the byte of 8 bits is set to "255"). For example if the IP Address is a class A address, the network ID is contained in the first octet. So the first eight bits of the address contain the Network ID. Therefore the first eight bits in the Subnet Mask must be set to binary 1, making it "255.0.0.0".



## **Installing Net-Log-Win Software**

The procedure below describes how to install the PC software. As the initial set-up procedure will required the use of the Net-Log Serial Utility, the software must initially be installed on a PC with a free serial port.

- 1 Insert the Sonifex Software Installation CD into your CD-ROM drive.
- 2 The installation process should begin automatically. If it fails to start, select "Run..." from the Start Menu and type "x:\Index.htm" where x is the letter of your CD-ROM drive.
- 3 The installation starts by displaying a web page that has links to several software packages from Sonifex. Locate Net-Log-Win from the list and click on the link provided. The Net-Log-Win installation will begin as shown in Fig 3-4. Simply follow the on screen instructions to proceed. During the installation, Set-up will attempt to detect what version, if any, of DirectX is installed. DirectX is required for audio playback and Net-Log-Win requires that version 6 or later is installed. If a compatible version is not found, then the supplied DirectX 8.0 will be automatically installed.
- 4 The installation will place three shortcuts in the start menu Net-Log-Win, Net-Util and Net-Log Auto-Archive.



Fig 3-4 : Net-Log-Win Installation.



#### **Entering Network Settings**

To do this you need to start the Net-Log-Win Serial Utility (Fig 3-5 & 3-6), and connect one of your PC's available serial ports to the Net-Log's serial port (COM1). This is done with the null modem cable supplied with the Net-Log.

a Sortics het Leg Win Seriel Dolley V1		
de Conne Bepal	NEW TRANSPORT OF TAXABLE	
# # ? COH : D #	A E A 2 2 2 4 5 4 5	
Nahool Seriage MAC Astawn 8000C2/8545.95 Virablem 7521636319 Statew Mak 7521636319 Detail tenney 752168639 Remu - Tenney Uniter Remu - Sen -	Add Annual Typeters compate Instance and the second state of the second state	

Fig 3-5: Net-Log-Win Serial Utility.

Select the relevant PC COM port number in the serial utility by using the up/down buttons (labelled "1" in Fig 3-6). Now press the Connect button (labelled "2"). To test the connection between the PC and Net-Log press the question mark Test button (labelled "3"). This sends a command to the Net-Log, and waits for a reply. If there is no reply, an error message box appears declaring that the connection test has failed.

If this occurs make sure that you have the Net-Log switched on, that all cables are correctly wired and connected, and that you have selected the correct COM port number.

23	
💼 🎕 🏅 🗖	JWI 📮 🗖 🔳
Network Settings	
MAC Address:	00-50-C2-05-A1-9E
IP Address :	192.168.0.179
Subnet Mask :	255.255.255.0
Default Gateway :	192.168.0.99
Firmware Update	
Name: -	
Size : •	
	§

Fig 3-6: Detail of Net-Log-Win Serial Utility.

The wiring for the cable is shown in Fig 3-7. If the connection is successful a message box is displayed indicating this.

Now you need to enter the IP Address, Subnet Mask and Default Gateway (labelled "4"). The Default Gateway is defined as the target system's default route and is a convention used on all networks. If you have a bridge to another network, then set the IP Address of the Default Gateway to the IP Address of the bridge. If you are using the Net-Log on an isolated network or directly to a single PC, then set the Default Gateway IP Address to that of

Committee of

the Net-Log.

Null Modem Cable PC NET-LOG 1 CD 1 CD Rx 2 Rx 3 Тх Tx 3 DTR 4 4 DTR SG 5 5 SG DSR 6 6 DSR RTS RTS 17 7 CTS 8 CTS 8

Fig 3-7: Diagram of a Null Modem Cable.

Check that the values have been entered correctly and press the Download button (labelled "5"). This writes the information to the Net-Log, and stores it in the system ROM.

If at anytime you need to check the IP Address of the Net-Log you can simply press the Reload button (labelled "6"). This loads the current network settings from the Net-Log and displays them. You can edit these if you need to and write any changes to the Net-Log by pressing the Download button again.

Enter the downloaded values here for future reference:

Net-Log Serial Number:			
IP Address:	•	•	•
Subnet Mask:	•	•	•
Default Gateway:	٠	•	•

Note: This utility can also be used to download firmware upgrades directly to the Net-Log via the serial port (instead of using the Net-Log-Win software across the



network). To do this, click on the Firmware Update button (labelled "7"), select the relevant update file and press OK. The file will be downloaded to the Net-Log.



Fig 3-8: Diagram of 'straight through' and 'crossover' CATS cables.

During all these procedures the messages sent from the Net-Log can be monitored in the Message window. This shows the status of the update with regards to the network settings or firmware updating.

Net-Util also provides various tools for monitoring the status and operation of the connected Net-Log. These functions are available from the menu or by pressing the button showing the right arrow symbol. When this button is pressed, the icon changes to a left facing arrow to indicate that a further press will hide the additional controls. These buttons are shown in Fig 3-9. Whilst running Net-Util, you can place the mouse cursor above the button to show a brief description of the buttons' functionality.



Fig 3-9: Details of Net-Util Tool buttons.



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The first button on the left in Fig 3-9 simply clears the main messaging window.

The next button allows the serial messages that are sent from Net-Log and displayed on the screen, to also be copied to a text file. This is particularly useful if a problem occurs on the Net-Log as the message window can only display the most recent messages.

The fourth, fifth and sixth buttons select the desired serial message mode. The button marked with a "1" selects minimum mode. In this mode, only details of fatal errors are displayed. The button marked with a "2" selects medium messaging mode. In this mode both fatal and non-fatal error details are displayed. In maximum mode, selected by pressing the button marked with a "3", system event details are also displayed.

The next button enables network communication monitoring. This feature will display all input and output communications on the connected Net-Log and is intended for debugging purposes only – enabling it will severely affect the network performance of the Net-Log.

The next two buttons are used to display and clear the on-board message log on Net-Log. Each time Net-Log sends a serial message, it adds it to its own internal text log. This log is limited in size and only contains the most recent error/event messages.

The next two buttons are also intended as debug tools although their use will not affect Net-Log's performance. The first is used to display the current status of the network interface on Net-Log. The second is used to display record cut information.

The last button is a "Reset all" button. This will return the connected Net-Log to its factory defaults. (Please note - use of this button will delete all audio on the connected Net-Log.)

Once all the required information has been entered into the Net-Log you are ready to connect the unit to your network.

Ideally, the unit should be connected directly to a switch, but if this is not possible or practical, connecting it to a hub should be sufficient. If you are using the RJ45 connector on the rear of the Net-Log, you should use twisted pair network cable (i.e. CAT5), wired "straight through" as shown in Fig 3-8.











|--|




If you are connecting your Net-Log directly to a network interface card in your PC, then you will require a "crossover" cable, which is also shown in Fig 3-8.

When you have the Net-Log switched on and connected to your PC or network, you can now run the Net-Log-Win software. Read the next section on Start-up and Login, which gives an explanation of the logging procedure and how to enter your Net-Log into the device list.

Note: It is important to fully configure each Net-Log prior to use. Once a successfully connection has been established, refer to section 10 which details all the configuration settings.



## 4 Startup & Login

### **Starting Net-Log-Win**

To start the Net-Log-Win software, select the icon from your desktop or Start menu depending on how you installed the software. The startup screen will be displayed (Fig 4-1) normally followed by the Login Screen (Fig 4-3). However the first time the Net-Log is used the license manager screen (Fig 4-2) will be displayed.





#### **Maximum Concurrent Users**

The Net-Log-Win software can be purchased as either a 2-stream license, or as a 5-stream license. This means that you can install the Net-Log-Win software on as many PC's in your network as you like, but that only 2, or 5 simultaneous accesses to the licensed Net-Log can be made respectively. If 2, or 5, users are using a Net-Log and another user tries to access it, a message will be displayed telling them that the allotted number of licenses are already in use.

Remember that if Archiving is enabled, this will use a license.

#### **Multiple Net-Logs On A Network**

Only one license is required per network regardless of the number of Net-Logs attached to that network. The first Net-Log connected will need to have a valid license and then all further Net-Logs should be set as slave units and will validate their license from this master. This means that the master will need to be attached at all times. If the master should be removed from the network the slave units will continue to be available for a period of 3 days. After this time they will still continue to record but will be inaccessible from the Net-Log-Win software. Reconnecting the master unit will re-enable all features.



#### Licensing Your Net-Log

The License Manager Screen (Fig 4-2) is shown when first connecting to a Net-Log or can be accessed from the Administrator menu. This dialogue shows the unique boot code used to validate the master licenses and the 3 licensing options. These allow the user to set the unit as a master by entering the license code; as a slave by entering the TCP/IP address of a connected Net-Log master unit; or define the unit as a demo. Similar to disconnected slave units the demo allows for 3 days of normal operation and the unit can be upgraded at any time to function as a master or as a slave by entering the appropriate data. (Please note - Reselecting the unit as a demo will delete all audio data and settings from the Net-Log.)

#### **Obtaining License Codes**

The license code must be obtained directly from Sonifex. You can do this in several ways, either by phone to Sonifex on +44 (0)1933 650700 during normal UK working hours; or by sending the form from the front of the manual by fax to +44 (0)1933 650726 or directly by post; or by completing the form on the supplied link or through our website www.sonifex. co.uk/netlog; or by supplying the information indicated on the form by email to netlog. support@sonifex.co.uk. Sonifex will endeavour to return the license codes as quickly as possible. In the mean time the machine can be used as a 2-stream license demo machine for 3 days.

Sonifex Net Log Win V1.119	
De De Der Reserver De	
NetLog Selector X Drive Alam Inactive Mentor Status	
Ther Log 1 Decorrect Archive Alam Inactive Not Used	
Current License Status (MAC: 00-58-C2-05-A0-00) Dolon: 1 (Mater) Expens: n/s Users: 5 G. 729A Record Format: Enabled	1
License option 1 - Master License - 2/5 users: Contact Soniex and quote this Reference Key 078 132 242 080 210 054 Enter License Validation Key:	
License option 2 - Slave License - 2/5 users: You mult have a Matter Licensed NetLog to use this option. Enter IP Addess of Matter Licensed NetLog:	
License option 3 - Time Binkod Demo License - 2 users: 3 day lonne for demonstration purposes only Note: All audio and configuration settings will be deleted.	
X Carcal	
Select an option to change the license type	

Fig 4-2: The Licensing Screen.



#### **The Login Procedure**

To enter the system, all users must specify a User Name and a Password.

These will then be compared to details which are stored onboard the Net-Log before the user can access the system. If the user enters the correct information, they will be allowed to use the PC interface to control the designated logger. If the user enters incorrect information, they will be asked to re-enter the User Name and Password.

To configure the system, enter a User Name of "admin" and a Password of "admin". The password should be changed once you are running the program.

There is a Net-Log Device List, which allows you to choose one of any number of Net-Logs connected to the network. When the software is loaded for the first time, no Net-Logs are available in the Device List, and a message box appears stating this. You will be taken automatically to the Device List editor, where you can add your Net-Log into the list.

Net-Log I	Login	$\mathbf{X}$
<u>po</u> ľ	User Name admin Password ****	
	Open the audio file player	×
Please ente	r your User name and Passwor	<u>×</u> <u>C</u> ancel

Fig 4-3: The Login Screen.

#### The Device List Editor

To enter a Net-Log into the list you must give it a text name and the IP Address that was downloaded into the Net-Log as described in the "Setup & Installation" chapter. Once you have entered the Name and IP Address into the boxes, press the "Add" button, and it will now appear in the list.



The two up/down arrows on the right hand side are used to select the default Net-Log used when you have multiple units. The default unit is the one that is automatically selected when you login.

Multiple Net-Logs can be Added, Deleted and Replaced. See Fig 4-4.

Net-Log D	evice Editor	
	Name	Ip Address
	Net-Log 1	192.168.0.179
	Net-Log 2	192.168.0.180
3	Net-Log 3	192.168.0.181
	Name Net-Log 2	Ip Address 192.168.0.180
	Add	<u>R</u> eplace <u>D</u> elete
		V OK
Edit the Net-	Log device list and s	select the default connection

Fig 4-4: The Net-Log Device List Editor.

To edit the name or the IP Address of a device, select the unit in the list and edit its details that appear in the Name and IP Address text boxes. When you have finished, click the "Replace" button.

To delete a device contained in the list, select the unit, and then press "Delete". Once you have finished entering the details of your Net-Log(s) into the device list press "OK". This will return you to the Login screen.

# Note: Prior to logging on to a new Net-Log for the first time, ensure that the clock on the PC is set correctly as this time will be used to update Net-Log's onboard clock.

The software will attempt to connect to the Net-Log and when a connection has been established you will see the main screen.

If the main screen does not appear then there is a problem connecting to the Net-Log. Check that the IP Address entered in the device editor list is the same as the one downloaded using the Net-Log-Win Serial Utility. Secondly, check that the IP Address and **STARTUP & LOGIN** 

STARTUP & LOGIN



Subnet Mask are valid for your network. If invalid details are entered, the Net-Log will not appear on your network (see your system administrator for more information).

### First Time Use of Net-Log

The first time you use the Net-Log you will need to setup the configuration for your particular application. The configuration is accessible from the Options tab. See Chapter 9 for full details. At the very minimum you will need to set up the Record Format, Record Media and Clock Source options.

#### **Changing User Details**

Once you have logged in for the first time it is advised that you change your User name and Password from the default settings to stop unauthorised access to your user account. To do this, select the Edit menu, and then User Details (Fig 4-5). Enter your new details and press "OK". If the "Cancel" button is pressed, none of the changes made will take effect.

## Note that the password is case sensitive, and you must re-enter the password to confirm it is correct.

There is a special case available to demonstrate just the screen layout and use of the Net-Log-Win software that can be initiated by selecting a user name of demo and leaving the passwords blank.

🚚 User de	etails	$\mathbf{X}$
Net-Log	User Name admin Password xxxxx Confirm Password	el
Edit your use	r name and password	

Fig 4-5: User Details.



#### **General Screen Layout**

After logging in, the main screen appears (Fig 4-6). Whether all of the 4 main selection screens (Record, Archive, Play and Options) are displayed will vary depending on the user account that you have logged in with. However, the screen layout will remain the same throughout.

Net-Log Selector	2 Drive Alam Inactive	Mentor Statur
Record E Archive	Play I Options	
nual Program		
Audio Input 1	and the second	
Format MPEG		
Channels: Stereo Sample rote: 32 kHz	B1 STERED	
Bit rate: 192 kbps	AT DIENEO	
Mode Markas		Flecord
Plenotes Enabled	Low rout level	
Audio Input 2	Low root level	
Audio Input 2 Fornat 6.72% Overnets DualMono	R2 MOND	Record
Audio Input 2 Family 5,22% Derrote Dud Mono Sangle site n/s Bit ate n/s Mode Manual	R2 MONO Low rps/ level	Record
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Fig 4-6 General Screen Layout.

#### **Disconnect/Log-Off Button** 7

If you are currently connected to a Net-Log then this button allows you to disconnect and select a different unit. If you are not currently connected to a Net-Log, this allows you to log off and either log on as another user, or exit the application. Note that logging off, or disconnecting, from the Net-Log will not affect the operation of the Net-Log, i.e. it won't stop it recording, etc.

