



Replay_T1/PRI (Linux)

Administrator Manual



ATTENTION!!!

When connecting Replay_T1/PRI PC to your network and telecom equipment you must be very careful!

Your **Replay_T1/PRI PC** comes with a **Passive TAP** device that allows connection with your T1/PRI line. During that connection all calls in progress will be disconnected on that line. To minimize the inconvenience this may cause, we recommend you **FIRST** install the **Passive TAP** device, and make a couple of test calls (inbound and outbound) over your T1/PRI to make sure everything is working. This should be done during off-peak hours. Once you are satisfied that your communications are intact, the rest of the system configuration and other software installation can be done any time.

We also recommend that you install an UPS (Uninterruptible Power Supply) for **Replay_T1/PRI PC**. This will help minimize any damage that may be caused by an abrupt loss of electricity.

Please keep this hardware in the safe place, away from an unauthorized access.



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Pre-installation T1/PRI Configuration Checklist

In order for Replay_T1/PRI PC to function, it will need certain T1 information. We recommend that you gather this **BEFORE** you get ready to configure Replay_T1/PRI PC.

The following should be readily available from your T1/PRI provider. You'll need to select one in each category. If you can't get an exact answer, use the default -it's underlined.

1. Signaling (for each channel on T1)

*** For PRI, channels 1 – 23 should have B-Chan, and channel 24 should have D-Chan. This assumes full T1 PRI;

2. Coding

AMI
B8ZS

3. Framing

ESF
D4

4. Line Build-Out

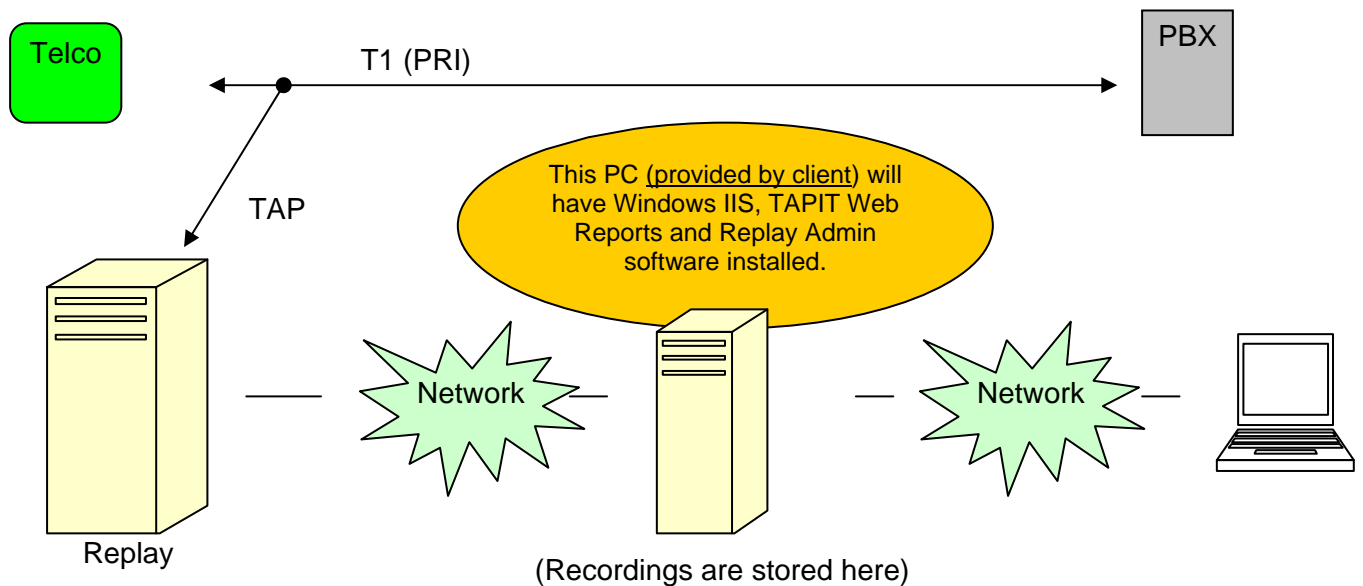
0 dB (CSU) / 0 - 133 feet (DSX-1)
133 - 266 feet (DSX-1)
266 - 399 feet (DSX-1)
399 - 533 feet (DSX-1)
533 - 655 feet (DSX-1)
-7.5 dB (CSU)
-15 dB (CSU)
-22.5 dB (CSU)



