

MTR-8900-USB/ ACL-750-USB

DATA LOGGING WRIST AND FOOT STRAP
COMBO TESTER KIT

OWNERS MANUAL & OPERATION GUIDE

Includes software, calibration data, bar code,
magnetic stripe and proximity card reader instructions



SOFTWARE VERSION: _____

SERIAL NUMBER: _____

COMPANY: _____

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Ver 09/1/2023,a

For software Ver 11.11a or higher, and Testers with USB
interface. Refer to Appendix A for older testers with RS232
interface.

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INTRODUCTION

Congratulations on purchasing your new MTR-8900 and ACL-750 series data-logging wrist and foot strap testing kit!

This is the finest strap resistance tester available on the market.

The MTR-8900 and ACL-750 series combo meter is an instrument that concurrently measures the resistance of a wrist strap and two foot straps within a few second period. The measurements are sent to a computer and can be judged for valid readings, and then logged to a file. Many additional services are available as shown in the following "features" section, such as having reports directly emailed to supervisors.

A typical test station consists of a badge reader to identify the user, the MTR-8900 and ACL-750, a computer, and a monitor. The user simply scans their badge and tests their straps.

The MTR-8900 and ACL-750 combo tester is self-powered from the computer USB port. However, it can also be run as a "stand alone" tester without a computer and without software, by plugging its USB cable into a standard USB charger.

FEATURES:

- Reads actual resistance of the strap from 100 kilohms to 100 megohms and up to 1000megohms for new 1000M unit.
- Alarm points may be programmed to any value for any user or the combo tester limits can be automatically used. -
- Accepts up to 30,000 employees
- Easy to use: employees step on the foot pads, plug in their wrist strap, scan a proximity card or barcode (or click on their name) (or type in the first few letters of their name) (or type the line number of their name) (or type their ID number) and push a button
- Generates and prints
 - monthly test results reports --
 - daily event logs
 - continuous event logs
 - event logs for any employee over any time span
 - employee failure exception reports --
 - certification expiration report
 - certification training exam report
 - attendance summary
 - vacation summary
 - occupancy report (employees still in the area) for fire safety -- operational warning message report
 - labels for employees that pass the ESD test
- Employee leave status (sick, vacation etc.) can be stored. - Reports can be limited to specific work groups.
- Report files may be easily imported into other spreadsheets or data bases.
- Reports can be automatically generated and emailed with MAPI clients or SMTP servers using SSL and TLS. - Requires a password to change the parameters and access the data.
- Can optionally require an individual password for each employee to test.
- Can read employee bar code badges or cards (via keyboard wedge).
 - Can use first, last, or middle n characters of the barcode.
 - Can ask employee to type in name if new badge is read.
- Can read employee proximity card with following readers:
 - Our standard USB connected RFID badge reader
 - HID 5352 or RW-400 RS232 reader.
 - Casi-Rusco 94x, 97x Wiegand reader
 - Motorola, Indala
 - Aavid Sentinel-Prox SP-6820 reader
 - General RS-232 readers
- Can be used without a monitor, though a monitor is recommended.
- Is able to open a door if straps are in tolerance as an optional accessory. -
- Can also open the door on exit.
- Is able to prevent unauthorized entry without the proper badge.
- Can warn employee of impending certification expiration.
- Can limit access of employees with expired certification.
- Runs on any Windows 7-11, or compatible PC.
- Can be started as a "Windows Service" using "AlwaysUp".
- Uses a standard USB port
- Can accept and display International dates and numbers. StationID and time zone are logged. -
- Program window can be minimized only with correct password.
- Multiple stations can be connected to a network.
- A networked station will still operate even if the network malfunctions. -
- Can read employees from a remote SQL data base.
- Can store test data to a remote SQL data base (Oracle, SQL2000, Access, etc).
- Can connect multiple stations to one computer.
- Can record exit times, and produce occupancy and attendance reports. -
- Testing window can be displayed in English, Spanish, Portuguese, Polish.
- Data base can be easily read, edited, imported, and exported by a variety of programs.
- Data base is virus and worm proof

TERMINOLOGY

Static fields can build up on humans as they walk along an insulative surface such as a carpet. A person with a high voltage static charge can destroy or damage an integrated circuit or FET device either by touching or coming close to it. Thus most electronic assemblers wear wrist straps or heel grounders to keep the wearers at the same voltage potential as the parts they are assembling. Wrist straps and heel grounders/shoes may also be worn at chemical plants, explosive materials factories and storage areas. A wrist strap is simply a resistorized conductive cord that connects the wearer's wrist to a grounded conductive mat that covers the assembly bench. The resistor protects the static sensitive device as well as the worker.

A heel grounder is a small resistorized strap that connects the wearer to their special conductive floor surface. This requires that the floor be covered with a grounded conductive carpet, tile, mat or dissipative floor wax or paint (available through GroundZero Electrostatics and Static Logic LLC). It is important that

two heel grounders/shoes be worn to achieve proper static discharge.

Wrist straps and heel grounders simply act as a wire to drain off charges. However, to prevent accidental electrocution of the wearer

(should the wearer inadvertently touch an external high voltage source) a high resistance is built into the strap. The resistance is typically between .5 to 2 megohms.

Thus straps and heel grounders have to be tested for two different malfunction conditions. If there is an open circuit or too high a resistance, then it will fail to prevent high voltage build up and no longer control dissipation. If there is a short circuit or too low a resistance (such as wet shoes), then it could fail to prevent electrocution, or could cause a rapid discharge which could emit a spark or cause a secondary effect.

The Wrist Strap and Dual Heel Tester checks the controlled conductive integrity of wrist straps and heel grounders/shoes for both of the fault conditions mentioned above. It can be attached to a free stand or can be a wall mounted. For use, the wearer simply inserts their wrist strap banana plug into the instrument, and stands on the foot plates (if wearing heel grounders or shoes), and presses the button. An LED display shows the results of the test (OK, low or high), and an alarm sounds if the resistance is not within its preset limits, and if the correct person and/or card is correctly identified from the data base. If the card or person is not recognized, there will be no LED lights and there will be a buzzer sound emitted.

If the computer data logging option is used then the actual resistance is displayed on the monitor, is automatically recorded in the computer, and can be printed in a daily/monthly report. If the resistance is changing day by day, the MTR-8900 and ACL-750 can be a valuable tool to predict failures before they occur.

Unlike other testers, the MTR-8900 and ACL-750 Dual Heel Tester tests both feet and wrist at once and separately, and does not require the wearer to shift feet and repeat the test. This saves time, and can insure proper testing. The MTR-8900 and ACL-750 cannot be fooled by a wearer who dislikes wearing two grounders and merely presses the button twice while stepping on the footplate with the same foot.

The EOS 20/20 standard mandates that a company must record the results when a person tests their wrist/heel straps to enter a static sensitive area, or must use a constant wrist strap monitor. In either case, when using shoes or heel grounders, a record must be kept. If a constant wrist strap monitor is used, the MTR-8900 and ACL-750 will test it as well, and notify the user if it has failed. The combo tester software can generate a number of reports, including informing the supervisor if the wearer does not perform a test once or twice a day.

CALIBRATION VERIFICATION

The MTR-8900 and ACL-750 meter is calibrated to NIST traceable standards. The meter self calibrates itself with each use by comparing the surface mounted 1-megohm resistor value and capacitor against the unknown value. After one year of use, the meter can be sent to Static Logic LLC or Ground Zero Electrostatics to be re-calibrated and be issued a new NIST traceable certificate.

Please call GroundZero or Static Logic LLC for the cost of this service.

TESTING OF WRIST STRAPS AND FOOTWEAR

Daily testing of wrist straps and footwear is mandatory to ensure the grounding devices function properly and to minimize charge generation on the human body, which may cause damage to integrated circuits. Partially conductive footwear and wrist straps are the primary techniques used to drain and minimize electrical charges from the body. The wrist and foot straps typically have a 1 megohm or two megohm resistor built into them. Too low a resistance can cause rapid discharge resulting in sparking and failures. Low resistance wrist or foot straps can also cause an electrical shock to the operator if he touches a high voltage circuit. On the other hand, open circuit or broken straps can cause high electrical resistant paths that result in static buildup, arcing, and integrated circuit damage.

To adapt to ISO-9000 certification the results should be recorded in a computer database or printed to hard copy as specified in EOS 20/20 specification.

BASIC SETUP

EQUIPMENT

Equipment Required

1. A computer with a 486DX or higher (Pentium or similar) microprocessor. Larger hard drives (2 G or more) will store more employee data.
2. Windows operating system (Windows 7/8/10).
3. Two USB ports: one for the combo tester and one for the badge reader if it has a USB interface. Optional RS232 badge readers will require either an RS232 port or possibly an RS232/USB converter.
4. A LAN network-able system is needed for networking multiple testers. This may be a hard wire or wireless modem. (ACL Staticide is not responsible for the installation or maintenance of the network after the software is installed.)
5. To use e-mail feature, users will need a MAPI compliant e-mail program such as Microsoft Outlook (without the email security update), Thunderbird, Outlook Express, Eudora, or other mail client. - Eudora (www.eudora.com) also claims to be MAPI compatible.

Equipment Provided

- 1 – ACL-750 meter unit with a USB cable (available with door relay and/or 1000Mohm measurement option)

Equipment Options

1. Badge reader
2. Foot plate and stand
3. Footplate only

4. HARDWARE INSTALLATION

Before You Begin

1. Make sure that a sample identification card has been sent to Ground Zero Electrostatics or Static Logic LLC for proper programming of the optional reader.
 2. Read the manual, help files, and other files on the C:\EsdTest directory. - Install in other folders will require manual configuration.
 3. If user will not be using the software function of the MTR-8900 and ACL-750 meter, disregard the software instructions in this manual.
 4. Install the meter in view of the computer monitor, so employees that are testing can view the test results.
 5. Take a deep breath, and know that with the innovative product line of ACL Staticide there is instant peace of mind.
 6. At anytime, please contact Ground Zero technical staff or refer to www.GNDZero.com for technical support literature. Technical questions should be directed to technical@gndzero.com
 7. Program updates are available at StaticLogicLLC.com, GndZero.com, and www.EsdTest-acl.com.
-

Meter Assembly

1. For HID/CASI-RUSCO™/Indala/Motorola proximity card RS232 readers, a nine pin serial ports is required on your computer. For USB compatible proximity card readers, at least one USB port is required on your computer for the reader, and for the combo tester.
2. Fasten the foot stand to the footplate. Place the foot stand on top of the footplate. Insert the small Allen head bolts through the holes in the circular plate on the bottom of the stand. Position these bolts into the T nuts located in the bottom of the footplate using the enclosed Allen head wrench. Tighten with Allen head wrench. DO NOT OVER TIGHTEN.
3. Install the card reader if purchased on the right side or top of the top of the foot stand, where indicated by label. ~~Place its~~ cable down through the rectangle hole. Then attach the MTR-8900 and ACL-750 meter on the left side on top of the foot stand, where indicated by label. Place the meter so the top of the meter is flush with the top of the foot stand and is touching the HID reader on the right side. With the non-proximity stand (Bar Code or Magnetic stripe) position the meter so that the USB cable does NOT protrude from the bottom and cause interference with the person being tested. Place the bar code or mag stripe reader on TOP of the stand.
4. Attach the two-plug power supply cord (see Illustration 1 – A) to both the MTR-8900 and ACL-750 meter and to the HID/CASI-RUSCO™ reader (if purchased). If a USB reader is used, a power supply for the reader is not required. The male plug is attached to back of the HID™ reader, through the small round hole besides the reader. The female plug is attached to the MTR-8900 and ACL-750 meter up through the hole of the stand into the front of the meter. Use hook/loop strips and attach the ACL-750 meter and the HID/CASI-RUSCO™ proximity reader to the stand. With the meter alone or with bar code or mag stripe attach the one power supply unit.
5. Insert the cords and wires inside the back of the foot stand allowing wire slack. Place the enclosed plastic shroud over the wire enclosure.
6. The MTR-8900 and ACL-750 meter is self-powered from the USB cable. If using the MTR-8900 and ACL-750 meter (without USB) you will need to use the 12VDC power adapter cable or an alkaline battery.
7. Insert the other ends of the signal cables into the computer.
8. Plug the footplate lead (see Illustration 1 – C) completely into the combo tester socket "Heel Plate".
9. Plug in any optional card reader power supplies.
10. Remove the protective film from both the metal plates on the footplate.
11. Turn on the computer. (Turning on the computer before the hardware is installed may not allow the Windows operating system to properly run.)

Meter Adjustments

The MTR-8900 and ACL-750 can be adjusted to various electrical resistance specifications by opening the meter case and pressing the dipswitches corresponding to the desired test ranges (see chart below). For units manufactured after 3/12/2002, the MTR-8900 and ACL-750 will alarm according to the EsdTest software set points, unless disconnected from the computer. The software parameters can be set in the software under 'Set up', 'User Information', and entering desired information in 'Strap Parameters' in the individual User Information menu. (see below), or later entered for everyone at once in the Setup "Change All Limits" menu (discussed later).

The screenshot shows a software window titled "Modify Names" with a close button (X) in the top right corner. The window is divided into several sections:

- User Information:** Contains fields for "Last Name:" (Connery), "First Name:" (Sean), "Line:" (4), "Grp:" (123), "ID:" (7788), and "Badge:" (7788).
- Strap Parameters:** Contains four "DipSw" buttons for "Wrist Low Megs:", "Wrist Hi Megs:", "Foot Low Megs:", and "Foot Hi Megs:". It also has checkboxes for "Wrist Strap?" (checked) and "Foot straps?" (unchecked).
- Leave Status:** Includes a "Status =" field with a dropdown menu showing "A OK". Below it are buttons for "Holiday", "Personal", "Vacation", "E", "4 hours", "Disabled", "Misc Abs", "Training", "eXpired", "Sick", "No report", "Unplanned", and "not tested". It also has fields for "Leave date from:" (10/13/2003) and "through date:" (10/13/2003), with "Update" and "Yearly summary" buttons below.
- Certification:** Includes a "Type" dropdown menu (set to 1) and an "Expiration Date" field (10/13/2003).

At the bottom of the window are five buttons: "Append", "Insert", "Modify", "Delete", and "Cancel".

The resistance ranges depend on what test standard, i.e. (EOS-CECC) the user follows. The user must know what resistance range values are acceptable for their floors, shoes, and heel/toe grounders and according to either EOS or European standards. The Meter is preset to the EOS ESD standard based on the 2020 specification (represented in bold under "Dip Switch Settings" on page 11). Attempt to keep the default (meter DIP switch settings) specifications the same as the computer. That way, the combo meter will display the correct set points if the computer is off. The system can be programmed to use the default (inside meter) by using a default setting of "dipswitch"(or -1).

Dip Switch Settings for 100M unit

The following resistance alarm values may be set inside the combo meter.
The factory settings are represented in bold.

<u>Foot Low</u>	<u>sw1</u>	
.5M	off	(use this setting for 100K lower limit option meters)
.75M	ON	(US & IEC default)

<u>Wrist Low</u>	<u>sw2</u>	
.5M	off	(or for 100K lower limit option meters)
.75M	ON	(US & IEC default)

<u>Foot High</u>	<u>sw3</u>	<u>sw4</u>	<u>sw5</u>	
2M	off	off	off	
5M	ON	off	off	
10M	off	ON	off	
25M	ON	ON	off	
35M	off	off	ON	(IEC & CECC default)
50M	ON	off	ON	
75M	off	ON	ON	
100M	ON	ON	ON	(US default)

<u>Wrist High</u>	<u>sw6</u>	<u>sw7</u>	<u>sw8</u>	
2M	off	off	off	
5M	ON	off	off	
10M	off	ON	off	(US default)
25M	ON	ON	off	
35M	off	off	ON	(IEC & CECC default)
50M	ON	off	ON	
75M	off	ON	ON	
100M	ON	ON	ON	



Figure 1 Dip switch
- see table for
settings

A special 1000 megohm unit is also available. See below.

Dip Switch Settings for 1000M unit special unit

The following resistance alarm values may be set inside the combo meter. The factory settings are represented in bold.

(For new dual range meter, remove jumpers W4 and W5. Add jumper W2)

Foot Low s w 1

0 (none) off
 .75M ON (default)

Wrist Low s w 2

0 (none) off
 .75M ON (default)

Foot High sw3 sw4 sw5

20M	off	off	off
50M	ON	off	off
100M	off	ON	off
250M	ON	ON	off
350M	off	off	ON
500M	ON	off	ON
750M	off	ON	ON
1000M	ON	ON	ON

(default)



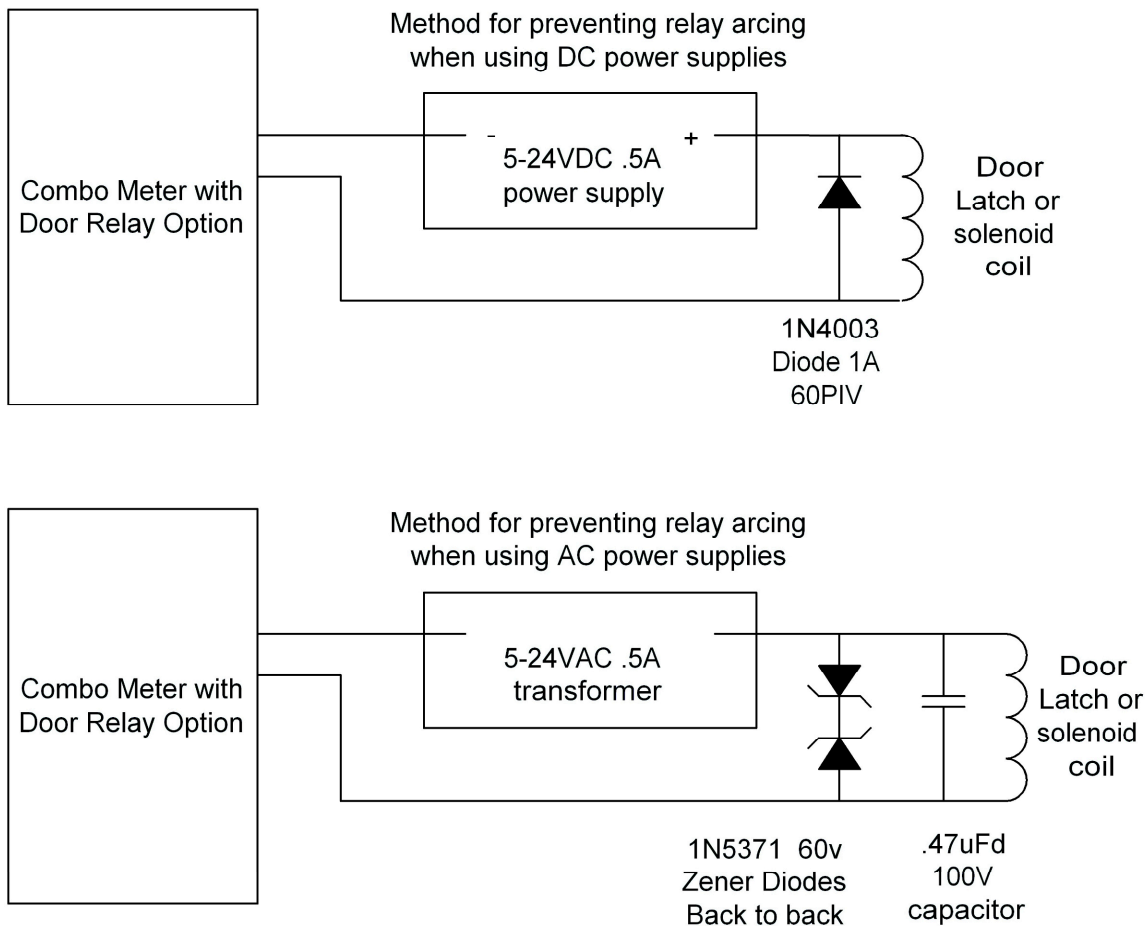
Wrist High sw6 sw7 sw8

20M	off	off	off	(default)
50M	ON	off	off	
100M	off	ON	off	
250M	ON	ON	off	
350M	off	off	ON	
500M	ON	off	ON	
750M	off	ON	ON	
1000M	ON	ON	ON	

Door Relay

Units that are ordered with the door-opening relay option will be equipped with two pigtail wires found on the right side of the unit. There are two male bayonet type plugs attached to these wires. There are two unwired female jacks attached to these male plugs, which can be attached to the open/close schematics on the door/bell circuit board (connected to the door mechanism). The relay in the MTR-8900 and ACL-750 is a single throw, low voltage single pole normally open relay. When the user passes a test, the relay is activated and remains closed for about 3 – 5 seconds after the user releases the test button. Units manufactured after 1/30/2006 have an activation time adjust trimpot in them which can be used to adjust the door open time from about 1 – 9 seconds (see photograph below). If the cover is opened to adjust the trimpot, be sure that the USB cable strain relief notches are securely captured in the cover when replacing the cover screws.

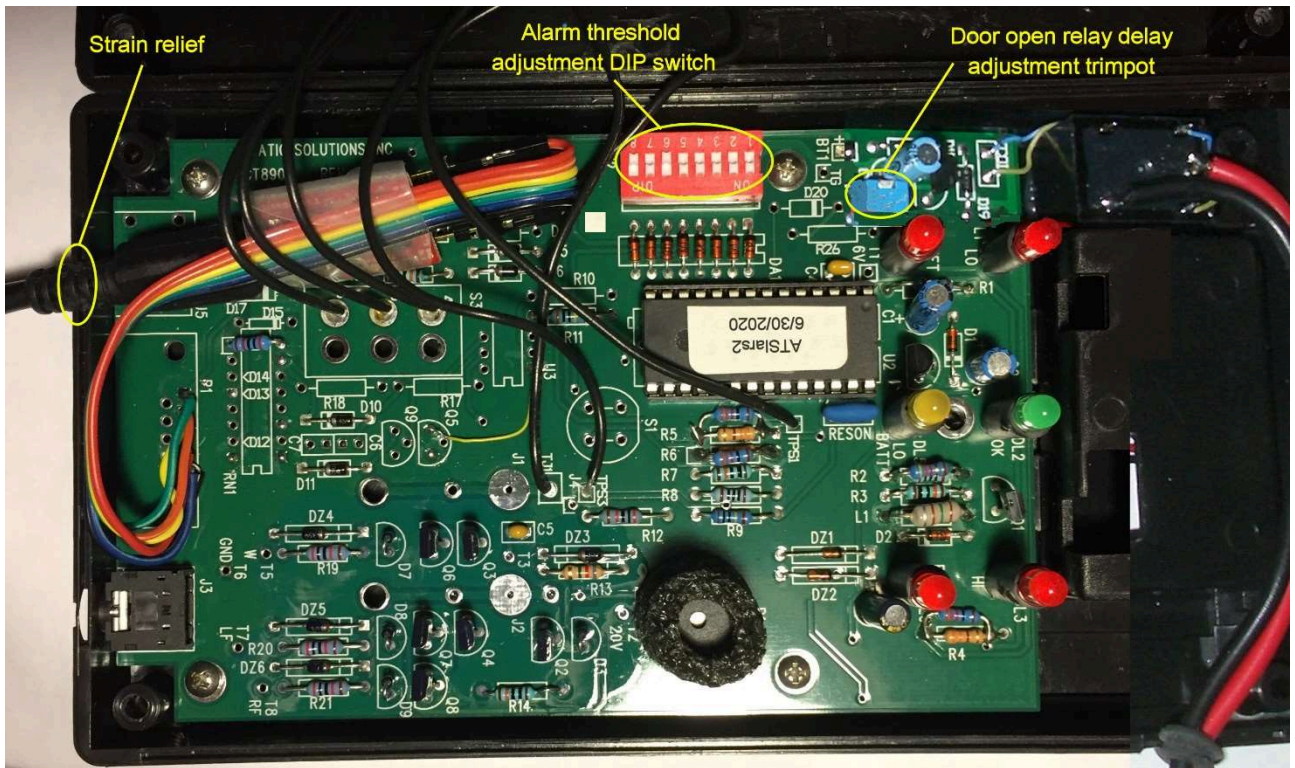
The relay is rated .5 amps at 24 volts. It is illegal to introduce voltages greater than 24V into this unit, since shock hazards could possibly occur. Please refer to the schematics of a footplate door opening mechanism. Substitute the two wire door wires for the two-wire connection of the door foot-switch or hand-switch. The door in a facility has a second relay, usually of a higher voltage of 110 or 220VAC that allows voltage into the door electrical motor that opens and closes a door. This relay can be activated by a press button, a proximity sensor, or a floor switch as in a super market. When a person passes the combo meter strap tests, the low voltage relay in the combo meter is closed thus allowing current to pass into the higher voltage door relay and activate the motor in the door. When the low voltage relay in the meter opens the reverse happens – the high voltage relay in the door is opened thus stopping the door current, and the door closes.



If the door relay contact is in series with a high current inductive load door latch such as a large solenoid or electromagnet, then arcing can develop across the relay contact when the contact breaks the circuit, and shorten the relay life.

To prevent relay contact arcing if the contact current is DC, then a diode (such as a 1N4003 or 1N4004) across the coil leads, with cathode (band side) on the positive lead, may be wired across the contacts. The diode should have a PIV (peak inverse voltage) rating of at least twice the DC voltage.

To prevent relay contact arcing if the contact current is AC, then two zener diodes back to back (band to band) may be wired across the coil leads. The zener voltage should be at least twice the AC voltage. If running 24VAC (30VAC open load?), use two 60 volt 1N5371B zeners.



Setting the "Door open relay delay adjustment trimpot" for the desired door opening time.