#### 2 Net-Log Selector

Use this to select other Net-Logs from the drop-down list and connect to them as the user that you are currently logged on as.



#### Alarm Indicators

These replicate the LED alarms situated on the front panel of the Net-Log. The alarm conditions are also available on the remote connector.

#### 4 **Network Activity Indicators**

These are transmit Tx (left, red) and receive Rx (right, green) indicators showing data transfer between the Net-log and your client PC.



**STARTUP & LOGIN** 



### Net-Log & PC Time

Date and Time of the Net-Log clock and the local PC clock



General information is displayed here.



7

### **Screen Selection Buttons**

STARTUP & LOGIN

These are used to switch between the different screens that are used to control the Net-Log.

#### 8 Mentor Status Indicator

Status of the Mentor Time Server, used for synchronising the PC and Net-Log times on a network.



### 5 Recording

#### **The Record Screen**

This is where all recording actions are controlled. Each input channel (up to a maximum of four mono, or two stereo channels) can be controlled independently and is represented by a separate display panel. Each panel shows the current configuration and state for that channel. For convenience, it also monitors the levels of the audio inputs, and gives an indication of when there is "silence", defined as an input of below –44dB, as shown in Fig 5-1. The record channels are configured using the Options screen.

There are two formats available for recording, MPEG and G.729A. MPEG allows for mono, dual mono and stereo channel selection as well as variable sample and bit rates. G.729A is a high compression, fixed bit rate, mono or dual mono record format. Its low bandwidth makes it ideal for recording speech and gives very high storage capability – approximately 13 minutes per Mbyte. G.729A can be used only after purchasing an additional license. Contact Sonifex Ltd for details.

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Fig 5-1: Manual Record Screen.

The Net-Log allows five methods of recording:

#### **Manual Recording**

Button presses control recordings on each logger channel.





#### **Program Recording**

Record control occurs automatically by defining a "time-sheet" for each channel.

#### **Auto Recording**

Record control occurs automatically as the input audio level rises above and below userdefined start and stop threshold levels. Auto record mode is not available when using the G.729A record format.

#### **Remote Recording**

Recordings can be started/stopped by connecting certain pins on the rear panel remote connector.

#### **Serial Recording**

Record is controlled by commands sent to the Net-Log via the Serial Port. See chapter 8 for protocol information.

Remote or Serial recording will operate regardless of whether Manual, Program or Auto record mode is selected in the Record Options page. Care should be taken to ensure the correct mode of operation is selected as no priority is given to either Remote or Serial recording when co-configured with Manual, Program or Auto record mode.

Note: The Net-Log can record up to a maximum of 250000 tracks on each configured partition on the hard drive. When the end of a partition is reached, recording continues at the start of the partition – over-writing existing data. Each time the record "loops" back to the beginning of a partition, the track count is reset and a further 250000 tracks are available. Once the 250000-track limit is reached, subsequent recordings will be appended to the 250000th track.

#### **Manual Recording**

To start recording manually, select the "Manual" tab, choose the channel you wish to begin recording on and press the relevant "Record Start" button. The Net-Log will start recording and the on-screen LED will illuminate red to indicate this.

Once recording has started, the Record Control button on the front panel of the Net-Log will light up accordingly, and a track list entry will also be created in the play screen. To stop the recording, press the "Stop" button. The Record Control button will change accordingly and the track list entry in the play screen will now contain an end-date and time.

### **Program Recording**

To set-up a program recording you must first make sure that you have a channel enabled to do this. See the Record Format tab of the Options screen – Section 9. Once enabled, you can select the "Program" tab in the Record screen. The Program Record screen will be displayed (Fig 5-2).

This shows a time sheet for a complete week, with the seven days of the week along the lefthand side and the time of day along the top.



Select the record channel that you would like to program by using the left/right arrow buttons.

The time sheet works by defining a Program number and editing the start time and duration. The Program number is then assigned to any of the days by selecting the associated tick-box. Up to 20 Program numbers can be defined.

A graphical representation of the program is displayed.

Note that if you alter a start-time or duration once programmed, the graphic display will alter also to reflect the changes.

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Fig 5-2: Program Record Screen.

Additional options are available to assist with setting up the record programs. These options are accessed by pressing the right mouse button whilst the cursor is positioned over the record program screen. A popup menu will be displayed as shown in Fig 5-3. The first two options allows you to quickly assign the currently selected program to either run every day or not run on any day. The next three options can be used to clear programs. Clearing a program resets the start time and duration to defaults and removes all the day assignments. The last two options allow you to make copies of programs.

RECORDING

Run program 4 every day Do not run program 4 on any day

RECORDING 00

Clear program 4 Clear all programs on this channel Clear all programs on all channels

Copy program 4 to all other programs on this channel Copy all programs on this channel to all other channels

0

Fig 5-3: Program Record Popup Menu Commands.

Click on the "Update" button to send the program to the Net-Log. The record start and stop times are stored on the Net-Log and recording will now start and stop automatically. Storing the information on the Net-Log allows the recording to be made even if there is a network problem at the time the recording state is due to change, and allows everyone to see the record programs being used.

If you need to change the program times for a particular Net-Log, or just want to view them, the display will be refreshed automatically when you select the Net-Log, or you can press the "Re-load" button, which gets the information from the connected Net-Log.

If you make alterations in this screen and wish to cancel them, then simply leave this screen, or press the "Re-load" button to show the existing settings.

Note: If the Net-Log is currently using a program recording, and you update it with a new program, the current state of the recording will reflect the new program state. E.g. if the Net-Log is recording at 4pm on a Monday and a new program is loaded at that time which has a record stop at 3pm and record start at 5pm on a Monday, the recording will stop. It will then restart recording at 5pm.

### **Saving and Loading Record Programs**

Once you have finished setting up the record programs, you can make a copy of them on a PC. This can be particularly useful if you have more than one Net-Log and you want each machine to follow the same programs.

To save the complete set of record programs for the connected Net-Log, select File, Save As from the main menu. A dialogue will be displayed allowing you to specify the location and name of the file that will be used to store the current program information. Once you have made these selections, press Save.

To load a previously saved file, select File, Open and then select the file that contains the required program information.



Please note, you can only load and save programs whilst in the record program screen.

#### **Auto Recording**

To use auto recording, you must first make sure that the auto record mode has been selected, and the auto start and auto stop parameters have been set as required. See the Record Format tab of the Options screen – Section 9.

To start auto recording, press the relevant "Record Start" button. The channel display will show "Waiting for auto start level...", and the Net-Log will start recording automatically when the input audio level rises above the auto start threshold. The on-screen LED will illuminate red to indicate when a channel has started recording.

Recording will continue until the input audio level falls below the auto stop level threshold, at which point the recording is provisionally ended. The input audio level must then remain below the stop level threshold for the period of time set by the stop duration, otherwise recording will continue.

Once a recording has ended, the length of the new cut is compared to the auto start duration. If the new cut length is less than the auto start duration, it will be automatically deleted.

The process is then repeated the next time the input audio level rises above the auto start level threshold.

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To stop auto recording at any time, press the "Stop" button.

Fig 5-4: Auto Record Mode.





#### **Remote Recording**

Recording for each channel can also be started remotely using the 15 Pin D-Type socket found on the rear of the unit. There are four record input pins that can be assigned as momentary or latched in the Record Remotes Option screen.

#### **Serial Recording**

Serial Recording allows external equipment connected to the Net-Log via a serial communications link, to start/stop recordings. There are currently two interfaces supported. See chapter 8 – Serial Control Interface.

#### **Record Tally Outputs**

Each record channel has a 'Record Tally Output' that is active when the associated channel is recording. For example, if channel 1 left is currently recording, then Record Tally Output 1 will be active. Likewise if channel 4 right is also recording, then Record Tally Output 4 will be active. These outputs are independent of the record mode selected.

The Record Tally Outputs are open-collector driven, and are available using the 15 Pin D-Type connector on the rear panel of the unit.

See section 14 Technical Specification for details of all of the remote input and output pin connections.

### 6 Playing & Downloading

Audio recorded on the Net-Log can be accessed in two ways. Firstly, you can download a selected piece of audio straight to your hard drive, and then play it either using the embedded player (Fig 6-5), or for MPEG, Linear or MP3 recordings, the Windows Media Player. G.729A recordings can only be played using the embedded player. Alternatively, you can stream audio directly from the Net-Log and listen to it whilst it plays.

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Fig 6-1: Play Download Screen.

### **Track List Display**

The track list display is shown in Play Download, Play Stream and Play File. The Net-Log can record up to 250000 tracks per channel. To make it easier and quicker to find the required audio for playback, the recorded track display is split into two parts. The list on the left shows a summary of tracks that exist on the selected channel, indicating the start dates and number of tracks that were started on that date. Click on the required date to load the list on the right with details of each track recorded tracks. Select the left/right arrow buttons to change the channel.

The "Cut summary" list is, by default, loaded automatically when entering the play screen, or when selecting a different channel. In addition, both lists will be updated if a new recording is initiated on Net-Log. This auto refresh feature can be disabled by selecting Tools from the main menu, and de-selecting the "Auto Refresh Cut Display" option. It is particularly useful to have this option disabled if you record a large number of tracks on a daily basis, as it prevents the lists being updated every time a new recording is made.

PLAYING & DOWNLOADING

### **Play Download**

Downloading can be used to get a piece of audio from the Net-Log, which can be saved as a file for playback later or for emailing/forwarding to a colleague or customer.

Select the "Download" tab to select the Play Download screen (Fig 6-1). There are two methods of selecting audio for download, by entering the start date and time and the duration of the required piece of audio, or by selecting a track and downloading it in its entirety.

To download a piece of audio by selecting the start date and time, ensure the "Select audio by cut" check box is not ticked. Then click on a track and its time and date details are automatically entered into the Download section. Alternatively, use the right mouse button to load the end time and date of the selected track. This is particularly useful for selecting audio near the end of a track.

The start time, start date and duration can be altered to get the exact piece of audio required. You can also use the end date and time controls to set the effective duration of the required audio. Highlight the hour, minute, second, day, month, or year and by using the up and down spin wheels to alter the value. Alternatively, you can enter the required value directly.

The file size is calculated as you change the duration and is displayed below the time and date selection boxes.

To download a complete track, ensure the "Select audio by cut" check box is ticked and select the track to highlight it ready for downloading. Multiple tracks can be selected by holding down the Ctrl key on the keyboard and clicking on additional tracks.

There are several file formats available for tracks recorded using the MPEG format. Press the "Default file type" button to select MPEG BWF, Raw MPEG, Linear BWF or MP3. For MP3 files, the bit rate of the target file can also be selected. Recordings made using the G.729A format cannot be converted to other formats.

Once you have made your selections for play download, press the "Start" button, and if a destination file has been selected the download will start. Otherwise you will be asked to specify a destination file and then the download will start automatically.

The file name for the download can be automatically generated by selecting the "Generate file name from cut details" check box. In this mode, the file name will be based in the start date, start time and duration of the selected piece of audio. When the "Start" button is pressed, the file is created automatically and the download will begin. To use this option, you must have a default directory selected. Press the "Default directory" button to choose the directory where the file will be placed.

For tracks recorded using the MPEG format, the file is created with either a .wav, .mp2 or .mp3 suffix depending on the file type selected. For G.729A tracks, the file extension will be .g7a (see Play File for file type description). MPEG, Linear and MP3 downloads can be played either with the embedded player (Fig 6-5), Windows Media Player or any other capable-

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software. G.729A recordings however, can only be played on the embedded player, as Windows Media Player does not support this format.

#### **Play Program**

The Play Program screen allows audio downloads to be scheduled. Each program contains details of the audio to be downloaded, the format of the downloaded file and an optional date and time when the download is to take place. Each program can specify a single download, or multiple downloads for specific days between selected dates.

Select the "Program" tab to select the Play Program screen (Fig 6-2). The upper part of the screen shows the program summary. This is a list of all pending and active programs for the selected channel. It also shows completed programs that have either not been automatically deleted, or have encountered an error. Select the left/right arrow to change the channel and refresh the program list. The "Delete All" button deletes all programs for all channels.

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Fig 6-2: Play Program Screen.

The lower part of the Play Program screen shows the details of the selected program. Click on an existing program in the list to load the details. Use the "Delete" button to delete the highlighted program, or the "Replace" button to replace the highlighted program with the program currently shown in Program Details.

PLAYING & DOWNLOADING



PLAYING & DOWNLOADING

To add a new program, press the "New" button. Each program requires a name which uniquely identifies the program in the list. The name can be entered manually, or it can be created automatically by ensuring the "Auto create" check box is ticked.

To configure a program to download a single track, ensure the "Download separate cut for selected days" check box is not ticked. In this mode, the start date and time and the end date and time controls directly select the piece of audio to be downloaded.

To configure a program to download multiple tracks, tick the "Download separate cut for selected days" check box. In this mode, the start and end time controls specify the piece of audio to be downloaded. The start and end date controls specify the range of dates from which the selected piece of audio will be downloaded. The check boxes, marked "Sun" though to "Sat" allow you to select the specific days, between the start and end date, that each track will be downloaded.

For example, you want to download an audio clip that starts at 9:00am and continues to 9:30am on Monday 4th September 2006. You also want to download the same clip from the following Wednesday and Friday mornings. First you would set the start date to 04/09/2006 and the end date to 08/09/2006. Then you would set the start to 09:00:00 and the end time to 09:30:00. With the "Download separate cut for selected days" check box ticked, ensure only the required day check boxes, "Mon", "Wed" and "Fri" are ticked.

The directory where the downloaded audio will be placed is selected by pressing the "Folder" button. When a program download starts, a sub-directory of the selected folder is created using the program name, and the file is saved to this sub-directory.

For tracks recorded using the MPEG format, the file type of the downloaded audio can be MPEG BWF, Raw MPEG, Linear BWF or MP3. Pressing the "File type" button repeatedly, cycles through the available types. For MP3 files, the bit rate of the created file can also be selected. For tracks recorded using the G.729A format, the file type is fixed.

Once your program selections have been made, you can select whether the program download is to be scheduled for completion at a later time, or started immediately. To schedule the program to run at a later time, select the required date and time using the action date and time controls. You can also select whether the program is automatically deleted once it has completed by ticking the "Auto delete when complete" check box. If you select this option, the program will not be deleted from the list if an error occurs during the download. Press the "Add" button to add the program to the list. To execute the program immediately, press the "Start" button. In this mode, the program will be added to the list temporarily while download is completed. Once complete, the program will be removed from the list provided no errors occurred during download.

A small green tick will appear next to the program name for programs that have successfully completed. A yellow triangle with an exclamation mark indicates programs that have encountered an error. An hour glass next to a program in the list indicates that the program is currently active. By default, the progress of play programs is logged to a file on the PC. See section 11 Tools for details of the play program log.



#### **Play Stream**

Select the "Stream" tab to select the Play Stream screen (Fig 6-3). Select the left/right arrow to change the channel. Only one mono or stereo channel can be played at any one time. Select the track that contains the piece of audio that you want to stream.

The start time will be entered in the Stream section of the display. Alter the time and date of the track to the time and date of the recording that you wish to hear.

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Fig 6-3: Play Stream Screen.