Overview

The **REPLAY_T1/PRI** system provides an elegant method of recording telephone calls for later replay or archiving. The **REPLAY_T1/PRI** system is installed as a passive, non-intrusive system. To accommodate larger T1 environment, multiple **Replay_T1/PRI PC(s)** are used.

Replay T1 Recorder in your environment



All recorded files are easily retrieved via TAPIT Web Reports. Please consult the TAPIT User Manual for more information.



Installing the Replay T1/PRI PC.

Before unpacking Replay_T1/PRI PC, please check for any evidence of exterior damage. If you suspect that the unit may have been damaged, please contact your dealer immediately. We recommend that you DO NOT proceed with unpacking the box if there's a visible evidence of the damage.

Each **Replay_T1/PRI PC** comes with pre-installed software, a **Passive TAP** device and several cables. There's also **Replay_TX Server** (Replay administrative console) and **TAPIT** software that need to be installed. It will be addressed further in this chapter.

There's 1 (one) long and 2 (two) short cables. The **GREEN** and **YELLOW** short cables are for connecting the **Passive TAP** device to the **Dual**-port (two ports) T1 board (already installed inside the **Replay_T1/PRI PC**).

NOTE: When we say “**Port 1**” on either of these boards, we refer to the port closest to the mother board (the bottom).

Note. The following operation should be performed during off-peak hours since all communications will be interrupted!

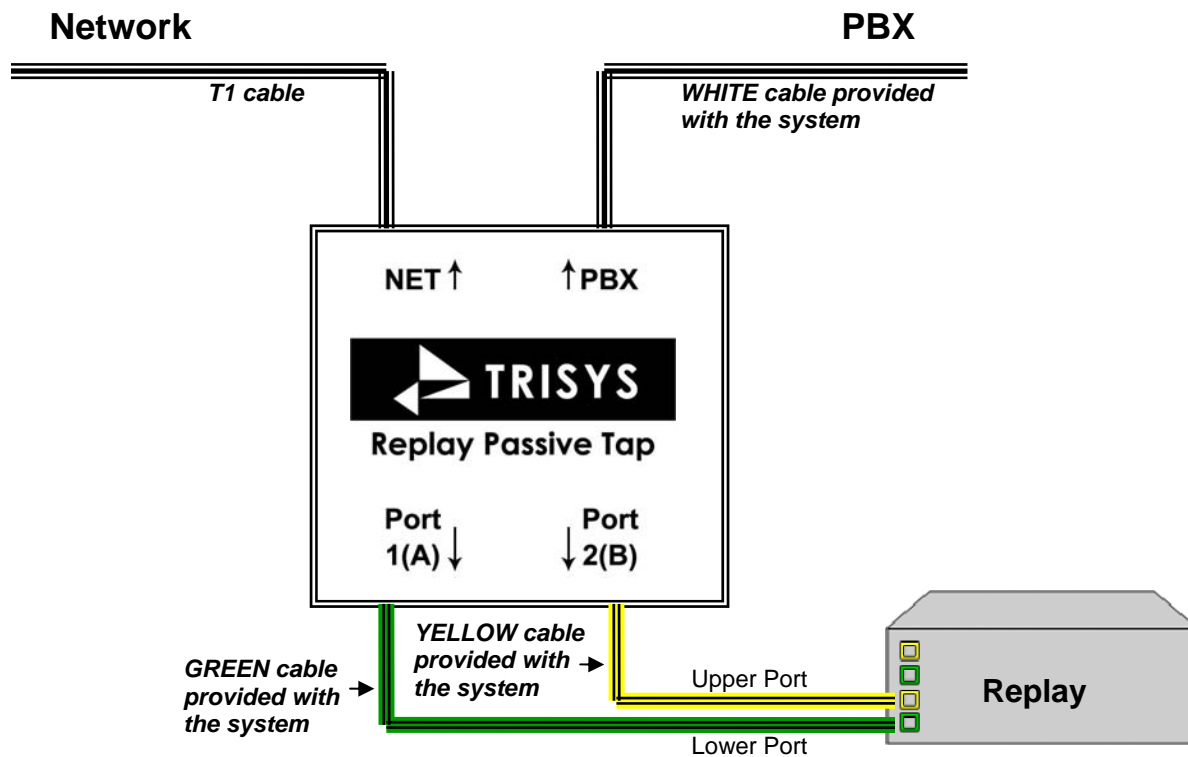
Your Replay_T1/PRI PC comes with a Passive TAP device that allows connection with your T1/PRI line. During that connection all calls in progress will be disconnected on that line. To minimize the inconvenience this may cause, we recommend you FIRST install the Passive TAP device, and make a couple of test calls (inbound and outbound) over your T1/PRI to make sure everything is working. This should be done during off-peak hours. Once you are satisfied that your communications are intact, the rest of the system configuration and other software installation can be done any time.

