



***Trilithic Data Manager (TDM)
for
Administrators***

**OPERATION
MANUAL**

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Trilithic Company Profile

Trilithic is a privately held manufacturer founded in 1986 as an engineering and assembly company that built and designed customer-directed products for telecommunications, military and industrial customers. From its modest beginnings as a two-man engineering team, Trilithic grew over the years and broadened its offerings of RF and microwave components by adding broadband solutions to its product line. This was accomplished with the acquisition of components manufacturer Cir-Q-Tel and instruments manufacturer Texscan.

Today, Trilithic is an industry leader providing telecommunications solutions for major broadband, RF and microwave markets around the world. As an ISO 9000:2001 certified company with over 40 years of collective expertise in engineering and custom assembly, Trilithic is dedicated to providing quality products, services and communications solutions that exceed customer expectations.

Trilithic is comprised of three major divisions:

- **Broadband Instruments & Systems**
Offers test, analysis and quality management solutions for the major cable television systems worldwide.
- **RF Microwave Components**
Provides components and custom subsystems for companies specializing in cellular, military and other wireless applications.
- **Emergency Alert Systems**
Leading supplier of government-mandated emergency alert systems used by HFC service providers.

Helpful Websites

The following websites may be of interest to you:

<http://www.trilithic.com>

Trilithic's website contains product specifications and information, tips, release information, marketing information, Frequently Asked Questions (FAQs), bulletins and other technical information. You can also check this website for product updates.

<http://www.860DSP.com>

The website for the 860 DSP contains specifications and product information.

Where to Get Technical Support

Trilithic technical support is available Monday through Friday from 8:00AM to 5:00PM EST.

Callers in North America can dial (317) 895-3600 or (800) 344-2412 (toll free). International callers should dial (317) 895-3600 or fax questions to (317) 895-3613. You can also e-mail technical support at techsupport@trilithic.com.

For quicker support response when calling or sending e-mail, please provide the following information:

- Your name and your company name
- The technical point of contact (name, phone number, e-mail)
- The version number of the Workbench and/or TDM software
- The version of Windows you are using (including any Service Packs and patches)
- A detailed description of the problem you are having, including any error or information messages

This chapter:

- Defines TDM's purpose
- Provides a TDM to 860 DSP System Overview diagram, a Sample TDM Network Configuration diagram and a TDM Port and Protocol Usage diagram
- Gives instructions for using TDM with SSL
- Lists minimum system requirements

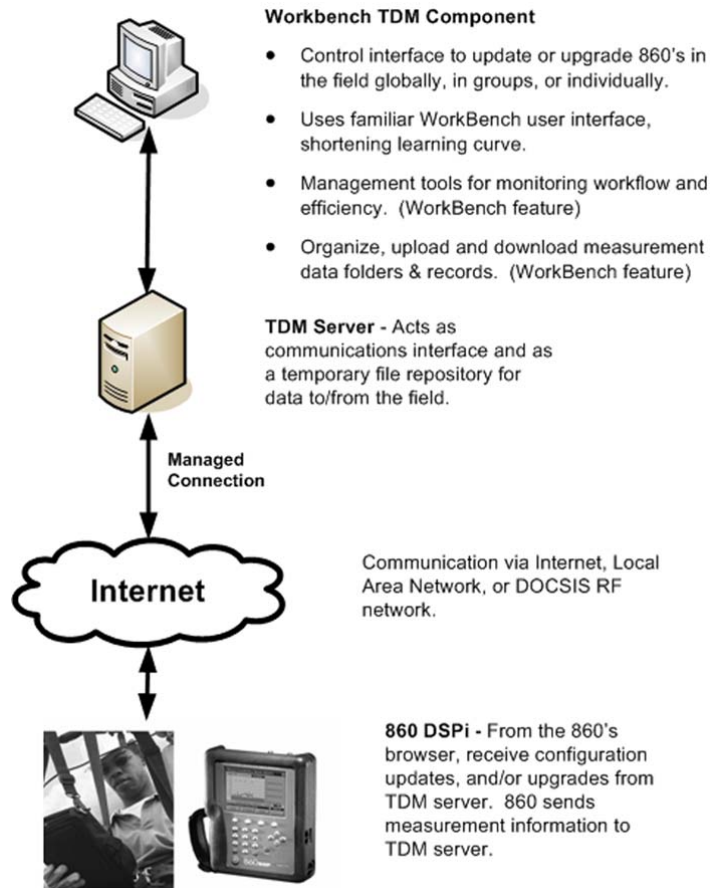
What is TDM?

TDM (Trilithic Data Manager) is an optional component for WorkBench. It allows field technicians to use the Internet to remotely send and receive information to/from their 860 DSPs. Before TDM, field technicians had to physically bring their meter into the home office for information transfers.

The types of information that 860 DSPs receive via TDM include: device configuration files, firmware upgrades, updated channel plans, locations, tasks (work orders), macros and web mail.

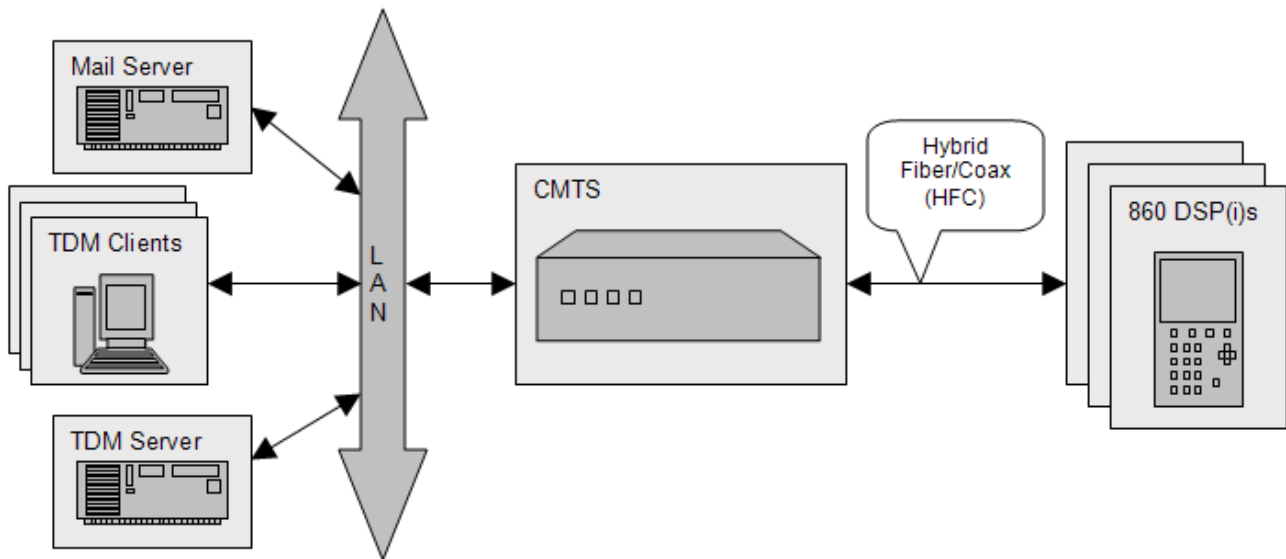
The types of information that 860 DSPs send via TDM include: field data, tasks (work orders), screen captures and web mail.

TDM to 860 DSP System Overview Diagram



Sample TDM Network Configuration Diagram

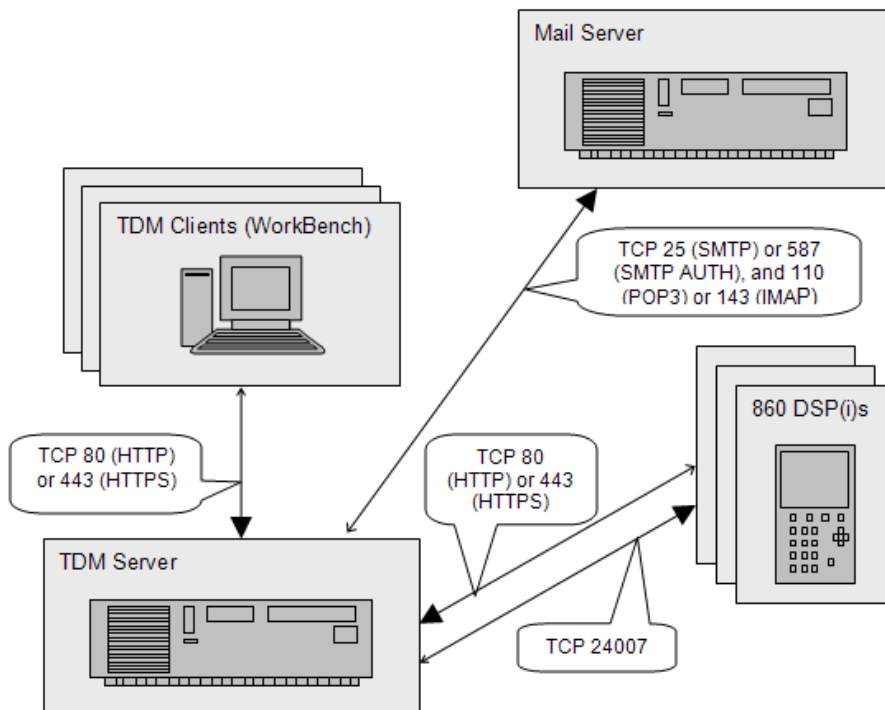
Below is a general view of the components in the TDM network.



TDM Port and Protocol Usage Diagram

This diagram shows the ports and protocols that are used by the TDM network components. If you have a firewall, it is important to make sure the ports named below are open. For information on component requirements, see the **Minimum System Requirements** section of this manual.

Note: TDM does not come with e-mail server software. It provides a Web interface that allows your 860 DSP to interface with an e-mail server.



Using TDM with SSL

It is possible to use Secure Sockets Layer (SSL) to access TDM. This can help prevent sensitive TDM data from being intercepted.



Important: Before an 860 DSP can use SSL, its firmware must be changed from the factory default. To obtain the SSL enabling firmware, contact Trilithic at (317) 895-3600 or (800) 344-2412 (toll free).