Press the "Play" button to hear the audio. It will take a few seconds to access the audio from the Net-Log and to stream it across your network. The Recorded Time and Recorded Date are displayed during playback. You can use the "Pause" and "Stop" buttons to pause and stop the audio respectively. Pressing the "Stop" button will recue the audio back to the "Play from ..." time and date. The slider on the right can be used to alter the volume of playback and the "00" button is used to reset the "Play Duration" counter.

There is a minimum delay for playing audio from a currently recording track. If the selected play time is within this minimum time, a message box will be displayed allowing play to automatically start playing once sufficient audio data exists. See Fig 6-4 for details of the minimum play stream delays.





Sample Rate	Minimum Delay Times for Play Stream on Currently Recording Track
16 kHz	115 seconds
22.05 kHz	85 seconds
24 kHz	79 seconds
32 kHz	60 seconds
44.1 kHz	45 seconds
48 kHz	42 seconds

Fig 6-4: Minimum Play Stream Delays.

#### **Play File**

Select the "File" tab. The Play File screen shown in Fig 6-5 is for playing archived or downloaded files. The screen layout is similar to the Play live screen.

The Play File screen is split into two parts; play control and the play list. Audio files are loaded into the play list by pressing the "Open..." button, and selecting the required file(s). Audio files of all supported formats can be loaded into the play list. Single entries in the play list can be deleted by highlighting the entry and pressing the "Delete" button. Alternatively, the whole play list can be cleared by pressing the "Clear" button.

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3 6	\Temp\06.5ep.200 \Temp\06.5ep.200	6154149.05	ung]					00.00.25	Delete
-							Ten	d: 0010215	Lew
-	to contraction								
Connected to I	Net-Log 1		Local: 07	09/06 09:54	42 Net-Log	07/09/06	09:54:42		

Fig 6-5: Play File Screen.



To play the current play list, press the green "Play" button. Play starts at the entry highlighted in the play list and continues to the end of the list. There are other controls including next/ previous track select, seek, pause and stop with an extra control for altering the playback speed of the file. This is situated alongside the volume control. The volume control is equivalent to the Wave Output volume control on the Windows Mixer, usually situated in the Windows System Tray.

When an MPEG file is archived or downloaded from the Net-Log, the file can be created as either a raw mpeg data file (.mp2), or as a broadcast wave format file (.wav). Creating a broadcast wave format (bwf) file allows additional information about the recording to be stored and recalled on playback. Creating an mp2 file doesn't allow this information to be recorded. G.729A files are created with this additional information automatically included.

The MPEG bwf and G.729A recordings contain information specific to the file, including the recording format of the file, the origination time of the file, the MAC Address of the Net-Log that it was recorded on and the name of the recording, etc. The origination time and date of the file, together with the file name and file duration, are displayed when the corresponding entry in the play list is selected or played.



## 7 Archiving

### **The Archiving Process**

Archiving is the process of getting Net-Log to automatically and continuously create audio files (.wav, .mp2 or .g7a files) on a selected drive or device. Long recordings can be reformatted into smaller files of a fixed duration for ease of use.

Typically, this is so that a long-term archive of recorded material can be stored on a separate hard-drive, such as on a server, where many people can access historic files without interfering with the operation of the Net-Log. Additionally, the server could then be used to make permanent archives on to CD-R, DAT, or DVD-R, using conventional low-cost IT technology.

### **Configuring Archival To A Networked PC**

Enter the Options screen and select the "Archive" tab (Fig 7-1). To configure the options correctly you need to know the IP Address of the networked PC and the designated share name of the folder to which you want to archive to. You must also have write access to this folder.

Net-Log Selector	] Disconnect Archiv	Alam Inactive Mentor Status e Alam Inactive Not Used	
Record E Archive	Play Defons	and total 1	
Audio Input 1	Alem Enabled	Audio Input 2	Alam Enabled
Butter Size (Mbytec) Duration: Oh 3m 3Bs	5 1	Buller Size (Mbytes) Duration: 1h 12h 49s	5 🛧
Warning prior to data loss (days)	14 🔹	Warning prior to data loss (days)	14 2
Anange Archive Audio into Fire	ed Duration Files	🖓 Anange Archive Audio into Fee	ed Duration Files
Target File Duration (mins):	5 👲	Target File Duration (mins):	60 <b>±</b>
Target File Type:	MP2 +	Target File Type:	0.7294 -
IP Address:	192 168.0.40	IP Address:	192168.0.40
Target Folder Share Name: mettog	1	Target Fiskler Share Name: mellog	
Auto Purge on Record Stop Er Achive Auto Continue Enabled	abled	Auto Plage on Record Stop Er	vabled d

Fig 7-1: Archive Options Screen.

Archiving is configured for individual recording channels, or pairs of channels, depending on the recording options settings. For each channel, the following settings should be configured:



#### Alarm Enabled

This option allows you to disable the archive warnings and alarms. It is primarily for users who don't wish to use Archiving and therefore don't want the distraction of having the archive warnings and alarms activating when data is overwritten.

#### **Buffer Size**

The buffer size (5-1000Mbytes for MPEG, 1–200Mbytes for G.729A) is the amount of un-archived data stored on the Net-Log before archiving will start. If you set the buffer to 150MB, the Net-Log waits until it has that much data before it archives to the selected destination. The size of the buffer you select is really dependent on network activity. If your network is quite busy you might want to set the buffer at a relatively low size (5-50MB).

#### Warn Time

In normal operation, the Net-Log records continually, overwriting information initially recorded on the drive when it reaches the end. The warn time is the amount of time prior to data loss on the Net-Log (5 mins to 14 days) and provides a warning that data will soon be overwritten which has not been archived. Once data is overwritten, the archive alarm will activate. Please note that if you have a busy network you should set this time quite high to give enough time to archive the data. This option has no effect if the Alarm Enabled option is disabled.

#### **Arrange Archive Audio into Fixed Duration Files**

When this box is ticked, the audio transferred from the Net-Log to the archive destination drive will be split into fixed length files, determined by the Target File Duration option. Without this option enabled, the audio files will appear on the archive destination drive as they do on the Net-Log.

#### **Target File Duration**

This is the duration (5 – 60mins) of the files that will be created on the destination drive. For example, if it is set to 5 minutes then the files on the target drive or device will be of a five-minute duration. This option is only valid when the "Arrange Archive Audio into Fixed Duration Files" box is ticked.

#### **File Type**

This determines the type of file that is created (.wav, .mp2 or .g7a).

#### **Destination IP Address**

This is the IP Address of the PC on the network that you want to archive to.

#### **Target Folder Share Name**

This should be set to the share name of the folder where you want the archives to be stored at the destination IP Address. Only the share name should be entered, not the path of the shared folder. To find the share name, locate the target folder in Windows Explorer, then right click on this folder and select "Sharing" from the popup menu. When the archive begins, sub-folders will be created automatically.

#### **Auto Purge on Record Stop Enabled**

When this box is ticked, all available audio is archived each time a recording is ended.

Once you are happy with the settings, press the "Update" button, and they will be written to the Net-Log shown in the Net-Log selector.

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**ARCHIVING** 

### **Format of Archived Files**

The archived files are stored in sub-directories beneath the directory name that you have defined. The format is (depending on the selected file type):

\IP Address\Service Name\dd-mm-yyyy\hh-mm-ss.wav
or
\IP Address\Service Name\dd-mm-yyyy\hh-mm-ss.mp2
or
\IP Address\Service Name\dd-mm-yyyy\hh-mm-ss.g7a

Where IP Address is the Net-Log's IP Address, Service Name is that defined in the Service Name tab of the Options, dd-mm-yyyy represents the date of the recording in daymonth-year format and hh-mm-ss is the start time of the recording in hours-minutes-seconds format.

### **Beginning to Archive**

To start archiving, select the Archive screen and press the "Archive Start" button (Fig 7-2) for the particular channels that you wish to archive. The LED in the button will illuminate when data is being archived (i.e. transferred from Net-Log to the PC).



Fig 7-2: Archive Screen.

If you want to stop the archive process, simply select the "Stop" button.

Note: You can only archive audio data from the Net-Log that you are currently logged on to. If you disconnect, all archiving will stop. See section 12 – Auto archive, for details of how to archive data from one or more Net-Logs simultaneously and without having to logon/logoff.

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## 8 Serial Control Interface

The Serial Control Interface allows external equipment to remotely control several functions of the Net-Log. Each of the available interface protocols have been designed according to customers' specific requirements. Additional interface options may be added in the future; please contact Sonifex Ltd for further details.

To enable the Serial Control Interface, enter the Options screen and select the "Control" tab (Fig 8-1). From the drop down list, select the required Control Interface type. If the drop down list is disabled, this means the firmware in the connected Net-Log has not got the Serial Control Interface enabled, or a later version of firmware is required.

Net-Log Selector	X	Drive Alam Inactive	Mentor Status	
Nog1	Disconnect	Archive Alam Inactive	Not Used	
Record   F Archive	Play   20	Options		
cord Archive Play Remote	E Clock Source Control	Net-Log-Win Info		
External Control	Interface			
Configure Net-Log to interface	with: No Control/Interface	selected ·		
	COLUMN DESIGNATION OF THE OWNER OWNER OF THE OWNER OW	COLUMN TRANSPORT		
	and the second s	reacted at		
	Televic CE2500 AMI/Crestron			
	Televic CE2500 AMG/Destton			
	Televic CE2500 AMC/Creation			
	Televic CL2500 AMC/Dectron			
	Televic 012500 AMO/Delition			
	Televic (12500 AMO/Derition			
	Televic CI 2500 AMO/Derition			
K.	Televic 02200 Add/Cleation			
74	Televic Ci 2500 AddrCentur			
74	Televic Ci 2000 Add/Centur			
	Televic Ci 2000 Add/Centuri			
	Tehnic Cl 2000			

Fig 8-1: Control Options Screen.

The Interface types currently available are:

- Televic CE2500
- AMX/Crestron

When a Control Interface type is selected from the list, the available settings for that type will then be displayed.

### **Televic CE2500 Interface**

The Televic CE2500 is the central control unit of Televic's Digital Conference and Interpretation System. This interface provides automatic record start when the Conference Systems' microphones are activated. The recording is then stopped when the microphone is deactivated. The Net-Log also extracts the microphone number and the name of the speaker from the microphone activation command and stores this information on the internal hard disk along with the normal cut information. This additional data is then displayed in the Play screens cut list. The Net-Log can currently support up to 128 microphones.

					- 12 🕻
Sie Edit Iools Administrator Help					
Net-Log Selector   Net-Log 1   Di	Convect Archive Alam In	active Mentor Sta Inactive Not Use	dun d		
Record     P Archive     P	W I Options				
Record   Archive   Play   Remotes   Clock Sc	Arce Control Net-Log-Win Int	la			
External Control/Interf	ace				
Audio Input 1		Audio Input 2			
Rt STEREO I Disabled I Single nic II Micrang	1 2 6 12 2	R2MOND C Disabled C Single mic R3MOND C Disabled C Single mic	(# Mic range 65	· 129	순 순

Fig 8-2: Televic CE2500 Interface Options.

The settings relating to this interface allow the available record channels to be associated with specific microphone numbers. Each channel is displayed according to the Record option settings. In Fig 8-2, Audio Input 1 is configured as stereo and Audio Input 2 is configured as dual mono. Each available channel is identified by the service name also given in the Record options.

# Note: Only one microphone number and name can be stored per recording, so the last one used is stored.

Each channel can be configured in one of three modes:

#### Disabled

When this option is selected, the channel will not be controlled by any of the microphones on the Conference System.



#### **Single Mic**

This selection configures the associated channel to be controlled by a single microphone. The microphone's identification number can be entered in the edit box. Alternatively use the up/down arrows to select the required identification number. The lowest microphone number is 1 and the highest is 128.

#### **Mic Range**

This selection configures the associated channel to be controlled by a range of microphones. Activating any one of the microphones in the specified range will start the channel recording. The channel will only then stop recording when all microphones in the range have been deactivated. Again the lowest microphone number is 1 and the highest is 128.

The settings for Single mic and Mic range can overlap such that a microphone can control multiple record channels.

Once the required settings have been entered, press the "Update" button, and they will be written to the Net-Log shown in the Net-Log selector.

The cut list display in the Play screen in Net-Log-Win will now show two additional columns: Mic and Name (see Fig 8-3). These new columns display the Mic number and the Name of the speaker who initiated the recording.

Net-L	og Selector		x	Drive Al	am inactive		Mentor Stal	ue i		
.0g1		• Dis	connect	Archive A	lam Inactive	6 11	Not Used	E I		
Record	F Archive	E Pa	<u> </u>	Options						
nioad   Prog	nam   Stream   File	- 1								
4 14	Audio in	put 1: F	1 STER	EO						
MPES Cut IN	newy	Dut details for	start date: 06	05/06				1	Auto Fishesh: On	
Start Date	No. Cuts	Stat Date	Stat Time	End Date	End Time	Status	Mic	Name		
07/09/06	1	06/09/06	15.41.49	06/09/06	15.4225	Qk.	2	Delegate 2		
		06/03/06	15.42.50	06/09/06	17:07:30	Qk.	9	Delegate 3		
										Retech
-										-
Play	ownload	_								
Start dat	2005 *					End date: 06/09/200	e	E.		
Start fine	e h m z		valor I			End time	hni			
15:40	24 ++++		00:00:10	::::	1.1	15:40:34		l.		
IT Select	audio by cut F	Generale N	e name itom o	ut details						
Dectination	lacess 1 240.71	2 bates								
Default	lokder C\Ter	φ								Save As.
	and the second									The second second

Fig 8-3: Additional Play Cut List Columns.

SERIAL CONTROL INTERF



When the Net-Log is powered up with the Televic CE2500 Interface selected, it waits to receive a synchronisation command from the CE2500 before it will execute any further commands. This is to ensure that if any of the microphones are currently activated, and have been previously associated with a record channel, recording is started on the relevant channel. The synchronisation commands are issued by the CE2500 every 5 seconds.

If an attempt is made to stop recording manually in Net-Log-Win on a channel that is associated with an active microphone, a warning message will be displayed in Net-Log-Win.

An alternative method of controlling the recording can be used when using the Televic CE2500 Interface. This is done by utilising the closing contact controlled by the AOP2500 Analog Output device. This contact is closed when any of the microphones is activated and remains closed until all microphones are deactivated.

By setting all available microphone options to "Disabled" in the Control Options screen, serial control of record start and stop is disabled. Note that the microphone number and name are still recorded in this mode, but because only one closing contact can be used by the AOP2500, only one channel can be recorded, so the microphone number and name are appended to the last recording.

The closing contact on the AOP2500 can then be used to control the remote inputs on Net-Log. See "Record Remotes" in Section 10 for more details on setting up the remote inputs and Section 13 for the pin descriptions of the remote connector.