SOFTWARE INSTALLATION GUIDE

Software Installation for First Time Installation of New Software

1. Close all open programs. If installation problems arise, then close anti-virus programs also.
 2. Insert the CD into the CD reader.
 3. If the CD does not start automatically, select "RUN" From the start menu and type: D:\setup and press enter. Follow instructions.
 4. If the following message is displayed, "A file being copied is older than the file currently on your system. It is recommended that you keep your existing file. Do you want to keep this file? ", Select Yes. If the user is reinstalling this software due to a computer error after already having input data, do not copy over the log.txt or names.txt files.
 5. After installing the software, a small window will pop up asking if you want to check for newer versions on the internet. Note the present version number. If the computer is connected to the internet, then you may press yes. Follow the instructions below for "upgrading to a minor version change".
 6. To create an EsdTest program startup icon on your desktop as a shortcut, click Start, Programs and select the EsdTest icon in the ESD Test folder to use as an icon to copy. Click on it, hold the left mouse button down, drag the icon onto the desktop, press the Ctrl key to duplicate it, and release the mouse button. This should create icon on the desktop identical to the one in the start menu. If you ever loose the start menu icon, you can also generate the desktop icon by using Windows Explorer to locate the ESD Test folder on the hard drive, usually in the C:\EsdTest directory. Open it and right click on the EsdTest.exe file icon. Select Create Shortcut in the menu, and then drag the newly created shortcut it onto your desktop.
-

Software installation for Upgrading to a Minor Version Change

When updating any software, it is advisable to first back up your present data. If all the data is contained in the c:\EsdTest directory, then just back up this directory (as in step A below).

To get the latest software updates, run the EsdTest program and press the Help, "Check for software updates" menu item. This should open an internet browser to www.EsdTest-SS.com. Close the EsdTest program. If the version shown in the update link on the website is newer than the present version, then:

1. Click on the top update link,
 2. Download the update program
 3. The unzip window should open
 4. Modify the file destination folder box if necessary
 5. Click Unzip
-

Software Installation for Upgrading to a Major Version Change

Follow these instructions to upgrade from ver 6 to ver 8, or from ver 7 to ver 8.

A - Backup everything.

1. Open Windows Explorer (not Internet Explorer). Either hold the Windows Logo key and press the E key, or click on the MyComputer desktop icon.
2. If there are not 2 panes (columns) then click on the Folders icon so that you see 2 panes. The left pane should now say Folders.
3. Left click on the Local Disk (C:) drive item to expand it. All its folders should then be displayed beneath it.
4. Right click on the EsdTest folder and select Copy.
5. Right click on the Local Disk (C:) drive item and select Paste.
6. A new folder should have been created that says "Copy of EsdTest".
7. Left click on this new backup "Copy of EsdTest" folder and you should see all the files displayed in the right pane. There are 5 crucial ones: Names.txt, Log.txt, EsdTest.ini, GenReports.txt, and Netlist.txt. If these exist, then you can proceed to uninstall.

B - Uninstall old program

8. Close or minimize window explorer.
9. Click the Start icon on the lower left toolbar
10. Click Settings and/or Control Panel
11. Click Add/Remove Programs
12. Wait for all the programs to be displayed.
13. Left click on EsdTest

14. Left Click on Uninstall
15. Left click on OK.
16. The program should now have been uninstalled.

C - Install new program

17. Insert the new CD or run the new installation file
18. The CD should auto-boot and ask standard installation questions. If it does not auto-boot then open Windows Explorer again, click on the CD drive, and click on Setup.exe. If you can not find Setup.exe then see if EsdTestVer8x1S4.exe is there and click on it.
19. Once installed, a pop up window should appear and ask if you want to check the web for updates. Click yes which will open Internet Explorer and take you to the update website, then click on the newest update. Updates can also be gotten later by opening the EsdTest program and clicking on "Help", "Check for software updates".
20. If the EsdTest program is open then close it.

D - Copy the old data files (in Copy of EsdTest directory) back to the EsdTest directory 21.

Open Windows explorer again (as you did in steps 1-3 above)

22. You should see all the directories in the left hand pane.
23. Left click on the "Copy of EsdTest" directory.
24. You should see all of its files in the right hand pane.
25. Hold down the Ctrl key and while holding it down left click once each on the following 5 files: Names.txt, Log.txt, EsdTest.ini, GenReports.txt, and Netlist.txt.
26. Keep holding the ctrl key down. You should now see those 5 files highlighted in blue.
27. Keep holding the ctrl key down, and right click on one of the 5 files, and select copy.
28. Release the ctrl key.
29. Right click on the EsdTest directory in the left hand pane, and select paste.
30. If a message asks you if you want to over write a file, then make sure the file dates seem logical and then click yes.

E - Check operation

31. Boot up the EsdTest program in the EsdTest directory. It should boot up and say ver 7.12 or higher. If you miss reading the boot up logo, then just click Help About.
32. Check the names. They should be your old ones.
32. Run a report. It should show your old test data.

F - Notes

For future updates, you will never have to do all this again, just click on Help "Check for software updates".
It is a good idea to occasionally back up everything anyway (as in steps 1-7).

STARTING THE PROGRAM

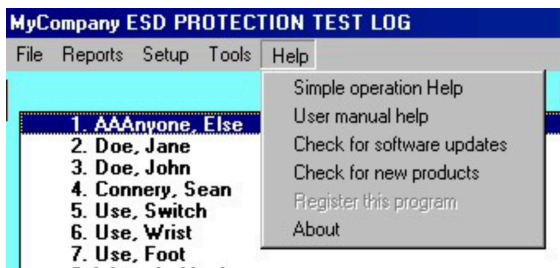
The EsdTest program may be automatically run upon computer boot-up by placing a program icon in the Programs Startup folder. Click Start, Programs and select the EsdTest icon in the ESD Test folder to use as an icon to copy. Click on it and hold the left mouse button down, drag the icon into the Programs Startup folder, press the Ctrl key to duplicate it, and release the mouse button. This should create a copy of the program icon in the startup folder identical to the one in the start EsdTest menu.

To start the program, manually click on the EsdTest icon in the Program Start menu or in the desktop. The program should begin and appear as in the following example:



Help

Clicking the help item will give the following choices:



1. "Simple operation help" will list a help text file. This file (help.txt) can be modified with a word processor to give help specific to your company.
2. "User Manual Help" will call Adobe acrobat (if it is installed) and display the user manual. This action requires the EsdTest administrator's password.
3. "Check for updates on website" will go to the EsdTest website if an internet connection and browser exist, and download the latest EsdTest software. This action requires the EsdTest administrator's password.
4. "Register this program" is no longer used.
5. "About" lists the EsdTest program version number on the window shown at the top of this page.

If you have not yet plugged in a card reader (if purchased), then close the program, shut down the computer, and follow the installation instructions below.

CARD READER INSTALLATION INSTRUCTIONS

For the following card readers, see the designated sections of this manual:

<u>DEVICE</u>	<u>SEE SECTION</u>
Non RS232 Barcode readers (includes keyboard wedge and USB barcode readers)	Keyboard Wedge and USB Bar Code Reader or Magnetic Stripe Reader Installation
RS232 barcode readers (and RS232 Mag Stripe readers) Use this setting even with RS232 to USB converter cables.	General RS232 Reader Installation
USB interface proximity card readers. This does NOT include RS232 readers that have an RS232 to USB converter that use virtual com port drivers	USB Reader Installation
HID 5352 with ACL Staticide RS232 converter	CASI-RUSCO Weigand, HID 5352, HID RW-400ä, AWID SP-6820 RS232 Reader Installation
HID RW-400	CASI-RUSCO Weigand, HID 5352, HID RW-400ä, AWID SP-6820 RS232 Reader Installation
CasiRusco 94x, 97x Weigand, with ACL Staticide RS232 converter	CASI-RUSCO Weigand, HID 5352, HID RW-400ä, AWID SP-6820 RS232 Reader Installation
Awid Sentinel-Prox SP-6820	CASI-RUSCO Weigand, HID 5352, HID RW-400ä, AWID SP-6820 RS232 Reader Installation
All other RS232 interface proximity card readers (for almost all of the multiplatform systems)	General RS232 Reader Installation

Quick Setup

To set up	In the employee selection window select
-----	-----
USB Barcode reader*	USB
USB Mag stripe reader*	USB
Keyboard wedge Barcode reader*	U S B
Keyboard wedge Mag stripe reader*	USB
USB proximity card reader	USB
most RS232 proximity card readers	General RS232**
most RS232 barcode readers	General RS232**
most RS232 mag stripe readers	General RS232**
old HID 5352 reader	(see manual)
old HID RW-400ä reader	(see manual)
old CASI-RUSCO 94x, 97x Weigand	(see manual)
old AWID SP-6820	(see manual)

* NOTE: if some barcode or mag stripe characters must be skipped then use the following

To set up	Select
-----	-----
USB Barcode reader	Barcode-Mag (non RS232)**
USB Mag stripe reader*	Barcode-Mag (non RS232)**
Keyboard wedge Barcode reader*	Barcode-Mag (non RS232)**
Keyboard wedge Mag stripe reader*	Barcode-Mag (non RS232)**

** NOTE: Also select "Edit Reader Parameters" to choose which characters to use

USB Bar Code Reader or Magnetic Stripe Reader Installation

i.e. the reader injects the badge number into the keyboard stream followed by a carriage return, as if you typed it on the keyboard

1. Un-package the magnetic stripe reader or bar code reader and unravel cord.
2. Plug the magnetic stripe reader or bar code reader into the computer.
3. The magnetic stripe reader or bar code reader is now ready to use. Position the reader on TOP of the stand. Position the MTR-8900 and ACL-750 directly below the reader so as the RS-232 does not protrude.
4. Turn computer on.
5. Install software
6. Read, "help files".
7. Open ESD program- Click "Set up".
8. Click "Employee Selection Configuration"
9. Select Bar code/Mag reader. This is same setting if using magnetic stripe reader.
10. Select "by scanning badge number"
11. If you do not want the numbers to be displayed for safety reasons select the Don't Show Numbers box.
12. Press "Edit Reader parameters".
13. Press "all" under Characters to use.
14. If you want to automatically enter new badges click all the 4 boxes in the unrecognized employee configuration window.

Employee selection and test configuration window

Enter employee identification via

☐ Keyboard ☐ General RS232 reader ☐ HID 5352 reader

☒ Barcode-Mag (non RS232) ☐ Casi-Rusco 94x, 97x ☐ HID R/w-400 reader

☐ USB interface readers (includes HID, Casi-Rusco, Indala, Mifare, etc. proximity cards)

Identify Employee

☐ from list of names

☐ by scanning badge number or typing name or badge number

☐ by scanning badge number or or typing badge number

☐ by scanning badge number or typing ID number or badge number

☒ by scanning badge number or typing name, ID number, or badge number

Don't show numbers ☐ (Do not display badge or ID numbers while scanning badges)

No Monitor ☐ (Will cause RS232 window to look for test data after test OK.)

No Keyboard ☐ (Will cause some question boxes to default)

Simulate Mode: ☐ (Only available in training version.)

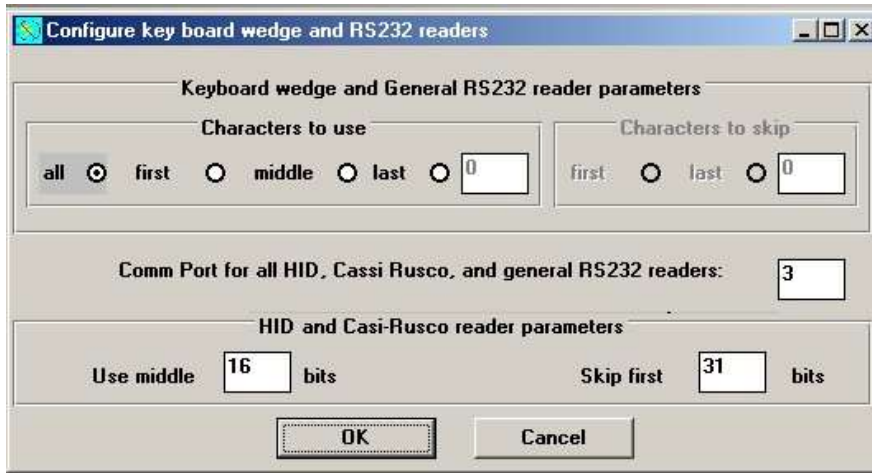
Allow employee ☐ to change own sick time

Show results ☒ of non required strap.

Show last person ☒ that tested

Ask for password ☐ before each test

Blink if OK to test ☐ (for new units)

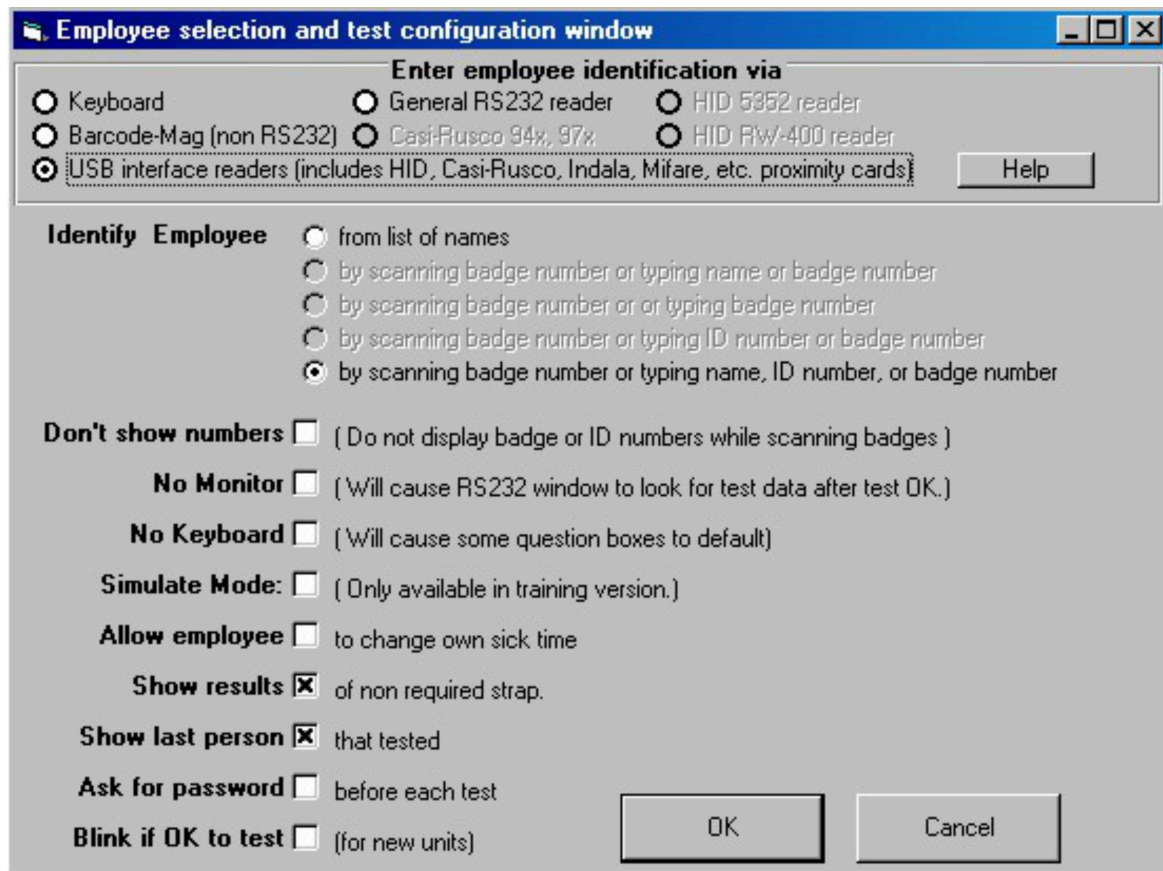


Trouble Shooting if Sc anner Does Not Read Correc tly

1. If your card- reader configuration is incorrect the card will not work. The reader must be programmed for your card configuration. I.e. tracks 1,2,3 or 1 and 2, or 2 and 3 etc.
2. Try reversing your card around and offering the readable side on the reverse side. Pass card faster or slower. Clean with water or alcohol if dirty.
3. Make sure the reader has been pre programmed to send a carriage return after a scan
4. Check characters to use configuration. If problems still continue send a sample card to ACL Staticide.

USB Reader Installation

A USB reader automatically reads and decodes the card, and injects the number into the keyboard stream. It is powered by the USB cable so does not need a power supply. Setup the software by clicking the "USB" option as shown in the following picture. When the USB option is selected, the "Configure Reader" button will be hidden since no other configuration is needed.



Trouble Shooting if USB scanner Does Not Read Correctly

The reader must be preprogrammed to read and decode the card correctly, and end with a "return" character. To test, open Microsoft Notepad, type a few characters to see them displayed, then read a card and it should also be displayed. If the badge number is not displayed correctly, then return the reader, a typical card, and a note with the desired badge number to be read from the card, to ACL Staticide Inc for reprogramming.

Note that RS232 readers connected to an RS232-USB converter acts like RS232 input readers and not like USB readers, so see the "INSTALLING CASI-RUSCO, HID, AWID RS232 READERS" section below.

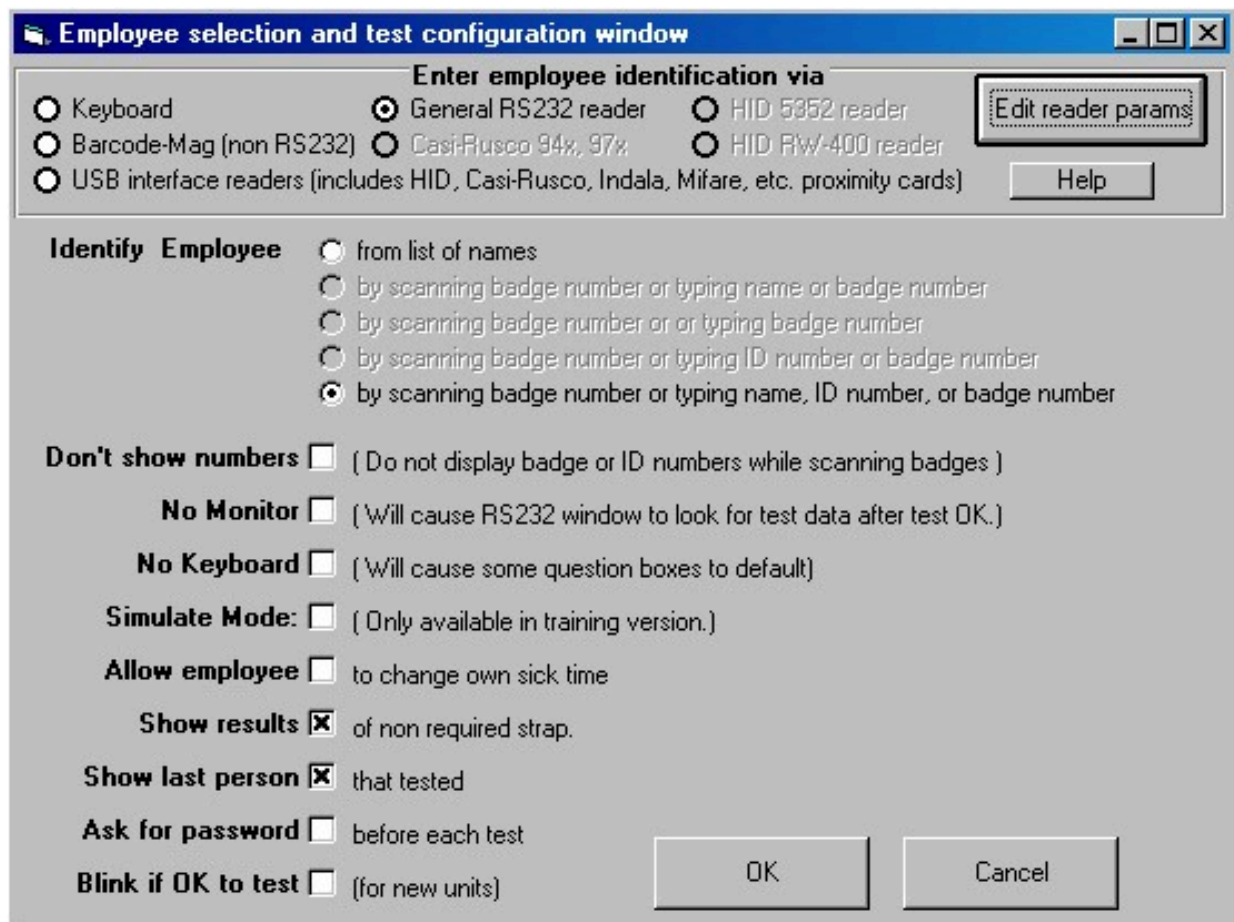
General RS232 Reader Installation

For all RS232 card readers that transmit at

- 9600 Baud
- 8 bits
- No Parity
- No Handshaking

Can use the General RS232 check box.

Note: The computer must have two working serial ports installed on the computer. One for the meter and one for the reader. A low cost two serial port card is available from any computer store. However, if a USB port is preferred, an optional USB converter with USB to Com port driver may be purchased from Ground Zero Electrostatics and Static Logic LLC.



The image shows a Windows-style dialog box titled "Employee selection and test configuration window". It contains several sections for configuring the test setup.

Enter employee identification via

- ☐ Keyboard
- ☒ General RS232 reader
- ☐ HID 5352 reader
- ☐ Barcode-Mag (non RS232)
- ☐ Casi-Rusco 94x, 97x
- ☐ HID RW-400 reader
- ☐ USB interface readers (includes HID, Casi-Rusco, Indala, Mifare, etc. proximity cards)

Buttons: "Edit reader params" and "Help"

Identify Employee

- ☐ from list of names
- ☐ by scanning badge number or typing name or badge number
- ☐ by scanning badge number or or typing badge number
- ☐ by scanning badge number or typing ID number or badge number
- ☒ by scanning badge number or typing name, ID number, or badge number

Don't show numbers ☐ (Do not display badge or ID numbers while scanning badges)

No Monitor ☐ (Will cause RS232 window to look for test data after test OK.)

No Keyboard ☐ (Will cause some question boxes to default)

Simulate Mode: ☐ (Only available in training version.)

Allow employee ☐ to change own sick time

Show results ☒ of non required strap.

Show last person ☒ that tested

Ask for password ☐ before each test

Blink if OK to test ☐ (for new units)

Buttons: "OK" and "Cancel"

Press the "Edit reader parameters" button and:

- Select "all characters" (unless you want to skip some)
- Enter the com port number
- To guarantee that the badge number reading contains the correct number of characters, enter the number of characters in the "Card must have this many characters" box.

Configure badge readers

Keyboard wedge and General RS232 reader parameters

Characters to use

☒ all ☐ first ☐ middle ☐ last 0

Characters to skip

☐ first ☐ last 0

Comm Port for all HID, Cassi Rusco, and general RS232 readers: 1

HID and Capi-Rusco reader parameters

Use middle 16 bits **Skip first** 31 bits

Card must have this many characters: 0 (set to 0 to accept any length)

OK Cancel

Trouble Shooting If the RS232 reader card does not work.

1. Incorrect comm ports will not allow the system to work. Check if they are operable and if they are correctly connected. The combo tester and reader must NOT be on the same virtual comm ports.
2. Press the test press switch for at least two seconds.
3. Try rebooting the computer after everything is installed.
4. Open Microsoft Hyperterminal (Start, Programs, Accessories, Communications, Hyperterminal) and see if it can receive the transmitted characters.

Note: These readers are no longer officially supported. They can not be directly selected in the entry window. However, they may still be selected by manually editing the "Barcode" parameter in the EsdTest.ini file (0=keybd 1=barcd 2=HID5352 3=Casi 4=GeneralRS232 5=HIDrw400 6=USB). If upgrading from an older software version that used these readers, simply copy the old EsdTest.ini file to the C:\EsdTest directory so the new software will use it.

The computer must have two working serial ports installed on the computer. One for the meter and one for the reader. A low cost two serial port card is available from any computer store. However, if a USB port is preferred, an optional USB converter with USB to Com port driver may be purchased from ACL Staticide.