NOTE. Any connection to and/or configuration of your network must be performed by a qualified personnel with all appropriate “access privileges”. It is beyond the scope of this document to assist you in your Network configuration.



Connecting “passive” tap to T1

“Passive” tap enables Replay Call Recording system to connect to a T1 without interfering with T1’s operation. Each “passive” tap is shipped with one WHITE cable, one YELLOW cable, and one GREEN cable. Depending on the number of T1s, Replay PC may be shipped with one, or two “passive” tap sets.



1. Remove the cover from the “passive” tap, exposing 2 internal RJ45 connectors. These are the “NET” and the “PBX” connectors.
2. Disconnect the T1 cable from your PBX, and plug it in the “NET” connector on the tap.
3. Plug one end of the WHITE cable, provided with the system, into the “PBX” connector on tap.
4. Put the cover back on the “passive” tap. The “NET” and “PBX” labels should match corresponding cable connections.
5. Plug the other end of the WHITE cable into PBX.
6. The GREEN and YELLOW cables are shipped already attached to the “passive” tap Port 1 and Port 2 respectively.
Plug the YELLOW cable to the Upper Port and the GREEN cable to the Lower Port. The Upper and Lower ports are located on the back of the Replay box.
7. If you have two T1s you should receive two “passive” tap sets. Repeat instructions 1-6 for the second “passive” tap.



Before connecting Replay T1/PRI PC to your network or power supply:

By default, Replay_T1/PRI is configured for **DHCP** (your network will provide an IP address that Replay_T1/PRI will use).

1. Unpack the Replay_T1/PRI PC.
2. Connect the **GREEN** cable from the **Passive TAP** device to Port1 (bottom port of the **Dual**-port T1 board already installed inside the **Replay_T1/PRI PC**). Connect the **YELLOW** cable to the port above it. (If your system is configured for two T1s, repeat this step for the second **Passive TAP**).
3. Login to your Network DHCP server, and using the **MAC address** (see label on the back of Replay_T1/PRI case) assign an IP address to the Replay_T1/PRI PC. This IP address will allow you to administer Replay_T1/PRI via GUI from any Web-enabled PC on your network (refer to Graphical User Interface chapter).

You will need the **IP address** to complete the setup of the **Replay_T1/PRI box**. This IP address is assigned by your network. Please write it down.