### **Televic CE2500 Protocol**

The serial settings on	Net-Log for the Televic CE2500 interface are as follows:
Serial port:	COM2
Baud rate:	19200
Data bits:	8
Stop bits:	1
Parity:	none
Flow control:	none

The Net-Log responds to 7 of the serial commands issued by the CE2500 unit. These commands share a common structure:

STX ID DATA CRC ETX

where:

STX is the start transmit character '%' (0x25)

ID is a single character which identifies the command



#### DATA is text associated with the command

CRC is the 16 bit sum of the ASCII chars STX, ID & Data

ETX is the end transmit character (0x0D)

Examples of the 7 commands are as follows:

#### System Synchronisation

"%S0001000201D6\r"

"%" is the start of transmit character (0x25) "S" indicates command type "00010002" indicates that mics 1 and 2 are active (0000 for no mics active) "01D6" is the 16 bit CRC "\r" is the end of transmit character (0x0D)

#### **President Microphone Activation**

"%P0001Mr John Smith05A4\r"

"%" is the start of transmit character (0x25)
"P" indicates command type
"0001" indicates the microphone number
"Mr John Smith" is the speakers name
"05A4" is the 16 bit CRC
"\r" is the end of transmit character (0x0D)

#### **President Microphone Deactivation**

"%p00010131\r"

"%" is the start of transmit character (0x25) "p" indicates command type "0001" indicates the microphone number "0131" is the 16 bit CRC "\r" is the end of transmit character (0x0D)

#### **Delegate Microphone Activation**

"%M0002Mr Joe Bloggs058D\r"

"%" is the start of transmit character (0x25)
"M" indicates command type
"0002" indicates the microphone number
"Mr Joe Bloggs" is the speakers name
"058D" is the 16 bit CRC
"\r" is the end of transmit character (0x0D)





•

### **Delegate Microphone Deactivation** "%m0002012F\r"

"%" is the start of transmit character (0x25) "m" indicates command type "0002" indicates the microphone number "012F" is the 16 bit CRC "\r" is the end of transmit character (0x0D)

**Deactivate All Microphones** "%V00000116F\r"

"%" is the start of transmit character (0x25) "V" indicates command type "0000" indicates no mics active "0116" is the 16 bit CRC "\r" is the end of transmit character (0x0D)

#### System Reset (Deactivate All Microphones) "%R0052\r"

"%" is the start of transmit character (0x25) "R" indicates command type "0052" is the 16 bit CRC "\r" is the end of transmit character (0x0D)

### AMX/Crestron Interface

The AMX/Crestron interface provides simple record control and monitoring for the AMX/ Crestron range of Control Panels. These control panels provide a flexible user interface that can be used in addition to the client PCs running Net-Log-Win.

There are no additional configuration options for this interface type. The COM port settings and the protocol commands are fixed.

### **AMX/Crestron Protocol**

The serial settings or	Net-Log for the AMX/Crestron interface are as follows:
Serial port:	COM2. The serial control interface is implemented on COM2 on Net-Log. Net-Util usually uses COM1 on Net-Log, but when used in Crestron emulation mode, COM2 must be used.
Baud rate:	19200
Data bits:	8
Stop bits:	1
Parity:	none
Flow control:	none

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Operational Note: Flow control is not used. However the Net-Log does assert RTS whenever it has valid characters to transmit. The Net-Util program in Crestron emulation mode asserts RTS all the time. Using Net-Util with the RTS line disabled still works correctly. DCD and DTS are not used. The Net-Log constantly monitors the serial port looking for predefined control characters which signify that a valid command has been received. This control character is set to 0xD (13 decimal) which is the Carriage Return character in ASCII. All data received is buffered internally until this character is received at which point the buffer is closed and validated.

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The Net-Log recognises 5 serial commands issued by the AMX/Crestron Control Panel. These commands share a common structure as shown:

CMD DATA NL CR

where:

CMD is the command identifier

DATA is the data associated with the command

NL is the new line character (0x0A)

CR is the carriage return character (0x0D)

The Net-Log issues a reply to all valid commands received. The type of reply depends on the type of command received. For non-data request commands, the reply will either be an acknowledgement or an error code. For data request commands, the reply will consist of the data requested.

#### Note: The serial commands are case-sensitive.

#### Speed of Commands & Responses:

The safest and most reliable method of issuing a batch of RS232 commands to the Net-Log, is to send a command and then wait for a response before sending the next command. So for example, if you want to do a status poll of the Net-Log with:

STATUS TIME:1 TIME:2 TIME:3 TIME:4 you would proceed as follows: Issue a STATUS command, wait for status info response, then issue the TIME:1 command, and wait for the time info or error response,



NTROL INTERFACE



then issue the TIME:2 command, and wait for the time info or error response,

then issue the TIME:3 command, and wait for the time info or error response,

then issue the TIME:4 command, and wait for the time info or error response

The response time will depend on other factors, such as number of channels recording and archive and play activity. The RS232 port has a relatively low priority to ensure it does not interrupt critical processes.

### **Record Start Command**

Command:	"START:ch\n\r"
Reply:	"ACK\n\r" or "ERR:ee\n\r"
where:	START: = command identifier ch = channel 1,3 for stereo or 1,2,3,4 for mono \n\r = new line(0x0A) and carriage return(0x0D) ACK = command accepted ERR: = command rejected ee = error code (see below for error codes)

Record Stop Comma	nd
Command:	"STOP:ch\n\r"
Reply:	"ACK\n\r" or "ERR:ee\n\r"
where:	STOP: = command identifier
	ch = channel 1,3 for stereo or 1,2,3,4 for mono
	\n\r = new line(0x0A) and carriage return(0x0D)
	ACK = command accepted
	ERR: = command rejected
	ee = error code (see below for error codes)
Status Command	

Command:	"STATUS\n\r"
Reply:	"STATE:s1,s2,s3,s4,a1,a2,a3,a4,da\n\r"
where:	STATUS = command identifier
	$n^r = new line(0x0A) and carriage return(0x0D)$
	STATE: = reply identifier
	s1 – s4 = record channel status 0=not recording,
	1=recording,2=unavailable
	a1 – a4 = archive channel alarm status 0=no
	alarm,1=alarm activated,3=unavailable



#### **Time Command**

Command:	"TIME:ch\n\r"
Reply:	"TIME:ch,t1,t2\n\r"
where:	TIME: = command and reply identifier
	ch = channel 1,3 for stereo or 1,2,3,4 for mono
	$n^r = new line(0x0A) and carriage return(0x0D)$
	t1 = length of current recording in dd.hh.mm.ss
	t2 = time to data overwrite in dd.hh.mm.ss
Date Command	
Command:	"DATE\n\r"
Reply:	"DATE:dd/mm/yyyy hh.mm.ss\n\r"
where:	DATE = command identifier
	$n^r = new line(0x0A) and carriage return(0x0D)$



#### **Reply Error Codes**

The following error codes are used for non-data request commands (START and STOP):

dd/mm/yyyy = current date of Net-Log in GMT hh.mm.ss = current time of Net-Log in GMT

- 1 = invalid channel
- 2 = disabled channel

DATE: = reply identifier

- 3 = illegal channel
- 4 = channel already in requested state



### 9 Options

OPTION

The Options screens are used for initially configuring the Net-Log before recording. All of the options should be set before Net-Log starts recording, as some of them *can not be altered once recording has started.* 

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#### **Saving and Loading Options**

Once you have finished setting up the options, you can make a copy of them on a PC. This can be particularly useful if you have more than one Net-Log and you want each machine to share a similar configuration.

To save the options for the connected Net-Log, select File, Save As from the main menu. A dialogue will be displayed allowing you to specify the location and name of the file that will be used to store the current configuration information. Once you have made these selections, press Save.

To load a previously saved file, select File, Open and then select the file that contains the required configuration information.

#### Please note, you can only load and save options whilst in the options screens.

#### **Record Options**

This screen (Fig 9-1) displays the current settings of the two input channels, and also allows them to be changed. Each input is independent of the other, although when they are set-up for dual mono recording, the two mono channel record settings cannot be configured individually.

SSCionifex Net Log. Win V1.119 Die Edit Socia Administrator Belp	
NetLog Selector X Drive Alam NetLog 1 Disconnect Achive Alam	n Inactive Mentor Status em Inactive Not Used
Record      Archive      Record Archive      Record Archive Ray Remotes Clock Source Control Net-Log-Win	into
Audio Input 1	Audio Input 2 T
Format:     • MP(1)     • C 17294     © Dvenide Enabled       Mode:     • Manual     • Program     Start level     • (ii) =       • Arau Stati     Duanton (secit)     2     •       • Morred Evall     Duanton (secit)     3     •       • Steree     Steree Name:     •     •     •       Steree Name:     R1 STERED     •     •	Format:     C* MIP(1)     © 2234     IP Overside Enabled       Node:     Manual     C* Program     Stat level     IIII       C* Anac Stat     Duation (sect)     IIIII     IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
Record Capacity: Size: 15.304 Hilyten Duation: 7 days, 3 hrs, 7 mins	Record Capacity: Size: 7,552 Moytes per channel Duation: 73 days, 19 hrs. 12 mins per channel
Connected to Net-Log 1 Local: 07/09/06 09-58-56	6 Met-Log: 07/09/06 09:58:57

Fig 9-1: Record Options.



#### Disable

Disables the channel.

#### **Override Enabled**

Enables this channel to be controlled by the Record Control button on the front of the Net-Log.

#### Format

Selects the record format, either MPEG or G.729A. Any existing tracks must be deleted from all channels before the record format can be changed. To use the G.729A record format, an additional license must be purchased from Sonifex Ltd.

#### Mode

In Manual mode, recording is started and stopped via the Record Start button in the record screen.

In Program mode recording is automatically started and stopped according to the program for that particular channel. Note: If the mode is set to Manual mode, the Program record screen will not be available.

In Auto Start Mode, recording is started and stopped automatically as the input audio level passes through threshold level settings. Auto Start mode is not available for channels configured to use the G.729A record format.

#### Channels

Channel format i.e. stereo, mono or dual mono. For G.729A channels, only mono or dual mono configurations are available.

#### Sample Rate & Bit Rate

Selects the recording parameters for that Input. These settings are only relevant to MPEG configured channels.

When selecting the recording bit-rates for the two pairs of channels, it is important to refer to the maximum number of network connections in Chapter 3.

#### Start Level

Defines the auto recording start threshold level in dB. When the input audio level rises above this value, recording automatically starts.

#### **Start Duration**

Sets the minimum track length in seconds for auto recording. Tracks that are shorter than this value are automatically deleted.

#### Stop Level

Defines the auto recording stop threshold level in dB. When the input audio level falls below this value, recording provisionally stops.

#### **Stop Duration**

Sets the period of time that the input audio level must stay below the stop threshold level to complete the end of an auto recording. This value is in seconds.







#### Service Names

You can give names to the particular recording channels for easier identification These names are displayed on the record, archive and play screens and will also be stored in the MPEG BWF or G.729A header of an archive or download file.

Note that once recording has started on a channel, the record format cannot be changed until recording has stopped and all track(s) have been deleted.

#### **Record Capacity**

The slide bar at the bottom of the record options screen allows you to select the hard drive partition size for each input. The partition size is the amount of space allocated to each input for storing audio. The bigger the partition the more space is available, allowing for longer recordings. If an Audio Input is set to Mono (Dual), each mono channel will share equally the space allocated for that input.

The duration of the audio recorded to each partition is calculated and displayed. To change the duration for a fixed partition size using MPEG as the record format, the Bit Rate should be set to a new value. A lower Bit Rate means a longer duration and, conversely, a higher Bit Rate means a shorter duration.

### **Archive Options**

This screen (Fig 9-2) displays the current settings for archiving from the Net-Log. See Chapter 7 for more detailed information.

091 <u>*</u>	Disconnect Archive Al	lam Inactive Not Used	
ad Archive   Play   Remotes	Clock Source   Control   Net-Log-Win	Info	
Audio Input 1	V Alam Enabled	Audio Input 2	P Alem Enabled
Butter Size (Mbytec) Duration: Oh 3m 30s	5 🚯	Butter Size (Höytec) Duation: 1h 12n 43s	5
Warning prior to data loss (days)	14 🔶	Warning prior to data loss (days)	14 🛧
Astange Archive Audio into File	ed Duration Files	😥 Amerge Archive Audio into Fire	ed Duration Files
Target File Duration (mins):	5 🚭	Target File Duration (mine):	(i) 🛧
Target File Type:	MP2 +	Target File Type:	6.7294 •
IP Address:	192.168.0.40	IP Address	192 168.0.40
Target Folder Share Name: netlog	li internette internet	Target Folder Share Name: netlog	6
Auto Purge on Record Stop Enabled		Auto Purge on Record Stop Enabled     Active Auto Continue Enabled	
2			

Fig 9-2: Archive Options.


#### **Alarm Enabled**

Allows data loss warnings and alarms to be disabled.

#### Buffer Size (Mbytes)

Amount of data that has to be available before archiving can start.

#### Warn time prior to data loss

Amount of time prior to data loss occurring that a warning is activated.

#### Arrange Archive Audio into Fixed Duration Files Formats the archived audio into fixed duration files.

**Target File Duration (mins)** The length of the target files. (5 - 60 minutes)

#### **Target File Type**

The type of files that are created. The options available for this setting will change depending on the record format selected for this channel.

## **Destination IP Address**

The IP Address of the destination computer.

#### Target Folder Share Name

The share name of the destination folder on the target computer.

#### Auto Purge on Record Stop Enabled

Automatically downloads all outstanding audio on a channel when the recording is stopped.

#### **Archive Auto Continue Enabled**

Allows the PC running Net-Log-Win to automatically continue archiving on enabled channels.

#### Note that some of the settings cannot be changed while archiving is active for a channel.



**OPTIONS** 





## **Play Options**

This screen (Fig 9-3) displays the current play default settings. These settings apply to the PC currently running Net-Log-Win and are not saved on the currently connected Net-Log.

NetLog Selector X Deve Alam In Article 1 The Selector Alam In	nactive Mentor Status
R Round   Thi Autor   The Part   The Autor	
necos Placese Place	
ecord   Archive PRev   Remotes   Clock Source   Control   Net-Log-Win   Ini	lo
Play Defaults 🖓 Be Defaults	
Proventional Program Steam File	
Download	Program
Select audio by cut     Generate Remains from cut defails	III Auto create program name IIII Download separate cut for relected days
Folder C-Vudo	Folder: C-VTemp
File Type: (MPEG BWF +	File Type: MP3 • Bit Rate (ktps): 132 •
Stream	File
🕫 Ignore cut end time selection	Folder C\Temp
	_

Fig 9-3: Play Options.

#### **Use Defaults**

Enables all the defaults for play. If this box is not checked, all the defaults are ignored.

#### **Default Play Screen**

The selected play screen will be displayed first when entering play.

### **Play Download Defaults:**

#### Select Audio By Cut and Generate File Name From Cut Details

Enables the corresponding options in the play download screen.

#### Folder

Selects the default folder where downloaded audio files will be written.

### File Type and Bit Rate

Selects the default file type to create, and selects the MP3 bit rate when the file type is set to MP3.



## **Play Program Defaults:**

### Auto Create Program Name and Download Separate Cut For Selected Days

Enables the corresponding options in the play program screen.

#### Folder

Selects the default folder where downloaded audio files will be written.

#### **File Type and Bit Rate**

Selects the default file type to create, and selects the MP3 bit rate when the file type is set to MP3.

## **Play Stream Defaults:**

#### Ignore cut end time selection

Disables selection of the cut end time when clicking on the play stream cut list.

## **Play File Defaults:**

#### Folder

Selects the default folder for opening audio files in the play file screen.