1. Attach the HID™ 5352 reader to the ACL Staticide HID to RS-232 serial comm. port. Converter, and plug the converter into the computer. Connect the CASI RUSCO™ 94x, 97x reader to the ACL Staticide CASI RUSCO to RS-232 serial comm. port. Converter, and plug the converter into the computer. Attach the two-plug power supply. Male to the HID or Casi-Rusco unit and female to the meter. Test the card to see if the unit reads green and emits a 'buzz' sound.
2. Check the HELP files on the C:\EsdTest directory for any later updates.
3. Open the 'Employee selection Configuration' screen and press the appropriate box for HID 5352, or CASI-RUSCO Wegand in addition to the character and bit information. (See figure below.) The RS232 box is for a Motorola unit with a Wiegand to RS232 converter, or any other reader with a general RS232 output.
4. Click the appropriate box in the Identify Employee section to select if an employee is to be identified by having an employee:
 - select their name from a list of names
 - or by automatically scanning a badge number or typing name, ID number, or badge number if the badge is lost
5. If you do not want the numbers to be displayed for safety reasons select the Don't Show Numbers box.
6. If there is no monitor, the "NoMonitor" box may be selected. This will continue to take data if the test button is pressed again, even after a good reading. This may only be required for some circumstances when using RS232.
7. If there is no keyboard, select the No Keyboard box to bypass any of the question boxes.
8. "Simulate mode is only used in some demo programs. It is not used for actual testing.
9. If the employees are to enter their own sick/vacation schedule then check the "Allow employees to change own sick time" box.
10. If the employee has multiple straps but is not required to test all of them, click the "show results of non-required strap" to allow the employee to see the results of all the tests.
11. If it is desired to show the last person that tested on the login screen, then check the "show last person that tested" box.
12. If it is desired to require an individual employee password for each employee that tests, then check the "ask for password before each test" box.
13. On optional models of the combo tester that have an extra "employee recognized – OK to test" LED, select this box.
14. Press "EDIT READER PARAMETERS"
15. For HID 5352 readers select the HID 5352 option, for a standard "26 bit" HID card enter Use 16 bits and enter Skip first 31 bits (because the RS232 version adds extra bits.) If the 8 bit facility code is to be included in addition to the 16 card number bits, then use 24 bits and skip first 23 bits. For an HID "37 bit" card, use 31 bits and skip the first 16. Parity and checksum bits are not checked.
16. For the HID RW-400 reader (10-16VDC) select the HID RW-400 option in the reader configuration window. Skip 11 bits and use 16 for their demo cards.
17. For CASI-RUSCO 94x, 97x Weigand cards, the full 38 bits can be read by setting the bits-to-use to 38 and the bits-to-skip to 1. To only read the 6 digit employee id (which is the last 19 bits of the 38 bit data field) set Bits-to-use to 19 and set bits-to-skip to 20 (although some cards require setting bits-to-skip to 24).
18. If an Awid Sentinel-Prox SP-6820 reader is used, then select the "HID 5352" option in the reader configuration window. Set Bits to use = 16, bits to skip = 17. If this gives too many digits on some cards then use 12 bits and skip the first 21 bits. The number read from the card is the same as the number printed sideways on the rear of the card near the edge (i.e. 01897).

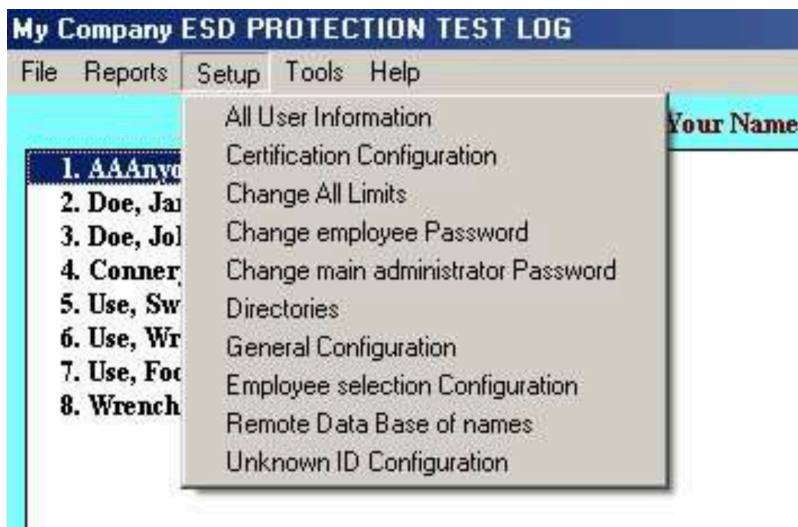
SEND A CARD TO ACL STATICIDE FOR PROPER REGISTRATION

Trouble Shooting If the card does not work.

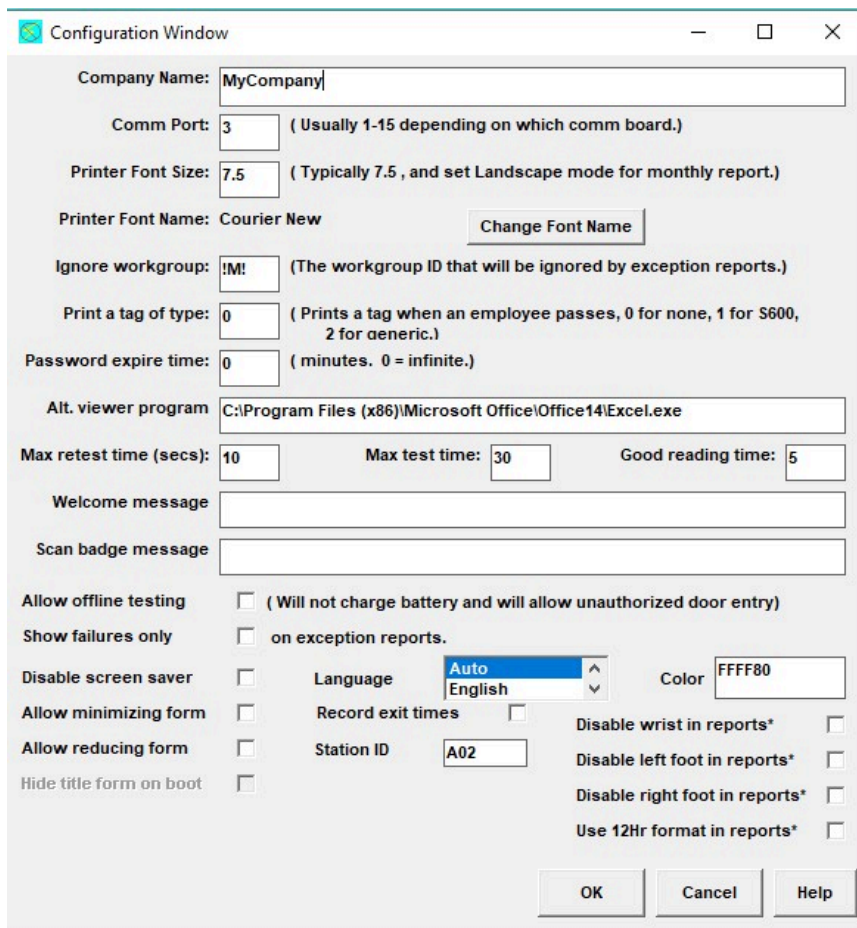
5. If either the card reader configuration or bits to use or bits to skip is incorrect the card will not work.
6. Incorrect comm. ports will not allow the system to work. Check if they are operable and if they are correctly connected. The combo tester and reader must NOT be on the same ports.
7. Press the test press switch for at least two seconds.
8. Try rebooting the computer after everything is installed.

PROGRAMSETTINGS

1. Open the EsdTest program
2. Select "Setup"



General C onfiguration



- Enter the Company Name. Do not use commas or periods.
- Enter the serial com port number that the USB cable virtual comport is connected to. The default is 1. If the ESDTest program will only be used as a server, and never have a meter connected to it, a zero can be entered.
- Select the printer 'Font Name' item from the 'Setup' menu, and select a fixed font width font such as Courier, Courier New, Terminal, System or Fixed. Print a report by selecting the 'Reports Menu' and clicking on 'Print Monthly'. The user should pick a month with 31 days in order to check the proper type width. The printer setup should be in the Landscape mode. Check the printout. Adjust the 'Printer Font Size' item of the 'Setup' menu to expand or contract the lines to fit the page. Select size 7.5 font.
- The configuration menu contains an ignore workgroup box. If maintenance workers need to be tested but not included in the exception report, then enter the maintenance workgroup prefix to be ignored in the exception report.
- A label can be printed every time an employee passes by setting the tag type box to 1 (if a Zebra S600 printer is connected), or 2 (if a general purpose printer is connected), or 0 if no tag is to be printed. If sending to a Zebra S600, make sure that the default printer configuration in Start Settings Printer is set to a Generic Text printer driver. If sending to a Zebra printer (i.e. tag type 1), the file Zebra.txt is sent, with the ---date--- and ---name--- fields replaced by the actual date/time and employee name. The Zebra.txt file is a Zebra ZPL2 character format file, so the label may be custom formatted by the client to include company name, admittance area, or other fixed information. If sending to a non Zebra printer (i.e. tag tpe 2), the date/time and employee name is sent as in the following example:

```

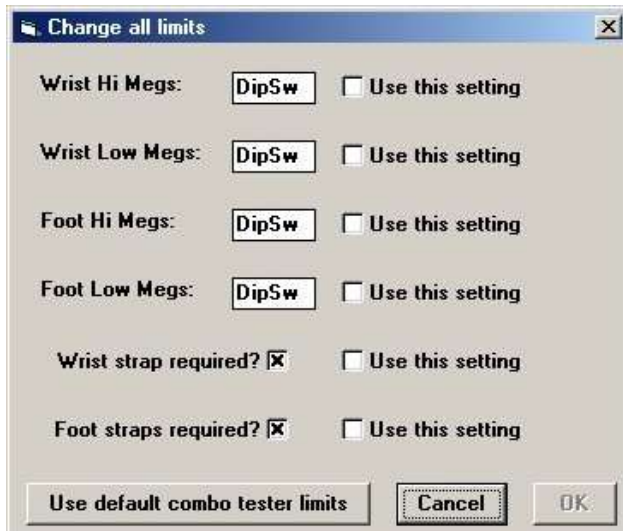
ESD FOOTWEAR TEST
PASS
15:34 10/04/2014
Edward Horsefeathers

```
- Password expire time: time in minutes. 0 is infinite.
- If a report overflows the text viewer, an alternative viewer can be selected by inserting the path into the Alt Viewer Program line of the Setup General Configuration Window.
- If the test fails, the test window can be made to time out for any period from 1-30 seconds if another test is not conducted. This way the following employee will see a failed test window left on the screen. This time is set from the General configuration window, in the "Max retest time" text box. Setting it to 0 will cause the test window to never time out.
- Max test time: the time in seconds that the testing window will a test to occur before timing out.
- The time that a good test reading is displayed may be varied by changing the "Good Reading time" text box. This interval is in seconds, and may include a decimal point.
- The Welcome message can be modified for different languages by entering new wording into the Welcome Message text box. Leaving it blank will default to "Welcome".
- The "Please scan your badge" message can be modified for different languages by entering the new wording into the Scan Badge Message text box.
- If the "Allow Offline Testing" box checked, the program will allow the combo tester to conduct measurements even if the employee is not logged in, but the combo meter will use it's internal dip switch alarm values. Operation in this mode is not recommended because the employee could scan in with a faulty badge, not notice that the test window had failed to open, test, and think he had tested properly. Operation in this mode also prevents the internal rechargeable battery (if installed) from charging. Operation in this mode also allows unauthorized personnel to open the door (if the combo meter is equipped with a door opener relay). If testing of unregistered employees is desired, the preferred method is just to set up a dummy employee named AAAnyoneElse with a workgroup designation of ???, that way any unrecognized employees will be tested normally.
- In the Exception reports, if it is only desired to show employees who have failed the strap resistance test, instead of showing all employees in that workgroup who either failed, or did not test, or who are absent, then click the "show failures only on exception reports" check box. Note that this option is not recommended, since it will not list employees who forgot to test.
- Some computer operating systems have automatic screen savers that blank the screen and ask for a password after an inactive period of no keyboard entry. This screen saver timeout can either be disabled by turning it off at the operating system level (recommended) or disabling it by clicking on the "disable screen saver" check box.
- If it is desired to allow the employees to minimize the program when the administrator password is enabled, then click the "Allow Minimizing form" box.
- If it is desired to allow the employees to show a reduced size program when the administrator password is enabled, then click the "Allow Reducing form" box. If the title bar is double clicked, the program will reduce in size. Double click it again to return to full size.
- The language options for the testing window can be chosen in the language window. See the section on "Language display".
- To run the "record exit" option, click the "Record Exit Times" check box. This will record the time that an employee left the area. To record an exit, swipe the badge but do not press the combo tester button. It is permissible for the next person to swipe their card before the test window clears the screen. The test window time delay can be set in the General

Configuration window. To view the entrance and exit times in a report, use either the "Daily" report or the "Individual" report. (The "View Entire Log" report shows what was originally recorded in the log.txt file, so will display the entrance and exit times on separate lines)

- If it is desired to know which station a test was conducted from, then enter a station ID in the "StationID" box. This parameter can then be added to the remote data base test log. Use an ID such as A01 where A is the facility, and 01 is the station number at that facility.
- The background color of the "Scan your badge" window can be set with the "color" parameter. Setting it blank or 0 will default to a light blue color. It can be set to any color by setting to BBGGRR where BB is the color blue hex number value 0-ff, GG is the color green hex number value 0-ff, and RR is the color red hex number value 0-ff. For example FF0000 is bright blue, 00FF00 is bright green, 0000FF is bright red, 00FFFF is yellow since red light and green light appears yellow. Setting it to 8000000F will default to the system button color.
- The ACL title form can be hidden on boot by checking the "Hide title form on boot" check box.
- If wrist straps are not measured, they can be excluded from some reports by checking the "Disable wrist in reports*" box. These reports include: Entire log, Daily Log, Individual Log, and the Monthly report.
- If left foot straps are not measured, they can be excluded from some reports by checking the "Disable left foot in reports*" box. These reports include: Entire log, Daily Log, Individual Log, and the Monthly report.
- If right foot straps are not measured, they can be excluded from some reports by checking the "Disable right foot in reports*" box. These reports include: Entire log, Daily Log, Individual Log, and the Monthly report.
- If 12 hour time format (ie AM and PM) is desired, it can be viewed in some reports by check the "Use 12 hour format in reports*". These reports include: Entire log, Daily Log, Individual Log, and the Monthly report.

Change All Limits.



This is under the 'Setup Menu' "Change All Limits". This screen can be used to reset the parameters for the wrist and foot strap alarm resistances of all employees. The wrist strap and heel grounder defaults may also be selected. Resistance values from 0.10

megohms to 99.99 megohms for the minimum and maximum alarm conditions may be entered. *A special 1000 megohm model PROM is also available. However, it is recommended that you enter the alarm conditions at which the combo tester internal dipswitches are set. These may be determined later by running a test and reading the set point conditions in the 'Received' window. The dip switch setting on the combo tester overrides the "Wrist Used" and "Foot Used" criteria in the user 'Setup' menu.

By using "DipSw" or "-1" in all fields, the parameter settings will automatically match the dipswitch settings inside the meter. For example, the wrist low would be .75 because dipswitch 2 is turned on. If the user puts dipswitch 2 to the off position (.5M), -1 would then be .5 Megs. (See limit switch settings chart).

Change Administrator Password

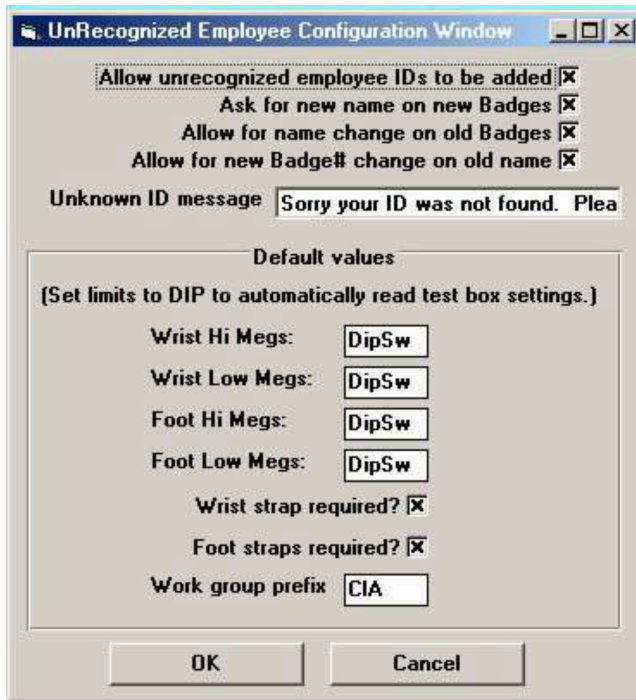
A password protection can be activated in order to access the setup parameters and the data. . Select 'Change Password' under



If using a password, it will only be asked for once. If a password was previously entered and is no longer required, select 'Change Password' and leave the field blank when selecting a new one.

'Unknown ID Configuration'

The program will also allow automatic addition of new badges if an unknown badge number is read during testing. This may be enabled in the 'Unknown ID Configuration' menu under the 'Setup'.



The parameters are as follows:

- Allow unrecognized employees to be added - If this is the only box checked, the employee will be entered with the Name and ID as the badge number.
- Ask for new name on new badge – If this box is also checked, the program will ask the employee to enter a name.
- Allow for name changes on old badges – If this box is checked, and if the F1 key pressed during testing, the program will ask the employee if the name needs to be changed.
- Allow for new badge# change on old name – if “Ask for new name on new badge” is checked, and if an employee scans a new badge and enters his name, the program will check the name to be sure it does not already exist with an old badge number. If it does, the old badge number will be changed to the new badge number.
- Unknown ID message – if none of the above boxes are checked, and if “AAAanyone else ???” does not exist in the names.txt file, then this message is displayed. This message can be changed to any message.

User Information

Enter the desired user information. Select 'Setup' from the main menu and "all user information".

The 'Modify Names' dialog box is divided into several sections:

- User Information:** Includes fields for Last Name (Connery), First Name (Sean), Grp (123), ID (7788), Badge (7788), and Line (4).
- Strap Parameters:** Includes fields for Wrist Low Megs, Wrist Hi Megs, Foot Low Megs, and Foot Hi Megs, each with a 'DipSw' button. There are also checkboxes for 'Wrist Strap?' (checked) and 'Foot straps?' (unchecked).
- Leave Status:** Includes a 'Status =' field with buttons for 'A OK', 'Holiday', 'Personal', 'Vacation', and 'E'. Below this are buttons for '4 hours', 'Disabled', 'Misc Abs', 'Training', 'eXpired', 'Sick', 'No report', 'Unplanned', and 'not tested'. There are also date fields for 'Leave date from:' (10/13/2003) and 'through date:' (10/13/2003), and buttons for 'Update' and 'Yearly summary'.
- Certification:** Includes a 'Type' field (1) and an 'Expiration Date' field (10/13/2003).

At the bottom of the dialog box are five buttons: 'Append', 'Insert', 'Modify', 'Delete', and 'Cancel'.

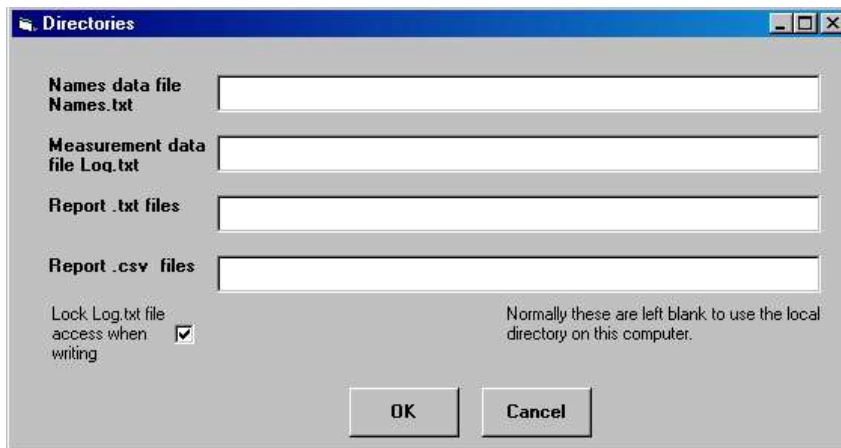
User Information -

- Last Name: The employee' last name with no commas or spaces.
- First Name: The employee' first name with no commas or spaces.
- Grp: The workgroup designator (department) with no commas, spaces, dashes, or colons. One to four characters are recommend for best report formatting
- ID: Employee's ID number with no commas, spaces, dashes, or colons. Try to keep under 9 characters for best report formatting
- Badge: Employee's ID number with no commas, spaces, dashes, or colons. Try to keep under 9 characters for best report formatting
- Wrist Low Megs: The low resistance alarm setting. Use "DipSw" to read the combo meter dip switch settings.
- Wrist Hi Megs: The high resistance alarm setting. Use "DipSw" to read the combo meter dip switch settings.
- Foot Low Megs: The low resistance alarm setting. Use "DipSw" to read the combo meter dip switch settings.
- Foot Hi Megs: The high resistance alarm setting. Use "DipSw" to read the combo meter dip switch settings.
- Wrist Strap check box: Check this box if wrist straps are required
- Foot Straps: Check this box if foot straps are required. Check neither box to use the combo meter toggle switch.
- Leave Status: Select a leave status if desired or type a letter into the box.
- Leave date from: Starting date of leave
- Through date: Ending date of leave
- Update button: Update the dates entered above so can add more dates
- Yearly summary button: Show the yearly status summary.
- Certification Type: Enter a company defined certification type
- Certification Expiration date: Enter the date the certification expires. Can use the optional training course if desired.

Up to 30000 employee names and information may be added. There are 9 sample users already in the software, which may be deleted after the user studies them as examples. The names can be manually entered with data base software such as Access™.

- There are five command buttons at the bottom of the user information screen: Append, Insert, Modify, Delete, Cancel.

- When the 'User Information' is selected, the first employee will automatically pop up. It can be typed over with the new user's information. This feature allows the default settings to be used repeatedly. Once new user information is typed over the default settings, the user should press 'APPEND'. This will create a new number for that user at the bottom of the list.
- If you would like to insert a new employee at a certain point in the list, select the name you want the user to come before in the list. Type over the information with the new user's information. When finished, press INSERT. This will put the new user ahead of the person you selected.
- Anytime information is changed for a user, use the MODIFY command when finished to save all changes.
- To move between users in the general configuration screen, use the side toolbar under the word list. This will advance to the next or previous user.
- An employee can be set up as "Exempt" from having to pass the resistance tests. This will allow the employee to open the door relay (if the system is equipped with a door relay). Set the employee as "Exempt" by either:
- setting the max wrist resistance greater than 10000 (or entering "Exempt" - setting the WorkGroup to "eXe"



Can set different directories for the Names.txt file, Log.txt file, report.txt files, and report.csv files in the Setup, Directories window. Normally these entries are left blank to default to the local ESDTest working directory, but for simple networking, they may be set to point to the main server directory (see networking help below). If one master log.txt file is used, and if problems arise with multiple servers writing to it at the same time, then file locking may be selected by placing a check in the checkbox. If the log.txt file is local to the computer, this option should not be used (i.e it should not be checked).



An option exists to allow employee to enter their own sick time. Enable this option by selecting the Employee Selection Configuration window, and checking the "Allow employee to change own sick time". Set a password for this feature by selecting the Change Employee Password item in the Setup window. If the password is set to no characters, then it will be ignored. When an employee tests his/her strap, there will be a box that says "Modify Sick Time" on the lower right corner of the main test results

window. An employee can now click this box. The employee password will be asked for (if it was not set blank). A sick time modification window will be displayed (without the certification data shown), and the employee can then modify this. You can show explicit help instructions for your company's sick/vacation policies by modifying the file named HelpVacation.txt, which can be modified with any word processor.

Certification Configuration

Certification Expiration Notification Configuration

Days before the certification expiration date to give a warning notice. Set to -1 to disable. Set to 30 for a 1 month advance notification.

Interval of days before repeating the warning notice. Set to 7 to be reminded every week. Set to 0 to be reminded each time logged in.

☐ Never allow access to expired certificate users.
☐ Allow Expired Certificate users entry with this password (requires keyboard).
☒ Always allow access to expired certificate users (default).

Certification training data base file path:

Interval of months before retraining is again required.

To warn an employee of impending training certification expiration, limit access of employees with expired certification, and automatically update the certification expiration date, use the Setup Certification Configuration menu. Enter the days of advanced warning. Set to 0 to disable advanced warnings. Enter the number of days interval between notifications. Set the interval to 0 to notify the employee every time they log in. Check one of the three option buttons to: exclude all employees with expired certificates, allow expired employees access if they know the password (and enter the password - make sure it is different than the administrator password) (must have a keyboard for this option), or allow all expired employees access. The "Training" report can automatically update the certification expiration dates from a ACL Staticide training course (contact ACL Staticide for pricing). Also enter the retraining interval in units of months. To update the certification dates click the Reports Training button, or periodically run the Training function from the AutoGenerate email task scheduler

Remote Data Base Setup for accessing employee names

Introduction

The EsdTest program typically uses the EsdTest data base file (Names.txt file) to store employee names, badge numbers, Id number, and other information. However a customer's existing remote data base can also be used. Typical data bases include Oracle, SQL2000, Access 2000, and most other SQL type data base servers. The EsdTest program can be set up to do one of the following:

1. Find an employee in the remote data base if the employee can not be found in the EsdTest Names.txt file data base, and add that employee's information to the EsdTest data base.
2. Only use the remote data base and never use the EsdTest Names.txt file data base. Note that this method will prohibit using most of the EsdTest report features, and will only work as long as the network and remote data base server are functioning.
3. Use the remote data base, but keep a local copy of it to use if the network or server stops functioning. Note that this method will prohibit using the EsdTest sick/vacation report features.
4. Only use the EsdTest data base file (Names.txt file).

The operating characteristics are further described here.