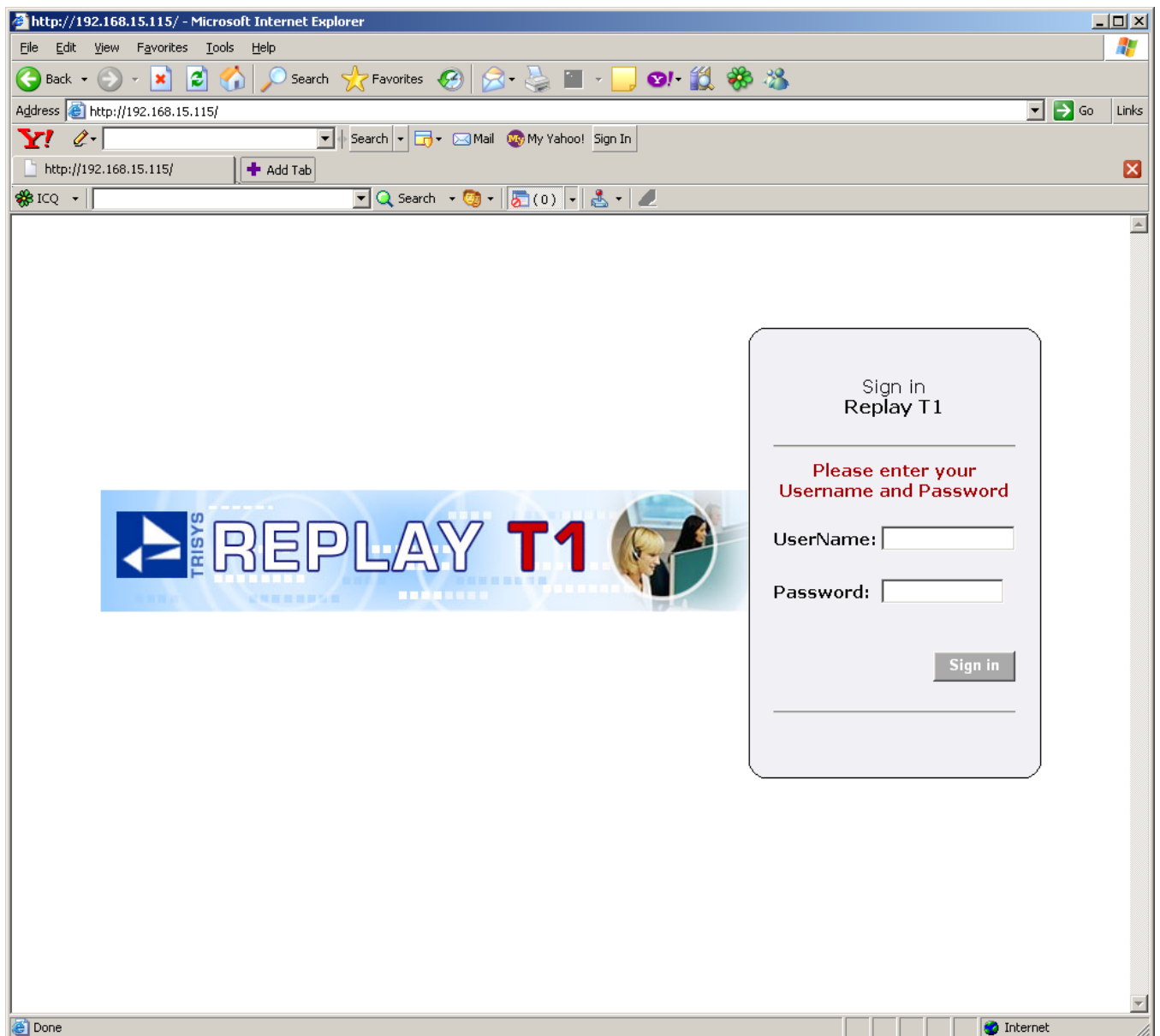
Type the above **IP address** (in this example **192.168.15.115**) in the Address field (that's where you would type: **www.yahoo.com**) of a web browser from any PC on your network, and you should be able to access **Replay_T1/PRI** Graphical User Interface (GUI).