### **Remotes Options**

This screen (Fig 9-4) displays the current settings of the record remote inputs for the Net-Log. The two pairs of audio input channels can be set-up independently. There are three settings for the remotes, and these are:



Fig 9-4: Record Remotes Options.







## Disabled

The remote inputs are disabled for this channel.

## Momentary

While the specific pin is connected to ground this channel will be recording.

## Latching

Connecting the specific pin to ground for half a second will cause the Net-Log to start recording on that channel. Doing this again will cause it to stop recording.

For information on the remote connector pin connections, please refer to Section 13 - Technical Specifications.

This screen also displays the current settings for the Alarm Relay. The remote connector has a pair of contacts that become connected/disconnected when an alarm condition occurs.

## Normally Off, Switched On For Alarm Condition

The contacts on the remote connector are connected when an alarm condition occurs.

Normally On, Switched Off For Alarm Condition

The contacts on the remote connector are disconnected when an alarm condition occurs.

## **Clock Source Options**

When updating the RTC clock, the Net-Log gets it's source from either the clock of the connected PC, or the Sonifex Mentor Server (Fig 9-5). For more information about how Net-Log uses the time settings see Section 10.

Sonilex Net Log Win V1.119		
Elle Edit Iools Administrator Help		
Net-Log Selector	X Drive Alam Inactive Mentor Status	
NetLog1	Disconnect Archive Alam Inactive Not Used	
Record P Archive	E Play Dotions	
Record   Archive   Play   Renotes C	Dock Source Control Net-Log/win I Info	
On-Board Clock		
Update trom C PC Dock Mentor Sa IP Adden	Free TS2 158 0.40	
Connected to Net-Log 1	Local: 07/09/06 10:23:14 Net-Log: 07/09/06 10:23:14	1

Fig 9-5: Clock Source Options.



## **Control Options**

This screen (Fig 9-6) displays the currently selected serial Control Interface. If any additional options exist for an interface, these will be displayed when the relevant type is selected. The current options are:

## No Control/Interface Selected

The serial Control Interface is disabled.

Net-Log Selector	Dive Alam Inactive Disconnect Archive Alam Inactive	Mentor Status Not Used	
Record E Archive	T Play T Options		
ord   Archive   Play   Remotes	Clock Source Control Net-Log/Win   Info		
External Control/In	iterface		5
Configure Net-Log to interface with	No Control/Interface selected      No Control/Interface selected      Televic CL 2500      Add/Creation		

Fig 9-6: Control Interface Options.

#### Televic CE2500

The Serial Control Interface is configured for connection to the Televic CE2500 Digital Conference and Interpretation System. Additional options are displayed for configuring the available record channels to be controlled by specific microphones (see Fig 9-7).

#### AMX/Crestron

The Serial Control Interface is configured for connection to an AMX/Crestron Control Panel. There are no additional options for this interface type. **OPTIONS** 



	Net-Log Selector	X	Drive Alars Inc.	the l	Mentor Statut		
T	let-Log 1	Disconnect	Archive Alam Inc	active	Not Used		
	Record F Archive	E Pay I	] Options				
F	lecord Archive Ray Renov	es   Clock Source Contro	NetLogWin   Info	1			
	External Contro	Unterface					
	Audio Input 1			Audio Ing	ut 2		
	R1 STERED C Disabled C Single mic	if Motange 1	9 10 32 10	R2MOND C Disabled C R3MONO C Disabled C	Single mic (* Mic san Single mic (* Mic san	en (65 en (97	· 10 95

Fig 9-7: Televic CE2500 Control Options.



## **Net-Log-Win Options**

This screen (Fig 9-8) displays the options specific to the appearance of Net-Log-Win. Two fonts used in the Net-Log-Win screens can be changed to allow different character sets to be displayed such as Japanese.

Net-Log Selector	X	Drive Alam Inactive	Mentor Status	
let-Log 1 🚊	] Disconnect	Archive Alam Inactive	Not Used	
Record     F Archive	E Pay I	Options		
Record   Archive   Play   Remotes	Clock Source   Control	Net-Log-Win Into		
Font Settings				17
Interfacet   Engineer	-			
This font will be used for informatio	n deplays such as char	nel nanes.		
	production of the second			
User Font   MS Sans Se	4			
This font will be used where user in	viormation is edited or d	liplayed, such as paths and filenar	mer.	and the second se
				Load Defaults
172				
				_✔ Lipdate

Fig 9-8: Net-Log-Win Options.

## Info Font

The info font is used to display channel names in the Record, Archive and Play screens.

#### **User Font**

The user font is used to display user entered text.

**OPTIONS** 





#### Information

This screen (Fig 9-9) displays general information about the Net-Log. The Network settings are the MAC Address, IP Address, Subnet Mask and Default Gateway for the connected Net-Log. The administrator can change all these settings (except the MAC address) by selecting the Network Settings menu in the administrator menu or by using the Net-Log-Win serial utility, whereby the settings are downloaded to the Net-Log via the serial port. The MAC Address is also stored in the BWF header of an archive or download file.

The Disk Drive Info shows the Model, Serial Number, Firmware Revision and Capacity of the disk drive.

This screen also reports the Remote capability of the Net-Log. Earlier units only had remote input connections on the rear panel mounted the 15-way 'D-Type' connector. These inputs are used to start and stop the recording process remotely. The latest Net-Log hardware has Record Tally Outputs on the 15-way 'D-Type' connector, in addition to the remote inputs, that indicate when the associated channel is recording.

Sonifex Het-Log-Win ¥1.119				
Elle Edit Jools Administrator Help	and the state		North States and	
Net-Log Selector	X Drive Alarm	nactive M	lentor Status	
Net-Log 1 Die	connect Archive Alam	Inactive	Not Used	
Record F Archive F Pla	Dptions			
Record   Archive   Play   Remotes   Clock So	uce   Control   Net-Log-Win	10		
Network Settings		Disk Drive	Info	14
MAC Addess 00:50 (2:05:AD:00) IP Address 132:168:0.254 Subnet Mark 255:255:255:0 Default Gateway 132:168:0.39		Model Number: Serial Number: Fernware Revision: Capacity:	Maxter 30073U4 N40K25FC BAC51KJ0 30.737 Mbytes	
Hardware Info				
Remote Capability: Remote Inputs Only				
				<b>√</b> ∐pdate
Connected to Net-Log 1	Local: 07/09/06 10:27:50	Net-Log: 07/09/06 10:	27:51	

Fig 9-9: Info Options.



# **10 The Administrator**

There are several operations that can only be accessed by the administrator. These include the License entry and Accounts editor screens and they are all accessed through the Administrator menu. (Fig 10-1).





Fig 10-1: Net-Log Administrator Menu.

## Licenses

This screen displays how many users the Net-Log is licensed for and also allows the administrator to enter more licenses. (See Fig 4-2)

## **Accounts Editor**

The Accounts Editor (Fig 10-2) can be accessed via the Administrator menu option and is used to set-up or change accounts for users who connect to the Net-Log. Below are all the default User Names. Initially the user name and passwords are the same – these can (and should) be altered once the software is running.

### "admin"

This is the Administrator's login. The administrator is in charge of defining user profiles and configuring the settings of the Net-Log.

#### "user1" to "user25"

Up to 25 users can be defined in the software. Each user can be given different access rights for each function – these are described in more detail below.

### "guest"

Guest entry allows playback only.

These password settings are stored on the Net-Log machine currently being connected to, so if you have a number of machines, you can change user access to each machine individually.



Net-Log a	accounts editor	N N N N N N N N N N N N N N N N N N N
	User Name admin	Password admin
Net-L	Function Access - View           Image: Record           Image: Archive           Image: Play           Image: Configuration	Function Access - Control Record Archive Play
		<u>✓ U</u> pdate X <u>C</u> ancel
dit the Net	-Log accounts	

Fig 10-2: Accounts Editor.

## **Function Access – View**

There are four check boxes associated with this restriction control (Fig 10-3) If checked, the currently selected user will be able to view that specific function but will not be able to change the operation of that specific function in any way.

Note that the administrator will always have view access to configuration and that this cannot be changed.



Fig 10-3: Function View.



## **Function Access – Control**

There are three check boxes associated with this restriction control (Fig 10-4). If checked, the currently selected user will be able to view and control that specific function.

Note that only one person can have access to archive control and by default this is the administrator.





Fig 10-4: Function Control.

#### **User Name & Password**

To change a user name or password, select the user whose details you wish to change and type in a new name or password (Fig 10-5).

Note that all the changes made will only take effect when the "Update" button is pressed. If "Abort" is pressed then the changes are lost.

User Name		Password
admin	-	admin

Fig 10-5: Select or Edit User Name & Password.

#### **The Onboard Clock**

The Net-Log uses an accurate onboard real time clock (RTC) to record the start & stop times of cuts and to start & stop record programs. This time is stored on the Net-Log in UTC format which is identical to Greenwich Mean Time and is unaffected by any summer or daylight saving time schemes.

The accuracy of the RTC is  $\pm$  1.53 minutes per month. This equates to about 3 seconds per day. During long or continuous recordings, an error can develop between the actual time a piece of audio is recorded, and the time used from the RTC to reference the cut. In a worst

THE ADMINISTRATOR



case scenario, when the RTC is running slightly slow with respect to real time, the audio at the end of a long recording could be unavailable. This is because the time stamp taken from the RTC for the end of the cut would be earlier than the actual time the cut ended. To overcome this, the Net-Log firmware determines whether the RTC derived time for the end of a recording differs from the time the Net-Log calculates the cut should end at. This calculation is made using the start time and length of the recording. Future play or archive accesses to this cut will then use this error figure to bias the search calculation so that the whole cut is accessible.

If the RTC has drifted, then the start time of any new cuts will not be a true reflection of the actual time the recording was started. If the start time for a recording is inaccurate, the time displayed when playing the recording and when searching within it will also be inaccurate. Also, if program record mode is used, the automated record starts/stops will not happen at exactly the right time. It is important therefore, to regularly update the RTC if accurate audio to time synchronisation is required.

### **Updating The Onboard Clock**

The onboard clock can be updated at any time. If an update occurs whilst a channel is recording, and the difference between the current RTC and the time update is greater than two seconds, the recording will stop prior to the clock update. Once the clock has been updated, a new recording will automatically begin. This is done to reduce the error correction required when searching for audio. It also happens so quickly that you will not lose any audio. However there will be a time difference between the two recordings.

There are two options for RTC clock updates. The first is to update Net-Log with the time currently set on the connected PC. This is an administrator only function and it is not automatic. The second option is to automatically synchronise the onboard clock to a specific PC using the Mentor software. It is advisable to have the clock on the PC running the Mentor server accurately maintained from an external source. The Mentor software will then distribute the time information to multiple Net-Logs every 30 minutes.

Whichever update method is used it is very important that any PC used to connect to Net-Log is set for the right Time Zone. Otherwise, the conversion between UTC and local time that Net-Log-Win performs for all time related data, will be incorrect. This is set in the PC Control Panel setting for Date/Time.

It is possible to force a clock update for either of the two clock options by selecting the Administrator menu (Fig 10-1), and then Update Onboard Clock. If you are using the PC clock option and you want to keep the Net-Log clock accurate to within 10 seconds, you will need to do this every 2-3 days.

#### **Network Settings**

To change the Network Settings of the Net-Log simply enter the administrator menu and select the Network Settings menu. The screen (Fig 10-6) shows the current settings and next to these are a series of edit boxes where the new settings should be typed. When they have been entered simply press the "Update" button, the settings will then be downloaded to the



Net-Log and the application will shut down. Once the Net-Log has re-initialised with new settings you can restart Net-Log-Win. You may need to change the IP Address of the unit in the device editor before you can attempt to log onto the Net-Log.

Change Netwo	rk Configurati	ion		-
P Address :	Current 192.168.0.179	New:		
Subret Mask :	255.255.255.0	255 255 255 0		
The st	rus of the update can be no	ontored via CDM1	Vodele X Abort	
3				
-			X Acor	

Fig 10-6: Network Settings.

### **Updating Firmware**

Net-Log User Handbook

From time to time updates will be made available to keep the Net-Log running smoothly and reliably. To update the firmware contained in the Net-Log simply select the "Firmware Update" option in the Administrator menu, you will then be given a warning and asked to confirm your action. If "Ok" is pressed, you will then have to select the update file (.dwn suffix). Once this has been done you will be taken to the Net-Log Update Firmware screen. Press the "Transfer" button and the file will then be transferred onto the hard drive contained on the Net-Log (Fig 10-7).



Net-Log S	elector	× I	Drive Alem Inschore	Marrier Status		
ag 1	-	Dimension	Archive Alam Inactive	CR.		
	Update Fin	mware				
	File Name : 0	Wenp/ww/1068	den			
	Size: J	20856 Bytes				
	Created On : 1	4/10/2005 14:20	2			
	1000					
	Ready to Isan	der fammare file				
					Transfer	
					X Abot	
	1					

Fig 10-7: Upgrading Firmware.

Please note that you can still abort the update even after the transfer has been completed. To commence the actual update, press the "Transfer" button again. The System ROM is then erased and programmed with the updated software (shown by the Record Control button on the front of the Net-Log being lit), after which the Net-Log will restart and is ready for use again. Note that updating the firmware can also be done using the Net-Log serial utility.

For the latest firmware updates check the Sonifex website at www.sonifex.co.uk.

Sometimes, updating the firmware can result in the loss of audio data depending on which firmware version you are upgrading from/to. Information on this is also on the website.

## **Resetting The Net-Log**

This option is a sub menu of system in the administrator menu. This is used to restore all the configuration settings to factory defaults. It also deletes all the tracks contained on the Net-Log.



# 11 Tools

The Tools menu (Fig 11-1) contains a number of useful tools to check on the performance and status of the Net-Log unit. There is also a Delete Cuts sub-menu, although this is only available to users who have record access.

<ul> <li>Show Cut List</li> <li>Auto Refresh Cut Display</li> <li>Play Cut Auto Load</li> <li>Hide Unavailable Cuts</li> <li>Suspend Play Programs</li> <li>Log Play Program Operation</li> </ul>			
Delete Cuts	•		
View	•	Net-Log Connections Net-Log Status Network Stats Audio Header Info Play Program Log	Shift+Ctrl+F1 Shift+Ctrl+F2 Shift+Ctrl+F3 Shift+Ctrl+F4 Shift+Ctrl+F5

Fig 11-1: Net-Log Tools Menu.

### **Show Cut List**

When this option is not ticked, the cut list display in the play screens is hidden. This option is ticked by default.

### **Auto Refresh Cut Display**

With this option ticked, the cut displays in the Play screen will automatically refresh when a recording is started or stopped, or when you change to a different channel.

## **Play Cut Auto Load**

When this option is ticked, the details of the first recording for the selected Start Date will automatically be loaded into the current Play screen (Play Download or Play Stream).

### **Hide Unavailable Cuts**

When this option is ticked, all recordings that are no longer available due to being overrecorded are hidden from the Play screen cut list.

### **Suspend Play Programs**

When this option is ticked, the execution of Play Programs is halted. Any program download that is currently active will be completed but no further downloads will start.

### **Log Play Program Operation**

When this option is ticked, information about the progress of Play Program downloads is written to a log file. Information includes details about when a download is completed, as well as information on any errors that were encountered during the program, such as failure to locate the selected audio.