Method 1 – Uses the remote data base only if the employee can not be found in the EsdTest Names.txt file data base, and adds that employee's information to the EsdTest data base. For example, if John Smith is a new employee and has not been entered into the

EsdTest data base, then without this feature he would not be recognized. What this feature does is:

Testing sequence

1. When a person swipes his badge, look up the badge number in the EsdTest Names.txt data base and retrieve the last name, first name, and id#
2. If the person is not found in the EsdTest data base, then look up the person's badge number in the Remote data base. If the person is found there, then get the //person's ID number from the remote data base, and search the EsdTest data base for the person's id#
 - a. if it already exists then update that person's badge number in the EsdTest data base
 - b. else add the person to the EsdTest data base
3. If the employee is not found in the remote data base either, and if the Unknown employee setup window is configured to accept unknown employees (see adding unknown employees in the main help file), then the employee may key in his name and be added to the Esdtest data base.
4. Otherwise the employee will be rejected and not allowed to test.
5. If recognized, the employee may then proceed with the test, and the test data is stored in the EsdTest log.txt data base, and/or a remote log data base (see Remote test data base help file)
6. The Esdtest data base can be later exported back to the remote data base if desired

Method 2 – Only use the remote data base and never use the EsdTest Names.txt file data base. Note that this method will prohibit using most of the EsdTest report features, and will only function as long as the network and remote data base server are functioning. Editing the employee information from the EsdTest program can only be done by another copy of the EsdTest program running in Method 1, 3, or 4 and importing the entire remote data base into the EsdTest Names.txt file, editing it, then exporting back to the remote data base. What this feature does is:

Testing sequence

1. When a person swipes their badge, look up the badge number in the Remote data base and retrieve the last name, first name, and id#
2. If the person is not found in the EsdTest data base, then the employee will be rejected and not allowed to test.
3. If recognized, the employee may then proceed with the test, and the test data is stored in the EsdTest log.txt data base, and/or a remote log data base (see Remote test data base help file)

Method 3 – Use the remote data base, but keep a local copy of it to use if the network or server stops functioning. Note that this method will prohibit using the EsdTest sick/vacation report features. What this feature does is:

Testing sequence

1. On program boot, copy the entire remote data base to the EsdTest Names.txt file data base. Note that this overwrites all the previous data and clears all sick and vacation data.
2. When a person swipes his badge, look up the badge number in the remote data base. If the person is not found in the remote data base, then the employee will be rejected and not allowed to test.
3. If the person is found in the remote data base, then update the EsdTest data base if that person is not already in there.
4. If the remote data base or network is unavailable, then look up the employee in the EsdTest Names.txt file data base. If the person is not found in the remote data base, then the employee will be rejected and not allowed to test.
5. If recognized, the employee may then proceed with the test, and the test data is stored in the EsdTest log.txt data base, and/or a remote log data base (see Remote test data base help file)

REMOTE NAME DATA BASE CREATION

Create a view with a name like ESD_EMP_BADGE_VW to the company data base with the following fields:

LAST_NAME (will be holding data like - Smith)

FIRST_NAME (will be holding data like - Fred)

BADGE (will be holding data like - 3852)

DEPT (will be holding data like - CIA)

EMPID (will be holding data like - 12345)

WRIST_USED (will be holding data like - 0 or 1) this field is not required

FOOT_USED (will be holding data like - 0 or 1) this field is not required

CERTIFICATION_EXPIRATION_DATE (will be holding data like - 10/28/2006) this field is not required

It may be best to have all fields be text (char) fields, although the CERTIFICATION_EXPIRATION_DATE field can be a date field.

For Oracle create an ODBC driver instance and a DSN name such as ESD.

If writing names or certification dates to the remote database will never be used, then the remote data base can be set up as read only.

EsdTest SETUP

Names Data Base Setup Window

Connect string:
Can leave connect string blank if data base does not exist.

SQL read prefix:

SQL write prefix:

SQL delete prefix:

Last name field:

First name field:

Badge field:

Id field:

Group field:

aux Wrist used field:

aux Foot used field:

aux Cert expire field:

Usage

- ☐ Only read the name from the remote data base if it is not in the Names.txt file, then add it to the names.txt file.
- ☐ Only read the name from the remote data base, never from the names.txt file.
- ☐ Import the remote data base to the names.txt file on bootup.
- ☐ Always try reading the name from the remote database but use the names.txt file if the database is unavailable.
- ☒ Never read the name from the remote data base, always use the names.txt file.

Import names.txt file from remote database

Emport names.txt file to remote database

OK

Cancel

Help

Click Setup, Remote data base of names to open the setup window and enter the following items:

Connect String: Enter the data base connection string which for Oracle might look something like:

Server=WPRPROD;DSN=ESD;UID=wpread;PWD=wpread

And for SQL2000 might look something like:

UID=;PWD=;Database=ESD_EMP_BADGE;Server=MYSERVER;Driver={SQL Server};DSN=;

And for Access.mdb might look something like:

Driver={Microsoft Access Driver (*.mdb)};Dbq=c:\EsdTest\EsdTest.mdb;Uid=Admin;Pwd=

SQL read prefix: Select the fields from the view by entering something like:

SELECT * TRANSFER.FROMESD_EMP_BADGE_VW (if using Oracle)

Or SELECT * FROMESD_EMP_BADGE_VW (if using SQL2000)

Or SELECT * FROMESD_EMP_BADGE (if using an Access table)

If writing names to the data base then

SQL write prefix: Insert names by entering something like:

INSERT INTO ESD_EMP_BADGE_VW (if using Oracle)

Or INSERT INTO ESD_EMP_BADGE_VW (if using SQL2000)

Or INSERT INTO ESD_EMP_BADGE (if using an Access table)

If it is desired to replace the names in the data base with the names in the names.txt file, then add this "delete" prefix SQL delete prefix (will delete the old names in the remote data base before exporting the names.txt file)

Delete names by entering something like:

DELETE FROMESD_EMP_BADGE_VW (if using Oracle)
Or DELETE FROMESD_EMP_BADGE_VW (if using SQL2000)
Or DELETE FROMESD_EMP_BADGE (if using an Access table)

If writing names or certification dates to the remote database will be used, then the remote data base must not be set up as read only.

Last name field: Enter the name of the field that contains the last name which should look something like: LAST_NAME

First name field: Enter the name of the field that contains the first name which should look something like: FIRST_NAME

Badge name field: Enter the name of the field that contains the badge number string which should look something like: BADGE

Group field name: Enter the name of the field that contains the Group string which should look something like: DEPT

Id field name: Enter the name of the field that contains the Id string which should look something like: EMPID

Wrist used field: (optional) Enter the name of the field that contains the Wrist used value (should be 1 if using wrist straps and 0 if not required to use wrist straps) which should look something like:

WRIST_USED

Foot used field: (optional) Enter the name of the field that contains the Foot used value (should be 1 if using foot straps and 0 if not required to use foot straps) which should look something like:

FOOT_USED

Certification expiration date field: (optional) Enter the name of the field that contains the Certification expiration date which should look something like:

CERTIFICATION_EXPIRATION_DATE

Operation

Method 1 Operation

Click the top radio button in the Setup Remote Data Base window To add employees to the ESDTest Names.txt file data base:

If the setup boxes are not blank, and if an employee scans his badge and is not found in the local data base, the program will automatically search for unknown employees in the remote data base

To delete (scrub) employees who are no longer in the remote data base from the ESDTest data base, and update employees who's name, badge number, group, strap requirements, or certification expiration date has changed (but who still has the same ID number, and still has either the same last name or the same badge number), either:

Manually click on Reports, "View or Print Update modify/remove employees using remote data base" report

Automatically – Enter the Update function in the AutoGenerate email task scheduler. This should be done after running a GetNames to combine all the names from other test stations, and before a SendNames to send the combined names.txt data file back down to all the test stations. Since this might take a while, it should probably be done during a period when other reports are not needed to be run.

Note that the Scrubbing will be aborted if more than 50% of the names in the ESDTest data base are not found in the remote data base, as a safety measure to prevent too many names from being scrubbed in case of a remote data base error.

However, WHEN USING THE UPDATE/SCRUB FEATURE, KEEP GOOD BACKUPS OF THE NAMES.TXT DATA BASE

just in case. You can use the BackupNames function in AutoGenerate email, or click on Tools Backup names. Scrubbing will not add employees from the remote data base to the ESDTest, it will only modify (update if already there), or delete. This prevents the entire corporate employee listing from being added – employees will only be added as they test.

Method 2 Operation (remote data base only)

Click the 2nd radio button in the Setup Remote Data Base window. All employee editing features and most reports are disabled.

Method 3 Operation (remote data base if available)

Click the 3rd radio button in the Setup Remote Data Base window. If the employee information editor is used, it will only modify the Names.txt file, so the Names.txt file will need to be exported to the remote data base (see Tools menu)

Method 4 Operation (never use the remote data base)

Click the 4th radio button in the Setup Remote Data Base window

An example Access 2000 data base (ESDTest.mdb) is included in the ESDTest directory. The best way to get familiarized with this feature is to use this example. You can open it with MS Access or other data base editing program to see what the table looks like, then close it. Set up our Remote Data Base configuration window to use this data base (ESDTest.mdb) as instructed above. Copy and paste the configuration parameters from this file into the set up window. Setup the Employee Selection configuration window to use Keyboard and Identify employee by scanning name or badge#. When the "Please type your badge#" window appears, type 12321. This badge number is not currently in our example names.txt data base, so the remote data base feature will look for it in the ESDTest.mdb data base and add it to the Names.txt data base.

Remote Data Base Setup for storing resistance test data

Description

This feature allows the storing of resistance test data in a remote database such as Oracle, SQL2000, or Access 2000 (even though the data is already available in the ESDTest log Log.txt). For example, after James Bond presses the test button, the following information can be stored in the remote results database:

Date and time of test	- 08/14/2005 01:02:03 PM
ID#	- 007
Last name	- Bond
First name	- James
Workgroup designator:	- HMSS
Wrist status	- Pass
Left foot status	- High
Right foot status	- Low
Wrist resistance	- 12.34
Left foot resistance	- 100.0
Right foot resistance	- 0.03
Station ID	- A01
GMT Time difference	- -5

Remote Data Base creation

Create a database with a name something like ESDTest, or use the remote names database. If using the remote names database, it must have writing privileges.

Create a table with a name like ESD_RESULTS in the results database with the following fields:

DATE_TIME	(create as date/time field)
EMPID	(create as text or char field)
LAST_NAME	(create as text or char field) optional
FIRST_NAME	(create as text or char field) optional
DEPT	(create as text or char field) optional
WRIST_STATUS	(create as text or char field) optional
LF00T_STATUS	(create as text or char field) optional*
RF00T_STATUS	(create as text or char field) optional*

WRIST_RESISTANCE (create as text or char field) optional*
 LFOOT_RESISTANCE (create as text or char field) optional*
 RFOOT_RESISTANCE (create as text or char field) optional*
 STATION (create as text or char field) optional*
 GMT_DIFF (create as text or char field) optional*

optional* - Their should either be a STATUS or a RESISTANCE (or both) fields

For Oracle create an ODBC driver instance and a DSN name such as ESD.

EsdTest Remote Test Results Data Base setup parameters

Click Setup, Remote results database to open the setup window and enter the following items:

Connect String: Enter the data base connection string which for Oracle might look something like:

Server=WPRPROD;DSN=ESD;UID=user1;PWD=pword1

And for SQL2000 might look something like:

UID=;PWD=;Database=ESD_EMP_BADGE;Server=MYSERVER;Driver={SQL Server};

DSN=; And for Access .mdb might look something like:

Driver={Microsoft Access Driver (*.mdb)};Dbq=c:\EsdTest\EsdTest.mdb;Uid=Admin;Pwd=

SQL prefix: To insert the data into a table named ESD_RESULTS, the SQL prefix string would look like:

INSERT INTO ESD_RESULTS (if using an Access table)

If using the "Import measurements from the remote data base" feature to overwrite the log.txt file with the data from the remote data base, then add the following read prefix strings

SQL read prefix: Select the fields from the view by entering something like:

SELECT * TRANSFER.FROMESD_RESULTS (if using Oracle)

Or SELECT * FROMESD_RESULTS (if using SQL2000)

Or SELECT * ESD_RESULTS (if using an Access table)

To disable the storing of data into the remote results database, just leave the connect string or SQL string blank.

If need to delete all the data in the remote log data base (by pressing the Delete all data button) then

SQL delete prefix: Delete all data by entering something like:

DELETE FROMESD_RESULTS_VW (if using Oracle)

Or DELETE FROMESD_RESULTS_VW (if using SQL2000)

Or DELETE FROMESD_RESULTS (if using an Access table)

An example Access 2000 database (EsdTest.mdb) is included in the EsdTest directory. The best way to get familiarized with this feature is to use this example. You can open it with MS Access or other database editing program to see what the ESD_RESULTS table looks like, then close it. Set up our Remote Data Base configuration window to use this database (EsdTest.mdb) as instructed above. After an employee presses the test button on the test meter, the data will be entered into the database.

Usage:

There are four usage methods, each have their own radio button in the Setup, Test Results data base configuration window:

1. "Add test data to log.txt file and the remote data base". This adds data to both the data bases.
2. "Add test data to remote data base only" This only utilizes the customer's remote data base. Data will not be stored in the EsdTest log.txt file, and no EsdTest test reports can be generated. If the remote data base or network is not available then the test results will be lost.
3. "Add test data to remote data base only, but use Log.txt as a buffer if the remote data base is not available". This is similar to the above method, but will continue to operate during network failures by buffering (temporarily storing) the test data in the Log.txt file. When the network becomes available, the next person to test will cause the test records in the log.txt file to be transferred to the remote data base, and those test records that were transferred will be flushed (removed) from the log.txt file. Since data will not be stored long term in the EsdTest log.txt file, no EsdTest test reports can be generated.
4. "Add test data to log.txt file only". The remote data base will not be used.

Language Display

The "Scan Badge" window and the "Test results" window can be displayed in different languages. The correct language should be displayed according to the Windows Regional language settings (Start, Settings, Control Panel, Regional and Language Options, Regional Options Tab), if the language mode is set to "Auto". This can be over ridden in the Settings, General Configuration, Language list box. Click the up or down arrow to select one of the following settings:

- Auto
- English

Language Display

The "Scan Badge" window and the "Test results" window can be displayed in different languages. The correct language should be displayed according to the Windows Regional language settings (Start, Settings, Control Panel, Regional and Language Options, Regional Options Tab), if the language mode is set to "Auto". This can be over ridden in the Settings, General Configuration, Language list box. Click the up or down arrow to select one of the following settings:

Auto

English

Spanish

Portuguese

Italian

Chinese

Polish

Hungarian

Be sure to also click on the language shown in the box, so that it is displayed in blue, to select it.

Then click OK.

Email Parameters Window

If using the Automatic emailed reports feature, the email parameters may be modified in this window.

The screenshot shows the 'Setup Email Window' dialog box. It has a title bar with a close button. On the right side, there are three buttons: 'OK', 'Exit', and 'Show SmtplLog'. The main area contains several options and input fields. At the top, there is a checkbox 'Allow startup in minimized window'. Below it are two radio buttons: 'MAPI (Send email via Outlook Express or other MAPI compliant program)' and 'SMTP (Send email via an SMTP email server)'. The 'SMTP' option is selected. Under the 'SMTP options' section, there is a dropdown menu for 'Protocol' set to 'SMTP Protocol - Recommended'. Below that are text boxes for 'SMTP Server' (smtp.microsoft.com), 'Sender Name' (xxxxx@xxxxx.com), and 'Sender Email' (xxxxx@xxxxx.com). There is a 'Port: (0=default)' field with '587' entered, and a note '(usually 587, 465, or 25)'. Below these are two rows of checkboxes: 'Requires authentication' (checked) with a 'Username' field (xxxxx@xxxxx.com) and a 'Password' field (masked with asterisks); 'Requires SSL/TLS' (checked); 'Request return receipt' (unchecked); 'High priority' (unchecked); and 'Msg body as HTML' (unchecked). On the right side of the SMTP options section, there are two buttons: 'Test sending' and 'Stop test'. At the bottom, there is a 'To Email for test' field (xxxxx@xxxxx.com) and a 'Status of test' field (Status of test).

This window configures the Autogenerate report feature to email reports in either MAPI mode or SMTP mode. To send reports via your Outlook or Outlook Express or Windows Live Mail "Out" box, then use the MAPI mode. If you have an SMTP server you can use the SMTP mode. If starting the EsdTest program as a service, use the SMTP mode.

Allow startup in minimized window – check this box if the EsdTest program is going to be started as a service with AlwaysUp (<http://www.coretechnologies.com/products/AlwaysUp>) and also click the SMTP mode.

MAPI – click this radio button to send reports via your Outlook, Outlook Express, or Windows Live Mail "Out" box

SMTP – click this radio button to email reports via an SMTP email server. This button must be clicked to fill in the remainder of the parameters

SMTP Server – Enter the name of your mail host (i.e., the remote machine which processes the sent e-mail). Can be in "dotted quad" (e.g., 192.168.1.124) or domain name (e.g., mymailhost.com) format. Leaving the SMTPHost Property blank will invoke the search when the Send Method is called. If a suitable host is found, the SMTPHost property will be loaded with the host name. If the SMTPHost property is blank and a host is not found the Send Method will fail.

POP3 Server – (Must have the "Pop Login" box checked) Optional, only required by servers configured for 'POP First' operation. The POP3 mail host (i.e., the remote machine which processes e-mail). Can be in "dotted quad" (e.g., 211.23.141.7) or domain name (e.g., mymailhost.com) format. The POP3Host is used for authentication purposes only, as required by some 'POP first' servers like Yahoo (smtp.mail.yahoo.com & pop.mail.yahoo.com). Both the SMTPHost and the POP3Host must be specified. They may be, but are not required to be, the same. You must have a valid e-mail account on the server and some servers require you to use the account's 'From' address (e.g., yahoo).

Sender Name - The sender's display name; usually set to the sender's first and/or last name. In most e-mail programs, this value is displayed as the "From" field.

Sender Email – The sender's email address.

Requires SSL/TLS – enables sending with SSL or TLS encoding.

Priority selection - Sets the priority of the email messages to: Low, Normal, or High.

Port – Set this to the Smtplib port number. Set to 0 to use the current default port.

Html check box – This box is normally unchecked. Check this box if your message is formatted as HTML text and you want the receiving email client to interpret the email as HTML instead of plain text. You must also make sure the message text includes valid HTML tags. For example, setting this property to true and setting the Message Property to "Hello There" will be interpreted as plain text. To send your message as HTML you must set this property to true and set the message property to valid HTML, something like: <HTML><BODY>Hello There</BODY></HTML>

You can embed images, etc. by using the AsHTML Property and the Attachment Property together. When AsHTML is True the Attachment Property is used to embed files called out in the HTML code. The message text is scanned for file names that match the file names set via the Attachment Property.

Receipt check box – Normally unchecked. This Sets / clears the return receipt request flag. If set, outgoing mail will include a request that a 'return receipt' be sent back to you once the email has been read. Not all email clients support this feature.

Requires authentication check box – Check this box if your SMTP server requires a user and password.

User – The User ID for your mail server (if required).

Password – the password for your server (if required)

Protocol – Use the dropdown window to select SMTP, Microsoft Exchange Web Service, or Microsoft Web Dev.

Setup Email Window

☐ Allow startup in minimized window

☐ MAPI (Send email via Outlook Express or other MAPI compliant program)

☒ SMTP (Send email via an SMTP email server)

SMTP options

Protocol: SMTP Protocol - Recommended

SMTP Server: MAPI - not Recommended, SMTP Protocol - Recommended

Sender Name: Exchange Web Service - 2007-2019/Office365, Exchange Web Dav - 2000/2003

Sender Email: xxxxx@xxxxx.com

Port: (0=default) 0 (usually 587, 465, or 25)

Requires authentication ☒ Username: xxxxx@xxxxx.com Password: xxxxxxxxxxxxxx

Requires SSL/TLS ☐ High priority ☐

Request return receipt ☐ Msg body as HTML ☐

To Email for test: xxxxx@xxxxx.com

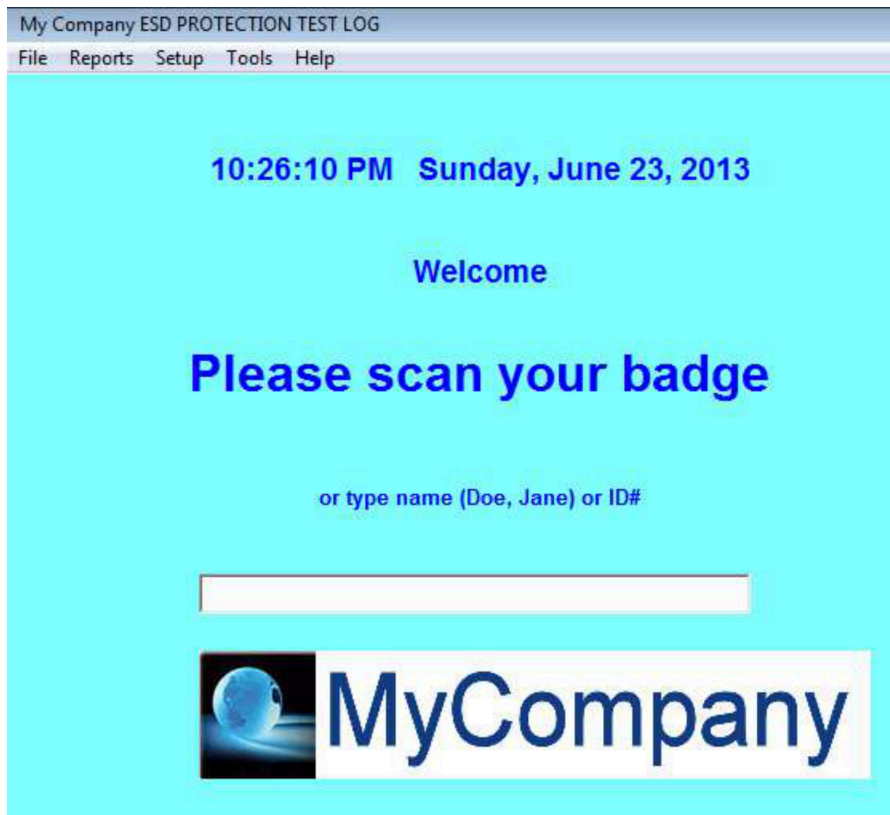
Status of test: Status of test

OK, Exit, Show SmtplibLog, Test sending, Stop test

Show SmtplibLog – Shows a connection log if the "Requires SSL/TLS" box is checked.

Adding a customer logo image to the "Scan your badge" nameform window.

A customer logo image may be displayed on the "Scan your badge" Nameform. The image may be any size 8 bit 256 color RGB bmp file named "CustomerLogo.bmp" that is placed in the boot (C:\EsdTest) directory. For a demonstration, rename the CustomerLogoExample.bmp file to CustomerLogo.bmp. Shown below is the 420 pixel wide by 80 pixel high "MyCompany" image:



OPERATION

OPERATOR TESTING INSTRUCTIONS WHEN NOT USING THE COMPUTER

If using a computer for logging the test readings, proceed to the next section.

Wrist Straps

1. If NOT using the software and computer, position the switch located on the front of the meter to the wrist strap position. If using the software, the computer will recognize what you are testing without using the switch. If not using the computer the internal adjusted DIP switch setting will determine the pass/fail resistances.
2. Attach the wrist strap to the ground cord attached. Be sure the strap is in snug contact with the wrist. Dry skin, hair or foreign contaminants may cause failures for in-specification, well functioning wrist straps. ESD hand lotions will improve skin contact with wrist straps.
3. Insert the end of the ground cord into the appropriate banana jack located on the front of the Combo-Tester meter. The US female jack is on the left side and the constant monitoring 3.5 mm stereo plug is on the right side. Depress and hold the metal test plate until an LED illuminates. Software users should ignore the combo tester LED's and watch the computer monitor. The software will test both the wrist straps and foot grounders simultaneously and display the results of both the resistances and pass/fail in one step.
4. If the green "OK" LED illuminates, the wrist strap is functioning within the resistance specification range and therefore may be used to handle static sensitive devices. If the monitor screen turns green, the test was also a "pass." Make sure the toggle switch is in the correct testing position.
5. If either the red "Too High" or red "Too Low" LED illuminates and the buzzer activates or the computer screen turns red, the worker must adjust and re-test the wrist strap cord immediately. To test a faulty cord, leave the cord plugged into the meter and detach the wrist cord from the strap. Press the wrist strap metal snap-end of the cord against the stainless steel test plate avoiding skin contact. If the cord tests "FAIL" replace the cord.
6. For non-USB testers, replace a low battery immediately in order to assure accurate readings. When using the power cord do not use a nickel cadmium or alkaline battery. It is suggested to not use a battery or use either rechargeable battery which is charged via the RS-232 cable,
Do not install an alkaline battery if power supply is used. It may damage the tester and negate the warranty

Footwear

Testing shoes or heel/toe grounders require the unique dual stainless steel footplate.

1. Make sure the footplate lead is plugged all the way into the combo tester socket "Heel Plate." Low results will appear if plug not fully inserted.
2. Position the switch in the front of the meter to the dual heel footplate position (only required if not using the software.)
3. Stand on the footplate making sure that each foot is aligned in the left and right stainless steel pad and not touching both foot plates.
4. Depress and hold the metal test plate switch or button until an LED light illuminates or monitor screen displays readings.
5. If the green "OK" LED lights or the monitor displays green, then the foot grounders are functioning within the specifications.
6. If either of the "FAIL LOW" or "FAIL HIGH" red LED's illuminate along with the activation of the buzzer for either foot, or the display turns red, the user should check their shoe or heel/toe grounders and re-test. If both feet fail only one foot will display "FAIL" on the combo tester. When that foot is corrected the other foot will display "fail" until it is corrected.
7. If the buzzer emits a sound and there is not an LED display the card or person is not identified by the computer. Check the computer setting and or USB cord.

The ESD foot-grounding device may be out of specification for the following reasons: poor skin-tab contact, dirt contamination, broken internal resistor, broken leads, etc.