Graphical User Interface (GUI)

The **REPLAY_T1/PRI** system utilizes a web based GUI (Graphical User Interface). It is accessible by opening your web browser of choice, and using the IP address of the **Replay_T1/PRI PC**, followed by "**\Replay**" (ie. //192.168.15.44/Replay).

A user login screen will appear, enter your username and password.





Current Activity

The Current Activity screen will appear once your login and password have been verified. On this screen you will be able to see all calls in progress. The screen will automatically refresh every XX seconds depending on your selection. The default is 30 seconds. You may select a different interval. Click “Refresh” to keep new selection.

Current Activity
Finished Calls

Recording
Logs
T1 Configuration
IP Configuration
File Management
User Configuration
Date/Time

Apply changes

Reboot

ShutDown

Logout

Current Activity

Available disk space: 64.55 GB

Refresh every 30s

Ch. Id	I/O	Caller Id	Dialed No	DTMF	Duration	Listen
01	I	6013625321	9733602300	3	00:00:35	live
02	I	9729068000	9733602300	3	00:00:27	live
03	I	8043552096	9733602300	1104	00:06:20	live
04	O	9733602300187	17246731040		00:34:42	live
06	O	9733602300	12014897006		00:01:01	live

While on this screen, you are able to listen to any one of the calls in progress by clicking on **live** link. Please make sure that your sound card is enabled on this PC, and that you have installed the required .OGG plug-in for your Multimedia Player. This plug-in (**oggcodecs_0.71.0946.exe**) is provided on the **Replay_T1/PRI PC** in the <\\192.168.15.155\records\programs> ([\\192.168.15.155](http://192.168.15.155) should be replaced with IP that is assigned to your Replay_T1) directory. Simply run this plug-in on each PC from which you plan to use the **live** option.



Finished Calls

This screen will allow you access to the recorded calls (as long as they have not been moved to your central location). To listen to a desired call, simply click on [“yes”](#) link.

The screenshot shows a web browser window titled "Yate Recording System - Microsoft Internet Explorer". The address bar shows the URL: `http://192.168.15.115/main.php?act=records&ofs=0&refresh=10`. The page content includes a navigation sidebar on the left with options like "Current Activity", "File Management", "Logs", "IP Configuration", "Recording", "User Configuration", "T1 Configuration", "Date/Time", "Apply changes", "Reboot", "ShutDown", and "Logout". The main content area is titled "Finished Calls" and displays a table of call records. Above the table, it shows "Available disk space: 64.63 GB" and a "Refresh" button set to "every 10s".

Time	Ch. Id	I/O	Caller Id	Dialed No	DTMF	Duration	Talk time	File
2007-08-06 13:19:34	01	I	5742963200	9733602300	3	00:00:18	00:00:16	yes
2007-08-06 13:17:59	04	I		9733602300	6018301930 117	00:00:55	00:00:53	yes
2007-08-06 13:17:20	03	O	9733602300130	13172838522		00:01:32	00:01:25	yes
2007-08-06 13:16:46	01	O	9733602300131	17138688080	#####	00:02:24	00:02:21	yes
2007-08-06 13:16:03	05	O	9733602300131	12106586500		00:00:27	00:00:23	yes
2007-08-06 13:15:55	04	I	7323354900	9733602300		00:00:16	00:00:14	yes
2007-08-06 13:15:45	03	I		9733602300	810997111	00:00:19	00:00:17	yes
2007-08-06 13:15:15	03	O	9733602300131	12142193200	*	00:00:26	00:00:21	yes
2007-08-06 13:14:57	01	I	8178771112	9733602300	109	00:01:19	00:01:17	yes
2007-08-06 13:13:38	02	I	5742545507	9733602300	3	00:04:45	00:04:43	yes

Navigation: [[<<](#)] 1 - 10 [[>>](#)]



File Management

By default, Replay will store call recordings on the local drive in the \Records directory. We strongly advise that you don't change this without express recommendation of Trisys technical support.