To access TDM using SSL:

1. Obtain an SSL certificate for your TDM server's Default Web Site. To find out how, consult your company's IT department.
2. In the **Administrative Tools Control Panel**, open **Internet Information Services**.
3. Navigate to the following folder: *local computer => Web Sites => Default Web Site*
4. Right-click on the **TDM** folder, then click on **Properties**.
5. Click on the **Directory Security** tab.
6. In the Secure communications section, click on **Edit**.
7. Place a check in the **Require secure channel (SSL)** checkbox. You may then wish to place a check in the **Require 128-bit encryption** checkbox as well. Click on **OK**, then on **OK** again.
8. In the **Inheritance Overrides** dialog box that appears, click on **Select All**, and then click on **OK**.
9. Repeat steps 4 through 8, but for the *TrilithicWebServices => TrilithicDataManager* folder instead of the **TDM** folder.
10. In WorkBench, click the **Global** tab, expand the **Application Options** tree, then double-click on the **TDM** label. The **Application Options** dialog box will appear with the **TDM** tab displayed.
11. Place a check in the **Use SSL** checkbox, then click on **OK**. You will be returned to the main WorkBench window.
12. Modify the Web browser settings for each 860 DSP by editing its TDM home page link like this:
 - a. Right-click on the 860 DSP, click on **Configure**, then click on **Web Browser Settings**.
 - b. In the Trilithic **860 DSP Configuration Wizard** dialog box that appears, change the TDM home page from:
`http://TDM server hostname or IP address/TDM/860Pages.html`
to
`https://TDM server hostname or IP address/TDM/860Pages.html`
 - c. Click on **Next**. WorkBench will update the 860 DSP with the new link and then display a Trilithic 860 DSP Configuration Wizard Complete message.
 - d. Click on **Finish**. You will be returned to the main WorkBench window.

Minimum System Requirements

To operate the TDM software, your system **must** meet the following minimum system requirements:

- **WorkBench for the 860 DSP**
 - 200 MHz Pentium-II
 - 64 MB RAM
 - 100 MB free disk space
 - Microsoft Windows NT 4.0, 2000 or XP
 - Color monitor running at 256 colors or higher, 800x600 minimum screen resolution
 - Windows compatible keyboard and mouse
- **WorkBench TDM Component**
 - WorkBench for the 860 DSP v1.5 or higher
 - Internet Connection
- **TDM Server**
 - 1 GHz Pentium-III
 - 256 MB RAM
 - 2 GB free disk space
 - Microsoft Windows XP (10 concurrent connection limit) or Windows Server 2003
 - Microsoft SQL Server 2000 with Service Pack 3a
 - Color monitor running at 256 colors or higher, 800x600 minimum screen resolution
 - Windows compatible keyboard and mouse
 - Private Network Security
 - NAT (firewall, router or computer) with TCP port 80 mapped to TDM server and TCP port 24007 open for outgoing packets
 - Static IP Address
- **860 DSPi or 860 DSP with web browser capabilities (v6.1.1.1 or higher)**
- **TDM Mail Server (Not supplied by Trilithic)**
 - Incoming e-mail server using POP3 or IMAP
 - Outgoing e-mail server using SMTP or SMTP-AUTH
 - E-mail servers must be accessible via TCP/IP from the TDM server

This chapter:

- Describes TDM Administration
- Gives an overview of TDM Administration's features

What is TDM Administration?

TDM Administration serves as your headquarters for managing the functions and features of TDM.

Overview of TDM Administration's Features

TDM Administration helps you with:

860 DSP Maintenance

- List details about any 860 DSP in your TDM network
- List, add and delete 860 DSPs in the TDM network

TDM Inbox and Outbox Maintenance

- List, download and delete files from TDM inboxes
- List, add and delete files from TDM outboxes

Workgroup Maintenance

- Create and delete workgroups
- Assign and remove workgroup members

E-Mail Maintenance

- Add, edit or remove e-mail users from the TDM network
- Select and configure servers that will be used to send and receive TDM e-mail
- Add or remove e-mail groups and their members
- Setup address books for individual users, groups and also for global use

Field Data File Type, Transaction History and Web Link Maintenance

- List, add and delete field data file type extensions
- List date specific activity including file transfers and account maintenance
- Add and delete web links that can be accessed by the 860 DSPs in the TDM network

This chapter tells you how to:

- Install TDM server
- Log into TDM Administration
- Register TDM

Before Installing TDM and Logging into TDM Administration...

Before you can install TDM server and use the software:

- Your computer must meet the minimum system requirements listed in the **Introducing TDM Administration** section of this operation manual.

Before you can log into TDM Administration in WorkBench:

- If you are going to log into TDM Administration via WorkBench, TDM must be enabled and configured in WorkBench. For instructions, refer to the **Setting Up TDM** chapter of the **WorkBench and the Trilithic Data Manager Component (TDM) Operation Manual Addendum**.

You can alternatively choose to log into TDM Administration via a Web browser.

Step 1: Install TDM Server

If TDM server has already been installed, proceed to **Step 2: Grant Others Permission to Access TDM Administration**.



Be sure to check the CD for release notes that may affect the installation and configuration process!

To install TDM:

1. Log onto your server as the local Administrator, or as a user that is a member of the local Administrators group.
2. Insert the TDM installation CD into your CD-ROM drive.
3. **If you have Autorun enabled for the CD-ROM drive**, the TDM setup program will start automatically.
If you DO NOT have Autorun enabled for the CD-ROM drive,
 - 3a) Click **Start** (which is found on the lower left-hand side of your screen).
 - 3b) Select **Run** from the pop-up window.
 - 3c) Type *D:\setup.exe* (substitute the appropriate drive path if D is not your CD-ROM drive).
 - 3d) Click on **OK**.
4. To complete the installation, follow the on-screen directions.

Step 2: Grant Others Permission to Access TDM Administration

By default, only the Windows user named Administrator of the computer TDM is installed on will have access to the TDM administration web pages.

If you want to grant others permission to access the TDM administration web pages:

Microsoft Windows XP

Go to Control Panel => User Accounts (then click on the Advanced tab) => in Advanced User Management category click on the Advanced button (Local Users and Groups) => Groups folder => double-click on TDM Administrators and add the appropriate names

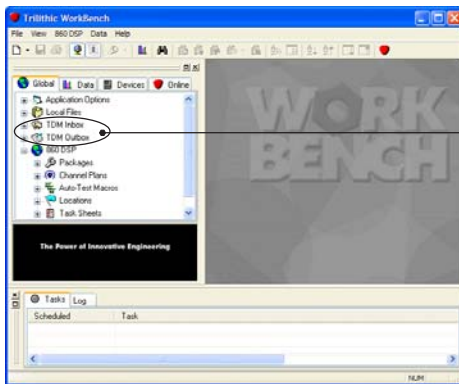
Microsoft Windows 2003

Go to Control Panel => Administrative Tools => Computer Management => System Tools (expand tree) => Local Users and Groups (expand tree) => Groups (open folder) => double-click on TDM Administrators and add the appropriate names

Step 3: Log into TDM Administration

There are two ways to log into TDM Administration:

From Workbench (with the TDM component enabled)



Right click on either the **TDM Inbox** or **TDM Outbox** and select **TDM Administration** from the dropdown menu.

Note: To log in, you must have TDM administrative access to the computer TDM is installed on.

OR from a Web browser (i.e. Microsoft Internet Explorer)

You can also access TDM Administration by typing your TDM server's administration homepage URL into any Internet browser.

If you are not using SSL, the URL will be in the following format:

http://insert host name or IP address of the TDM server here/TDM/AdminPages.html

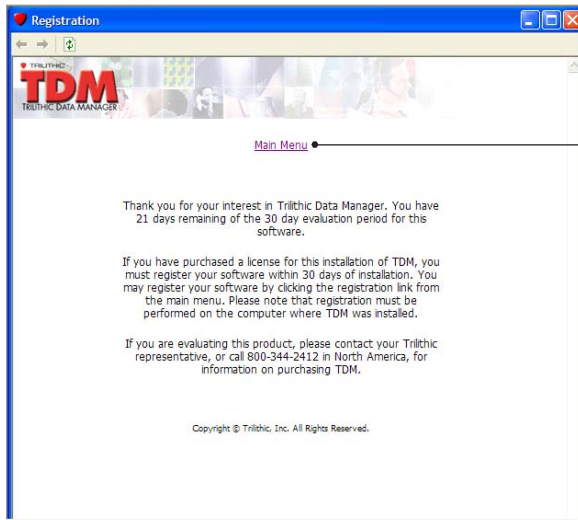
If you are using SSL, the URL will be in the following format:

https://insert host name or IP address of the TDM server here/TDM/AdminPages.html

Step 4: Register TDM

If you haven't already registered your TDM software, after logging into TDM Administration you will be prompted to do so.

If you want to keep TDM past its 30-day evaluation period, **log into the computer where TDM was installed** and register the software by doing the following:

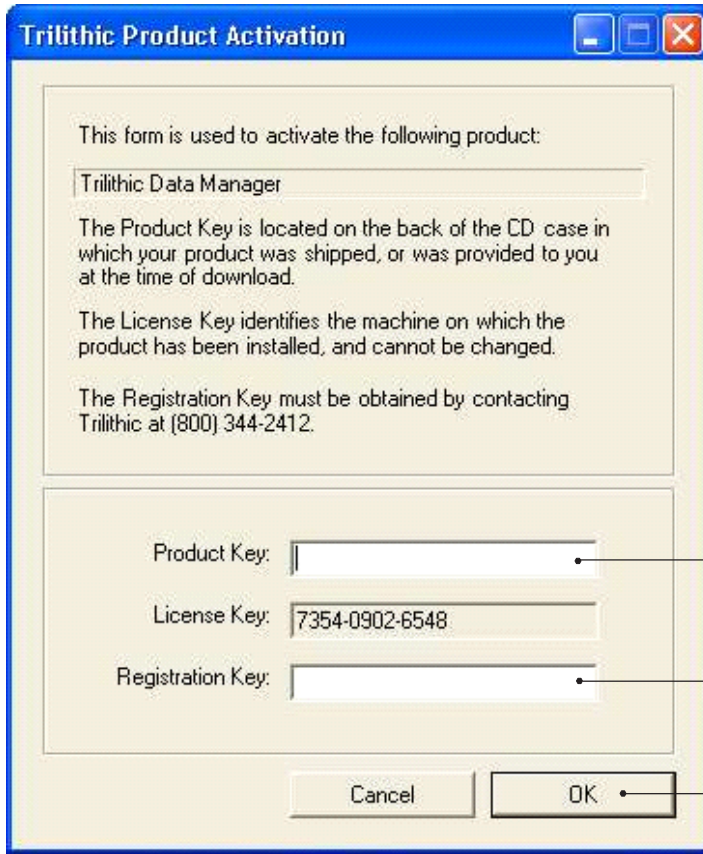


1 Click on **Main Menu**.

**Have You
Registered?**

2 On the page that follows, click on this registration link.

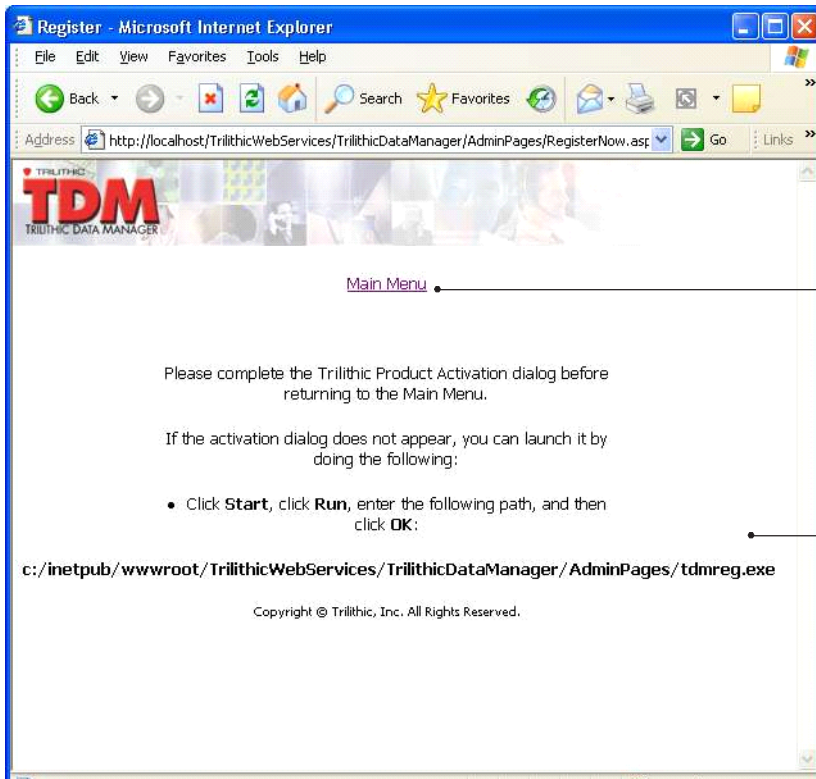
The following two screens will appear:



3 Type in the **Product Key**.

4 Type in the **Registration Key**.

5 Select **OK**.



6 Click on **Main Menu** to return to the TDM Administration main menu.

If the Trilithic Product Activation dialog box shown above doesn't appear, follow these instructions.

This chapter:

- Explains how to use TDM Administration's main menu links for initial setup
- Gives an overview of TDM Administration's main menu

How to Use TDM Administration's Main Menu Links for Initial Setup

When you first setup TDM, for proper configuration use the administration menus in this order:

- 860 DSPs** -- Add the 860 DSPs you want to access the TDM network
- Workgroups** -- Create groups of 860 DSPs
- Workgroup Members** -- Assign workgroup members
- Field Data File Types** -- Make sure all needed field data file types are listed

If you choose to setup TDM E-Mail, for proper configuration use the administration menus in this order:

- E-Mail Site Configuration** -- Select and configure the server that will be used to send and receive TDM e-mail
- E-Mail Users** -- Add users you want to have e-mail access
- E-Mail Address Books** -- Setup address books for individual users, groups and for global use
- E-Mail Groups** -- Add e-mail groups

These administration menus are not necessary for initial setup and can be used as needed:

- Web Links** -- Add web links you want to be accessed by the 860 DSPs in your TDM network
- 860 DSP Details** -- View details about any 860 DSP in your TDM network
- Inboxes** -- Manage TDM Inboxes
- Outboxes** -- Manage TDM Outboxes
- Transaction History** -- View date specific activity

TDM Administration's Main Menu Overview

The screenshot shows the 'Trilithic Data Manager Administration' web interface. The main menu items are: 860 DSPs, 860 DSP Details, Inboxes, Outboxes, E-Mail Address Books, E-Mail Groups, E-Mail Site Configuration, E-Mail Users, Field Data File Types, Transaction History, Web Links, Workgroups, and Workgroup Members. The interface also includes a search bar, a navigation pane on the right, and a footer with the copyright notice 'Copyright © Trilithic, Inc. All Rights Reserved.'.

Provides details about any 860 DSP in your TDM network.
See page 22 for more details.

Displays all 860 DSPs included in the TDM network. You can add new 860 DSPs you want to access the TDM network and delete ones you don't.
See page 15 for more details.

View, download and delete files from inboxes.
See page 23 for more details.

View, add and delete files from outboxes.
See page 24 for more details.

Lists file extensions for all known types of field data. You can add new file types and delete those that are obsolete.
See page 20 for more details.

Use this to view date specific activity including file transfers and account maintenance.
See page 25 for more details.

Add and delete web links that can be accessed by the 860 DSPs in the TDM network.
See page 21 for more details.

Go here to create and delete groups of 860 DSPs.
See page 17 for more details.

Where you go to assign and remove workgroup members.
See page 19 for more details.

Add, edit or remove e-mail users from the TDM network.
See page 27 for more details.

Select and configure servers that will be used to send and receive TDM e-mail.
See page 26 for more details.

Add or remove e-mail groups.
See page 32 for more details.

Setup address books for individual users, groups and also for global use.
See page 30 for more details.

TDM Administration's Menu

860 DSPs

Use this menu to:

View all 860 DSPs included in the TDM network. You can also add new 860 DSPs to the TDM network and delete 860 DSPs you no longer want to have access. An 860 DSP's properties can be edited here as well.

Note: When a new 860 DSP first attempts to connect with the TDM server it is automatically added to this list with a "No" in the **Authorized** column. Before a new 860 DSP is allowed to connect to the TDM server, you must authorize it by changing the "No" to a "Yes."

Click here to return to the main menu.

A status message will appear here to let you know whether the action you have just taken is successful.

Takes you to that 860 DSP's details page.

To add a new 860 DSP to the TDM network:

- 1 Type in the 860 DSP's **Mac Address**.
- 2 If desired, type in the **Operator Name**. This is a short name you can use to identify your 860 DSP.
Note: This field will update automatically when an 860 DSP connects to TDM.
- 3 If you want the 860 DSP to log into TDM e-mail automatically, choose what username the 860 DSP will login as.
Note: If a username is deleted from TDM, **Auto-Login** for that name won't work.
- 4 Click on the appropriate box to add a DSP to an existing workgroup. (Workgroups are discussed on page 17 of this manual.)
- 5 Click on the **Add** button.

DSP MAC Address	Operator Name	Last Connected	Auto-Login Username	Authorized	Select
00-02-7C-00-14-C5	Chris	11/11/2005 4:05:11 PM		Yes	Details <input type="checkbox"/>
00-02-7C-00-04-08	Harry	11/14/2005 11:13:55 AM		Yes	Details <input type="checkbox"/>

< Previous Next >

Add an 860 DSP

MAC Address: [] - [] - [] - [] - [] - []

Operator Name (optional): []

Auto-Login Username: (no auto-login) [v]

Add this 860 DSP to the following workgroups:

EastSide WestSide

Click on either **Previous** or **Next** to move back and forth in the list of 860 DSPs.

860 DSPs continued...

860 DSPs

860 DSPs

860 DSP authorizations flipped successfully.

DSP MAC Address	Operator Name	Last Connected	Auto-Login Username	Authorized	Select
00-02-7C-00-14-C5	Chris	11/11/2005 4:05:11 PM	Details	Yes	<input type="checkbox"/>
00-02-7C-00-04-0B	Harry	11/14/2005 11:13:55 AM	Details	Yes	<input type="checkbox"/>

< Previous Next >

Add an 860 DSP

MAC Address: - - - - -

Operator Name (optional):

Auto-Login Username: (no auto-login)

Add this 860 DSP to the following workgroups:

EastSide WestSide

To authorize/unauthorize an 860 DSP in the TDM network:

- 1 Select the appropriate 860 DSP by putting a check in the correct box under the **Select** Column.
- 2 Click on the **Flip Auth** button.

To delete an 860 DSP from the TDM network:

- 1 Select the unwanted 860 DSP by putting a check in the correct box under the **Select** Column.
- 2 Click on the **Delete** button.

860 DSPs

860 DSPs

To edit 860 DSP "Chris", scroll to the Edit 860 DSP section below.

DSP MAC Address	Operator Name	Last Connected	Auto-Login Username	Authorized	Select
00-02-7C-00-14-C5	Chris	10/7/2005 11:24:13 AM	Details	Yes	<input checked="" type="checkbox"/>
00-02-7C-00-04-0B	Harry	10/19/2005 3:46:39 PM	Details	Yes	<input type="checkbox"/>
00-02-7C-00-06-48	Larry	10/24/2005 11:48:09 AM	Details	Yes	<input type="checkbox"/>
00-02-7C-00-14-E7	Welcome Ben Windle...	10/17/2005 10:34:37 AM	Details	Yes	<input type="checkbox"/>

< Previous Next >

Edit 860 DSP: Chris

MAC Address: 00 - 02 - 7C - 00 - 14 - C5

Operator Name (optional): Chris

Auto-Login Username: (no auto-login)

This 860 DSP is a member of the following workgroups:

EastSide WestSide

To edit an 860 DSP's properties:

- 1 Click on the **Edit** button for the appropriate 860 DSP.
- 2 Edit the properties as necessary. You may need to scroll down to reach the editing section.
- 3 Click on **Save**.

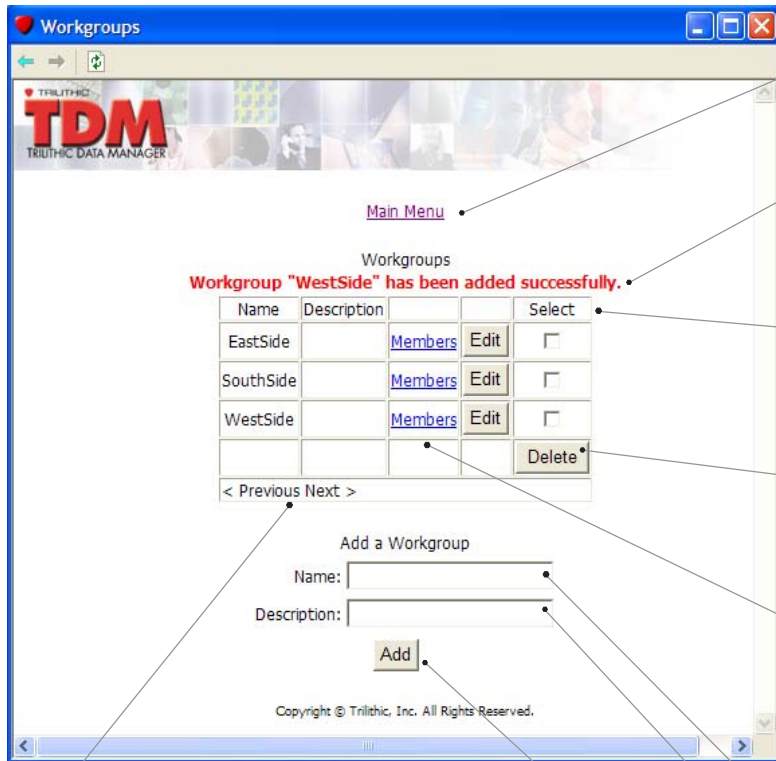
Workgroups

Use this menu to:

Create and delete groups of 860 DSPs.