OPERATOR TESTING INSTRUCTIONS WHEN USING THE COMPUTER

1. If you have a barcode/magnetic stripe scanner or a HID/CASI-RUSCO™ proximity reader, simply swipe the card. Otherwise click a name in the main selection window to begin a test. If no mouse is installed, press the arrow keys to move the cursor and press Enter. The operator's information window should appear and the 'Press Button' window should also pop up.
2. Insert the wrist strap banana plug into the reader. Be sure the strap is in snug contact with the wrist. Dry skin, hair or foreign contaminants may cause failures for in-specification, well functioning wrist straps. ESD hand lotions will improve skin contact with wrist straps. Stand on the footplate making sure that each foot is aligned in the left and right stainless steel pad and not touching both foot plates. Press and hold the combo tester button until the PRESS BUTTON window disappears and the test measurements are displayed on the main window. All the results and any error messages should be displayed (if software is enabled all readings will instantaneously be recorded in the database).
3. Click the 'Cancel button' (or press Enter key) to return to the 'Name Selection' menu. This will be automatic (adjustable 10 second delay) when using cards and by checking off the 'USE ID' and 'DON'T SHOW NAMES' under 'General Configuration'.

The ESD foot-grounding device may be out of specification for the following reasons: poor skin-tab contact, dirt contamination, broken internal resistor, broken leads, etc.

Troubleshooting high wrist readings:

1. Make sure the ground cord is attached to the wrist strap.
2. Make sure the end of the ground cord is plugged into the appropriate banana jack located on the front of the Combo-Tester meter. The US female jack is on the left side and the constant monitoring 3.5 mm stereo plug is on the right side.
3. Be sure the strap is in snug contact with the wrist. Dry skin, hair or foreign contaminants may cause failures for in-specification, well functioning wrist straps. ESD hand lotions will improve skin contact with wrist straps.
4. Be sure the wrist strap is not dirty
5. Make sure the metal test plate button is fully depressed until an LED illuminates
6. For non-USB testers, if not using an external power supply or the RS232 battery charging option, then check for a low battery condition and replace if needed. Do not insert a battery if using an external power supply.

Troubleshooting low wrist readings:

Replace wrist strap or check the wrist strap internal resistor reading

Troubleshooting high foot readings:

1. Make sure each foot is firmly touching its own foot plate
2. Make sure foot straps are not over insulative polyester socks or stockings
3. Make sure the footplate lead is plugged all the way into the combo tester socket "Heel Plate."

Troubleshooting low foot readings:

1. Make sure each foot is only touching its own foot plate
2. Make sure shoes are not wet.
3. Replace foot strap or check the foot strap internal resistor reading
4. Make sure the footplate lead is plugged all the way into the combo tester socket "Heel Plate."

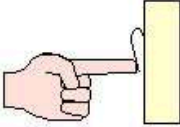
Example of program waiting for the test button to be pressed:

My Company ESD PROTECTION TEST LOG

Press Button

Please plug in wrist strap
Step on foot plate

Press and hold the button



My Company ESD Protection Test Results

Operator Information

Operator's Name: Connery, Sean

Date: 08-06-2003 Time: 22:33:13

Wrist Strap: Required Foot Strap: not used

Wrist Low Setting: DipSw Foot low Setting: DipSw

Wrist high setting: DipSw Foot high Setting: DipSw

Action:

Please plug in wrist strap. Press and hold the button.

Received:

Results

Wrist: Left foot: Right foot:

Cancel

Example of a good reading:

My Company ESD PROTECTION TEST LOG

File Reports Setup Help

1. AAAnyone, Else
2. Doe, Jane
3. Doe, John
4. Connery, Sean
5. Clinton, Hillary
6. Use, Switch
7. Use, Wrist
8. Use, Foot
9. Wrench, Monkey

My Company ESD Protection Test Results

Operator Information

Operator's Name: Connery, Sean

Date: 08-06-2003 Time: 22:45:58

Wrist Strap: Required Foot Strap: not used

Wrist Low Setting: .75 Meg Foot low Setting: .75 Meg

Wrist high setting: 10 Meg Foot high Setting: 100 Meg

Action:

OK

Readings OK thank you. Please press the Enter key or click on Cancel.

Received: W=01.38M=OK, L=99.99M=--, R=99.99M=--, 00.75M<W<10.00M, 00.75M<F<99.98M

Results

Wrist: OK = 1.38 Meg

Left foot: not used > 100 Meg Right foot: not used > 100 Meg

Cancel


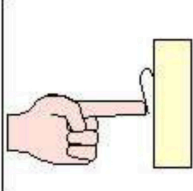
Example of a low wrist reading:

My Company ESD PROTECTION TEST LOG

Press Button

Please plug in wrist strap
Step on foot plate

Press and hold the button



My Company ESD Protection Test Results

Operator Information

Operator's Name: Connery, Sean

Date: 08-06-2003 Time: 22:47:52

Wrist Strap: Required Foot Strap: not used

Wrist Low Setting: .75 Meg Foot low Setting: .75 Meg

Wrist high setting: 10 Meg Foot high Setting: 100 Meg

Action:

Wrist Low

Wrist strap is low. Check and try again.

Received: W=00.00M=LO, L=99.99M=--, R=99.99M=--, 00.75M<W<10.00M, 00.75M<F<99.98M

Results

Wrist: **LOW** = 0 Meg

Left foot: not used > 100 Meg Right foot: not used > 100 Meg

Cancel


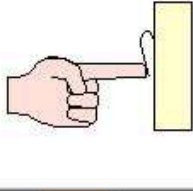
Example of a high wrist reading:

My Company ESD PROTECTION TEST LOG

Press Button

Please plug in wrist strap
Step on foot plate

Press and hold the button



My Company ESD Protection Test Results

Operator Information

Operator's Name: Connery, Sean

Date: 08-06-2003 Time: 22:47:09

Wrist Strap: Required Foot Strap: not used

Wrist Low Setting: .75 Meg Foot low Setting: .75 Meg

Wrist high setting: 10 Meg Foot high Setting: 100 Meg

Action:

Wrist high

Wrist strap is high. Make sure it is connected and try again.

Received: W=99.99M=HL, L=99.99M=--, R=99.99M=--, 00.75M<W<10.00M, 00.75M<F<99.98M

Results

Wrist: **HIGH** > 100 Meg

Left foot: not used > 100 Meg Right foot: not used > 100 Meg

Cancel


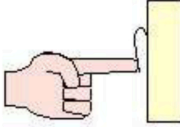
Example of a multiple high readings:

My Company ESD PROTECTION TEST LOG

Press Button

Please plug in wrist strap
Step on foot plate

Press and hold the button



My Company ESD Protection Test Results

Operator Information

Operator's Name: Connery, Sean

Date: 08-06-2003 Time: 22:49:49

Wrist Strap: Required Foot Strap: Required

Wrist Low Setting: .75 Meg Foot low Setting: .75 Meg

Wrist high setting: 10 Meg Foot high Setting: 100 Meg

Action:

Multiple problems

Wrist is high. Left foot is high. Right foot is high

Received: W=99.99M=HL, L=99.99M=--, R=99.99M=--, 00.75M<W<10.00M, 00.75M<F<99.98M

Results

Wrist: **HIGH** > 100 Meg

Left foot: **HIGH** > 100 Meg Right foot: **HIGH** > 100 Meg

Cancel

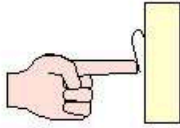
Example of a miscommunication reading caused by releasing the test button prematurely:

My Company ESD PROTECTION TEST LOG

Press Button

Please plug in wrist strap
Step on foot plate

Press and hold the button



My Company ESD Protection Test Results

Operator Information

Operator's Name: Connery, Sean

Date: 08-06-2003 Time: 22:48:43

Wrist Strap: Required Foot Strap: not used

Wrist Low Setting: DipSw Foot low Setting: DipSw

Wrist high setting: DipSw Foot high Setting: DipSw

Action:

Communications failure

Communications failure. Try pressing the switch longer.

Received: W=00.00M=LO, L=99.99M=--

Results

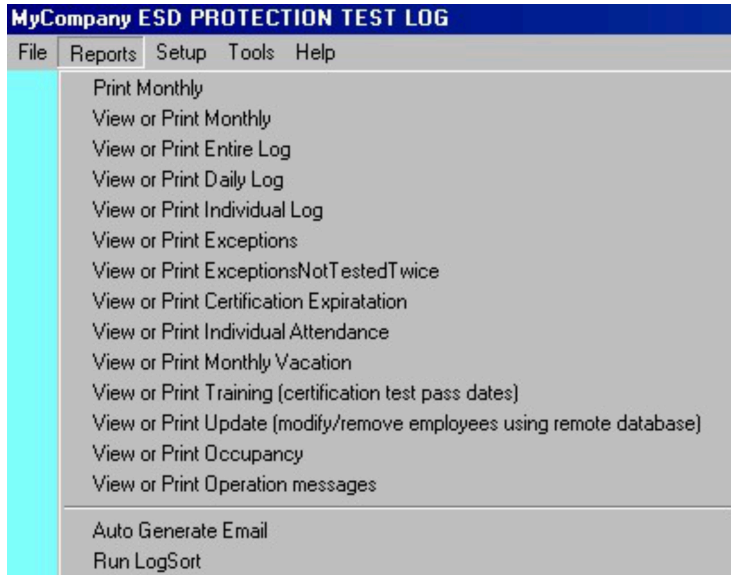
Wrist: -

Left foot: - Right foot: -

Cancel

REPORT GENERATION:

There are eleven types of employee reports that can be generated from the MTR-8900-USB and ACL-750-USB software: DAILY, MONTHLY, ENTIRE LOG, INDIVIDUAL LOG, INDIVIDUAL ATTENDANCE, EXCEPTIONS, TWICE TESTED EXCEPTIONS, MONTHLY VACATION, CERTIFICATION EXPIRATION, TRAINING, UPDATE (updates or removes employees who are no longer in the remote corporate data base), and AUTOGENERATE EMAIL

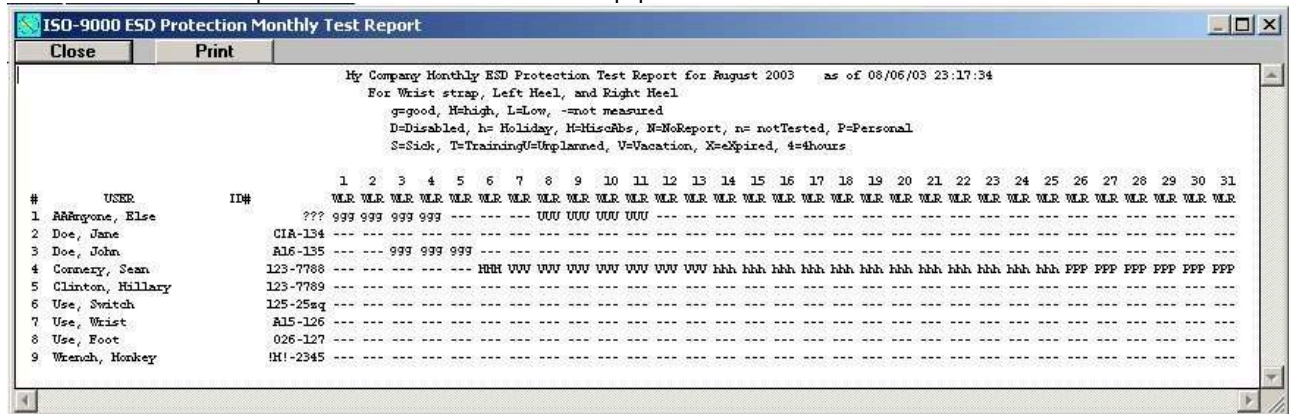


Each of these reports will interpret information collected from employee testing.
PRINTER DRIVER SOFTWARE MUST BE INSTALLED TO PRINT REPORTS.

Monthly report

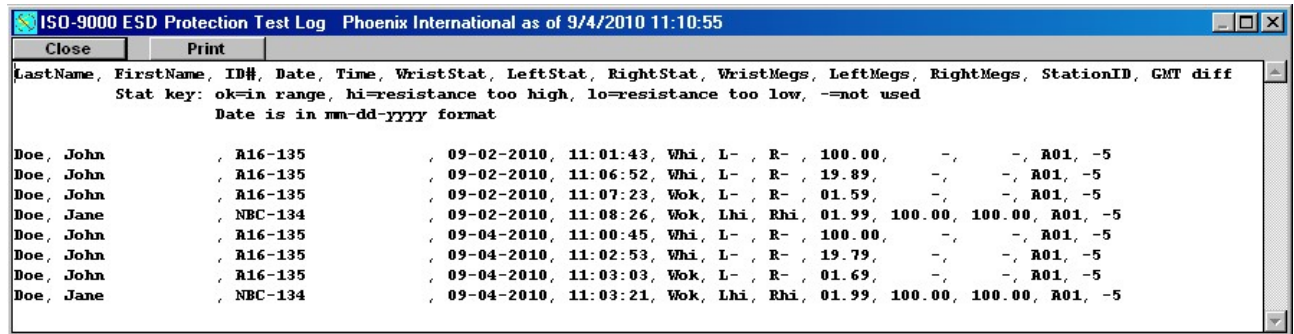
Below is an example of the Monthly report. A monthly report can be generated, displayed, or printed at any time by pulling down the

Reports menu and selecting "Monthly". The information presented includes. Person, ID number, department number, date, time, value in ohms of the test. The file REPORT.TXT may be imported into other applications (see below). A FONT size of 7.5 was recommended in order to print a full month on a standard size of paper.



Entire Log report

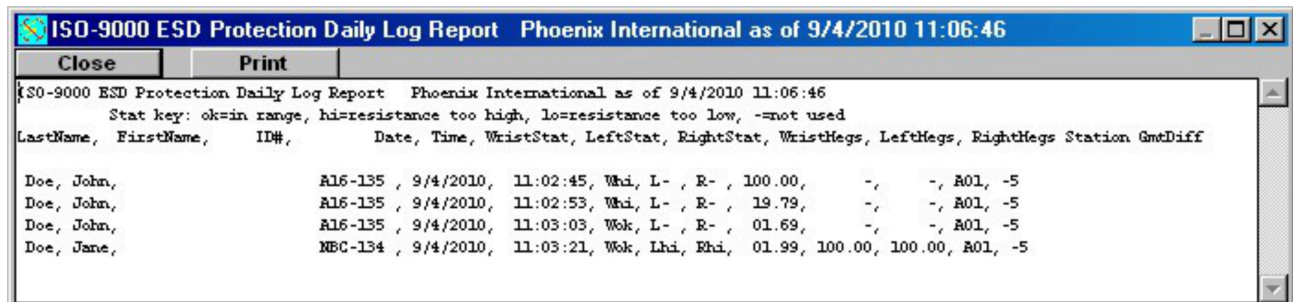
Below is an example of the Test Log Report. The log file LOG.TXT may be viewed by selecting the 'View Log' item in the 'Report Menu'. This file is a comma separated value (CSV) text file and may be imported directly into any spreadsheet or data base program. To print only part of it, select the desired part to print with the mouse, and click the print button.



Close	Print	
ISO-9000 ESD Protection Test Log Phoenix International as of 9/4/2010 11:10:55		
Stat key: ok=in range, hi=resistance too high, lo=resistance too low, -=not used		
Date is in mm-dd-yyyy format		
LastName, FirstName, ID#,	Date, Time, WristStat, LeftStat, RightStat, WristMegs, LeftMegs, RightMegs, StationID, GMT diff	
Doe, John, A16-135	09-02-2010, 11:01:43, Whi, L-, R-, 100.00, -, -, A01, -5	
Doe, John, A16-135	09-02-2010, 11:06:52, Whi, L-, R-, 19.89, -, -, A01, -5	
Doe, John, A16-135	09-02-2010, 11:07:23, Wok, L-, R-, 01.59, -, -, A01, -5	
Doe, Jane, NBC-134	09-02-2010, 11:08:26, Wok, Lhi, Rhi, 01.99, 100.00, 100.00, A01, -5	
Doe, John, A16-135	09-04-2010, 11:00:45, Whi, L-, R-, 100.00, -, -, A01, -5	
Doe, John, A16-135	09-04-2010, 11:02:53, Whi, L-, R-, 19.79, -, -, A01, -5	
Doe, John, A16-135	09-04-2010, 11:03:03, Wok, L-, R-, 01.69, -, -, A01, -5	
Doe, Jane, NBC-134	09-04-2010, 11:03:21, Wok, Lhi, Rhi, 01.99, 100.00, 100.00, A01, -5	

Daily report

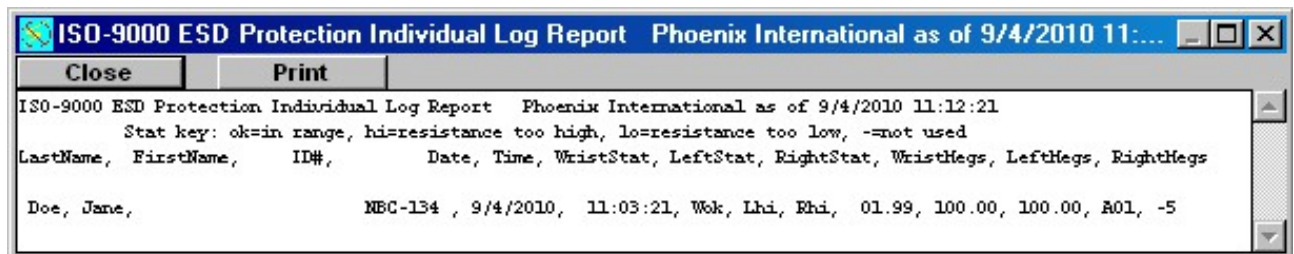
Below is an example of the daily report, which can show the daily test result for all employees, or a particular workgroup of employees.



Close	Print	
ISO-9000 ESD Protection Daily Log Report Phoenix International as of 9/4/2010 11:06:46		
Stat key: ok=in range, hi=resistance too high, lo=resistance too low, -=not used		
ISO-9000 ESD Protection Daily Log Report Phoenix International as of 9/4/2010 11:06:46		
LastName, FirstName, ID#,	Date, Time, WristStat, LeftStat, RightStat, WristMegs, LeftMegs, RightMegs, Station GmtDiff	
Doe, John, A16-135	9/4/2010, 11:02:45, Whi, L-, R-, 100.00, -, -, A01, -5	
Doe, John, A16-135	9/4/2010, 11:02:53, Whi, L-, R-, 19.79, -, -, A01, -5	
Doe, John, A16-135	9/4/2010, 11:03:03, Wok, L-, R-, 01.69, -, -, A01, -5	
Doe, Jane, NBC-134	9/4/2010, 11:03:21, Wok, Lhi, Rhi, 01.99, 100.00, 100.00, A01, -5	

Individual test log report

Below is an example of the individual log, which can show the test results for any or all employees for any day or group of days.



Close	Print	
ISO-9000 ESD Protection Individual Log Report Phoenix International as of 9/4/2010 11:12:21		
Stat key: ok=in range, hi=resistance too high, lo=resistance too low, -=not used		
ISO-9000 ESD Protection Individual Log Report Phoenix International as of 9/4/2010 11:12:21		
LastName, FirstName, ID#,	Date, Time, WristStat, LeftStat, RightStat, WristMegs, LeftMegs, RightMegs	
Doe, Jane, NBC-134	9/4/2010, 11:03:21, Wok, Lhi, Rhi, 01.99, 100.00, 100.00, A01, -5	

Exceptions report

Below is an example of the exceptions report. A daily failure exception report may be generated and displayed or printed at any time

by pulling down the Reports menu and selecting "Exception". The file EXCEPT.TXT may be imported into other applications (see below). The password and workgroup designator features (see Report Generation Paragraph 1 above) apply. Note that the last reading of the day is the one that is reported for the day. An SSS will be shown for sick leave, a VVV will be shown for vacation leave, and a TTT will be shown for training leave. Other codes include Other buttons include: HHH for Holiday, 444 for 4hours, DDD

for Disabled, MMM for MiscAbs, NNN for NoReport, and UUU for Unplanned. An x will be shown for a failure, and a - will be shown for a possible failure if the wrist or foot mode has not been selected. The start and stopping time are selectable, and may overlap days. The input boxes will ask for the times and will automatically set the default start time to 12 hours before the stop time. A

The image shows three overlapping dialog boxes. The first, titled 'Date', asks for the stopping date and time. The second, also titled 'Date', asks for the starting date and time. The third, titled 'Work group designator', asks for the work group designator of the employees to include in the report. All three boxes have 'OK' and 'Cancel' buttons. The 'Date' boxes have a text input field showing '9/12/2007 20:50:18'.

The image shows a window titled 'ISO-9000 ESD Protection Exceptions Test Report'. It has 'Close' and 'Print' buttons. The text inside reads: 'My Company ESD Protection Test Exception Report for Wednesday, August 06, 2003 as of 08/06/03 23:06:39 For Wrist strap, Left Heel, and Right Heel'. Below this is a legend: 'g=good, H=high, L=Low, x=not measured today, -=not assigned, S=Sick, T=Training, V=Vacation, D=Disabled, h= Holiday, H=MiscAbs, N=NoReport, n= notTested, P=Personal, U=Unplanned, X=Expired, 4=4hours'. A table follows with columns: #, USER, ID#, and VLR. The table contains 8 rows of data.

#	USER	ID#	VLR
1	AAAnyone, Else	???	xxx
2	Doe, Jane	CIA-134	xxx
3	Doe, John	A16-135	xxx
4	Connery, Sean	123-7788	HHH
5	Clinton, Hillary	123-7789	x--
6	Use, Switch	125-25sq	x--
7	Use, Wrist	A15-126	x--
8	Use, Foot	026-127	x--

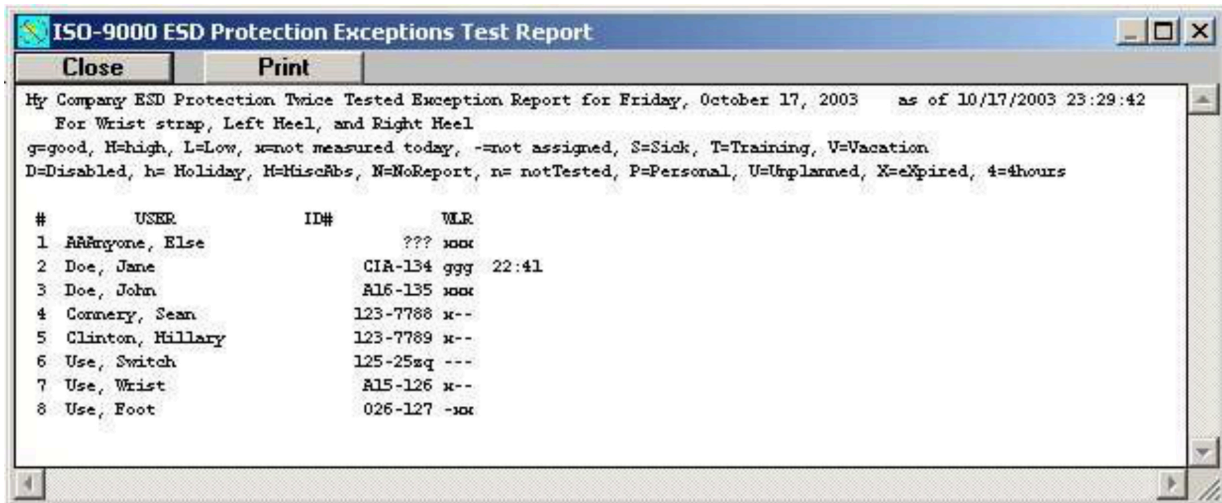
The report can be formatted by double clicking on the Except.csv report file and then double clicking on the Exceptions.xls formatting

	A	B	C	D	E	F	G	H
1		EsdTest® Report	MyCompany	Employee Exception report				
2			as of 1/15/2007 22:59:36					
3								
4	#	Name	Work	ID	wrist	left foot	right foot	
5		Last	First	Group	#	status	status	status
6								
7	1	Smith	Will	FBI	654	Vacation	Vacation	Vacation
8	2	Loe	Jane	CIA	134	FAILED HIGH***	FAILED HIGH***	FAILED HIGH***
9	3	Doe	John	A16	135	NOT TESTED***	NOT TESTED***	NOT TESTED***
10	4	Connery	Sean	HSS	1007	NOT TESTED***		

Twice Tested Exceptions report

Below is an example of the twice tested exceptions report. Since ISO-9000 requires testing before and after meal breaks, this report

will list employees who have not tested twice with 12 hours of generating this report. The employees must have tested twice with a three hour or more interval between tests to pass. The start and stopping time are selectable, and may overlap days. The input boxes will ask for the times and will automatically set the default start time to 12 hours before the stop time. A Workgroup input box allows selecting employees by workgroup.