A screenshot of a web browser window displaying the 'Yate Recording System' interface. The browser title is 'Yate Recording System - Microsoft Internet Explorer'. The address bar shows 'http://192.168.15.115/main.php?module=file_Management'. The page features the 'REPLAY T1' banner at the top. On the left is a navigation menu with items: 'Current Activity', 'Finished Calls', 'File Management', 'Logs', 'IP Configuration', 'Recording', 'User Configuration', 'T1 Configuration', 'Date/Time', 'Apply changes', 'Reboot', 'ShutDown', and 'Logout'. The main content area is titled 'File Mangement' (sic) and contains the text 'Files are to be written'. Below this, there are two radio button options: 'locally' (which is selected) and 'to the following destination' with a text input field containing 'c:\newdestination'. A 'Save' button is located below the options. The browser's status bar at the bottom shows 'Internet'.



Logs

This screen may be needed by Trisys technical personnel for support issues only. This option is beyond the scope of this document.

A screenshot of a web browser window titled 'Replay T1 - Windows Internet Explorer'. The address bar shows 'http://192.168.15.155/main.php?module=logs'. The page features the 'REPLAY T1' banner at the top. On the left is a navigation menu with items: 'Current Activity', 'Finished Calls', 'Recording', 'Date/Time', 'T1 Configuration', 'IP Configuration', 'User Configuration', 'File Management', 'Logs', 'Apply changes', 'Reboot', 'ShutDown', and 'Logout'. The main content area is titled 'Logs' and contains the following text: 'Select type of logs to view' followed by radio buttons for 'telephony', 'configuration', 'syslogs', and 'flush logs'; 'Select number of logs to view' followed by radio buttons for 'last entry', 'last 5 entries', and 'last 20 entries'; and 'or insert number of entries to view' followed by an empty text input field. A 'Show' button is located below the input field. The browser's status bar at the bottom indicates 'Local intranet' and '100%' zoom.



IP Configuration

By default, Replay is configured to obtain an IP address automatically from your network's DHCP server. However, you may assign a static IP by using this screen.

The screenshot shows a web browser window titled "Yate Recording System - Microsoft Internet Explorer". The address bar shows "http://192.168.15.115/main.php?module=IP_Configuration". The page content includes a navigation sidebar on the left with links like "Current Activity", "File Management", and "IP Configuration". The main content area is titled "IP Configuration" and contains a form with the following fields:

DHCP	<input checked="" type="checkbox"/>	Use DHCP to obtain a network address automatically. Otherwise, consult your network administrator for correct parameters.
Static IP	<input type="text" value="192.168.0.155"/>	
Netmask	<input type="text" value="255.255.255.0"/>	Netmask
Gateway	<input type="text" value="192.168.0.1"/>	Gateway
DNS	<input type="text" value="192.168.0.1"/>	

At the bottom of the form are "Save" and "Clear" buttons. The browser's taskbar at the bottom shows the "Internet" icon.



Recording

Please do not change these defaults unless you were advised by Trisys' technical staff. Currently fax tone detection is disabled.

Yate Recording System - Microsoft Internet Explorer

Address: http://192.168.15.115/main.php?module=recording

Yate Recording System

Recording Configuration

Format for saving the recordings:

Select type of activity to record:

Select action on fax tone detection:

Minumum length of calls to be saved: seconds

Current Activity
Finished Calls

File Management
Logs
IP Configuration
Recording
User Configuration
T1 Configuration
Date/Time

Apply changes

Reboot

ShutDown

Logout



User Configuration

Only those users that have valid User Ids and Passwords will be able to use this facility.