What is a workgroup and how is it used?

A workgroup is a collection of 860 DSPs that have something in common, such as the type of work the technicians do or their geographical location. Using workgroups, changes can be applied to several 860 DSPs at once instead of individually.



Click here to return to the **Main Menu**.

A status message will appear here to let you know whether the action you have just taken is successful.

To delete a workgroup:

- 1 Select the appropriate workgroup by putting a check in the correct box under the **Select** column.
- 2 Click on the **Delete** button.

To add or delete workgroup members:

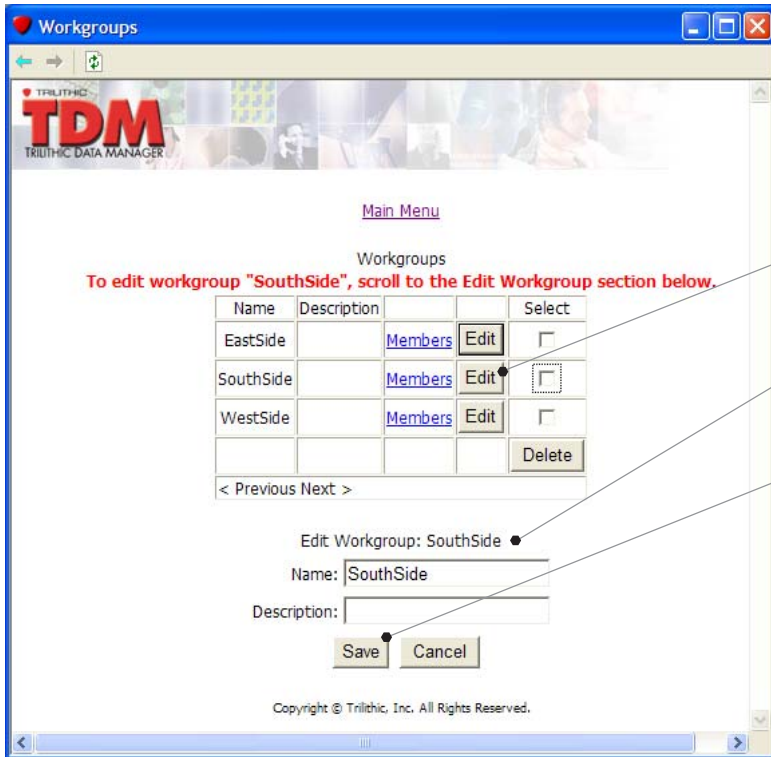
- 1 Click on the **Members** link to be transported to the **Workgroup Members** page for that particular workgroup.

Click on either **Previous** or **Next** to move back and forth in the list of workgroups.

To add a new workgroup:

- 1 Type in the workgroup's **Name**.
- 2 Type in a brief **Description** of the workgroup.
- 3 Click on the **Add** button.

Workgroups continued...



To edit a workgroup:

- 1 Click on the **Edit** button for the appropriate workgroup.
- 2 You may need to scroll down to reach the editing section. Edit the properties as necessary.
- 3 Click on **Save**.

Workgroup Members

Use this menu to:

Add and delete workgroup members.

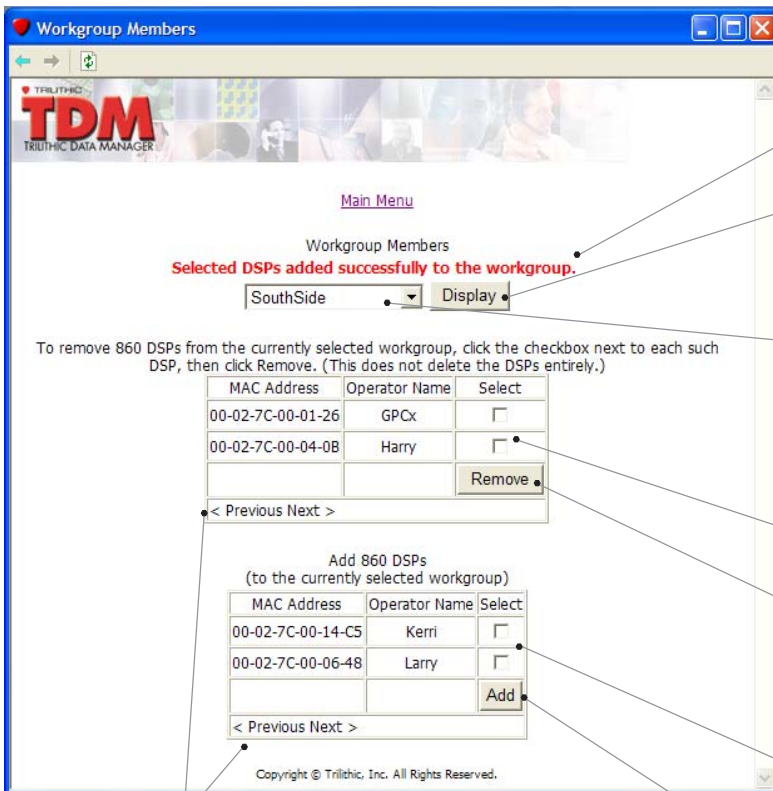


Click here to return to the **Main Menu**.

Select a workgroup from the dropdown list.

Click on the **Display** button to refresh this screen.

Once you select a workgroup you will see this screen:



A status message will appear here to let you know whether the action you have just taken is successful.

Press **Display** to refresh the screen.

To choose another workgroup:

- 1 Select the appropriate workgroup from the dropdown list.

To remove a member from a workgroup:

- 1 Check the box next to the member you want to remove.
- 2 Click on the **Remove** button.

To add a new member to a workgroup:

- 1 Place a check next to the 860 DSP you want to add to the workgroup.
- 2 Click on the **Add** button.

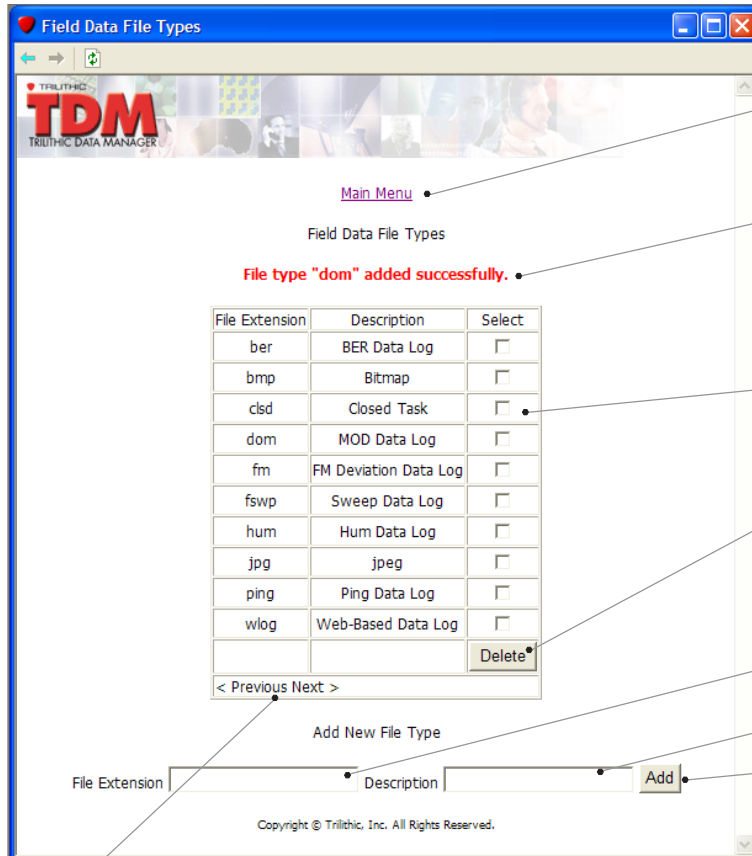
Click on either **Previous** or **Next** to move back and forth in the list of workgroup members.

Field Data File Types

Use this menu to:

Define the field data file types that can be received from an 860 DSP. File extensions for all known types of field data can be listed here. You can also add new field data file types and delete obsolete ones.

Note: Field data file types not on the list are not recognized by TDM. These field data files will remain on the 860 DSP and will not be received by TDM.



Click here to return to the **Main Menu**.

A status message will appear here to let you know whether the action you have just taken is successful.

To delete an obsolete file type:

- 1 Select the unwanted file type(s) by putting a check in the box.
- 2 Click on the **Delete** button.

To add a new file type:

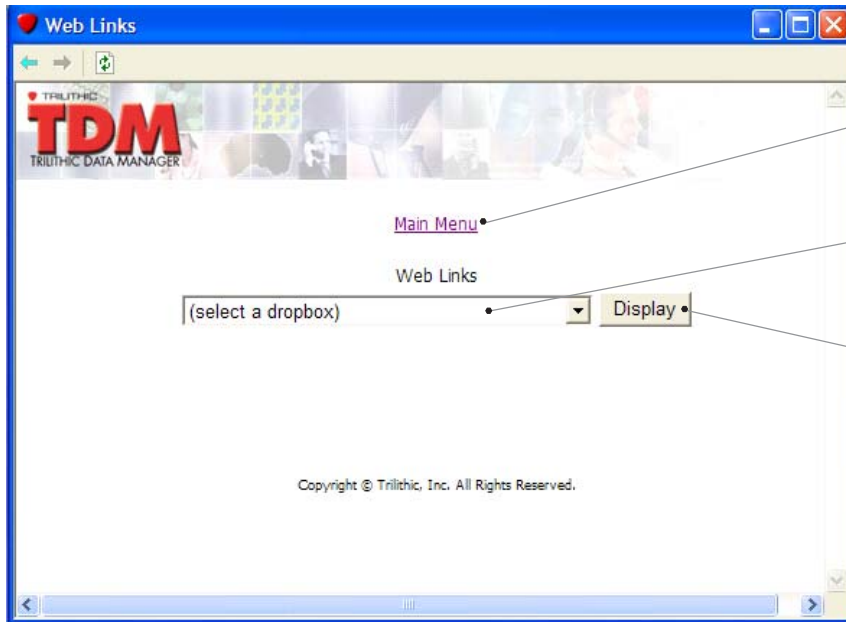
- 1 Type in the **Extension**.
- 2 Type in the **Description**.
- 3 Click on the **Add** button.