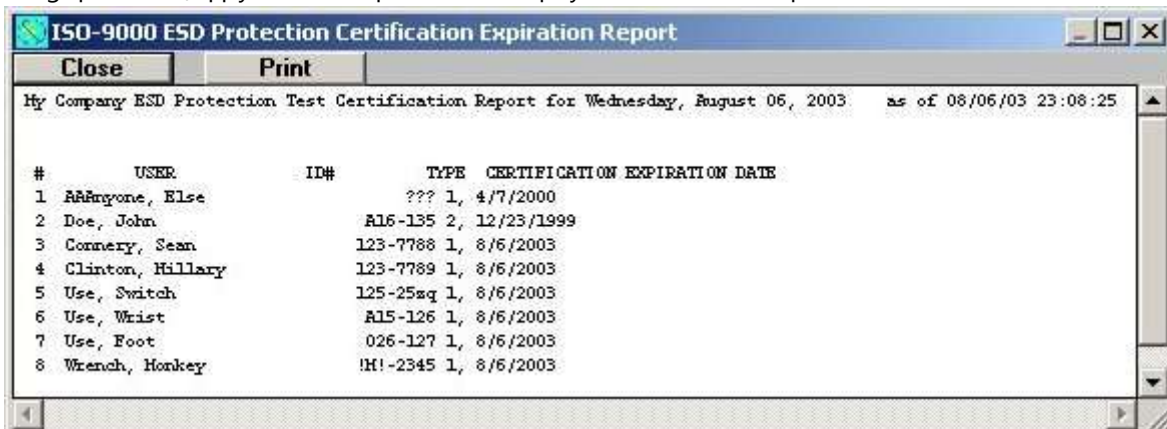
The screenshot shows a window titled "ISO-9000 ESD Protection Exceptions Test Report". It has "Close" and "Print" buttons. The text inside reads: "My Company ESD Protection Twice Tested Exception Report for Friday, October 17, 2003 as of 10/17/2003 23:29:42 For Wrist strap, Left Heel, and Right Heel". Below this is a legend: "g=good, H=high, L=Low, x=not measured today, -=not assigned, S=Sick, T=Training, V=Vacation, D=Disabled, h= Holiday, H=HiscAbs, N=NoReport, n= notTested, P=Personal, U=Unplanned, X=Expired, 4=4hours". A table follows with columns: #, USER, ID#, and VLR.

#	USER	ID#	VLR
1	AAAnyone, Else	???	xxx
2	Doe, Jane	CIA-134	ggg 22:41
3	Doe, John	A16-135	xxx
4	Connery, Sean	123-7788	x--
5	Clinton, Hillary	123-7789	x--
6	Use, Switch	125-25sq	---
7	Use, Wrist	A15-126	x--
8	Use, Foot	026-127	-xxx

Certification Expiration report

Below is an example of the certification expiration report. A certification expiration report may be generated and displayed or printed

at any time by pulling down the Reports menu and selecting "Certification Expiration". The file CERTIF.TXT may be imported into other applications (see below). The password, workgroup designator, and individual selection features (see Report Generation Paragraph 1 above) apply. To see a report of which employee's certification will expire at the end of the month, enter the date for the



The screenshot shows a window titled "ISO-9000 ESD Protection Certification Expiration Report". It has "Close" and "Print" buttons. The text inside reads: "My Company ESD Protection Test Certification Report for Wednesday, August 06, 2003 as of 08/06/03 23:08:25". A table follows with columns: #, USER, ID#, TYPE, and CERTIFICATION EXPIRATION DATE.

#	USER	ID#	TYPE	CERTIFICATION EXPIRATION DATE
1	AAAnyone, Else	???	1,	4/7/2000
2	Doe, John	A16-135	2,	12/23/1999
3	Connery, Sean	123-7788	1,	8/6/2003
4	Clinton, Hillary	123-7789	1,	8/6/2003
5	Use, Switch	125-25sq	1,	8/6/2003
6	Use, Wrist	A15-126	1,	8/6/2003
7	Use, Foot	026-127	1,	8/6/2003
8	Wrench, Monkey	!H!-2345	1,	8/6/2003

Individual Attendance report

Below is an example of the individual attendance report, which will display the yearly attendance record for any individual.

ISO-9000 ESD Attendance Report My Company as of 08/06/03 23:18:42

ClosePrint

Leave Status in 2003 for Sean Connery ID# 123-7788

* = Tested, A = Available, S = Sick, P = Personal Day, T = Training, X = Terminated

Day of Month

Mo	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
01	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
02	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
03	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
04	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
05	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
06	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
07	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
08	A	A	A	A	A	*	U	U	U	U	U	U	U	h	h	h	h	h	h	h	h	h	h	h	h	P	P	P	P	P	P
09	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
10	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
11	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
12	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

Monthly Vac ation (Attendanc e) report

Below is an example of the monthly vacation report, which will generate an attendance report for all employees, a work group of employees, or an individual employee.

ISO-9000 ESD Protection Monthly Vacation

Close

Print

My Company Monthly Vacation Report for August 2003 as of 08/06/03 23:19:20

#	USER	ID#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	AAAnyone, Else	???	-	-	-	-	-	-	-	U	U	U	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Doe, Jane	CIA-134	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Doe, John	A16-135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Connery, Sean	123-7788	-	-	-	-	-	-	-	V	V	V	V	V	V	h	h	h	h	h	h	h	h	h	h	h	h	h	P	P	P	P	P
5	Clinton, Hillary	123-7789	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Use, Switch	125-25wq	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Use, Wrist	A15-126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Use, Foot	026-127	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Wrench, Monkey	IM1-2345	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

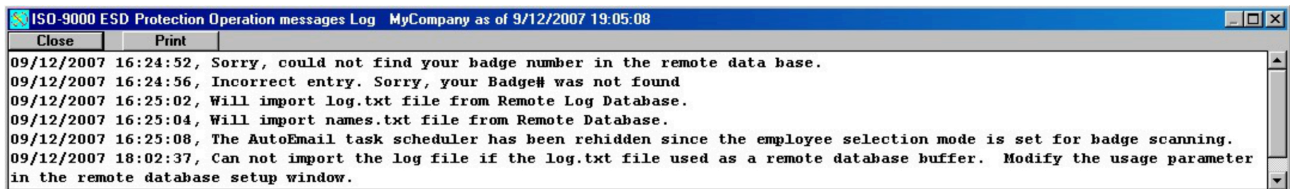
Occ upanc y Report

The "Occupancy" report lists the employees who remain (have not logged out) in an area. This requires setting the "Exit" parameter in the Setup General Configuration window. Employees must scan their badge and press the test button when they enter and area, and scan their badge but not press the test button when they leave the area.

MyCompany Occupancy Report (lists employees still in the area)								
Close		Print						
MyCompany Occupancy report - (lists who is still in the area) from 8/29/2007 07:02 to 8/30/2007 19:02 as of 9/12/2007 19:03								
USER	ID#	DATE	TIME	STATION	Gmtdiff			
McCain, John,	CBS-A123458,	8/30/2007,	19:14:57,	201,	-5			
Edison, Thomas,	ABC-A123459,	8/30/2007,	21:41:10,	201,	-5			
Clinton, Hillary,	NBC-A123457,	8/31/2007,	17:50:02,	A01,	-5			
Connery, Sean,	ABC-A123456,	8/31/2007,	18:12:38,	A01,	-5			

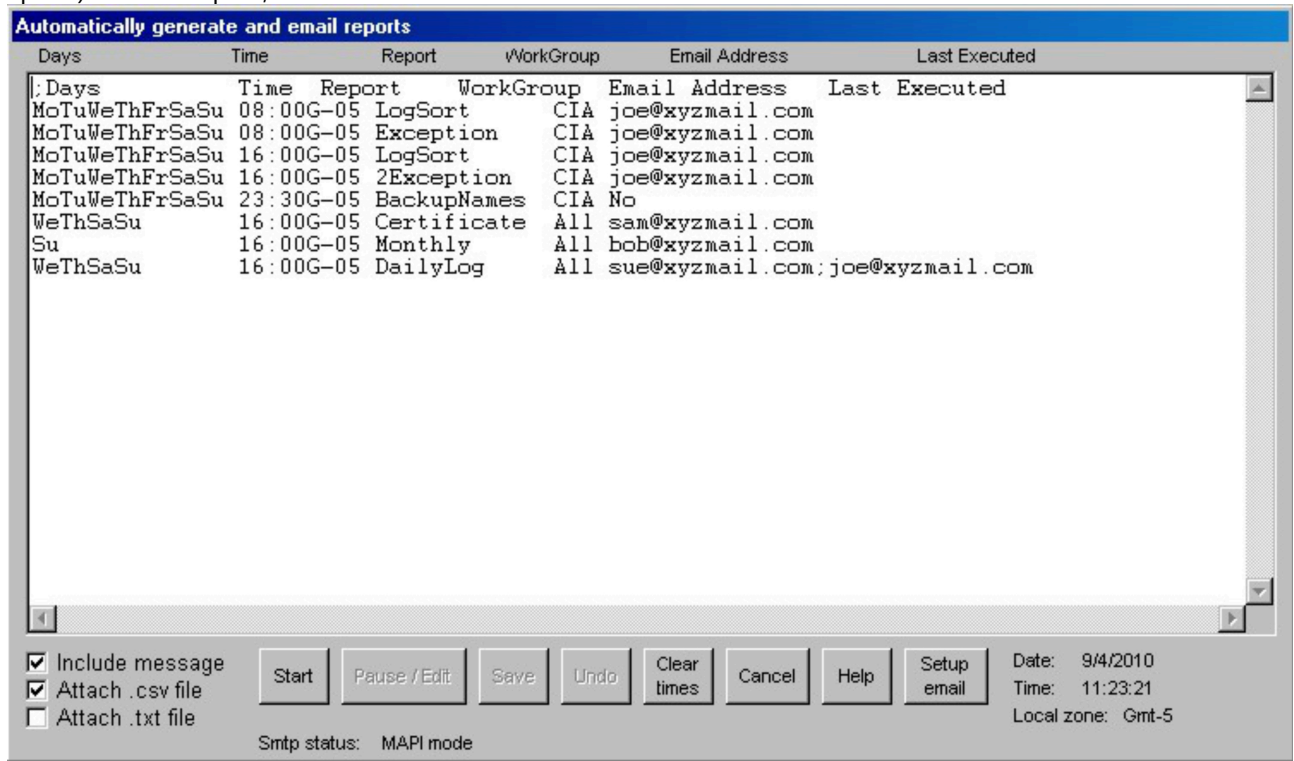
Operational messages Report

The "Operational messages" report displays a log of the pop up warning messages.



Automatic Emailed Reports

A unique feature of the ACL-750 meter allows users to enable the automatic generation of a report to be sent directly to a supervisor. This requires a MAPI compliant email program such as Microsoft Outlook Express or Microsoft Outlook (without the email security update). Click On Reports, Auto Generate Email



Automatic report generation help (This is also displayed when clicking on the help button)

Fill out the main text window with the times, reports, workgroups, and email addresses to be sent. The standard copy (Ctrl I n s e r t) and paste (Shift Insert) shortcuts can be used to fill out the text window. Separate the fields with spaces, not tabs.

An example of filling out the main text box is shown below:

Days	Time	Report	WorkGroup	Email Address	Last Executed
;Days		Time	Report	WorkGroup	Email Address
E x e c u t e d					
MoTuWeThFrSaSu	00:00	LogSort	CIA	joe@xyzmail.com	
MoTuWeThFrSaSu	00:00G+01	Exception	CIA;CIB	moe@xyzmail.com;tim@xyzmail.com	
WeThSaSu	15:05	Certificate	All	sam@xyzmail.com	
Su	15:06	Monthly	All	bob@xyzmail.com	
WeThSaSu	15:07	DailyLog	All	sue@xyzmail.com	
WeThSaSu	15:10	GetNames	All	NO	
WeThSaSu	15:10	SendNames	All	NO	

Any line beginning with a semicolon will be ignored as a comment

Possible entries for Days:

MoTuWeThFrSaSu (one or more of)

La (Last day of month) Fi (First day of month)

Possible entries for Time:

01:23 (hour in 24 hr format : minute). If the data in the log.txt file was generated in a different time zone (such as GMT-1), then add

a "G+01" suffix to the report time. This will change the time that the report was generated, but not change the time search parameters in a report. For example, to run an exception report for workgroup IAA in Ireland at 4AM GMT, on a server located in New York (11PM EDT), the line in the GenReport.txt task scheduler script might look like: "MoTuWeThFrSaSu 04:00G-0 Exception IAA joe@xyz.com", which would run an exception report at 23:00 EDT (i.e. 04:00GMT) of all employees in the IAA group who had not tested as of 04:00 (AM) the next day, and email the report to joe@xyz.com.

Possible entries for report:

LogSort (Lo)	Combines the log.txt files from the test stations and sorts them
Exception (Ex)	Report of employees who have not passed the test
2Exception (2E)	Report of employees who have not tested before and after a break
Certification (Ce)	Report of the status of the employee training certifications
Daily (Da)	Report of the daily test log
Monthly (Mo)	Report of tests summarized by month
GetNames (Ge)	Combines the name.txt files from the test stations
SendNames (Se)	Sends the server names.txt file to the test stations
BackupNames (Ba)	Backs up the names.txt file through 7 rotations
M1Task (M1)	Executes a custom batch program named M1.bat
M2Task (M2)	Executes a custom batch program named M2.bat
M3Task (M3)	Executes a custom batch program named M3.bat
M4Task (M4)	Executes a custom batch program named M4.bat
M5Task (M5)	Executes a custom batch program named M5.bat
Training (Tr)	Imports the training course status to the names.txt file
Update (Up)	Updates and deletes employee info from the names.txt file
Vacation (Va)	Report of employees sick and vacation schedules
DownloadLog (Do)	Imports the remote data base measurements to the log.txt file
NdownloadNames (Nd)	Imports the remote data base names info to the names.txt file
Occupancy (Oc)	Report of the employees who have not signed out
OperationMsgs (Op)	Sends the Operations.txt operation messages file

LogSort will read all the test stations (that are listed in the netlist.txt file) log.txt files and combine and sort them into one log.txt file on the server.

Exception will generate an exception report of workers who failed the test or did not test. The exception report will list employees that have not yet within the last 12 hours that the report was run. To prevent second shift employees (who test at 4PM) from showing up on the 7AM exception report, assign them different workgroups (like SH1 and SH2) and run the 7AM exception report for the SH1 workgroup only, and run the 4PM exception report for the SH2 workgroup only. To generate a report for interval other than 12 hours, append the number of hours to "Exception" (or Ex). For example, to generate an exception report for an interval of 23.5 hours, enter Exception23.5 (or Exception-23.5 or Ex23.5 or Ex-23.5).

2Exception will generate an exception report of workers who did not test twice within the last 12 hours. Tests must be separated by 3 hours or more. To generate a report for interval other than 12 hours, append the number of hours to "2Exception" (or 2E). For example, to generate an exception report for an interval of 23.5 hours, enter 2Exception23.5 (or 2Exception-23.5 or 2E23.5 or 2E-23.5).

Certification will generate a report of workers whose certification period has expired.

Daily will generate a report of test values for the day. If the "exit" feature is used, this will list both the test time and the exit time on the same line.

Monthly will generate the monthly summary report.

GetNames will read all the test stations' names.txt files and combine any newly added names into the server's names.txt file, and call BackupNames.

SendNames will send the names.txt file to the test stations listed in the netlist.txt file.

M1Task will launch (and execute what ever is in) your custom M1Task.bat file (such as copying report files from one computer to another), but will not wait for M1Task.bat to finish.

M2Task – M5Task will likewise execute M2Task.bat – M5Task.bat.

BackupNames will backup the names.txt data file through seven rotations, so call this once per day for a complete weekly backup.

It'll backup the names data file names.txt. It should be called once each day. It will: delete NamesBakRot7.txt, rename NamesBakRot6.txt to NamesBakRot7.txt, rename NamesBakRot5.txt to NamesBakRot6.txt, rename NamesBakRot1.txt to NamesBakRot2.txt, and copy Names.txt to NamesBakRot1.txt. Thus you will have seven days to recover a names.txt file before it gets deleted. This function can be automatically called from the Autogenerate email task scheduler.

Training will read the optional Certification training course data files to see which employees have passed the retraining exam, and generate a report. Refer to the Help.txt file Installation step 30 on how to Setup Certification Configuration.

Update will update employees that are in the names.txt data base with the latest info in the remote data base, and remove employees that are not in a remote data base from the names.txt file, and email a report showing the names that were removed. The remote data base settings are in the Setup Remote data base window.

DownloadLog will import the remote data base measurements to the log.txt file. WARNING – all previous data in the log.txt file will be overwritten. This function can not be called from a test station that is configured to send buffered measurement data to the remote data base, because all the data would then be sent back again to the data base the next time a measurement was made, since the buffering is done in the log.txt file.

NdownloadNames imports the remote data base names info to the names.txt file. WARNING – all previous data in the names.txt file will be overwritten

Occupancy will generate a report of the employees who have conducted a test, but not signed out (i.e. not scanned their badge on the way out without pressing the test button).

OperationsMsgs will send the operation message log.

Possible entries for Workgroup:

any legitimate predefined workgroup designator

any concatenation of the other predefined workgroup designators with semicolons but no spaces e.g. CIA;CIB;CIC

the word ALL - will use all workgroups

Possible entries for Email addresses:

any legitimate email address e.g. joe@xyzmail.com

any concatenation of email addresses using a semicolon but no spaces

e.g. joe@xyzmail.com;moe@xyzmail.com

the word NO (or any word less than 4 letters) to generate a report but not email it

Possible entries for Last Executed:

the program will fill this in when the report is run Delete the entry or leave it blank to run the report today,

or press the Clear Time button to clear all the Last Executed times.

Control buttons:

Start will begin executing the tasks. The window must stay open and "started" to continue running the tasks.

Pause/Edit will stop executing the tasks and allow editing.

Save will save the edited task schedule to the GenReports.txt file.

Undo will undo editing since the last save.

Clear Times will clear the last executed times to rerun all today's previous tasks for testing.

Cancel will stop the program and close the window.

to continue executing tasks but hide the window, just click on the window behind it.

Other Notes:

There are three check boxes at the bottom of the window:

Check the one labeled "Include Message" to include the report in the email message body
Check the one labeled "Attach .txt file to attach the report as a .txt file
Check the one labeled "Attach .csv file to attach the report as a .csv file
Note that at least one of these must be checked or the default will be the message body with the .csv file attached.

the email security update). Outlook 2002 requires administrator security overrides. The email messages will be placed in the Outlook Express outbox. Set up Outlook Express to automatically send the email outbox every 10 minutes or so.

If while generating reports to email, Outlook Express 6 generates a warning message saying "An application is attempting to send email in your name", then disable the messages by opening Outlook Express, clicking Tools, Options, Security, Virus Protection, and uncheck the box that says "Warn me if other applications try to send mail as me."

Microsoft recently added major security updates to Outlook 2002 which prevents other programs (such as ESDTest) from using it to send MAPI email messages without popping up a warning message "A program is automatically trying to send email on your behalf." Thus if your company is using Microsoft Outlook 2002 with Microsoft the Exchange Server, then only the administrator is able to set up a public Outlook security folder to disable the warnings (see the Microsoft Knowledge Base Article # 263297 on the www.microsoft.com website). The alternative is to switch to either Outlook Express (which is not fully compliant with Microsoft Exchange) or Outlook 2000 without the email security update. Or switch to the SMTP mode of sending email which will bypass MAPI.

Troubleshooting:

If you do not receive a report please:

1. Check in the server Outlook Express Outbox Sent box and see if got sent. If it did get sent, then the problem may be in your spam filter or your company's email server.
2. If it is not in the Sent box, see if it is in the Out box, in which case your company's SMTP server had a problem sending it.
3. If it is not in the Out box then make sure the Autogenerate window is still open and that the Start button is grayed out - meaning that the report program is still running, and no one accidentally shut it off. Accidental shutoff can be prevented in program versions 6.72 and later by activating the ESDTest administrator password.
4. If no one shut the program off, then check the Last Executed column in the Autogenerate window and see when the last report was sent. If the last report was sent at the scheduled time, then there is a problem with your MAPI mail programs on your server - try rebooting.
5. If the last report executed did not execute at the scheduled time, check the server's computer clock and date setting. Move the mouse to the lower right of the screen and right click on the time, and then choose Adjust Time/Date to see the date.
6. If the date is correct, then click the Pause/Edit button in the Autogenerate window, and then click the Start button again. Make sure that the scheduled report information looks OK, especially the top line, and that the file has not been corrupted, and that the format looks the same as the examples above. Also check the Last Executed column to make sure no dates in the future have been inserted.
7. Make sure your "default email program" is set to the desired MAPI compliant email program. In Windows 7, this is found in the Start, Default Programs window. In XP it is part of the Microsoft Internet Explorer option properties.

File backups:

GetNames (but not SendNames) will automatically backup the new combined names.txt file whenever it is run, on a 2 run rotation. It will backup Namesbak1.txt to Namesbak2.txt then backup Names.txt to Namesbak1.txt, so you will need to catch it within 2 executions before the backups are totally overwritten.

If you want a longer rotation, our AutoGen Report scheduler has the capability of running your own custom .bat files, so you can run any rotation schedule or to any computer you desire.

For example, to backup the names.txt file once per day on a 7 day rotation you could write a file named M1Task.bat as follows

```
xcopy namesB6.txt namesB7.txt /Y /C
xcopy namesB5.txt namesB6.txt /Y /C
xcopy namesB4.txt namesB5.txt /Y /C
xcopy namesB3.txt namesB4.txt /Y /C
xcopy namesB2.txt namesB3.txt /Y /C
xcopy namesB1.txt namesB2.txt /Y /C
xcopy names.txt namesB1.txt /Y /C
```

(might have to specify path if default path is different, i.e.)
xcopy c:\EsdTest\names.txt c:\EsdTest\namesB1.txt /Y /C

The /Y and /C prevent the xcopy command from stopping on errors. Place the M1Task.bat file in the same directory as the EsdTest.exe file, which is usually the c:\EsdTest directory.

and insert the following line into the AutoGenerate Task scheduler:

```
MoTuWeThFrSaSu 06:00 M1Task all no
```

In addition, you could even do a 4 week rotation by the following lines to a file named M2Task.bat

```
xcopy namesW3.txt namesW4.txt /Y /C
xcopy namesW2.txt namesW3.txt /Y /C
xcopy namesW1.txt namesW2.txt /Y /C
xcopy names.txt namesW1.txt /Y /C
```

and insert the following line into the AutoGenerate Task scheduler:

```
Fr 06:05 M2Task all no
```

LogSort Notes

LogSort is only needed if the test stations are using their local log.txt data bases to store their data. LogSort should not be run if the test stations are directly storing their data on the server log.txt file. If LogSort is run, it should be from the server computer.

Selecting LogSort as a report will backup and combine the test station log.txt files. It will:

- Rotate the backup logbak1.txt file to logbak2.txt.
 - Rotate the log.txt file to logbak1.txt.
 - Append (and sort if needed) the test station Log.txt files to the server Log.txt file.
- ffffffffffffffff. Append each users Log.txt file to its own LogHist.txt file.
- gggggggggggggggggggggg. Delete each users Log.txt file.

Errors will be ignored. To see errors, run the Logsort.exe program directly from Explorer.

The LogSort.exe program will combine the data from four workstations I; J; K; and L. For other drives or network computers, place the complete file path on a line in the NetList.txt file.

Thus the Netlist.txt file will look something like:

```
\\teststation1\EsdTest \\teststation2\EsdTest \\teststation3\EsdTest \\teststation4\EsdTest
```

or for some operating setups may look like:

```
\\teststation1\c:\EsdTest \\teststation2\c:\EsdTest \\teststation3\c:\EsdTest \\teststation4\c:\EsdTest
```

If the Log.txt, LogBak1.txt, and LogBak2.txt files grow too large, then

- delete the Logbak1.txt file
- delete the LogBak2.txt file
- backup the Log.txt file to an external disk or tape drive if desired
- either delete the Log.txt file, or use a text editor to remove the old unwanted data.

The Log.txt file should be reset periodically to prevent it from growing so huge that it slows down report processing. Click on "setup" and then select the "Reset Log File" item. It will ask for a backup file name.

For very large companies, it may be desirable to backup the log.txt file to a monthly backup file (for example Log0699.txt for June 1999). For small companies, this should be done at least once per year on January 1st.

Every January 1st, the LogHist.txt on the test station computers should also be deleted.

If while generating reports to email, Outlook Express 6 generates a warning message saying "An application is attempting to send email in your name", then disable the messages by opening Outlook Express, clicking Tools, Options, Security, Virus Protection, and uncheck the box that says "Warn me if other applications try to send mail as me."

There are three check boxes at the bottom of the window:

- Check the one labeled "Include Message" to include the report in the email message body

- Check the one labeled "Attach .txt file to attach the report as a .txt file

- Check the one labeled "Attach .csv file to attach the report as a .csv file

Note that at least one of these must be checked or the default will be the message body with the .csv file attached.

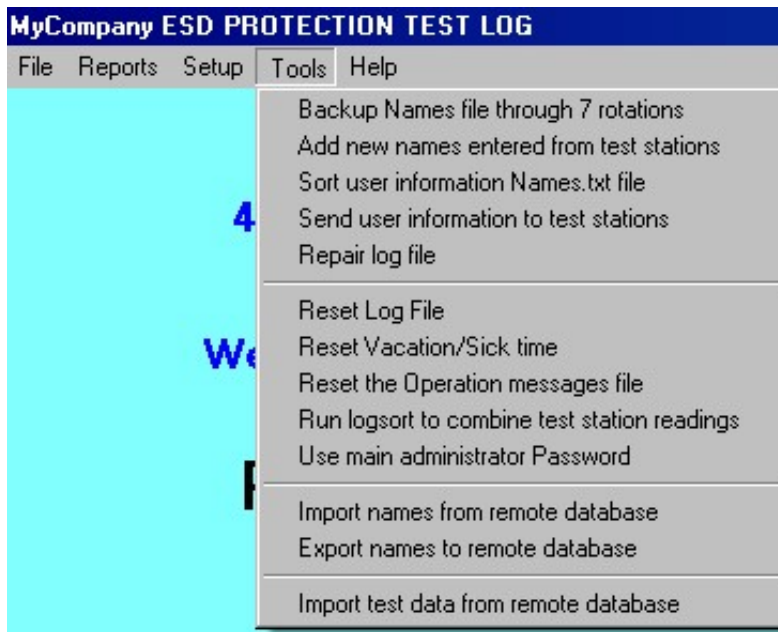
"A program is automatically trying to send email on your behalf."