Yate Recording System - Microsoft Internet Explorer

Address: http://192.168.15.115/main.php

Yate Recording System

Current Activity
Finished Calls

File Management
Logs
IP Configuration
Recording
User Configuration
T1 Configuration
Date/Time

Apply changes

Reboot

ShutDown

Logout

User Configuration

Username

UserId	Name	Options
admin	Administrator	Edit _Delete
newuser	new user	Edit _Delete

Done Internet



To add a new user, enter the user is and click “Add” button.

Yate Recording System - Microsoft Internet Explorer

Address: http://192.168.15.115/main.php?module=user_Configuration&method=delete&user=newuser

Yate Recording System

User Configuration

Username

UserId	Name	Options
admin	Administrator	_Edit _Delete

Current Activity
Finished Calls

File Management
Logs
IP Configuration
Recording
User Configuration
T1 Configuration
Date/Time

Apply changes

Reboot

ShutDown

Logout



Fill in the rest of information, and click “Save” button.

The screenshot shows a Microsoft Internet Explorer browser window displaying the Yate Recording System web interface. The address bar shows the URL `http://192.168.15.115/main.php`. The page features a navigation menu on the left with the following items: Current Activity, Finished Calls, File Management, Logs, IP Configuration, Recording, User Configuration, T1 Configuration, Date/Time, Apply changes, Reboot, ShutDown, and Logout. The main content area is titled "User Configuration" and contains a form with three fields: "UserId" with the value "newuser", "Name" with the value "new user", and "Password" with a masked value of "*****". Below the form are "Save" and "Clear" buttons. The browser's status bar at the bottom shows "Done" and "Internet".



T1 Configuration

Please do not change these defaults unless you were advised by Trisys' technical staff.

T1 Configuration

PLEASE CONSULT YOUR T1 PROVIDER FOR THIS INFORMATION. [BACK](#)

Line	1 (Net->PBX)	2 (PBX->Net)
Passive Monitor	<input checked="" type="checkbox"/>	
High-Impedance or gain	None	None
Line Build-Out	0-110 ft (DSX-1)	
Framing	ESF	
Coding	B8ZS	
Switch type	Unknown	

Channel	Label	Signaling
1		B-Channel (ISDN)
2		B-Channel (ISDN)
3		B-Channel (ISDN)
4		B-Channel (ISDN)
5		B-Channel (ISDN)
6		B-Channel (ISDN)
7		B-Channel (ISDN)



Date/Time

By default, Replay T1 will obtain it's date and time from the **time.chu.nrc.ca** public time server. However, in some cases, you may want to set date and time manually. Don't forget to click "Save" when done.

A screenshot of a Microsoft Internet Explorer browser window displaying the Yate Recording System web interface. The browser's address bar shows the URL 'http://192.168.15.115/main.php?module=date_time'. The page features the TRISYS REPLAY T1 banner at the top. Below the banner, there is a sidebar on the left with a menu containing: 'Current Activity', 'Finished Calls', 'File Management', 'Logs', 'IP Configuration', 'Recording', 'User Configuration', 'T1 Configuration', and 'Date/Time'. The main content area is titled 'Change Date/Time' in red text. Below the title, it states 'Date and time are set manually. Current time is Aug 6 2007 13:03.' and includes a 'Set time' dropdown menu currently set to 'from network'. At the bottom of the sidebar, there are buttons for 'Apply changes', 'Reboot', 'ShutDown', and 'Logout'. The browser's taskbar at the bottom shows the 'Internet' icon.



You may also change time by selecting “manually” in Set time field.