TOOL





## **Deleting Cuts**

This menu option does exactly what it says. When you select this option a sub-menu appears showing all the channels that you are able to delete cuts from. Note that you can only delete cuts from a channel if this channel is not currently recording. The Delete All option automatically deletes all cuts from all non-recording channels.

### View

Contained in this menu are five sub-menus. Net-Log Connections, Net-Log Status, Network Stats, Audio Header Info and Play Program Log. Each of these display information about Net-Log's performance and status, and are described in more detail below.

## **Net-Log Connections**

This useful screen (Fig 11-2) displays all users currently connected to Net-Log, and displays their IP Address and connection duration.

Net-Lo	og Connection De	etails	
et-Log	User Name admin	IP Address 192.168.0.30	Duration Oh 31m 35s
2		Done	C Refresh

Fig 11-2: Net-Log Connections Screen.

### **Net-Log Status**

This screen (Fig 11-3) displays the status of the Net-Log and All the Input Channels. Described over leaf are all the status indicators.



#### **Drive Alarm**

Problem writing to the Disk. (Equivalent to the LED on the front panel). This Alarm is cleared only once the fault has been rectified.

The next 3 indicators give momentary indication of a change in state of the appropriate feature

## Cut Change

Indicates a recording start/stop or cuts being deleted.

### **Program Change**

Programs have been changed.

## Config Change

Configuration settings have been changed.

### **Record Auto Enabled**

Auto record mode is enabled on the specified channel.

#### **Record Active**

Net-Log is currently recording on the specified channel.

#### **Archive Enabled**

Archive is enabled on the specified channel.

## **Archive Pending**

Net-Log has data ready to archive for the specified channel but Archiving is not enabled.

#### **Archive Auto Purge**

Archive will transfer all available audio data for the specified channel.

#### **Archive Active**

Data is currently being archived from the specified channel.

#### **Archive Warn**

Loss of data is about to occur on the specified channel.

#### **Archive Alarm**

Loss of data is has occurred on the specified channel.



TOOLS

📲 Net-Log Status		
General Drive Alarm Cut Change Program Change Config Change	Audio Input 1 Record Left Auto Enabled Record Right Auto Enabled Record Right Auto Enabled Record Left Active Record Right Active Archive Left Enabled Archive Right Enabled Archive Right Pending Archive Right Pending Archive Right Auto Purge Archive Right Auto Purge Archive Right Auto Purge Archive Right Active Archive Right Active Archive Right Warn Archive Right Warn Archive Right Alarm	Audio Input 2 Record Left Auto Enabled Record Right Auto Enabled Record Right Auto Enabled Record Left Active Record Right Active Archive Left Enabled Archive Right Enabled Archive Left Pending Archive Left Pending Archive Right Pending Archive Left Auto Purge Archive Right Auto Purge Archive Right Auto Purge Archive Right Active Archive Right Active Archive Right Warn Archive Right Warn Archive Right Alarm

0 00 1-51

Fig 11-3: Net-Log Status Screen.

### **Network Stats**

This screen (Fig 11-4) displays the rate of transmission between the Net-Log and connected Client, and also displays the status messages transmitted to and from the Net-Log. This is useful for network traffic monitoring.

📲 Net-Log Network Statis	stics	×
Tx: \$0.0           Rx: 10_0_0_0_19e_c           Tx: \$0.0           Rx: 10_0_0_0_19e_c           Rx: 10_0_0_0_19e_c           Rx: 10_0_0_0_19e_c	d I	×
☐ Suspend ✔ Always on top	Bytes transmitted : 7904 Bytes received : 28122	Done

Fig 11-4: Net-Log Stats Screen.



## **Audio Header Info**

This screen (Fig 11-5) shows detailed information about the audio cuts on the selected Net-Log. It is mainly for debugging purposes.

📲 Net-L	og Audio Header	Viewer			$\mathbf{X}$
		Audio	Input 1	Audio	Input 2
		Left/Stereo	Right	Left/Stereo	Right
	First Data Sector	0003d8b0	05d55ef0	0ba6e530	11786Ь70
	Last Data Sector	Oba6e530	0ba6e530	11786b70	1749f1b0
	Record Sector	0005ьь80	05d55ef0	Oba6feca	1178850a
	Record Active	1	0	1	1
	CStatus	0	0	0	0
	Archive Sector	0003d8b0	05d55ef0	0ba6e530	11786b70
	New Loop Date	17/05/06	01/01/01	17/05/06	17/05/06
	New Loop Time	08:28:44	00:00:00	08:28:46	08:28:47
	Number New Cuts	3	1	2	2
	Old Loop Date	01/01/01	01/01/01	01/01/01	01/01/01
	Old Loop Time	00:00:00	00:00:00	00:00:00	00:00:00
	Number Old Cuts	0	0	0	0
				🗸 Dor	e Refresh

Fig 11-5: Net-Log Audio Header Info Screen.

## **Play Program Log**

This screen (Fig 11-6) shows information on the progress of any Play Programs that have been executed. Its main use is to determine the cause of any errors that were encountered.

E Play	ProgramLog	×
Net-Log	Program Test cut 1 of 5 downloaded to C:\TemplAudo\Test\18 Sep 2006 18:00:00 5m00a mp3 completed at 22:00:43 on 22:00:06 Program Test cut 2 of 5 downloaded to C:\TemplAudo\Test\18 Sep 2006 18:00:00 5m00a mp3 completed at 22:00:43 on 22:00:06 Program Test cut 2 of 5 downloaded to C:\TemplAudo\Test\20 Sep 2006 18:00:00 5m00a mp3 completed at 22:00:20 on 22:00:06 Program Test cut 3 of 5 downloaded to C:\TemplAudo\Test\20 Sep 2006 18:00:00 5m00a mp3 completed at 22:00:00 n Program Test cut 4 of 5 exts - selected audo not found Program Test cut 5 of 5 exts - selected audo not found	0
	C Done Bellevit X D	Idete

Fig 11-6: Play Program Log Screen.

TOOLS



## **About Sonifex Net-Log**

This screen (Fig 11-7) accessible from the help menu shows the software versions of the Net-Log-Win and the currently connected Net-Log. The current status of the License on the currently connected Net-Log is also shown here. The information on this screen is mainly used for debugging and version checking.

About Sonifex Net-Log-	Win	
Net-L	og-Win	
Copyright © 2006 Sonifex	Limited - All rights reserved.	-
Version Information: Net-Log-Win: Net-Log-Win stream filter: Net-Log base: Net-Log:	1.119 1.001 e 1.109/0111	
License Information: Option: Expires: Users: G.723A Record Format:	1 (Master) n/a 5 Enabled	
Hard Drive Informatio Model Number: Capacity:	<b>n:</b> Maxtor 33073U4 30,737 Mbytes	
MAD MPEG Audio De Version:	coder Information: 0.15.1 (beta)	
LAME MP3 Encoder I lame_enc.dll version: lame_enc Engine: lame_enc homepage.	nformation: 1.32 (29/07/2004) 3.96 http://www.mp3dev.org/	
ŝ	onfexhoms page	ок

Fig 11-7: Net-Log About Screen.

ANNIA



# **12 Auto-Archive**

### Introduction

Auto-Archive can be used to archive audio, control the recording process and schedule recording of up to twenty Net-Log units simultaneously. Using Net-Log-Win to archive material from a Net-Log unit to a PC/Server requires a user to manually log-on to the Net-Log, initiate archiving and remain logged-on for the duration of the archive process. Whilst this is satisfactory for most set-ups with one Net-Log unit, a more automated solution is required for installations of two or more Net-Log units. Net-Log Auto-Archive can be used with up to twenty Net-Logs simultaneously, automatically logging-in, archiving the available material and logging-out.

Source Net Log Auto Art	this VT-200-1	wimary Arthree						10	
Be yes jack	- 100 St 177				_				
0 0 3	3 3	58							
Data Crev Albert 10	REFERENCES	2194	_		_	_			_
Net-Log Ltst	Status Ove	Evaluation of the second secon							
KILOG (1 (Lew 33)	NETLOS 03	NO DRIVE ASSIM	No Cuit Change	ne megnen Charige	Ine carify change		A suggest and	Diviting	
2 HERLOG C2 (Liser 20)	Auto Davit L	Peoplate	Adventive	Adrebuies	143 Auto Purge	Na Ardive Tiern	No Ardive Ferding	No Ard tire Alarm	. 11
INFLOCIS (Leer33)	Rude Input 39	<b>Heard Actual</b>	Archive-Active	Archive Erabled	No Auto Purge	Re Jochne Riam	No Inchive Fending	No Archive Alam	- 11
C METLON 04 (LAM 21)	Auto Dour Z.	Record Active	active Active	Active Swited	ND-Acto Purget	No Arithwe Warn	Fig. Archive Persing.	10 Ard/the Alarte	
25 NETLO9 C1 Law 20	Aude 21put 21	Feori Artist	AUTHEATHE	Ardive Dreber	No Auto Puret	Ne Anthre Tiam	tic Archive Ferdine	140 Ardhine Alama	- 11
2 NETLOC DE (Leer 20)	NERLOGICE	ND Drive Alarm	No Cut Change	Re Preptan Change	He Config Charge		Lapped in	ManDy	- 11
NE3006.07 (USE 20)	Aude Dout L	Record Active	TRI-PUDVE AUTOR	And yes Braded	ND Auto Purpe	No Archive Riam	Fig. Archive Periding	NO AUTHOR FRAME	
2 NETLOG 08 (user 25)	Audio 216-01 27.	No Record Active	The Archive Active	The Archive Bradowd	Nap Auto Purge :	No Androse Trains	Tie Ardwaltending	143 Avdrine Nam	- 11
- 2 HE LOCE OF (14M-20)	Auto Input 1	second across	THE REPORT ACTIVE	archive masset	NO AUTO PUTOR	tas archve itiam	His Archsus Pending	100 ALTOIN AGAIN	- 11
2 PT106 20 6 49 719	Aude Insu: 24	No Resarci Autore	The Percent Active	The Archive Drubled	No Auto Purge	Na Archive Ram	No Archive Percing	No Ardine Alam	- 11
	NELCOC CD	No Deve Alarm	The SLA Change	he mepae change	THE CAPITY Change		Logeran	TMYNDY	
	AUGO DIQUE IL	SECURATE STATES	TO WOME ACTVE	Antive medied	NO AUCE PUIDE	NO APONE THEM	No. Andruis Henong	NO ACTIVE ADVIN	
	Aude Input 19	Record Active	TIE AVOINE ACTIVE	Archive Endbled	No Auto Purge	Ne Archive Nam	Fig Archive Fending	No Ardnie Alam	
	270452012	Record Active	THE AVENUE ACTIVE	Arthur Statist	verward words	No Jophie Ram	the Ardnue tending	10 AUPTIR Alam	- 11
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Fig 12-1: The Status Screen.

### Licensing

When connecting to a Net-Log unit, an available stream license is required to perform the archiving process.

Using Net-Log-Win, it is suggested that a user (such as User20) is defined as having 'Archive Control' and 'Record Control', but no 'Play Control'. Auto-Archive will then only use one stream license when connected to a Net-Log unit.

**AUTO-ARCHIVE** 

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**AUTO-ARCHIVE** 

When Auto-Archive logs on to the Net-Log, it uses one of the user accounts to do this. See "The Settings Screen" later in this chapter for information on defining the User Name used for auto archiving.



## The Net-Log List

The Net-Log Auto-Archive screen displays the defined list of Net-Log units down the left side. When a particular unit has been logged-on, the User Name is displayed in brackets. See Fig 12-2. This list can be edited by selecting Tools from the main menu, and then selecting Settings.

#### **The Status Bar**

The status bar has transmit (Tx) and receive (Rx) indicators, which can be viewed to confirm the connection to the selected Net-Log.

## Performance

Please note that the performance of Auto-Archive depends upon the network and PC architecture, number of Net-Log units and the bit rate of the archives being created.

Fig 12-2: The Net-Log List.

### System Set-up

Net-Log units are equipped with 10mb/s network interfaces that should be connected directly to a 10/100 or 10/100/1000 capable Ethernet switch. The archiving PC/server should be fitted with at least a 100mb/s network interface. If possible use a 1000mb/s network interface, especially if multiple Net-Logs are being archived with high bit rates (e.g. 384kb/s stereo, or 192kb/s mono).

### **Starting The Archive**

Before the archive process can begin, the Auto-Archive utility has to Login to the Net-Log(s). This is achieved in one of two ways. To manually connect to a Net-Log, right click on the Net-Log name on the left side on the screen and then select Connect. Once a connection has been established, and the archive rights of the account used to logon to the Net-Log has been confirmed, archiving can begin. Auto-Archive will then stay connected to the Net-Log until it is manually disconnected. To do this, right click on the Net-Log name and select Disconnect. For a more automated setup, Auto-Archive can be set to automatically Login to the configured Net-Logs, check for and archive outstanding audio, and then Logout. See the Auto Login/Logout option in the Device List later in this chapter for details.



### **The Settings Screen**

To access the Settings screen, select Tools from the main menu, and then select Settings. The screen shown in Fig 12-3 will be displayed.

#### **Device List**

Define your list of Net-Log units using the 'Add', 'Replace', and 'Delete' buttons. To fully automate the archive process, select the Auto Login/Logout checkbox to allow Auto-Archive to automatically login to each configured Net-Log at regular intervals and archive outstanding audio. This option must be set individually for all required Net-Logs.

To enable successful archiving on each Net-Log, be sure to use the User Name and password that has 'Archive Control' rights.

When connecting to a Net-Log unit, an available stream license is required to perform the archiving process.

Using Net-Log-Win, it is suggested that a user (such as User20) is defined as just having 'Archive Control' and no 'Play Control', and this user used by Net-Log Auto-Archive.

Settings				
Net-Logs General E-ma	il Alerts			
Name	Address	User Name	Auto-Connec	t
NetLog 01	192.168.0.60	user 20	No	
NetLog 02	192.168.0.61	user20	No	
NetLog 03	192.168.0.62	user20	No	
NetLog 04	192.168.0.63	user20	No	
NetLog 05	192.168.0.64	user20	No	
NetLog 06	192.168.0.65	user20	No	
NetLog 07	192.168.0.66	user20	No	
NetLog 08	192.168.0.67	user20	No	
NetLog 09	192.168.0.68	user20	No	
NetLog 10	192.168.0.69	user20	No	
Net-Log Name:	TCP/IP Address:			
NetLog 01	192.168.0.60	Auto Logi	n/Logout?	
User Name:	Password:			Replace
user20	******	7		Delete
RAI Clock Option - Ne	L-Logs do not require GMT	to LocalTime co	nversion.	
			ОК	Cancel

See chapter 10 for more information on licensing and users and rights.

Fig 12-3: Net-Log Device List.

**AUTO-ARCHIVE** 





**AUTO-ARCHIVE** 

ettings		
Net-Logs Genera	E-mail Alerts	
System Name:	Primary Archive	
	<ul> <li>Use cut start time as folder name</li> <li>For use with Sonifex MiniPlayer software.</li> <li>Force record stop at midnight</li> <li>Stops all recording on connected NetLogs.</li> </ul>	
	Auto-Delete Enabled 2 ays Deletions are permanent!	
	Use mm-dd-yyyy format for archive folders Alternative date formatting.	
	OF	Cancel

Fig 12-4: The Settings Screen.