For Microsoft Outlook Email security issues see Microsoft Knowledge Base Article - 263297

<http://support.microsoft.com/kb/263297#PF>

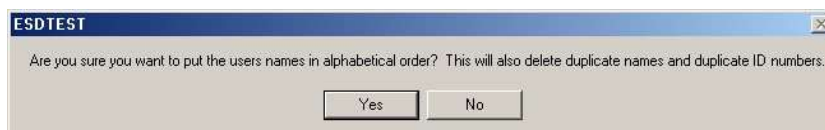
TOOLS

From the main window select tools



Tools menu

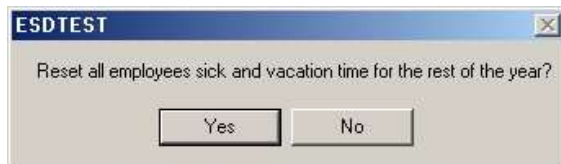
1. Backup Names file through seven rotations will backup the names data file names.txt. It should be called once each day, or set up to automatically called from the Autogenerate email task scheduler. It will: delete NamesBakRot7.txt, rename NamesBakRot6.txt to NamesBakRot7.txt, rename NamesBakRot5.txt to NamesBakRot6.txt, rename NamesBakRot1.txt to NamesBakRot2.txt, and copy Names.txt to NamesBakRot1.txt. Thus you will have seven days to recover a names.txt file before it gets deleted. Add new names entered from test stations will read the netlist.txt file to find the test station paths, and read the test station names.txt file and add those names to the server names.txt file (can only be called from the server).
2. "Add new names entered from test stations" will poll the test stations that are listed in the NetList.txt file, and merge their Names.txt file into the server names.txt file.
3. Sort user information will sort the employee names in the names.txt file, and check for duplicates.



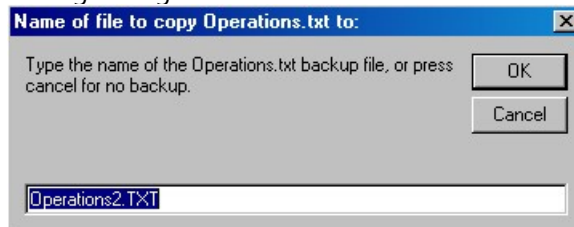
4. Send user information to test stations will copy the names.txt file back out to the test stations listed in the netlist.txt file
5. "Repair log file" will reformat, chronologically sort, and remove duplicate entries from the log file in case there are any improper entries.
6. To reset the main log file (log.txt), or copy it to a backup file, select the Reset Log File item in the Tools menu. This will prompt for a backup file name to copy the file to before it resets (deletes) the log file. The log.txt file must be reset annually every January 1st, otherwise the report generation will use the previous years data stored in the file.



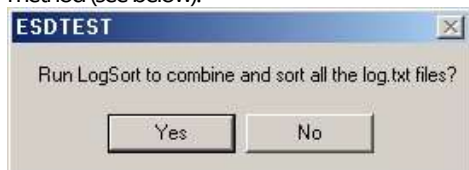
7. To reset the sick/vacation attendance data, select the Reset vacation/sick time menu item in the tools menu. The attendance data must be reset annually every January 1st, otherwise the report generation will use the previous years data stored in the names.txt file.



8. "Reset the Operation messages file" will reset the Operations.txt file which contains a log of all the pop up warning messages.



9. "Run log sort to combine test station readings" will combine the test station reading data if using the local data file method (see below).



This function can also be accessed from the Reports menu, or run automatically from the AutoGenerate email task scheduler.



10. "Use main administrator password" will force the administrator password (if one exists) to be used. This is always required to be used to access any setup information after booting up, but is not required once the administrator has entered the password, unless the password expiration time (set in the General configuration window) has been set and exceeded.

11. "Import names from remote data base" will replace the names in the names.txt file with those from the remote names data base.
12. "Export names to the remote data base" will replace the names in the remote names data base from the names.txt file
13. "Import test data from remote database will delete all the present measurements stored in the log.txt file and replace them with the measurements that were stored in the remote data base.

ADVANCE D FEATURE SETUP

NETWORKING THE MTR-8900-USB and ACL-750-USB SERIES COMBO TESTER

The average network installation will have 1-5 test station computers, and a server. The server may also be used as a test station, but this not recommended in high use applications. There are three methods of networking.

Method 1 (Simple) is to have the test stations all use the common server data base. This method is easy to set up and understand. The disadvantages are:

- the same ones that all common data base applications have – the test stations will not work if the server or network goes down.
- increased network usage since each test must access the data files over the network
- decreased server security since the server directory must grant access and sharing rights to all the test stations

Method 2 (Robust) is to have the test stations all use local data bases (i.e. data files stored on their own computer) so they can run independently of the network. The server then periodically reads and resets the local data base logs using a routine called LogSort.

Method 3 (Customer's data base) is only used if the customer wishes to write his own report and maintenance routines using his existing SQL data base, and not use the EsdTest server functions. See the "Remote data base" section of this manual.

Method 1 (Simple) – using one common data base for all test stations

At each test station, click Setup, Directories, and in the top two lines, enter the file path where the common data base will reside. For example, if the common data base files (log.txt and names.txt) reside on the server computer, and if the server computer is named EsdTestServer, then enter \\EsdTestServer\\c\\EsdTest in the top two lines. To check the path, open Windows Explorer Network Neighborhood and locate the log.txt file on the server. Double click it to open the file with Notepad, which will check that the test station has the proper sharing rights. Close the log.txt file. Be sure to use the exact path name that is displayed in Windows Explorer.

Note - when running the Auto Email reports on the server, ignore all references to LogSort, GetNames, and SendNames since they only pertain to method 2 below.

Method 2 (Robust)– using local data bases at each test station

All execution files (ESDTest.exe) and data files (Log.txt, Names.txt, ESDTest.ini) are stored locally on the test station computer so that a network or server failure will not affect the test station operation. Each workstation can operate independently of the server. The server can be set up to be totally secure with no access or sharing required on it's drives, which ensures that employees can not tamper or corrupt the master data files. Setup the server to read the local test station log.txt files in the following manner:

Setup

A.) At the server, edit the Netlist.txt file (in the server EsdTest directory) using Notepad to point to the EsdTest directory of each test station:

\\teststation1\\c\\EsdTest

\\teststation2\\c\\EsdTest

\\teststation3\\c\\EsdTest

If your computer network does not allow accessing other computers this way, then but does allow drive remapping, then delete the NetList.txt file, and map drives I-L to the test station EsdTest directories.

B.) If desired, the remote test stations can automatically update their time clocks from the server by executing the Synch.bat file whenever a test is conducted. To do this, see the section below titled "Synchronizing Test Station System Time", which explains how to put the server name into the one line file. An easy way to edit Synch.bat is to locate the file in Windows Explorer (My Computer), right click on it, and select edit, which should open it with Notepad.

If a test station computer is out of time synchronization with another computer, the following can happen. Suppose Joe Employee fails a test at Station A, and then passes a test at Station B five minutes later. If Station B's time is six minutes slower than Station A, it will appear that Joe first passed the test and then failed the test, so he will show up on all the reports as failing.

C.) At each test station, click Setup, Directories, and make sure all the entry boxes are blank. This will ensure that the test station uses local data files.

Operation

Each test station contains a local copy of the master names.txt files, so that a user can be tested at any test station. If the user information is changed on the server master copy, all test stations will automatically read the new information whenever the new copy is downloaded into their local directory. To download the names.txt file to the test stations after it is modified on the server (such as when a new user is added), run the SendNames function in the Auto Email report generator on the server to automatically download them, or manually click Tools, "Send user information to test stations".

The test data log file is named Log.txt, which stores one line of data every time a user tests. When it is desired to consolidate the remote test station data (e.g. before running a report), the server runs the LogSort function to read the data from the remote test station log.txt files, append the data to the local remote log history files called 'loghist.txt', resets the local log.txt file, and stores the data in the server log.txt file. The function also sorts all the data in chronological order.

The sequence of the server operation will thus look something like this:

1. Each day, the data from all the test stations should be gathered to produce a combined log.txt data file on the server for report generation. On the server, either manually click on Reports, Run LogSort; or run it automatically from the task scheduler in the AutoGenerate Email feature. The LogSort function will combine the data from the test stations listed in the NetList.txt file. If the NetList.txt file does not exist, the LogSort function will combine the data from the test stations mapped to the four drives I, J, K, and L. The LogSort function will:
 - a. Rotate the backup the server logbak1.txt file to the server logbak2.txt file
 - b. Rotate the server log.txt file to the server logbak1.txt file
 - c. Append (and sort by time if needed) the test station Log.txt files to the server Log.txt file.
 - d. Append each test station's Log.txt file to the test station's LogHist.txt file.
 - e. Delete each test station's Log.txt file (which will be re-created after the next test).
2. The daily exception report can be generated from the from the server computer EsdTest program by clicking Reports, "View or Print Exception Report", (refer to Help.txt) or can be run automatically from the AutoGenerate Email feature.
3. Other reports can be generated such as the monthly report, for ISO9000 documentation
4. The Log.txt file should be resent periodically to prevent it from growing so large that it slows down report processing. Click "Tools" and select "Reset Log File". It will ask for a backup file name. Large companies should back up the log.txt file to a monthly backup file (for example Log0601 for June 2001). For small companies a back up should be done once every year.
5. If employees are permitted to enter their names when a badge is not recognized, then the individual tests station names.txt files may be consolidated into a master name.txt file. Run the GetNames and SendNames function from the server Auto Email window, or manually click the Tools "Add new names entered from Test Stations", "Sort names alphabetically", "Send names to test stations".

Test Station C omputer Setup

1. It is recommended to use any Pentium type PC 166 MHz or greater, although even an old 486DX will work, running Windows 95 or higher (98 /NT / XP), with a 10/100base T RJ-45 type network card, 16MB or higher of ram, 1G disk or greater, and a spare serial port (9 pin preferred).
2. Connect all stations and the server to a central 10/100baseT RJ-45 type Ethernet hub using a star (parallel) arrangement with RJ-45 TPE (twisted pair Ethernet) or category 5 type cables.
3. Name the test stations something like TestStation1 (each station must have a unique name), and do not designate a password.
4. Install the ESDTest Software (see above).
5. If using the Network setup disks generated by the XP server (see Server Setup 1 below), then just run them. Otherwise, right click on the Network Neighborhood icon, select 'Properties', and check that Client for Microsoft Networks, network card driver software is present. On simple Windows 95 networks, also install NetBeui.
6. Click 'File Sharing' (access to all files). Do this ONLY on test stations.
7. In Primary NetWork Logon select 'Client for Microsoft Networks', click the Identification tab.
8. Type a computer name (like TestStation1).
9. Type the workgroup name (like ESDTestGroup). Do not use spaces.
10. Type a description (like ESDTestStation1).
11. Click OK.
12. A message will pop up asking you to reboot the computer. Answer "No". Do not allow the computer to restart.
13. To boot up into the ESDTest program when power is applied to the computer, change the logon password in Setting, Control Panel, Passwords to 'no passwords'. Some operating systems may require using Microsoft "PowerToys" (available on their website) to bypass the Windows logon.
14. Copy the ESDTest shortcut and paste it to the start-up directory, which is named something like: C:\Documents and Settings\All Users\Start Menu\Programs\Startup.
15. Restart the computer.
16. Through Explorer, right click on the 'c:\ESDTest' directory, select 'sharing' and then select 'all files'.
17. Give it a unique name (like ESDTest1).
18. Do not set up a password to the Server station.
19. If using Network Method 1 (see Networking section above), open the ESDTest file, click Settings, Directory, and enter the full path of the server ESDTest directory in the top two lines of the Directories window.

Server C omputer Setup

1. The easiest way to set up a network is the Network Wizard such as the one that comes with Microsoft Windows XP Pro.
2. Give the server name like 'Server1' and a password.
3. Install the ESDTest software (see above).
4. Right click on the Network Neighborhood icon.
5. Select properties, check that Client for Microsoft, network card driver software is present. On simple Windows 95 networks, also select NetBeui.
6. Do not click file sharing unless using the Method 1 networking (see Networking section above).
7. In primary Network Logon select Client for Microsoft Networks and click the Identification tab.
8. Type a unique name (like Server1).
9. Type the workgroup name (like ESDTestGroup)-do NOT use spaces.
10. Type the description Main Sever and click OK.
11. Do not allow the computer to restart.
12. To remove the logon password, go to Setting, Control Panel, User. Some operating systems may require using Microsoft "PowerToys" (available on their website) to bypass the Windows logon.
13. Restart the computer.
14. The 4 test stations should be visible in Windows Explorer NetWork Neighborhood.
15. Edit the NetList.txt file to include all the test stations if using networking Method 2 (see Networking section above).

Sync hronizing Test Station System Time

To maintain the most accurate test results, it is imperative that all networked computer have the same time set.

1. Edit the Synch.bat file in the \ESDTest directory (if the Synch.bat file does not exist, rename the example SynchNet.bat file to Synch.bat).
2. Place the server name in the NET TIME line:
NET TIME \\XYZ /SET /YES *XYZ is the server name
3. Save the file

4. Right click on the Synch.bat file , click Properties, and select Close On Exit.
5. If the SYNCH.BAT file already exists in the directory, but the program leaves a small 'Finished' box on the toolbar when it is called, click the Properties box on the Synch.bat file item in Explorer and click the 'Close on Exit' box.
6. The SYNCH.BAT file is included in the installation disk. If no network is used or the time synchronization is not desired, delete
or rename the SYNCH.BAT file.

EsdTest File Administration

1. Install and configure the computer hardware (see above)
2. Set up the network. Make sure the test stations and their files are visible on Windows Explorer.
3. If polling the station data bases then put the test station computer names into the NetList.txt file. If running from one master data base, then set up the test station "Setup Directories Window" to point to the server data directory.
4. Set up the server AutoGenerate email task scheduler to poll the stations for data and send reports
5. The supervisor checks his emailed exception report to see if any employees have failed or did not test.
6. The supervisor can modify the sick leave/vacation status, generate monthly reports, delete any employees that are no longer working at the firm, and can reset the log.txt file to create a back up.
7. To access the master file from a remote manager's computer, set up the "Setup Directories Window" to point to the server data directory.

INTERFACING WITH OTHER DATA BASES

To be universally compatible with all other databases, spreadsheets, and word processors, the data is stored in a text file named Log.txt. Each record (row) is the results of one test, including the employee's name, ID, test date, test time, test results, and resistance values. Each of these fields is separated by a comma, so the file is actually in .CSV (Comma Separated Value) format. Importing and exporting to common databases is explained below.

The software can directly read the employee names from a company data base – see accessing names from a remote data base in the setup section.

Importing EsdTest data files (ie Log.txt, Names.txt, Report.txt, etc.) to Excel:

To import Log.txt, Names.txt, Report.txt, Exceptions.txt etc. into Excel:

Either just copy or rename the file with a .csv suffix (ie copy LOG.TXT file to LOG.CSV) and open it directly with Excel.

Or open the .txt file using the Excel import wizard:

- Open Excel
- Click Files
- Click Open

xxxxxxxxxxxxxxxx. In the lower right of the file dialog menu select "All File Types".

gggggggggggggggggggggg. Browse to the desired file (eg Log.txt) and click on it and click OK

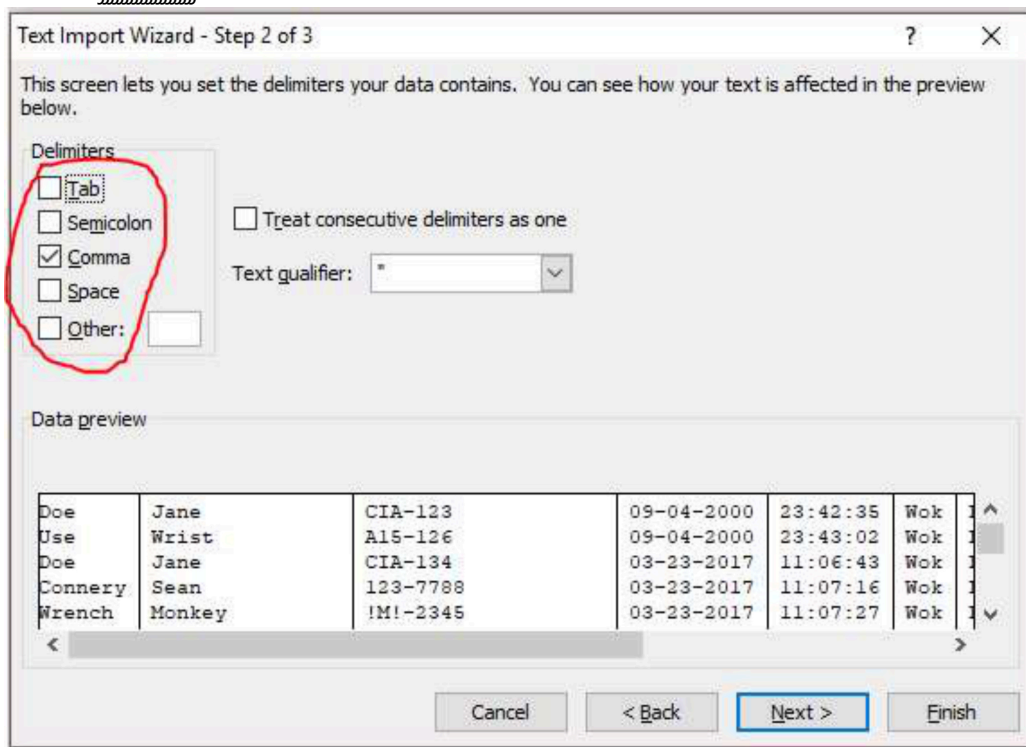
hhhhhhhhhhhhhhhhhhhh. The Excel text Import Wizard should appear.

Choose Delimited.

Click Next (do NOT click Finish).

iiiiiiiiiii. Choose Comma (make sure "tab" and "space" are NOT selected)

jjjjjjjjjj. Click on Finish



Exporting Name.txt file from Excel:

Open a Names.txt file with a word processor just to see what a typical file looks like. It contains name, id, resistance limits, certification expiration dates, and attendance records. However, the only fields required in the Names.txt file are in the first 3 fields- LastName, FirstName, ID. Any missing fields after this will be filled in with default values. The first field (i.e. the first column in Excel) is the Last Name field.

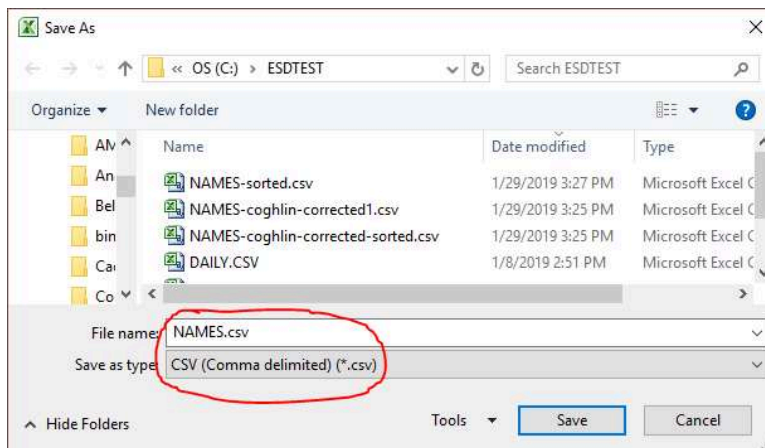
The second field (i.e. the 2nd column in Excel is the First Name field. The combined length of the first and last name field should be less than 17 characters for best report formatting.

The third field (i.e. 3rd column in Excel) should be a combined workgroup-ID: badge number field. It should look like www-iiiiiiii:bbbb where www is the 3 character work group designator, iiiiii is the id code (12 char max), and bbbbbb is the badge code (12 char. Max.) Save the Excel file as a .csv (Comma Separated Values) file.

The other fields do not need to be filled in if the ESDTest default values are acceptable. Otherwise they may be filled in using Excel. The complete list of fields is: Field 1 – Last name, Field 2 – First name, Field 3 – Group-ID:Badge, Field 4 – Wrist min, Field 5 – Wrist max, Field 6 – Foot min, Field 7 – Foot max, Field 8 – Wrist enabled (-1 = yes, 0 no), Field 9 – Foot enabled, Field 10 – Leave status, Field 11 – Start date, Field 12 – Stop date, Field 13 – Certification type, Field 14 – Certification expiration, Field 15 – string of 365 attendance characters.

See the example file - HowToGenerateNamesFile.xls

Export this data as a .csv file and then rename it back to Names.txt.



Importing Files To Microsoft Access:

The Names.txt and Log.txt files are .csv (comma separated values) delimited files. The exception.csv and report.csv are also .csv files. Users can easily import these into Access using the File import method.

To import or link a delimited or fixed-width text file: NOTE: Users can link a table only in a Microsoft Access database, not a Microsoft Access project. IMPORTANT: Before a user import or link data from a delimited text file or fixed-width text file, make sure that the file has the same type of data in each field and the same fields in every row.

Open a database, or switch to the Database window for the open database.

To import data, on the file menu, point to Get External Data, and then click Import. To link data, on the File menu, point to Get External Data, and then click Link Tables. In the Import (or Link) dialog box, in the Files of Type box, select Text Files (*.txt, *.csv, *.tab, *.asc). Click the arrow to the right of the Look In box, select the drive and folder where the file is located, and then double-click

its icon. IMPORTANT: if you link to a file on a local area network, make sure that you use a universal naming convention (UNC) path, instead of relying on the drive letter of a mapped network drive in Windows Explorer. A drive letter can vary on a computer, or it may not always be defined; whereas, a UNC path is a reliable and consistent way for Microsoft Access to locate the data source that contains the linked table.

Follow the directions in the Import Text Wizard dialog boxes. Click Advanced to create or use an import/export specification.

Although you usually create a new table in Microsoft Access for the data, you can append the data to an existing table as long as the first row of your text file contains matching field names. If importing a text file takes an unexpectedly long time, it might be because many errors are occurring. To cancel importing, press CNRL+BREAK. In a fixed-width text file, you can ignore fields at the end of a

record that contain no data. In addition, the last field with data in the record can be less than the maximum width.

Exporting the Names.txt File From Microsoft Access:

In the database window, click the name of the table, query, view or stored procedure you want to export, and then on the File menu, click Export. In the Save As Type box, click Text Files (*.txt, *.csv, *.tab, *.asc). Click the arrow to the right of the Save In box and

select the drive or folder to export to. In the File Name box, enter the file name

(Names.csv), and then click Save All. Microsoft Access starts the Export Text Wizard. Follow the directions in the dialog boxes. Click Advanced to create or use an

Import/export specification. Save this as a .csv file (Comma Separated Values File), use commas to separate the fields. When done, rename the file to Names.txt.

The following are the field names:

Field 1 – Last name, Field 2 – First name, Field 3 – Group-ID:Badge, Field 4 – Wrist min, Field 5 – Wrist max, Field 6 – Foot min, Field 7 – Foot max, Field 8 – Wrist enabled (-1 = yes, 0 no), Field 9 – Foot enabled, Field 10 – Leave status, Field 11 – Start date, Field 12 – Stop date, Field 13 – Certification type, Field 14 – Certification expiration, Field 15 – string of 365 attendance characters.

For additional information see the help files in Microsoft Access.

Reading the Employee Names Directly From the Company Database

See the section above on Remote Database Setup

Appendix A – Operation of non-USB testers

The MTR-8900-USB and ACL-750-USB combo tester has a 6 foot long USB cable emerging from the case. This tester is typically purchased with the combo meter stand and a badge reader. The badge reader typically has a 6 foot long USB cable also. Both these cables are fed down the center tube of the meter stand, and into the USB ports of a notebook, laptop, or desktop computer that runs a Windows 7/8/10 or higher operating system. The USB combo meter and the USB badge reader are self-powered from the USB cable, so do not need secondary power supplies. The combo meter requires a virtual comm port driver, which is typically installed automatically by the windows operating system when the combo tester USB cable is first plugged into the computer. This comm port number must be manually entered into the ESDTest General Configuration window just once when the system is first powered on (see software setup section above).

Note that the MTR-8900-USB and ACL-750-USB combo tester can be operated without a computer by simply plugging its USB cable into a standard USB charge adapter.

MTR-8900-USB and ACL-750-USBR232 meters manufactured after 3/12/2002. This meter has an RS232 DB-9P connector. It may be either be plugged directly into a computer RS232 port via the supplied dual ended DB-9S cable, or plugged into the computer USB port via an RS232/USB converter cable. It requires power from the supplied 12VDC power adapter or a 9VDC alkaline battery.

MTR-8800 and ACL-780 meters can not be used with a computer. They can only be run in a "stand alone" mode using their LEDs for measurement indication. The MTR-8800 and ACL-780 meter requires power from the supplied 12VDC power adapter or a 9VDC alkaline battery.

SPECIFICATIONS:

Testing Range: 10^4 - 10^8 ohms. (10^9 ohms optional and can be specially ordered)

High Range: 2M, 5M, 10M, 25M, 35M, 50M, 75 M, 100M ohms. (1000M can be specially ordered)

Low Range: 500k, 750k ohms.

Display: Red, yellow and green LED buzzer

Accuracy: +/- 10% for the standard 100M meter, and +/- 20% for the 1000M meter

Weight: approx 1.0 lb. (454 grams) Meter alone with battery

Power: is self powered from the 5VDC 100ma USB computer port.
Can run without a computer by plugging into a standard USB charge jack.