Click on either **Previous** or **Next** to move back and forth in the list of field data file types.

Web Links

Use this menu to:

Add or delete Web links (for search engines, vendor websites, intranet sites, etc.) that can be accessed by the 860 DSPs in the TDM network. You can assign links globally, by workgroup, or by individual 860 DSP.

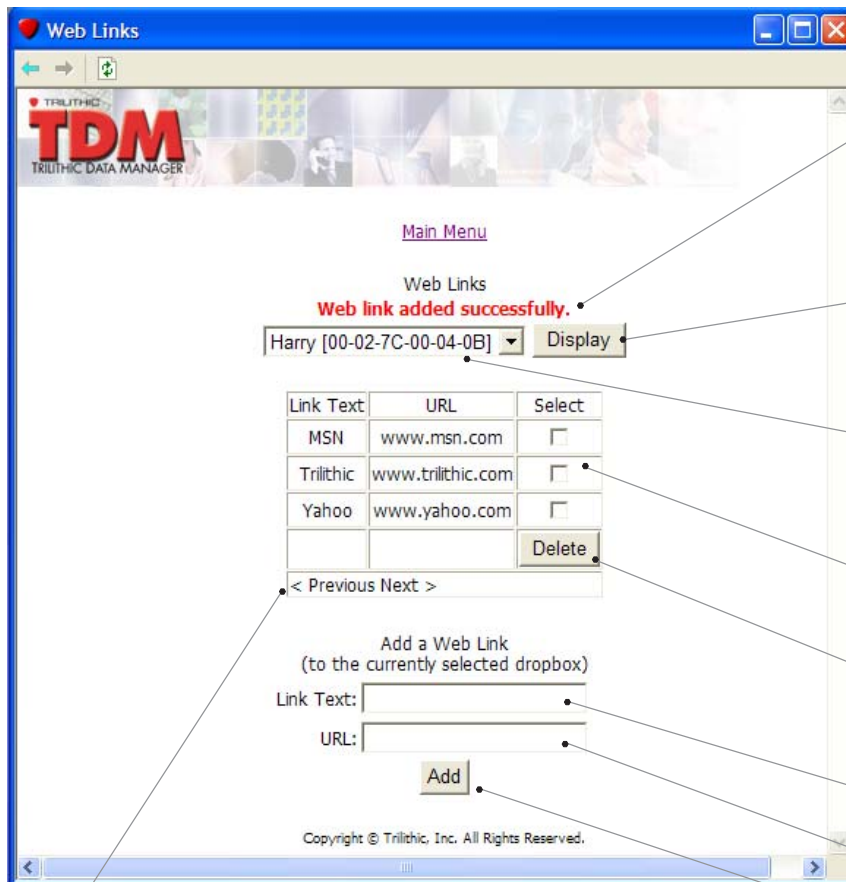


Click here to return to the **Main Menu**.

Select a dropbox from the dropdown list.

Click on the **Display** button to refresh this screen.

Once you select a dropbox you will see this screen:



A status message will appear here to let you know whether the action you have just taken is successful.

Press **Display** to refresh this screen.

To choose another dropbox:

- 1 Select the appropriate dropbox from the dropdown list.

To delete a web link:

- 1 Select the unwanted web link by putting a check in the box.

- 2 Click on the **Delete** button.

To add a new web link:

- 1 Type in the web link's name.

- 2 Type in the URL.

- 3 Click on the **Add** button.

Click on either **Previous** or **Next** to move back and forth in the list of web links.

860 DSP Details

Use this menu to:

Read details about any 860 DSP in your TDM network.

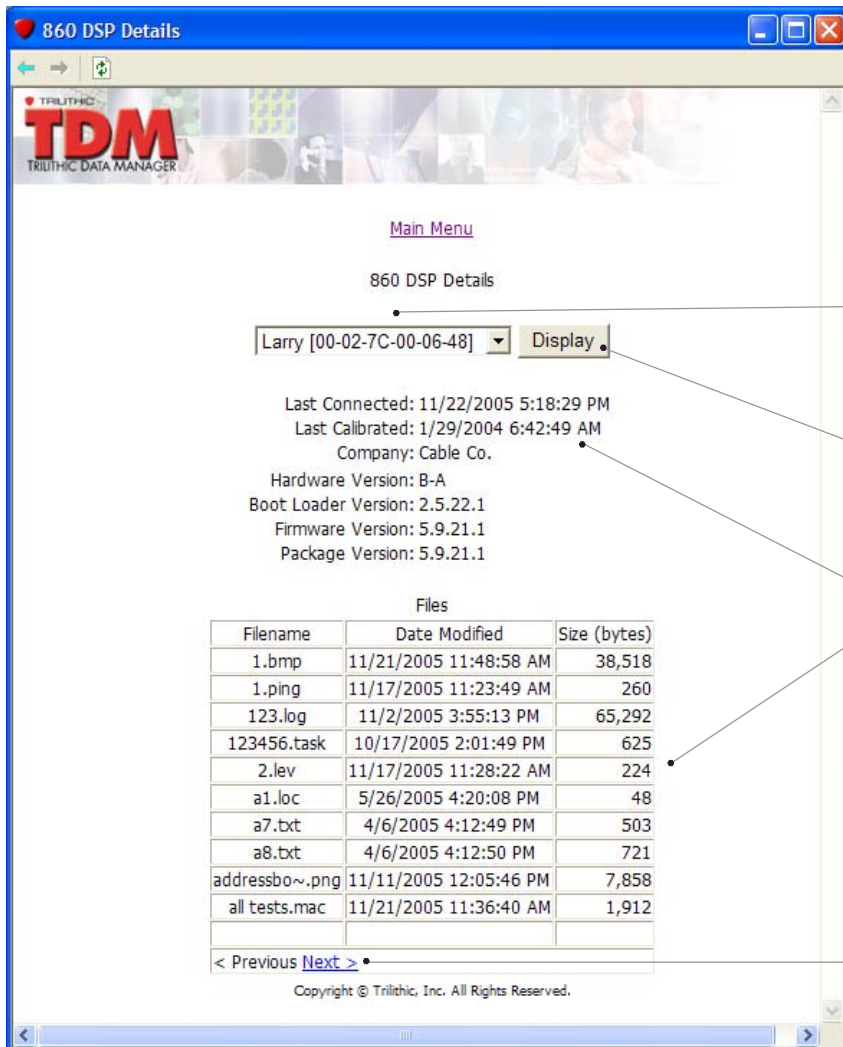


Click here to return to the **Main Menu**.

Select an 860 DSP from the dropdown list.

Click on the **Display** button to refresh this screen.

Once you select an 860 DSP you will see this screen:



To choose another 860 DSP's details to view:

1 Select the appropriate 860 DSP from the dropdown list.

Click on the **Display** button to refresh this screen.

This information is current as of the time this 860 DSP last connected to TDM.

Click on either **Previous** or **Next** to move back and forth in the list of 860 DSP files.

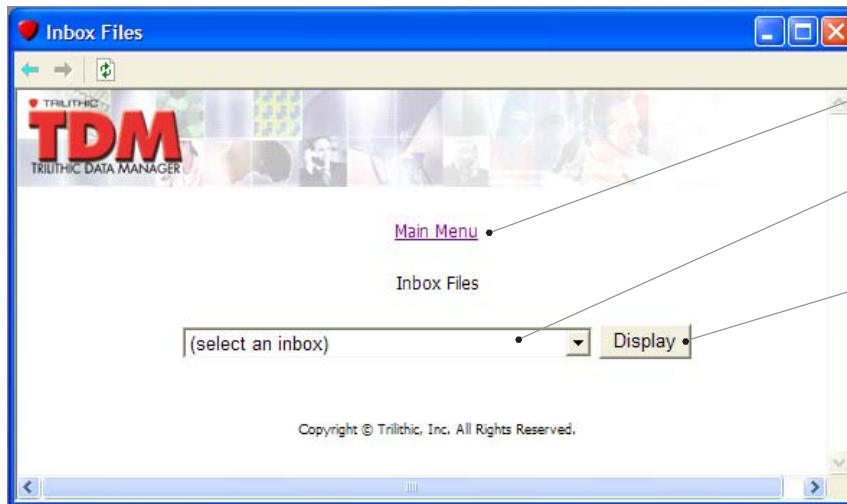
Inboxes

When to use this menu:

This menu provides an alternate way to view the contents of your TDM Inbox and should only be used if WorkBench is not available. Use this menu to view, download and delete files from your TDM Inboxes. Changes made in the Inbox will be reflected in WorkBench.

What is an inbox?

The TDM Inbox contains data logs that have been received from an 860 DSP. Data logs imported from the TDM Inbox go into the WorkBench database.

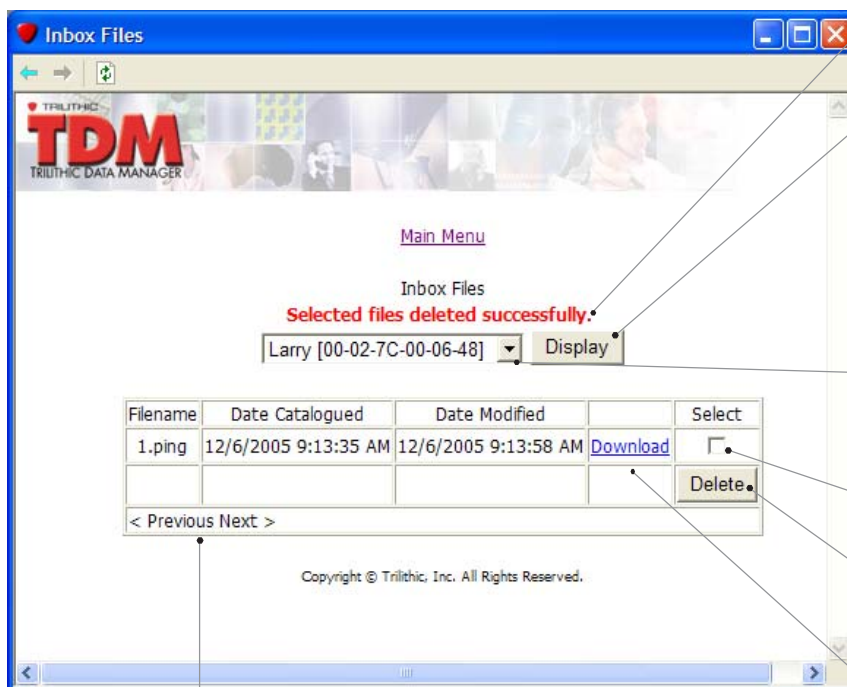


Click here to return to the **Main Menu**.