The screenshot shows a web browser window titled 'Replay T1 - Windows Internet Explorer' with the address bar containing 'http://192.168.15.155/main.php?module=date_time'. The page features the same 'REPLAY T1' banner as seen in the previous image. On the left side, there is a navigation menu with the following items: 'Current Activity', 'Finished Calls', 'Recording', 'Date/Time', 'T1 Configuration', 'IP Configuration', 'User Configuration', 'File Management', and 'Logs'. The main content area is titled 'Change Date/Time' and contains the following text: 'Network Time Protocol is enabled. Server is time.chu.nrc.ca . Current time is Jan 17 2008 17:44.' Below this, there is a 'Set time' dropdown menu currently set to 'manually'. Further down, there are three date selection fields: 'Month: January', 'Day: 17', and 'Year: 2008'. Below these are three time selection fields: 'Hour: 17', 'Minutes: 44', and 'Seconds: 06'. A 'Save' button is located at the bottom of the configuration area. The browser's status bar at the bottom indicates 'Local intranet' and '100%' zoom.



Trisys' Replay Limited Warranty Statement

TRISYS, Inc. ("Trisys") warrants that its "REPLAY" product ("Product") is free from defects in material and workmanship. Subject to the conditions and limitations set forth below, Trisys will, at its option, either repair or replace any part of its Product that proved defective by reason of improper workmanship or materials. Repaired parts or replacement product will be provided by Trisys on an exchange basis, and will be either new or refurbished to be functionally equivalent to new. This warranty does not cover any damage to this product that results from accident, abuse, misuse, natural or personal disaster, or any unauthorized disassembly, repair, or modification.

One-Year Warranty: the Product is covered by this warranty for a period of one year from the date of the delivery to the client.

This warranty covers parts and labor necessary to repair Trisys Replay product.. Trisys is not liable for, and does not cover under warranty, any costs associated with servicing and/or the installation of Trisys products by other parties. Trisys will not discontinue support of its products, nor obsolete its products, as long as there are component materials available and there is reasonable customer demand for the products.

Technical Support

Trisys Technical Support can be contacted directly by calling: 973.360.2300, option 3 during normal business hours (EST) in the United States, or by e-mail at: support@trisys.com

Warranty Claim Procedures and Requirements

To obtain warranty service, you may need to return a defective product, freight-prepaid and insured for the price paid, to Trisys Inc., 215 Ridgedale Ave., Florham Park, NJ 07932. **You must obtain an RMA from Trisys prior to shipment, otherwise Trisys will not be responsible.** You must include product identification information, including model number and serial number (if applicable) with a detailed description of the problem you are experiencing. You must also include proof of the date of original retail purchase as evidence that the product is within the applicable warranty period.

Once you have obtained an RMA number from Trisys, you must, within thirty (30) days, send the product freight-prepaid and insured to Trisys, RMA Customer Service, to the address that was given to you at the time that the RMA was issued. Products shipped to Trisys must be properly packaged to prevent damage in transit. You must include the Trisys RMA number prominently displayed on the outside of your package. If you send your product to Trisys without the RMA number prominently displayed on the outside of the package, it will be returned to you unopened.

Disclaimers

THE FOREGOING IS THE COMPLETE WARRANTY FOR TRISYS REPLAY PRODUCTS AND SUPERSEDES ALL OTHER WARRANTIES AND REPRESENTATIONS, WHETHER ORAL OR WRITTEN. EXCEPT AS EXPRESSLY SET FORTH ABOVE, NO OTHER WARRANTIES ARE MADE WITH RESPECT TO TRISYS PRODUCTS AND TRISYS EXPRESSLY DISCLAIMS ALL WARRANTIES NOT STATED HEREIN, INCLUDING, TO THE EXTENT PERMITTED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL TRISYS BE LIABLE TO THE PURCHASER OR TO THE USER OF A TRISYS PRODUCT FOR ANY DAMAGES, EXPENSES, LOST REVENUES, LOST SAVINGS, LOST PROFITS, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM THE PURCHASE, USE OR INABILITY TO USE THE TRISYS PRODUCT, EVEN IF TRISYS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.



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