CE listed

NIST certificate included

Environment: 32°F to 100°F (0°C to 38°C); 15% to 95% RH.

Optional Stand: Powder coated industrial grade steel. Color: Black

Optional Footplate: heavy-duty board with plastic laminate and two stainless steel plates

MAINTENANCE AND CALIBRATION

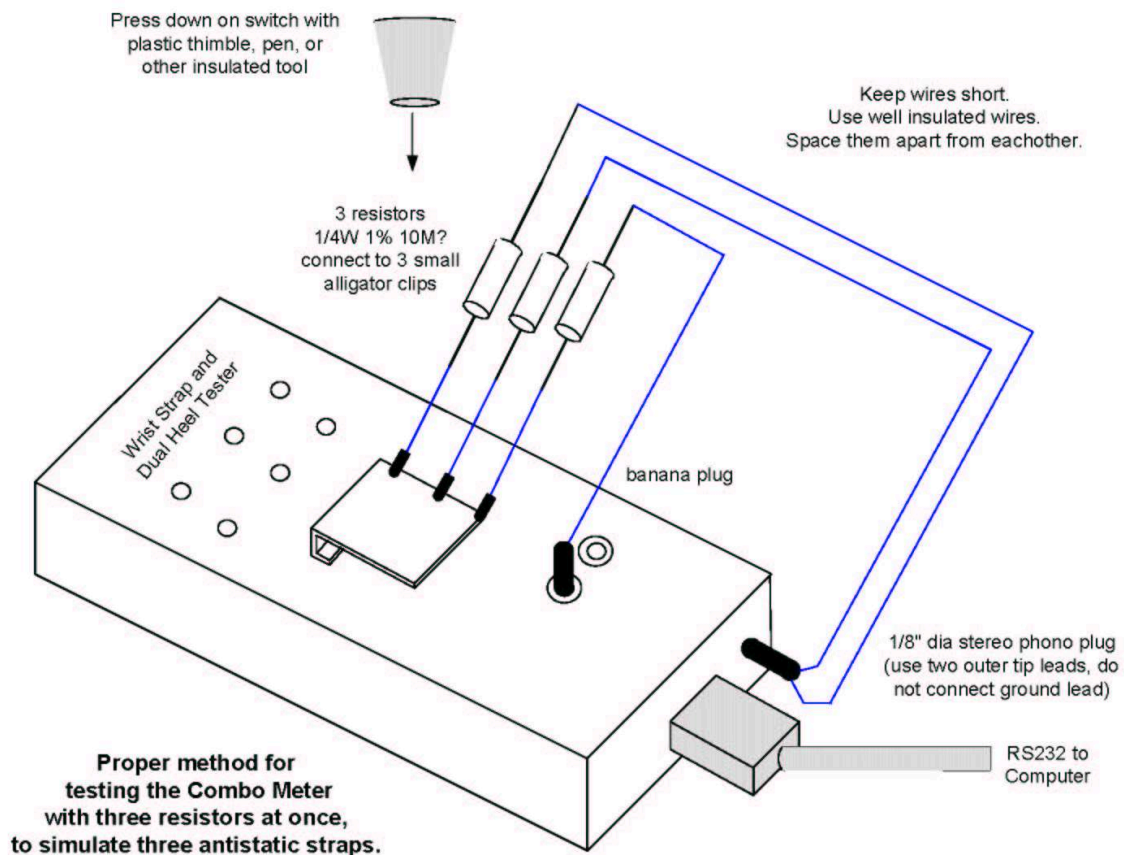
MAINTENANCE

The meter test button should be occasionally cleaned to remove any buildup of dirt, wax, or finger oils.
The meter foot plate should be occasionally cleaned to remove any buildup of dirt, wax, or other foreign materials.
If the meter is run on battery power, the battery will need to be occasionally replaced after 20,000 or so readings

CALIBRATION TESTING

The combo tester is self-calibrating, but it can be tested by either:

- sending it back to your distributor,
- testing it with Combo Meter Calibration box available from your distributor,
- or by testing with three resistors as shown in the following diagram. For the 100M meter use 1M - 90M 1% resistors. For the 1000M meter use 10M - 800M resistors. The results are displayed in the regular ESDTest program strap test window.



TROUBLESHOOTING AND FREQUENTLY ASKED QUESTIONS

(FAQ)

What are the major problems encountered when setting up a system?

1. Using the wrong communication port.
2. Not checking off the correct report or card identification box in the software.
3. Not setting up the correct electrical limits in the software and matching it to the default settings set up on the DIP switch settings inside the meter.
4. For older RS232 testers, installing the RS-232 cable so it protrudes from the edge of the stand will cause problems because the plug will bend and become dislodged from the jack.
5. Low battery if not using the AC power supply or rechargeable battery option.
6. Not backing up and resetting the test data file Log.txt after one year. Too much data will slow down the system.
7. Not reading the help files or instructional manual.
8. If in doubt call Ground Zero Electrostatics and we will run through the system while you are on the keyboard.

My barcode/mag stripe scanner does not read

1. Increase or decrease the speed of the swipe in both directions
2. Turn the card around, offering the readable side
3. Check that the code offered is within the design parameters (Code 39)
4. Check cable connections, remove and re-insert.
5. Check to see if the reader is reading the exact amount of characters on a persons' identification card. If not delete or add the correct numbers.

I want my system to read a card that is not in the system. Does the card have to be installed manually?

No. Check off "Unknown ID configuration. This will ask if the card should be added. Check yes and type in the name shown on the card.

If a failed tested is repeated and passes at another test station, but the report says the person failed, what is wrong?
The test station times are not synchronized. All test stations must be set with the same time. See Synch.bat

How do I hook up the two pig tail wires which are on the "special" meter with the door opening option?

The relay circuit is normally open. When the test results are passed, the two leads will close because of the activation of the low voltage relay in the meter and allow the passage of a maximum of 24 volts at 500milliamps through the relay to the door. See the connection diagram listed above.

How do I change the regional settings?

Make sure the regional settings are mm/dd/yyyy and not mm/dd/yy. To change click start, settings, control panel, regions, dates, short date setting= mm/dd/yyyy.

When the reports are printed slow what should be done?

The log.txt file should be reset periodically to prevent it from growing so huge that it slows down the report processing. Click on "setup" and then select the "Reset Log File" item. It will ask for a backup file (for example Log0699.txt for June 1999) For small companies this should be done at least once a year on January 1st. Every January 1st, the LogHist.txt on the test station computers should also be deleted. You may also want to check with Windows Explorer to see if there are any other huge files with recent dates.

What can be done if a password is forgotten?

Open the EsdTestini file with a word processor program. You will see the password on one of the lines marked Password.

How big a system is needed on the computer?

Suppose you have 2500 people in a company and they test three times a day for 280 days. Each data entry has approximately 80 characters. Therefore you need 168 megabytes or fewer than 2 Gigs hard drive capacity. If the file is reset each month a smaller hard drive will be required.

What can be done if the readings for the foot wear are low?

Check the footplate wire. Insert the wire completely into the meter. Workers wearing leather shoes that are wet will produce low readings.

How far can the computer be located away from the combo meter?
Maximum USB cable length is around 9-15 feet. 60 feet can be obtained with "USB repeater cables".

I am using an older RS232 (non USB) tester with an RS232 to USB converter, but do not see any information from the meter when the test button is pressed.

It sounds like your RS232/USB converter is not functioning.

1. Make sure no other program nor device nor resource is trying to access the com port.
2. Check the MS Device manager and make sure it says the port is functioning. (Start, Settings, Control panel, System, Hardware, Device Manager)
3. Try setting it to a different com port.
4. Make sure it is a fully compliant +/-12V serial RS-232 converter. Many of the less expensive converters are only +5/-0 or +/-5 and will not work.
5. If you have a serial port on the computer, use that instead of the USB converter
6. Try a different computer
7. Check with the USB converter manufacturer's technical support group.
8. Order the correct RS232/USB converter from your EsdTest distributor
9. Try a "loopback" test. If a loopback test connector has been included in the system, then plug it into the USB converter connector. The loopback connector is a small DB9 connector with pin 2 connected to pin 3. The purpose of the loopback connector is to send back whatever it receives. Thus with HyperTerminal connected, any keys that are typed on the keyboard should be displayed in the HyperTerminal monitor window. If a loopback connector is not available then just use the Combo meter RS232 cable by unfolding a paperclip and inserting it into pin 2 and 3 of one of the DB9S connectors (a magnifying glass might be needed to read the pin numbers on the cable connector). Make sure the EsdTest program is closed.

Test the connection by clicking Start, Programs, Accessories, Communications, HyperTerminal) and create a new HyperTerminal session. Name it CommX where X is the number of the com port for the USB serial port. In HyperTerminal set the "Connect Using" box to the com port number of the USB serial port. In the port settings window enter 9600 baud, 8 data bits, no parity, 1 stop bit, no flow control. Click Connect or Call to initialize the connection. What ever you type will be transmitted to the USB serial port, then loopedback and received by the USB serial port, and displayed on the HyperTerminal window.

If trying to use comports greater than com16, be sure to use the MsComm32.dll file dated 7/22/2008 on the installation CD

The customer has all their employee details on an Excel spreadsheet. Can you download this information directly from Excel, instead of inputting each record separately?

Yes. All the information is in the enclosed manual. Use one row for each employee, and make sure the columns follow our format, then save the file in a .csv format which will create a text file with the fields separated by commas, then rename the files as names.txt. To set up the first time, just do the opposite with our present names.txt file. Copy the names.txt file to names.csv and open it with Excel. This will show you what it looks like in Excel. You do need at least the three first columns (names and ID number) to make a names.txt file, the EsdTest program will use default values for the rest of the columns if you do not supply them. See the section above on "Exporting names from Excel".

Currently if a user tests, fails, tests again and passes, the report will only show the pass. Is there any way to record the full history of test results?

All test results are stored in the log.txt file. You can see it in the Entire log report, the Daily log report, or in the individual log report.

I would like to know if we can make the reports more user friendly like the Windows format not like the DOS format? The monthly report is abbreviated so that all 31 days fit across one page. The other reports also fit across a page. Every report generates two files: a .txt and a .csv file, so that you can import the report into your favorite word processor or spreadsheet program and then reformat it any way you please.

Can you modify the system while it is performing tasks?

Typically the administrator will update the server names.txt file and then download it to the individual test stations. The individual test station will read the new names.txt file just before someone tests. So the answer is yes.

Regarding the "leave status" buttons, can they be modified to show criteria that is specific to the user company?
Yes. See the help file.

What is the maximum number of records that can be stored on the system?

It depends on the hard drive of the server or computer being used. A 10 Gig system should keep 30000 employees' three tests per

day for a year. After a year save all the data on a CD.

Is there any information available besides what is on the HELP file?

All operating information is contained in this manual and the individual topic help files in the main ESDTest directory.

What can I do if my HID or Casi-Rusco card does not work? See the card reader trouble shooting sections above.

Can we use a USB extension cord with the USB tester?

Yes, but the total length should be under 9-15 feet. You can extend it up to 60 feet with a "USB repeater cable".

Can we test constant monitor wrist straps to see if they actually drain a charge from your body?

Yes you can. Merely insert the 3.5 mm plug into the 3.5 mm jack and press the test button.

Once I set the time for the automatic email it does not execute. I have an email program running always in the background. Why is it not working?

Make sure you have a MAPI compliant program such as Microsoft Outlook Express or Microsoft Outlook.

Try just entering a couple of lines in the Autogenerate Email editor window. Make sure the right hand LastExecuted field is empty.

;Days	Time Report	WorkGroup	Email Address	Last Executed
MoTuWeThFrSaSu	00:01	Exception CIA	joe@xyzmail.com	

Press the Start button in the Autogenerate Email window.

The system should generate an exception report for the CIA workgroup, and generate an email to joe@xyzmail.com. If you look in your Microsoft Outlook Express Out or Sent folder, you should see it there. The system should then add the time it did this to the last field as shown below:

MoTuWeThFrSaSu	00:01	Exception CIA	joe@xyzmail.com	3/8/2002 08:47
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See the section in the above manual on "Auto Generate Email Reports".

If using Outlook instead of Outlook Express, use the Outlook 2000 version without the email security update, since newer versions have so much security built in to them that they will not accept 3rd party program email sending requests.

I forgot to setup an email account before I scheduled Logsort in the AutoGenerate Email window, and it will not let disable it.

To disable the email generator just open the ESDTest.ini file with Notepad or any text processor and change the 47th line

from: 1, Auto start the email server(0=no 1=yes)

to: 0, Auto start the email server(0=no 1=yes)

Save the file and restart the ESDTest program.

To use Outlook Express instead of Outlook as the MAPI client,

either right click on your Internet Explorer icon and click properties, or open Internet Explorer and click Tools, Internet options

click the "Programs" tab

select "Outlook Express" in the E-mail box. click OK

To use Outlook, either use Outlook 2000 without the security updates, or use a later version of Outlook and have your IT administrator set up a public Outlook security folder to disable the warnings (see the Microsoft Knowledge Base Article # 263297 at <http://support.microsoft.com/kb/263297/en-us>).

I tried the generating of the Exception Report, both manually and through email. But, still it does not have the most recent update. Am I doing something wrong?

By "most recent update" do you mean that it generates a report but not with the most recent test data?

If this is the case, run the Reports, View Entire Log. Make sure the most recent test date is there. If not, and if you are running from a server (i.e. you are not running from the local test station), you either need to run the Logsort.exe program (manually or automatically), or have all test stations running from the same log.txt file by settings their working directories to the same folder. We recommend the logsort.exe method. Please read the manual on how to set up the netlist.txt file with the proper test station paths. Also make sure that the dates in the Log.txt data are in chronological order. A sudden jump forward to the future can cause the report generator to stop searching.

Does the Exception Report get updated automatically after each test?

No. The exception report does not get updated after each test, it needs to be run either:

1. Manually from the Reports, Exception menu or
2. Automatically from the AutoGenerate mail window.

I get an error saying: Runtime error '339' - Component 'msmapi32.ocx' or one of its dependencies not currently registered: a file is missing or invalid?

This file is included on our installation disk and should have been automatically installed by our installation CD. So here are your options:

- a. Try uninstalling and reinstalling the software using the latest version.
- b. If that does not work, try installing the file manually:
 - Copy the file from the CD D:\System32\Redist\MS\System\msmapi32.ocx to your system directory C:\Windows\System32
 - Register it by clicking Start, Run, and type: `regsvr32 c:\Windows\System32\msmapi32.ocx`

I get an error saying: Runtime error '339' - Component "Threed32.ocx" or one of its dependencies not currently registered: a file is missing or invalid?

This file is included on our installation disk and should have been automatically installed by our installation CD. So here are your options:

- a. Try uninstalling and reinstalling the software using the latest version.
- b. If that does not work, try installing the file manually:
 - Copy the file from the CD at D:\System32\Redist\MS\System\Threed32.ocx to your system directory C:\Windows\System32
 - Register it by clicking Start, Run, and type: `regsvr32 c:\Windows\System32\Threed32.ocx`

When the operator scans his/her badge, a DOS window pops up, and I have to close it myself manually. What can I do?

The DOS window is caused by the Synch.bat program (Refer to the manual). If you are running multiple test stations you need to synchronize the ties to the server. If you have another way of doing this then just rename the synch.bat file to something else like Synch.bak and disregard the rest of the instructions listed below:

1. Using Windows Explorer, right click on the Synch.bat file, select Edit (this will open the Synch.bat file in Notepad for editing) and make sure the server computer name is correctly saved and exit.
2. Using Windows Explorer, double left click on the Synch.bat file to run it. Make sure it runs correctly with no error message. Close the DOS window.
3. Using Windows Explorer, right click on the Synch.bat file, select properties and click the box that says "Close on Exit".

Can I use other data base programs for generating my Names.txt file?

Our database input file names.txt is extremely simple - it is just a text file with the fields separated by commas, with a record (line of text) for each employee. In almost every data base program ever designed (including Excel and MS Access), it can be generated by exporting the data as a .csv file. If you can export your employee data base with just three fields per employee - last name, first name, and badge#, our program will fill in the remaining fields with default values.

You can open the attached names.txt file with a word processor, or rename it to names.csv and open it with Excel.

If you want to specify more fields, they are:

Field 1 – Last name, Field 2 – First name, Field 3 – Group-ID:Badge, Field 4 – Wrist min, Field 5 – Wrist max, Field 6 – Foot min, Field 7 – Foot max, Field 8 – Wrist enabled (-1 = yes, 0 no), Field 9 – Foot enabled, Field 10 – Leave status, Field 11 – Start date,

Field 12 – Stop date, Field 13 – Certification type, Field 14 – Certification expiration, Field 15 – string of 365 attendance characters.

Please see the sections above on importing and exporting names.txt to Excel and Access, and the feature to allow access to company remote data bases to read employee names directly.

Some test stations will not recognize a card, or a card is read differently at differently test stations

A quick reader test if you are using USB readers, is to take a card that is giving you trouble and:

1. Go out to a test station where the card is known to work properly
2. Open up Microsoft Word (note RS232 readers will require using Hyperterminal instead of Word)
3. Click Tools, Options, View, Formatting marks, All
4. Click on the main window text area
5. Scan the card - it should display all the characters on the card. Try several times if intermittency is suspected.
6. Write down all the characters that were displayed.
7. Repeat the above at the other test station that does not work properly
8. The two should be identical. If not, then either the card is bad, the reader is bad, or the two readers are not programmed the same.

If the card reads the same at each station with Microsoft Word, then also check whether our software is set to interpret the reader the same way at each station:

1. Go out to a test station
2. Open our ESDTest program
3. Click Setup, Employee Selection
4. Note the settings
5. Click Edit Reader Parameters (if visible) and also note the settings
6. Repeat the above at the other test station
7. The two should be identical if the readers are identical.

If the problem still can not be located, make sure that:

1. The Names.txt file is the same at both stations (or that both are reading the same common Names.txt file)
2. The ESDTest software version is the same at each station (click Help About)

The new software does not allow me to select my old HID 5352 card reader that my older software used

The new software still indirectly supports old readers. Just copy your old ESDTest.ini file to the C:\ESDTest directory (or where ever the ESDTest.exe working directory is located.)

When emailing reports I get a pop up box saying "A third party program is trying to send email in your name"

Microsoft recently added major security updates to Outlook 2002 which prevents other programs (such as ESDTest) from using it to send MAPI email messages without popping up a warning message "A program is automatically trying to send email on your behalf."

The solutions are:

- If your company is using Microsoft Outlook 2002 with Microsoft the Exchange Server, then have the administrator set up a public Outlook security folder to disable the warnings (see the Microsoft Knowledge Base Article # 263297)
- Switch to Outlook Express (which is not fully compliant with Microsoft Exchange) or another MAPI compliant email program, or switch to Outlook 2000 without the email security update.
- Disable the messages by opening Outlook Express, clicking Tools, Options, Security, Virus Protection, and uncheck the box that says "Warn me if other applications try to send mail as me."
- or download ClickYes Pro from <http://www.contextmagic.com/express-clickyes/> and modify the Outlook security settings
- or download the free Express ClickYes program from <http://www.contextmagic.com/express-clickyes/> (Set it to always be suspended)
- or install the ClickYesSetup.exe file included on the installation CD. This will automatically dismiss the message. (set it to always be suspended)

What other security measures can I apply.

- Use the EsdTest Administrator password
- Put the EsdTest icon in the Startup menu to boot upon startup
- Boot-up in Windows "Guest" mode.
- Activate the EsdTest Administrator password.
- Get rid of all other program icons.
- Removing the shortcut keys from the registry (see Microsoft website).
- Lock up the keyboard

When I try to run the ver 9 or later EsdTest program I get a message saying that file FM20.dll is not registered or Error 7 - Out of Memory, or Module not found, or System error 8&&H8007007E.

This file normally comes with Microsoft Outlook. If you do not have Microsoft Outlook installed then:

1. Make sure you run the complete ver 10 installation file
2. if you still have trouble, click Start, Run and type:
RegSvr32 c:\windows\SysWow64\fm20.dll (or what ever the correct file path is)
3. If you still have trouble then go to
<http://msdn.microsoft.com/library/default.asp?url=/library/en-us/dnaxctrl/html/cpad.asp>
click on Setuppad.exe. Or look and see if MsSetupPad.exe is included on our installation disk, and click on it. Make sure it is run as with administrator privilege.

If an installation error occurs in Windows 7, 8 then run setup a second time again until the Program compatibility assistant window pops up. (note on tablets this popup window might be hidden so look for the icon of it in the bottom toolbar.) click "Run the program using compatibility settings"

If the setup window disappears then check the bottom and click on the blinking shield

Click Allow changes - yes

Click Control pad setup - yes

Click Continue

To start installation click on the large button in the middle of the installation window. Click Continue

If the Program compatibility assistant window does not pop up, then force the compatibility mode by right clicking on the MsSetupPad.exe file and selecting "Troubleshoot compatibility"

Click on "Try recommended settings" and continue installing as above.

4. If your c:\windows\fm20.dll file is older than 1/11/1999, then go to
<http://office.microsoft.com/downloads/9798/fm2paste.aspx>
and install the update.

When I try to run the ver 9 or later EsdTest program I get a message saying that file scrrun.dll is not registered or Module not found.

1. Try click Start, Run and type: RegSvr32 c:\windows\Sys32\scrrun.dll
2. If there is still a problem, make sure you have the correct script files installed. Go to:
<http://msdn.microsoft.com/library/default.asp?url=/downloads/list/webdev.asp>
(Microsoft Windows Script Downloads)
[and download the correct scripting files for your system.](#)

When I try to display in Chinese, I only see square boxes and question marks.

You do not have the Chinese font loaded. Download and install the "Office XP Tool: Simplified Chinese Language Pack" <http://www.microsoft.com/downloads/info.aspx?na=47&p=3&SrcDisplayLang=en&SrcCategoryId=8&SrcFamilyId=959EB2A2-FAC3-4443-999B-8BE12734A596&u=details.aspx%3ffamilyid%3dDEB6731A-CA36-47A3-B4A0-2A1D19EEFA05%26displaylang%3den>

What are the power adapter requirements for the non USB testers?

The USB tester is self powered from the USB cable. The older non-USB combo meters were shipped with a power adapter that has been tested to be compatible with the meter. Using other supplies may invalidate the warranty. If another supply is used, it must conform to the following specifications:

1. 9-15VDC, filtered, > 50ma
2. The output connector must be a 2.5mm ID, 5.5mm OD, 12mm long barrel, female power connector, with the center pin connected to positive voltage (i.e. center positive).
3. If a switching power supply is used, make sure the output noise is low, and an RFI filter choke is included on the cable (such as a Steward 28A0592-0A2 or 28A0350-0B2).
4. In high noise environments, use 4 EMI filter chokes (such as a Steward 28A0592-0A2 at each end of the power cable and one on the foot plate cable near where it connects to the meter, and a Steward 28A0593-0A2 on the RS232 cable near the combo meter connector.)

Thus typical power supply adapters can be:

- 9VDC unregulated (i.e. 9-15VDC)
- 9VDC regulated
- 12VDC unregulated (i.e. 9-15VDC)
- 12VDC regulated

(Note - many 9VDC supplies come with a 2mm ID connector which will not work. Neither will a 9.5mm long connector)

If an Ethernet adapter is used, its 12VDC supply can usually be used to power the meter.

When I boot the program I get a message saying "Printer problem - Make sure a printer is selected and has the proper driver.

Check that:

- the printer has a name assigned to it (i.e. the name can be blank) (Start, Settings, Printers, Default (i.e. the printer with the little check by it)
- the printer font size in the Setup, General window is not 0
- the printer font name in the Setup, General window is not blank
- If the computer is not connected to a printer then add a generic printer driver:
 - o In Windows 7 click Start, Settings, Printers, Add A Printer, Next, Local
 - o In Windows 10, open the Control Panel (if you can not find it then search for "Control"). Then select:
 - ♣ Devices and printers
 - ♣ Add a printer
 - ♣ The printer that I want isn't listed
 - ♣ Add a local printer or network printer with manual settings
 - ♣ Using an existing port
 - ♣ File (Print to file)
 - ♣ Generic / Text only
 - ♣ Do not share this printer
 - ♣ Set the "Generic / Text Only" printer to be the default

More troubleshooting tips are available through ACL Staticide's customer service Meter Department. Special systems can be ordered from ACL Staticide, which will open doors, print labels, or have an upper limit of 1000 megohms.

WARANTEE AND LICENSE AGREEMENTS

LIMITED WARANTEE:

Ground Zero Electrostatics warrants for a period of one year from the date of purchase the MTR-8900-USB and ACL-750-USB will be free of defect in material. Within the warranty period the meters will be replaced free of charge. Any meters returned shall be shipped prepaid to Ground Zero Electrostatics along with a return authorization number and proof of purchase.

Exclusions.

The above warranty will not apply to defects or damage due to accidents, misuse, design alterations, neglect, operator error, failure to clean or maintain the meters.

Limitations:

In no event shall Ground Zero Electrostatics be responsible for any loss, damage, injury, direct or consequential, arising out of the use of or the inability to use the meters. Before using, users shall determine the suitability of the product for their intended use. Users will assume all risk and liability what so ever in connection therewith.

SOFTWARE LICENSE AGREEMENT:

Ground Zero Electrostatics is willing to license the enclosed software only upon the condition that all of the terms of the software license agreement are accepted. Please carefully read all of the terms of this agreement during the installation process prior to clicking the "I accept the terms of this license".

By continuing to install the software you accept the terms and conditions of this agreement.