Select an inbox from the dropdown list.

Click on the **Display** button to refresh this screen.

Once you select an inbox you will see this screen:



A status message will appear here to let you know whether the action you have just taken is successful.

Press **Display** to refresh this screen.

To choose another inbox:

- 1 Select the appropriate Inbox from the dropdown list.

To delete a file from an inbox:

- 1 Choose the unwanted file by selecting its checkbox.
- 2 Click on the **Delete** button.

To download a file from an inbox:

- 1 Click on the **Download** link by the file.

Note: Only a copy of the file will be downloaded. Using TDM Administration to download a file from an inbox does not delete it from that inbox.

Click on either **Previous** or **Next** to move back and forth in the list of inbox files.

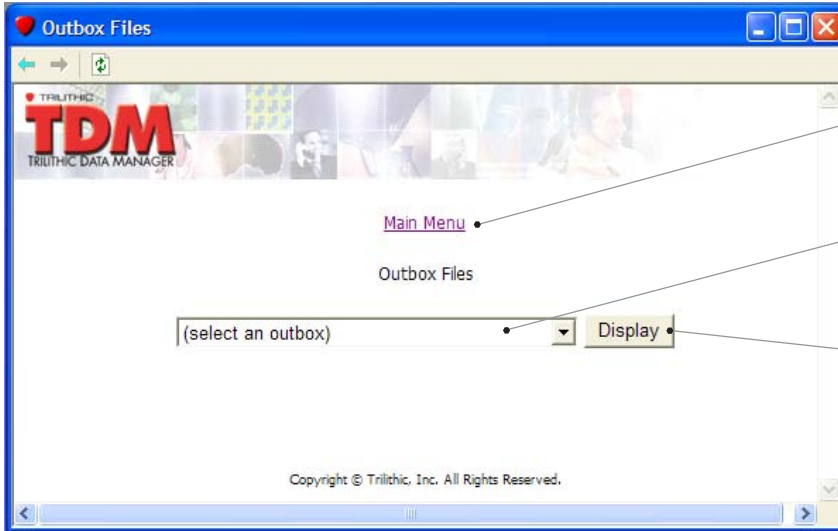
Outboxes

When to use this menu:

This menu provides an alternate way to view the contents of your TDM Outbox and should only be used if WorkBench is not available. Use this menu to view, upload and delete files from your Outboxes. Files added to or deleted from the Outbox will be reflected in WorkBench.

What is an outbox?

The TDM Outbox houses the Global outbox, workgroup outboxes and individual 860 DSP outboxes. An outbox stores the data that will be sent to its respective 860 DSP. Among the data types that can be stored in outboxes are firmware upgrades, updated channel plans, locations, macros, tasks (work orders) and device configurations.

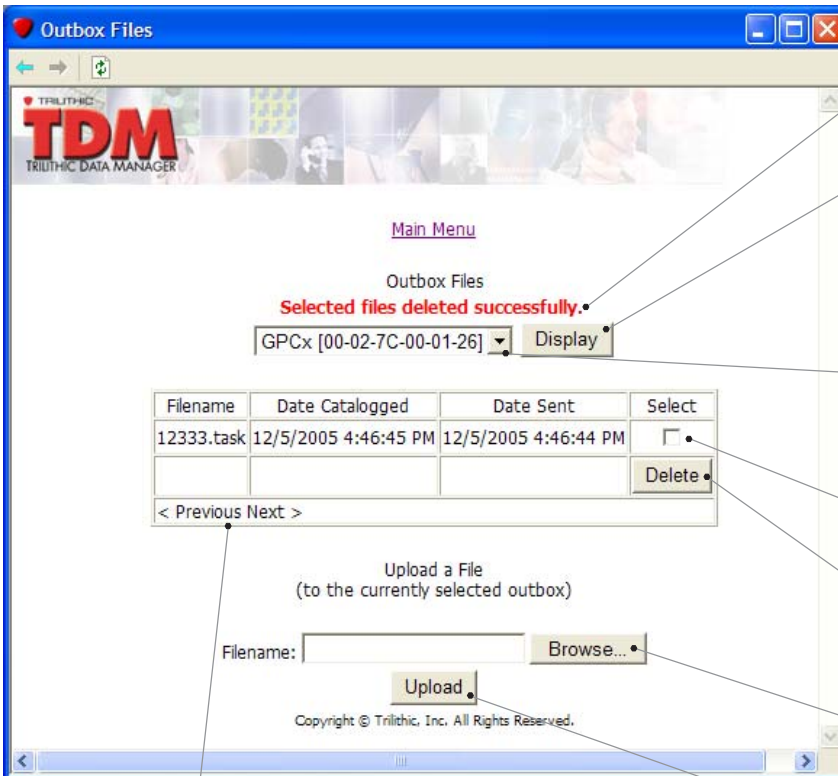


Click here to return to the **Main Menu**.

Select an outbox from the dropdown list.

Click on the **Display** button to refresh this screen.

Once you select an outbox you will see this screen:



A status message will appear here to let you know whether the action you have just taken is successful.

Press **Display** to refresh this screen.

To choose another outbox:

- 1 Select the appropriate Outbox from the dropdown list.

To delete a file from an outbox:

- 1 Choose the unwanted file by selecting its checkbox.
- 2 Click on the **Delete** button.

To upload a file to an outbox:

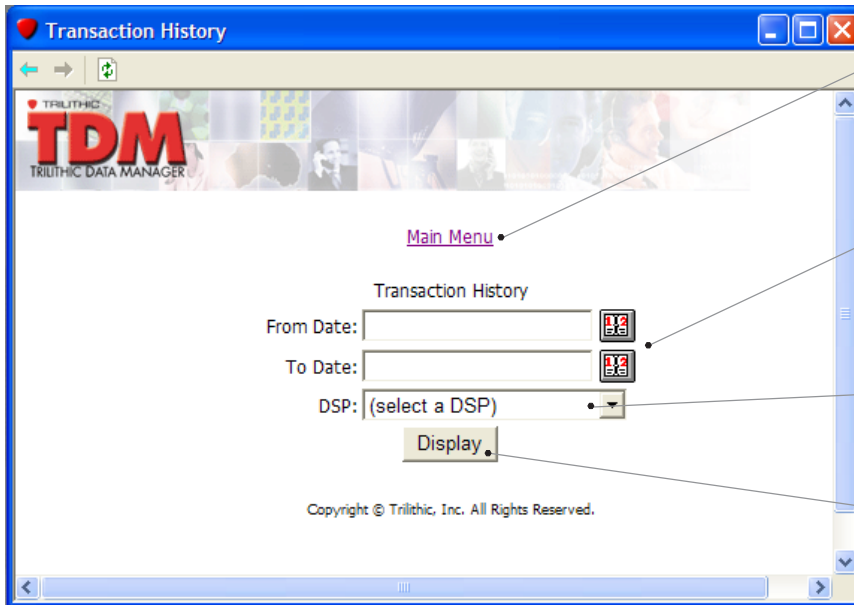
- 1 Choose the file by selecting the **Browse...** button and then locating the file and selecting it.
- 2 Click on the **Upload** button.

Click on either **Previous** or **Next** to move back and forth in the list of outbox files.

Transaction History

Use this menu to:

View date specific activity including file transfers and account maintenance.



Click here to return to the **Main Menu**.

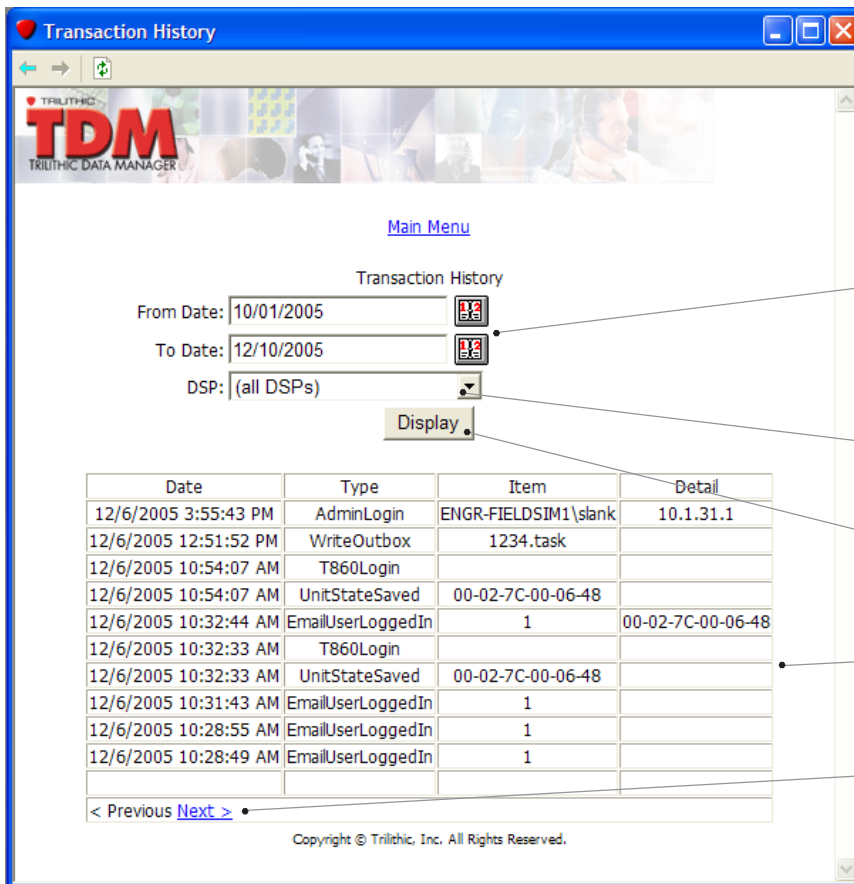
To view a specific 860 DSP's transaction history:

1 Choose a date range you'd like to view. Click on each calendar icon and select a starting (**From Date:**) and ending (**To Date:**) date.