### System Name

Enter a meaningful name to describe this particular system. This name will appear in the applications caption bar and any emails sent from this system. This can be especially useful if two or more Auto-Archive systems are in use.

### **Force Record Stop at Midnight**

With the force stop option checked all recording channels will be forceably stopped at midnight. This feature requires Auto-Archive to be logged-in to the Net-Log units over the turn of midnight.

### **Auto-Delete Archives**

If Auto-Delete is enabled, previously archived material will be deleted after the specified number of days.

### Use mm-dd-yyyy Format for Archive Folders

Check this option if you require the archive folder names to use the mm-dd-yyyy format and not the default dd-mm-yyyy format.



Net-Logs Cere	gi E-mai Aierta	
SMTP Address:	antp.your-company.com	
Address To:	user Byour-company.com	
	🔄 Send status e-mail on 🕴 😩 hour interval.	
	Send e-mail on 'System Drox'	
	Send e-mail on 'Archive Warn'	
	🕑 Send e-mail on 'Archive Alarmi'	
	Send e-mail on "Schedule limo"	
		-
		-



Fig 12-5: The Settings Screen.

#### E-Mail

These options are used to configure the sending of the e-mailed status reports.

- SMTP Address TCP/IP address of your e-mail server.
- Address To E-mail address of recipient. Must contain only one address and in the format: user@your-company.com
- Interval Interval (in hours) between sending of Status Reports. Suggest setting this between '6' and '24' hours.
- E-mail Status Report option to send/not send Status Reports.
- E-mail Error Report option to send/not send Error Reports.
- E-mail 'Archive Warn' option to send/not send 'Archive Warn' reports.
- E-mail 'Archive Alarm' option to send/not send 'Archive Alarm' reports.
- E-mail 'Schedule Error' option to send/not send 'Schedule Error' reports.

See later in this chapter for a description of these reports.



## **The Status Screen**

The Status screen displays the current known status of each defined Net-Log unit. See Fig 12-6.



To view the Status Screen, press the 'Status' button on the toolbar.

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Color Lewis	Ade hot 1	Rented Active	he Ardive Active	Archive Drabled	The Auto Funct	he kidnie Warn	he Ardne Pendina	No Archive Albim	
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Fig 12-6: The Status Screen.

If auto-login and/or auto-logout are enabled, this screen also shows the login and log-out countdown timers for each Net-Log unit.



## **The Control Screen**

The Control Screen can be used to start and stop recordings, and also start and stop the archive process on each of the designated Net-Log units. See Fig 12-7.

Archive LED states:

- Flashing Yellow : Archive Pending
- Steady Yellow : Archive Active
- Flashing Red : Archive Warn
- Steady Red : Archive Alarm
- Off : No Archive Pending



To view the Control Screen, press the 'Control' button on the toolbar.

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Fig 12-7: The Control Screen.



### **The Archive Screen**

The Archive Screen can also be used to control the archive process of the currently selected Net-Log. See Fig 12-8.

This screen also shows record parameters, archive settings and displays the filenames of archives currently being written to disk. See Chapter 9 on the use of the Archiving settings.



To view the Archive Screen, press the 'Archive' button on the toolbar.

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Fig 12-8: The Archive Screen.

### **The Event Log Screen**

The Event Log Screen lists noteworthy events in chronological order. See Fig 12-9.

Such events include:

- connections/disconnections with Net-Log units
- important information regarding failure to properly archive material
- confirmation of sent email reports



To view the Event Log Screen, press the 'Log' button on the toolbar.



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	24/07/0017 09:09:58	Lago	AETLOG 67 (182, 188,0.66) - COMECTORUOG - LISER: americo	Enformations
	24/07/0207198-09-05	Login	METLOG 06 [192.168.0.05] - Cannectur maxemful	Statement Statement Statement
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	24(07/2007 09:09:55	Legin	NETLOS ON FLAZ, SAR 6.421 - COM ECTION LOS - LISER: UNIT 20	2-fampion
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	24/01/2007 09/09/04	Legin	METLOC 05 (132, 148-0.04) - Attempting to connect to NETLOC 05	Information
	14/01/0007 (Rd9c14	Logn	SETUDS 05 [182 188.0.64] - COMECTER LDG -LINER INFO	anthomaton
	24/07/02/07 99:09:63	Login	METLOG 04 (192, 168, 0, 62) - Convector successful	Success
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	24/07/0007 09/09/63	Logn	tel1.00.021182 (AR.0.61) - Connector summerful	Tablese
	24/07/2007 (94/06:53	Login	METLOG 02 T192, 168-0.010 - Alternative to convert to NETLOG 20	2 Vertation
	34/07/0007 (9:09:58)	Logo	NUTLING OF FIRE MARIE ALL - COMMITTEN LOG - LSBR: UNKERD	2-thomas som
	24(07/2007 09:09:53)	Legin	NETLOG 01 [182, 148-0.42] - Convector successful	Success
	24(0)(0007-09(09-48	LAGO.	service or free last and - amerenne to mover in herbics or	2 Marrie San
	24/07/2007 99/09/19	Lingh	METLOG IN TUNE 148-0.452 - COMINECTION LOG - LISER / weer 30	Information
	24/03/0007 99/09/47	R-Post	Decement for anti-printilinal	Success
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	24/07/2007 25/08-45	E-Plat	Convertient to write particulational	Tourses.

Fig 12-9: The Event Log Screen.

### Reports

There are a number of e-mailed reports available from Net-Log Auto-Archive.

#### **Status Report**

The general Status Report includes information regarding the known current state of all defined Net-Log units, including Login/logout timings and audio input status.



This report can be generated manually by pressing the 'E-Mail' report button on the toolbar.

### **Error Report**

Error reports are generated when a communication error has occurred with a single Net-Log unit. The error type will be included within the report. Whilst some of these errors will be critical (such as 'Connection Error'), some are not (such as 'User Unavailable')





- 'Invalid User Name' User Name is not recognised by Net-Log unit. Check Options.
- 'Invalid Password' password is not recognised by Net-Log unit. Check Options.
- 'User Unavailable' user is already logged-in. Check connected users with Net-Log-Win.
- 'No/Bad Response' connection broken. Check network cabling.
- 'No Valid Licenses' Net-Log has not been licensed. Use Net-Log-Win to issue a license.
- 'Valid licenses in use' all licenses are in use.
- 'Connection Error' unable to connect to Net-Log. Check network cabling.
- 'No Disk Space!' archive target has no useable space remaining. Change archive destination or make some space available.

#### **Archive Warn Report**

'Archive Warn' reports are generated when a Net-Log input channel is about to overwrite material that has not yet been archived. This usually happens when the input channel has not been 'Archive Enabled'.

### **Archive Alarm Report**

'Archive Alarm' reports are generated when a Net-Log input channel is overwriting material that has not been archived. This usually happens when the input channel has not been 'Archive Enabled'.

### Startup/ Shutdown

Auto-Archive automatically sends a confirmation email whenever the application is started or closed.

### **The Schedule**

From version 1.200, Net-Log Auto-Archive can be used in conjunction with the Sonifex Net-Log Scheduler application (see Chapter 13) to start and stop scheduled recordings on up to twenty Net-Log units.

## **The Schedule Database**

The schedule is stored within a local Microsoft Access database file called 'schedule.mdb' and can be found in the 'c:\program files\sonifex\net-log auto-archive\schedule' folder.



### **Network Scheduling**

If you plan to use the Net-Log Scheduler application on a different computer to that of Net-Log Auto-Archive, then the folder where the schedule database is stored needs to be shared.



Fig 12-10: Sharing and Security Selection.

Locate the 'c:\program files\sonifex\net-log auto-archive\schedule' folder using Windows Explorer, right-click and select 'Sharing and Security' from the menu.

Do got sha	we this folder
· 2 are the	folder
Spare name:	Schedule
Comment:	
User limit:	Baimum aloved
	O Alog this number of users:
To set permiss folder over the	sona for users who access this gemissions
To configure a Caching.	ettings for offline access, click. Caching

In the 'Schedule Properties' tab, select 'Share this folder' as 'Schedule'. Then press the 'Permissions' button.

Fig 12-11: Schedule Properties Screen.





7	Share Permissions		Ľ
ł	Group or user names:		
	D Everyone		
	Permanons for Everyone	Add	Renove Deny
I	Full Control Change Ban1	202	

In the 'Permissions for Schedule' tab check 'Full Control' to 'Everyone'. The press the 'OK' button.

Fig 12-12: Permissions Screen.

# The Schedule Screen

The scheduling feature of Net-Log Auto-Archive can only be accessed if the computer has a Sonifex D:Scribe Server dongle fitted.



Fig 12-13: D:Scribe Dongle.



To open the Schedule Screen, press the 'Schedule' button on the toolbar, or select 'View->Schedule Screen' from the menu.



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Fig 12-14: Primary Archive Screen.

The Schedule Screen shows a list of current and passed scheduled recording events. Auto-Archive cannot be used to add to, edit or remove events from the schedule, this can only be accomplished through the Net-Log Scheduler software.

Auto-Archive can only successfully start and stop recordings from the schedule when the required Net-Log is online and logged-in with a user of sufficient rights to the record process.





# 13 Net-Log Scheduler

## Introduction

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The Net-Log Scheduler application is used in conjunction with Net-Log Auto-Archive to schedule recordings on upto twenty Net-Log units.

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Fig 13-1: Net-Log Scheduler's Listing.

The user can add new events, edit existing events, and delete events from the schedule. The schedule listing is automatically refreshed every two minutes to show additions and changes that may have been made from another computer. Alternatively, the listing can be refreshed manually by pressing the 'Refresh' button on the toolbar.

## **Database Connection Status**

The status of the connections to the two databases is displayed at the top of the window. Each status indicator should read "CONNECTION OK", but could read "FAILURE" in the event of server or network failure / maintenance.

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## **Primary and Backup Schedules**

The Net-Log Schedule application can be configured to use up to two databases on separate Auto-Archive computers. This arrangement can be used as a primary and a backup system.



Fig 13-2: Block diagram showing two mirrored systems for use as primary and backup.

The list of available Net-Log units and thier channels is derived from each Net-Log Auto-Archive in the system. Each Auto-Archive should name its corresponding Net-Log units identically to those Net-Logs in the opposite system which have the same function.



## **Database Locations**

To select the primary and backup database locations, select 'View->Settings' from the menu.

Select Database	Locations	
Primary Database:	\\Precis01\schedule	Browse
Use Backup		
Backup Database:	\\Precis02\schedule	Browse
	OK	Cancel

Fig 13-3: Selecting Database Locations.

Enter the location of the primary database or use the browse button to search the local PC or the network.

If you are also using a backup recording and archiving system check the 'Use Backup' option and browse for the location of the backup database.

## **Create a New Event**

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Fig 13-4: Entering a New Schedule Recording.




To schedule a new recording, click on the 'New' button or select 'File->New' from the menu.

Select the appropriate Net-Log and Channel to record, and enter the correct start date/time, end date/time and give the recording a meaningful name.

After pressing the 'Save' button on the toolbar, the schedule listing will be updated with the new event.

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Fig 13-5: Updated Listings with a New Recording.

Once a number of recordings have been sceduled, the list can be sorted by clicking on the column headings. The date/time of the next start/stop event is highlight ed in green.

Once a scheduled event has expired (passed the stop date/time) the event is low-lighted. After seven days, the item is removed from the Current Events list and is place in a Historic Events list. The lists can be viewed by selecting the appropriate item from the 'View' menu.

There is no limit to the number of recordings that can be sheduled. Although, it is recommended that events are manually deleted from the Historic Events list periodically to ensure system stability.





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Fig 13-6: A Schedule List Showing Multiple Recordings..

### **Refreshing the Schedules**

The primary and backup schedules automatically refresh every 2 minutes. To force a refreshed view of the schedules, press the "REFRESH" button.

**OO TECHNICAL SPECIFICATION** 

14 Technical Specification - Net-Log					
Physical Specification					
External Dimensions:	1U 19″ rack X 220mm deep				
Net Weight:	2.5kg				
Gross Weight:	3.5kg				
Audio Specification					
Input Impedance:	>10kΩ balanced				
Input Gain Range:	-6dBu to +20dBu ref. full scale digits				
Maximum Input Level:	+20dBu				
Distortion:	<0.1% @ 1kHz +16dBu				
Signal To Noise Ratio:	90 dB RMS a wtd. 22kHz bandwidth				
Wow and Flutter:	Un-measurable				
Phase Error at 10kHz:	Un-measurable				

Please note that the audio specification of the play output depends on the soundcard that you have installed in your PC. Net-Log is a recording device and has no audio output of its own.

Rear Panel Connections, O	Controls and Indicators			
Analogue Inputs (4):	XLR 3 Pin socket			
Input Level Controls (4):	Rotary pre-set potentiometers			
Network:	RJ45 (10BaseT) and BNC (10Base2) 10Mbps Ethernet			
Network Status LED's:	Rx, Tx, link and collision			
RS232 (2):	9 way D-type plug			
Alarm Outputs and				
Remote Inputs/Outputs:	15 way D-type plug			
Power:	IEC Power Plug, 95-265 VAC, 47-63Hz, peak 60W, 30W average			
Front Panel Controls and	Indicators			
Controls:	Record control to instantly start recording			
Alarm Indicators (2):	Disk drive alarm, archive alarm			
Level Indicators (4):	Analogue input level for each indicator			

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Additional Information	
Audio Formats:	MPEG layer 2, G.729A
Sample Rates:	MPEG: 16kHz, 22.05kHz, 24kHz, 32kHz, 44.1kHz and 48kHz G.729A: fixed at 8kHz
Recording Types:	MPEG: Stereo, Dual Mono, Mono G.729A: Dual Mono, Mono
Minimum PC Specification	Pentium 166MHz, 64MB RAM, Windows compatible Sound card (capable of playing PCM files) & speakers, 10Mbps network connection, Windows 98/NT/2000/XP, DirectX 6 or greater.
Real Time Clock Accuracy:	1.53 minutes per month.
Hard Disk Capacity:	A minimum hard-disk size of 200GB is fitted Due to the rapidly increase of disk capacities, the actual hard disk installed may be larger
	than this.

The following tables show the capacity in duration for the different record formats. If more than one channel is used then the duration will need to be shared.