2 Select a DSP from the dropdown list.

Click on the **Display** button to refresh this screen.

Once you select a date range and an 860 DSP you will see this screen:



To view the transaction history for a different set of dates:

1 Choose a date range you'd like to view. Click on each calendar icon and select a starting (**From Date:**) and ending (**To Date:**) date.

2 Select a DSP from the dropdown list.

Click on the **Display** button to refresh this screen.

Transaction history

Click on either **Previous** or **Next** to move back and forth in the list of transactions.

E-Mail Site Configuration

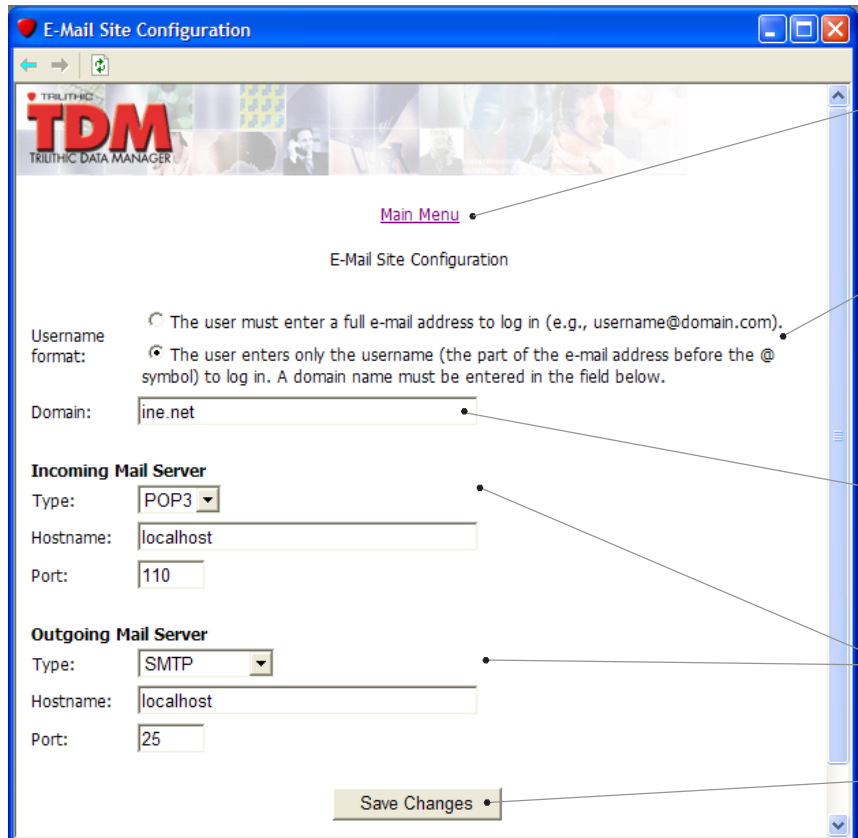
Use this menu to:

Configure TDM to communicate with the mail server(s) used to send and receive e-mail.

Important:

TDM does not come with e-mail server software. It provides a Web interface that allows your 860 DSP to interface with an e-mail server. These instructions assume that you have already installed your own e-mail server that is accessible by the TDM server software.

For details on what ports and protocols can be used by TDM, please consult the **TDM Port and Protocol Usage** diagram in the first chapter of this operation manual. Also see the **Minimum System Requirements** section in the first chapter for required e-mail server specifications.



The screenshot shows the 'E-Mail Site Configuration' web interface. At the top left is the TDM logo (TRILITHIC DATA MANAGER). Below it is a 'Main Menu' link. The main content area is titled 'E-Mail Site Configuration' and contains the following fields:

- Username format:** Two radio button options: 'The user must enter a full e-mail address to log in (e.g., username@domain.com).' (unselected) and 'The user enters only the username (the part of the e-mail address before the @ symbol) to log in. A domain name must be entered in the field below.' (selected).
- Domain:** A text input field containing 'jine.net'.
- Incoming Mail Server:**
 - Type: A dropdown menu set to 'POP3'.
 - Hostname: A text input field containing 'localhost'.
 - Port: A text input field containing '110'.
- Outgoing Mail Server:**
 - Type: A dropdown menu set to 'SMTP'.
 - Hostname: A text input field containing 'localhost'.
 - Port: A text input field containing '25'.
- Save Changes:** A button at the bottom right.

Numbered callouts (1-4) point to specific elements:

- Points to the 'Main Menu' link.
- Points to the selected radio button for 'The user enters only the username...'.
- Points to the 'Domain' text input field.
- Points to the 'Save Changes' button.

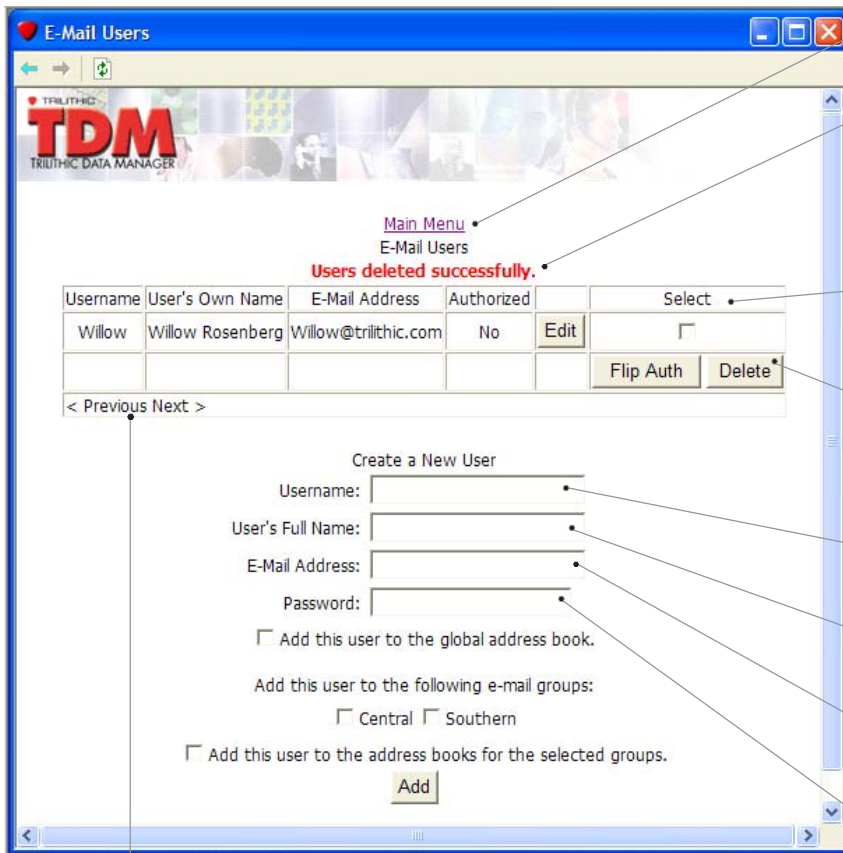
Additional callouts on the right side of the interface:

- Points to the top right corner of the browser window: 'Click here to return to the **Main Menu**.'
- Points to the top of the configuration area: 'To configure TDM to communicate with the e-mail server(s):'

E-Mail Users

Use this menu to:

TDM allows 860 DSPs to send and receive e-mail messages. Use this menu to add, edit or remove e-mail users from the TDM network.



Click here to return to the **Main Menu**.

A status message will appear here to let you know whether the action you have just taken is successful.

To delete an e-mail user:

- 1 Select the appropriate user by putting a check in the correct box under the **Select** column.
- 2 Click on the **Delete** button.

To add an e-mail user:

- 1 Type in the **Username** the person uses to log into the mail server.
- 2 Type in the user's first and last name.
- 3 Type in the user's **E-Mail Address**.
- 4 Type in the user's e-mail **Password**.

Click on either **Previous** or **Next** to move back and forth in the list of e-mail users.

E-Mail Users continued...

E-Mail Users

TRILITHIC
TDM
TRILITHIC DATA MANAGER

[Main Menu](#)
E-Mail Users

Users deleted successfully.

Username	User's Own Name	E-Mail Address	Authorized		Select
Willow	Willow Rosenberg	Willow@trilithic.com	No	<input type="button" value="Edit"/>	<input type="checkbox"/>
				<input type="button" value="Flip Auth"/>	<input type="button" value="Delete"/>

< Previous Next >

Create a New User

Username:

User's Full Name:

E-Mail Address:

Password:

Add this user to the global address book.

Add this user to the following e-mail groups:

Central Southern

Add this user to the address books for the selected groups.

5 Place a check here to automatically add this user to the global address book.

6 Choose the e-mail group(s) you'd like to add the user to by putting a check in the box next to the appropriate group name.

7 Place a check here to automatically add this user to the address books for the e-mail groups you selected in step 6.

8 Click on **Add**.

E-Mail Users

TRILITHIC
TDM
TRILITHIC DATA MANAGER

[Main Menu](#)
E-Mail Users

Users deleted successfully.

Username	User's Own Name	E-Mail Address	Authorized		Select
Willow	Willow Rosenberg	Willow@trilithic.com	No	<input type="button" value="Edit"/>	<input type="checkbox"/>
				<input type="button" value="Flip Auth"/>	<input type="button" value="Delete"/>

< Previous Next >

Create a New User

Username:

User's Full Name:

E-Mail Address:

Password:

Add this user to the global address book.

Add this user to the following e-mail groups:

Central Southern

Add this user to the address books for the selected groups.

To authorize/unauthorize an e-mail user:

1 Select the appropriate user by putting a check in the correct box under the **Select** column.

2 Click on the **Flip Auth** button.

E-Mail Users continued...

TDM
TRI LITHIC DATA MANAGER

[Main Menu](#)
E-Mail Users

To edit user Willow, scroll to the Edit User section below.

Username	User's Own Name	E-Mail Address	Authorized		Select
Willow	Willow Rosenberg	Willow@trilithic.com	No	<input type="button" value="Edit"/>	<input type="checkbox"/>
				<input type="button" value="Flip Auth"/>	<input type="button" value="Delete"/>

< Previous Next >

Edit User: Willow

Username:

User's Full Name:

E-Mail Address:

New Password (leave blank to keep current password):

This user is a member of the following groups:

Central Southern

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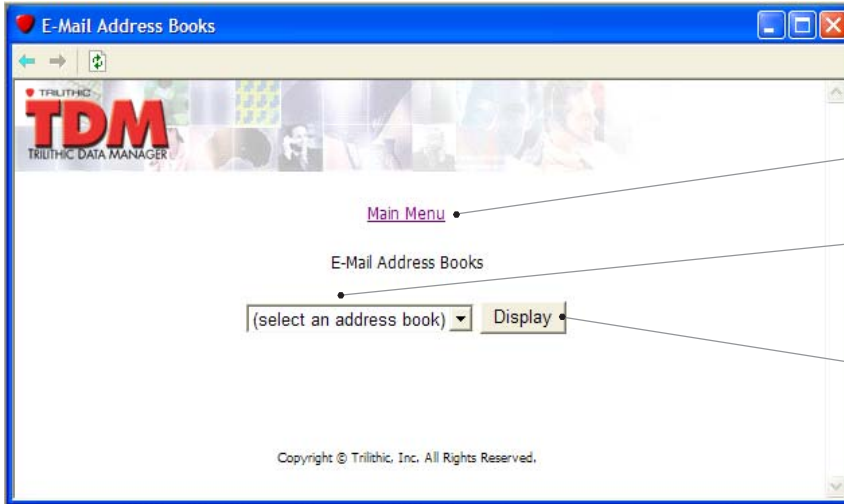
To edit an e-mail user:

- 1 Click on the **Edit** button for the appropriate e-mail user.
- 2 Edit the properties as necessary. You may need to scroll down to reach the editing section.
- 3 Click on **Save**.

E-Mail Address Books

Use this menu to:

Setup address books for individual users, groups and also for global use.

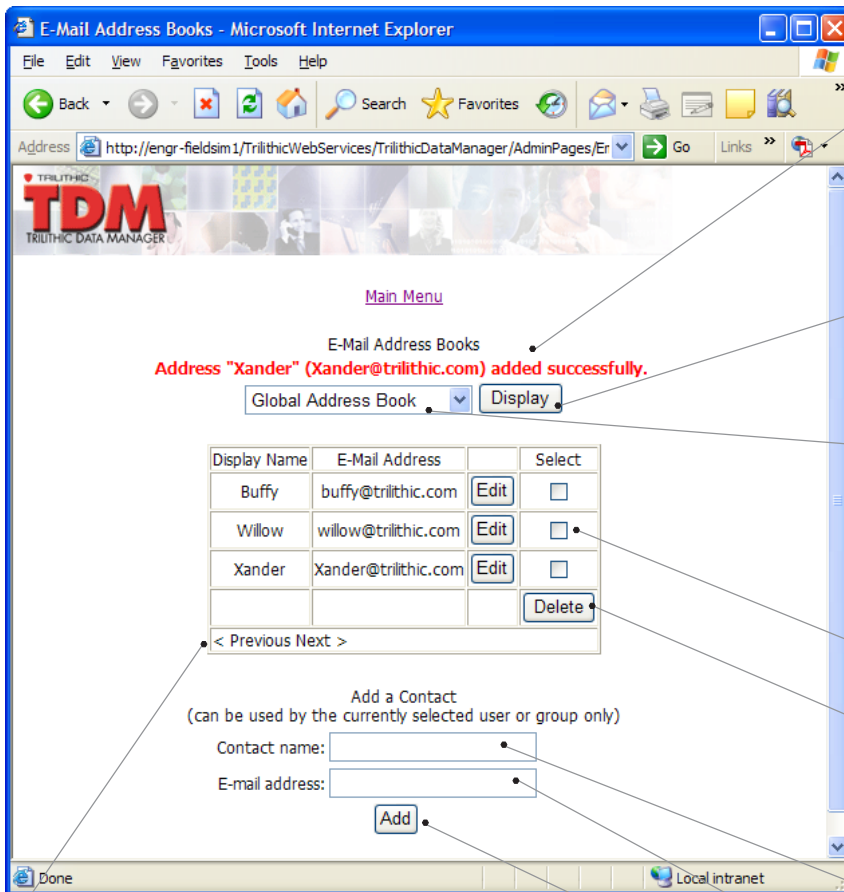


Click here to return to the **Main Menu**.

Select an e-mail address book from the dropdown list.

Click on the **Display** button to refresh this screen.

Once you select an address book you will see this screen:



A status message will appear here to let you know whether the action you have just taken is successful.

Press **Display** to refresh this screen.

To choose another e-mail address book:

- 1 Select the appropriate e-mail address book from the dropdown list.

To delete a member from an e-mail address book:

- 1 Place a check in the box next to the member you want to remove.
- 2 Click on the **Delete** button.

To add a new member to an e-mail address book:

- 1 Type in the name you want displayed.
- 2 Type in the **E-mail address**.
- 3 Click on the **Add** button.

Click on either **Previous** or **Next** to move back and forth in the list of e-mail addresses.

E-Mail Address Books continued...

E-Mail Address Books

TRILITHIC
TDM
TRILITHIC DATA MANAGER

[Main Menu](#)

E-Mail Address Books

To edit address "Buffy" (buffy@trilithic.com), scroll to the Edit Address section below.

Global Address Book

Display Name	E-Mail Address	Edit	Select
Buffy	buffy@trilithic.com	Edit	<input type="checkbox"/>
Willow	willow@trilithic.com	Edit	<input type="checkbox"/>
Xander	Xander@trilithic.com	Edit	<input type="checkbox"/>
			Delete

< Previous Next >

Edit Contact: "Buffy" (buffy@trilithic.com)
(can be used by the currently selected user or group only)

Contact name:

E-mail address:

To edit an e-mail address within an address book:

- 1 Click on the **Edit** button for the appropriate e-mail address.
- 2 Edit the properties as necessary. You may need to scroll down to reach the editing section.
- 3 Click on **Save**.

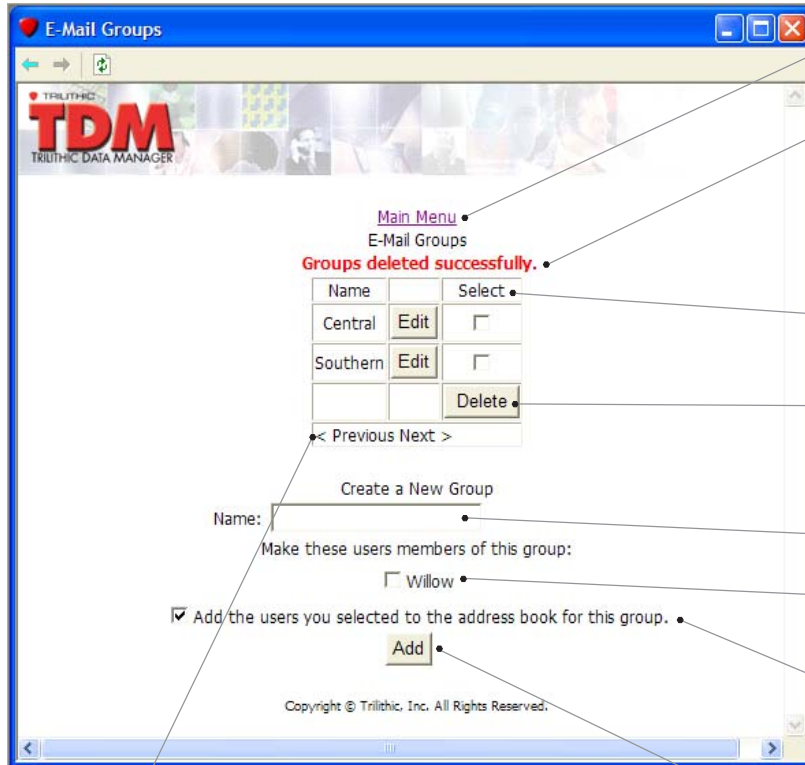
E-Mail Groups

Use this menu to:

Add or delete e-mail groups or add or delete individual e-mail users from an e-mail group.

What is an e-mail group?

E-mail groups are a way to classify e-mail users. For example, you can create one e-mail group for maintenance technicians and another for installation technicians.



Click here to return to the **Main Menu**.

A status message will appear here to let you know whether the action you have just taken is successful.

To delete an e-mail group:

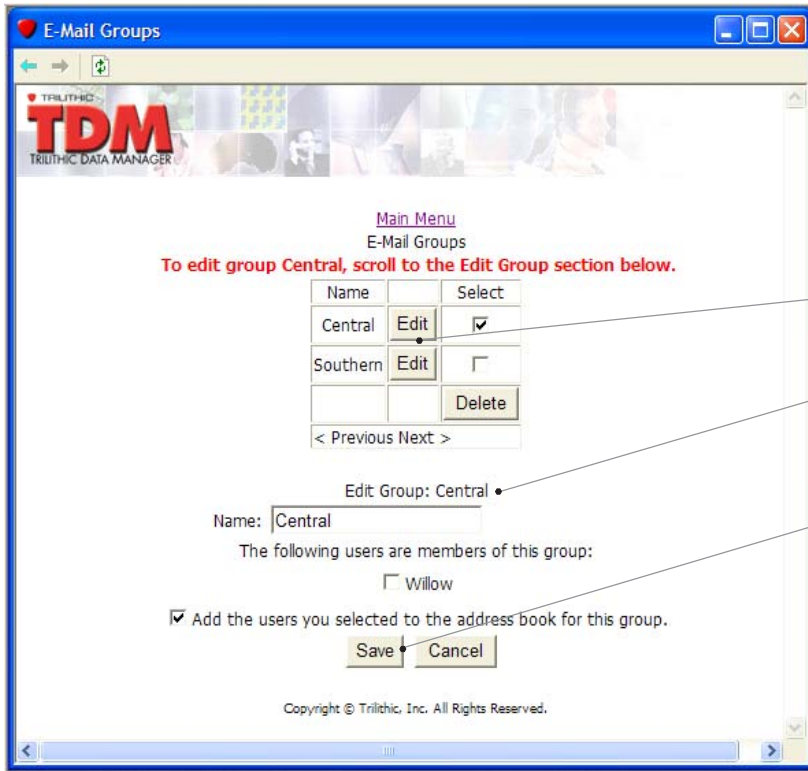
- 1 Place a check in the box next to the e-mail group you want to remove.
- 2 Click on the **Delete** button.

To create a new e-mail group:

- 1 Type in the group name.
- 2 Place a check by the users you want to assign to the group.
- 3 Check this box if you want to add the users you selected in step 2 to the e-mail group's address book.
- 4 Click on the **Add** button.

Click on either **Previous** or **Next** to move back and forth in the list of e-mail groups.

E-Mail Groups continued...



To edit an e-mail group:

- 1 Click on the **Edit** button for the appropriate e-mail group.
- 2 Edit the properties as necessary. You may need to scroll down to reach the editing section.
- 3 Click on **Save**.



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