### **MP2 Record Data Rates**

MPEG Data Rate in kilobits per second (kbps)	Record Duration per Gigabyte of Hard Disk Space
8	11d 13h 46m
16	5d 18h 53m
24	3d 20h 35m
32	2d 21h 26m
40	2d 7h 33m
48	1d 22h 17m
56	1d 15h 40m
64	1d 10h 43m
80	1d 3h 46m
96	23h 8m
112	19h 50m
128	17h 22m

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MPEG Data Rate in kilobits per second (kbps)	Record Duration per Gigabyte of Hard Disk Space
144	15h 25m
160	13h 53m
192	11h 34m
224	9h 55m
256	8h 41m
320	6h 56m
384	5h 47m

**Record Duration per Gigabyte of** 

9d 15h 28m

Hard Disk Space



MP3 Data	Rates 9	Supported	For Play	Download

G.729A Data Rate in kilobits

per second (kbps)

9.6 (fixed)

The selectable mp3 bit rates for Play Download in Net-Log-Win are dependant on the sample rate of the original recording as follows:

Original Sample Rate:	Available Bit-Rates:
16kHz, 22kHz & 24kHz	32 kbps, 40 kbps, 48 kbps, 56 kbps, 64 kbps, 80 kbps, 96 kbps, 112 kbps, 128 kbps or 160 kbps
32kHz, 44.1kHz & 48kHz	32 kbps, 40 kbps, 48 kbps, 56 kbps, 64 kbps, 80 kbps, 96 kbps, 112 kbps, 128 kbps, 160 kbps, 192 kbps, 224 kbps, 256 kbps or 320kbps

### **Pin Connections**

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COM 1/2 (9 Pin D-Type Plug):							
Pin No.	Signal	Direction	Description				
1	CD	I	Carrier Detect				
2	Rx	I	Receive Data				
3	Тх	0	Transmit Data				
4	DTR	0	Data Terminal Ready				
5	SG	-	Signal Ground				
6	DSR	I	Data Set Ready				
7	RTS	0	Request To Send				
8	CTS	I	Clear To Send				
9	N/C	-	No Connection				

Network	Network Connector (RJ45):						
Pin No.	Signal	Direction	Description				
1	Tx+	0	Transmit Data (Positive)				
2	Tx-	0	Transmit Data (Negative)				
3	Rx+	I	Receive Data (Positive)				
4	N/C	-	No Connection				
5	N/C	-	No Connection				
6	Rx-	I	Receive Data (Negative)				
7	N/C	-	No Connection				
8	N/C	-	No Connection				

Network	Network Connector (BNC Socket):					
Pin No.	Pin No. Signal		Description			
1	Rx	I	Receive Data			
2	Тх	0	Transmit Data			

Audio Inputs (XLR Socket):			
Pin No.	Signal	Direction	Description
1	S	-	Screen
2	Р	I	Phase
3	NP	I	Non-Phase

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Alarm Outputs/Remote Inputs And Outputs (15 Pin D-Type Plug):				
Pin No.	Signal	Direction	Description	
1	Relay Common	0	Alarm Output Relay Common	
2	Relay N/C	0	Alarm Output Relay N/C to Pin 1 activates for both Archive and Hard Disk Alarms	
3	Relay N/O	0	Alarm Output Relay N/O to Pin 1 activates for both Archive and Hard Disk Alarms	
4	Relay Common	0	Alarm Output Relay Common	
5	Relay N/C	0	Alarm Output Relay N/C to Pin 4 activates for both Archive and Hard Disk Alarms	
6	Relay N/O	0	Alarm Output Relay N/O to Pin 4 activates for both Archive and Hard Disk Alarms	
7	GND	-	Ground	
8	REMOTE_11	I	Remote Input 1 short to Ground (Remote record Channel 1, Left input 1). Set to momentary or latching action via the Options, Record Remotes screen.	
9	REMOTE_12	I	Remote Input 2 short to Ground (Remote record Channel 2, Right input 1) Set to momentary or latching action via the Options, Record Remotes screen.	
10	REMOTE_13	I	Remote Input 3 short to Ground (Remote record Channel 3, Left input 2) Set to momentary or latching action via the Options, Record Remotes screen.	
11	REMOTE_14	I	Remote Input 4 short to Ground (Remote record Channel 4, Right input 2) Set to momentary or latching action via the Options, Record Remotes screen.	
12	REMOTE_01	0	Record Tally Output 1. Open collector driver (Channel 1, Left input 1)	
13	REMOTE_02	о	Record Tally Output 2. Open collector driver Channel 2, Right input 1)	
14	REMOTE_O3	0	Record Tally Output 3. Open collector driver (Channel 3, Left input 2)	
15	REMOTE_04	0	Record Tally Output 4. Open collector driver (Channel 4, Right input 2)	



**TECHNICAL SPECIFICATION** 

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## GLOSSARY

G	los	sa	ry	

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10Base2	Coaxial, Thin Ethernet. The 10 indicates a transfer rate of 10 Mbps. Base indicates a baseband medium and the 2 indicates that the sections must be a maximum of 200 meters.
10BaseT	RJ45, Twisted Pair Ethernet. The 10 indicates a transfer rate of 10 Mbps Base indicates a baseband medium and the T indicates twisted pair wiring.
Bit Rate	The raw speed of data over a serial link. Depending on the type of link this may indicate the theoretical maximum rates e.g. 10BaseT sends packets of data at 10Mbps but due to overheads and the availability the actual data throughput is significantly less. For audio data rates the bitrate is the actual amount of data generated per second
Channel	Audio signal that generates a single audio stream. The signal can be either mono or stereo but will still be treated a single channel. If the Net Log is formatted to use dual mono then this is considered as providing 2 channels. If both audio inputs are formatted as dual mono then a total of 4 channels will be available.
Client	A node on the network that receives services from a server.
Collision (Cl)	This occurs when two different nodes attempt to use the network at the same time.
Cut	A single continuous piece of audio, either stereo or mono, recorded on the hard drive
dB (decibel)	A vetic of two velters or a second lovels over second love the second in the second in the second in the second
	dB = 20LOG(V1/V2) Adding the suffix "u" denotes that the signal is relative to 0.775V RMS Adding the suffix "v" denotes that the signal is relative to 1V RMS
DHCP	A ratio of two voltages of signal levels, expressed by the equation dB = 20LOG(V1/V2) Adding the suffix "u" denotes that the signal is relative to 0.775V RMS Adding the suffix "v" denotes that the signal is relative to 1V RMS Dynamic Host Configuration Protocol; Hosts are given configuration information across a network, usually from a server.
DHCP DNS	A ratio of two voltages of signal levels, expressed by the equation dB = 20LOG(V1/V2) Adding the suffix "u" denotes that the signal is relative to 0.775V RMS Adding the suffix "v" denotes that the signal is relative to 1V RMS Dynamic Host Configuration Protocol; Hosts are given configuration information across a network, usually from a server. Domain Name System; TCP/IP applications resolve a name into an IP Address
DHCP DNS G.729A	Aratio of two voltages of signal levels, expressed by the equation         dB = 20LOG(V1/V2)         Adding the suffix "u" denotes that the signal is relative to 0.775V RMS         Adding the suffix "v" denotes that the signal is relative to 1V RMS         Dynamic Host Configuration Protocol; Hosts are given configuration         information across a network, usually from a server.         Domain Name System; TCP/IP applications resolve a name into an IP         Address         High compression record format primarily designed for speech.
DHCP DNS G.729A Gain	Aratio of two voltages of signal levels, expressed by the equation         dB = 20LOG(V1/V2)         Adding the suffix "u" denotes that the signal is relative to 0.775V RMS         Adding the suffix "v" denotes that the signal is relative to 1V RMS         Dynamic Host Configuration Protocol; Hosts are given configuration         information across a network, usually from a server.         Domain Name System; TCP/IP applications resolve a name into an IP         Address         High compression record format primarily designed for speech.         The degree of amplification, or attenuation, applied to a signal.
DHCP DNS G.729A Gain Gateway	A ratio of two voltages of signal levels, expressed by the equation         dB = 20LOG(V1/V2)         Adding the suffix "u" denotes that the signal is relative to 0.775V RMS         Adding the suffix "v" denotes that the signal is relative to 1V RMS         Dynamic Host Configuration Protocol; Hosts are given configuration         information across a network, usually from a server.         Domain Name System; TCP/IP applications resolve a name into an IP         Address         High compression record format primarily designed for speech.         The degree of amplification, or attenuation, applied to a signal.         A router that links one network to another.
DHCP DNS G.729A Gain Gateway Gigabyte	A ratio of two voltages of signal levels, expressed by the equation         dB = 20LOG(V1/V2)         Adding the suffix "u" denotes that the signal is relative to 0.775V RMS         Adding the suffix "v" denotes that the signal is relative to 1V RMS         Dynamic Host Configuration Protocol; Hosts are given configuration         information across a network, usually from a server.         Domain Name System; TCP/IP applications resolve a name into an IP         Address         High compression record format primarily designed for speech.         The degree of amplification, or attenuation, applied to a signal.         A router that links one network to another.         1000 million bytes of data storage for a disk drive or 1073 million bytes of
DHCP DNS G.729A Gain Gateway Gigabyte or GB	A ratio of two voltages of signal levels, expressed by the equation         dB = 20LOG(V1/V2)         Adding the suffix "u" denotes that the signal is relative to 0.775V RMS         Adding the suffix "v" denotes that the signal is relative to 1V RMS         Dynamic Host Configuration Protocol; Hosts are given configuration         information across a network, usually from a server.         Domain Name System; TCP/IP applications resolve a name into an IP         Address         High compression record format primarily designed for speech.         The degree of amplification, or attenuation, applied to a signal.         A router that links one network to another.         1000 million bytes of data storage for a disk drive or 1073 million bytes of data storage for memory ( i.e. 1024 x 1024 x 1024 bytes)
DHCP DNS G.729A Gain Gateway Gigabyte or GB Host ID	A ratio of two voltages of signal levels, expressed by the equation         dB = 20LOG(V1/V2)         Adding the suffix "u" denotes that the signal is relative to 0.775V RMS         Adding the suffix "v" denotes that the signal is relative to 1V RMS         Dynamic Host Configuration Protocol; Hosts are given configuration         information across a network, usually from a server.         Domain Name System; TCP/IP applications resolve a name into an IP         Address         High compression record format primarily designed for speech.         The degree of amplification, or attenuation, applied to a signal.         A router that links one network to another.         1000 million bytes of data storage for a disk drive or 1073 million bytes of data storage for memory ( i.e. 1024 x 1024 x 1024 bytes)         The part of the IP Address identifying the node within the network.
DHCP DNS G.729A Gain Gateway Gigabyte or GB Host ID Hub	A ratio of two voltages of signal levels, expressed by the equation dB = 20LOG(V1/V2) Adding the suffix "u" denotes that the signal is relative to 0.775V RMS Adding the suffix "v" denotes that the signal is relative to 1V RMS Dynamic Host Configuration Protocol; Hosts are given configuration information across a network, usually from a server. Domain Name System; TCP/IP applications resolve a name into an IP Address High compression record format primarily designed for speech. The degree of amplification, or attenuation, applied to a signal. A router that links one network to another. 1000 million bytes of data storage for a disk drive or 1073 million bytes of data storage for memory ( i.e. 1024 x 1024 x 1024 bytes) The part of the IP Address identifying the node within the network. A device used to connect nodes together to form a network.
DHCP DNS G.729A Gain Gateway Gigabyte or GB Host ID Hub IP Address	A ratio of two voltages of signal levels, expressed by the equation dB = 20LOG(V1/V2) Adding the suffix "u" denotes that the signal is relative to 0.775V RMS Adding the suffix "v" denotes that the signal is relative to 1V RMS Dynamic Host Configuration Protocol; Hosts are given configuration information across a network, usually from a server. Domain Name System; TCP/IP applications resolve a name into an IP Address High compression record format primarily designed for speech. The degree of amplification, or attenuation, applied to a signal. A router that links one network to another. 1000 million bytes of data storage for a disk drive or 1073 million bytes of data storage for memory ( i.e. 1024 x 1024 x 1024 bytes) The part of the IP Address identifying the node within the network. A device used to connect nodes together to form a network. Internet Protocol Address; A 32-bit address used to locate a node on a network.
DHCP DNS G.729A Gain Gateway Gigabyte or GB Host ID Hub IP Address kbps	A ratio of two voltages of signal levels, expressed by the equation dB = 20LOG(V1/V2) Adding the suffix "u" denotes that the signal is relative to 0.775V RMS Adding the suffix "v" denotes that the signal is relative to 1V RMS Dynamic Host Configuration Protocol; Hosts are given configuration information across a network, usually from a server. Domain Name System; TCP/IP applications resolve a name into an IP Address High compression record format primarily designed for speech. The degree of amplification, or attenuation, applied to a signal. A router that links one network to another. 1000 million bytes of data storage for a disk drive or 1073 million bytes of data storage for memory ( i.e. 1024 x 1024 x 1024 bytes) The part of the IP Address identifying the node within the network. A device used to connect nodes together to form a network. Internet Protocol Address; A 32-bit address used to locate a node on a network. Acronym for kilo (thousand) bits per second
DHCP DNS G.729A Gain Gateway Gigabyte or GB Host ID Hub IP Address kbps LED	A ratio of two voltages of signal levels, expressed by the equation dB = 20LOG(V1/V2) Adding the suffix "u" denotes that the signal is relative to 0.775V RMS Adding the suffix "v" denotes that the signal is relative to 1V RMS Dynamic Host Configuration Protocol; Hosts are given configuration information across a network, usually from a server. Domain Name System; TCP/IP applications resolve a name into an IP Address High compression record format primarily designed for speech. The degree of amplification, or attenuation, applied to a signal. A router that links one network to another. 1000 million bytes of data storage for a disk drive or 1073 million bytes of data storage for memory ( i.e. 1024 x 1024 x 1024 bytes) The part of the IP Address identifying the node within the network. A device used to connect nodes together to form a network. Internet Protocol Address; A 32-bit address used to locate a node on a network. Acronym for kilo (thousand) bits per second Light Emitting Diode.
DHCP DNS G.729A Gain Gateway Gigabyte or GB Host ID Hub IP Address kbps LED Link	A ratio of two voltages of signal levels, expressed by the equation dB = 20LOG(V1/V2) Adding the suffix "u" denotes that the signal is relative to 0.775V RMS Adding the suffix "v" denotes that the signal is relative to 1V RMS Dynamic Host Configuration Protocol; Hosts are given configuration information across a network, usually from a server. Domain Name System; TCP/IP applications resolve a name into an IP Address High compression record format primarily designed for speech. The degree of amplification, or attenuation, applied to a signal. A router that links one network to another. 1000 million bytes of data storage for a disk drive or 1073 million bytes of data storage for memory ( i.e. 1024 x 1024 x 1024 bytes) The part of the IP Address identifying the node within the network. A device used to connect nodes together to form a network. Internet Protocol Address; A 32-bit address used to locate a node on a network. Acronym for kilo (thousand) bits per second Light Emitting Diode. A connection to a network.

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MPEG	Acronym for Motion Picture Experts Group who were responsible for the initial audio compression specification
NetworkID	The part of the IP Address identifying the address of the local network.
NIC	Network Interface Card; A card placed in a PC or Device used to connect to a network.
Node	A device connected to a network, usually a PC or Printer.
Octet	Eight bits. There are four octets in an IP Address.
Rx	Shorthand for Receiver
Sample Rate	The frequency at which the incoming audio is sampled. The higher the sample rate the higher the frequency of the audio that will be captured.
Subnet Mask	A mask address to determine the NetworkID and HostID contained in an IP Address.
Switch	An intelligent hub.
TCP/IP	Transmission Control Protocol/Internet Protocol;
THD	The Total Harmonic Distortion is the percentage presence of signals outside the measured frequency range.
Tx	Shorthand for Transmitter
UTC	Acronym for Universal Time Code which is an internet reference time based on Greenwich Mean Time
UTP	Acronym for Unshielded Twisted Pair which is the description of the type of cable normally used networking or phone connections



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www.sonifex.co.uk

t:+44 (0)1933 650 700 f:+44 (0)1933 650 726 sales@sonifex.co.uk



