

July, 2010

**NEW!**  
**For All TEC Models**  
**Includes T101, Tec1, Tec1C, Tec1CA Models**  
**With optional Modem.**

# **Tec Basic Secured©** **Non-Network** **Version**

Version 6.0.XXX

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**For All TEC Series Telephone Access Systems**

**All TEC Series**  
**Setup and Maintenance Software**  
**for use in Windows XP/Vista/Win7 Operating**  
**Systems**

**Select Engineered Systems, Inc.**  
**7991 W. 26th Ave.**  
**Hialeah, FL 33016**

SES Part # [SELC6STB](#)

July 2010

**Notice To Windows 95, 98, ME, Win 2K Users**  
**Microsoft has discontinued their support of Windows 95, 98, ME**  
**and Windows 2K.**

**Selcom Secured Version 6 for use in**  
**Windows 95, 98 & ME can no longer be supported .**

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**Tip: If you don't know which version you're running, our manual (page 6)**  
**will walk you through finding out.**

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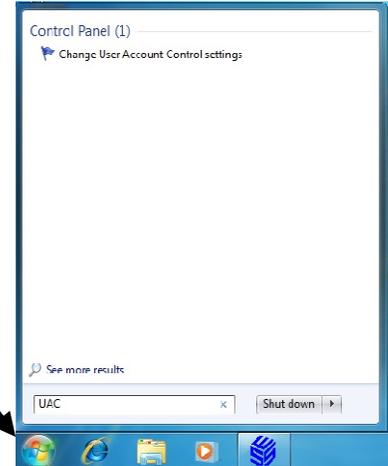
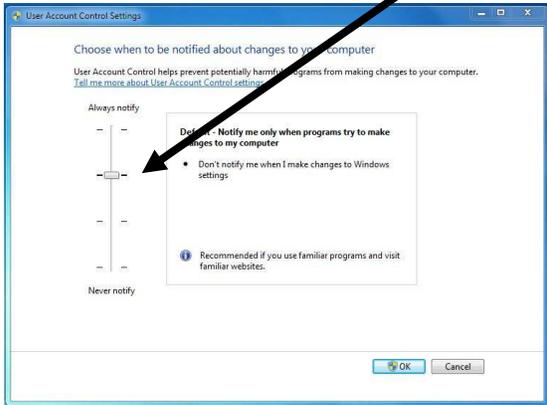
**WARNING : If you are running any custom**  
**or non-compliant Windows software**  
**you should check with your software**  
**provider to insure adding this application**  
**will not affect your other programs !**

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- 1. Do not install unless your Software Version is Windows XP, Vista, or Windows 7.**
- 2. Quit any applications that are currently running.**
- 3. If you are running the Office toolbar, click on the Windows flag and exit the toolbar.**
- 4. If necessary, terminate any Anti-Virus programs.**
- 5. For Windows Vista and Windows 7 users, ensure that User Accounts Controller is active and enabled and administrative privileges are active before installing Selcom software.**  
**SEE NEXT PAGE.**

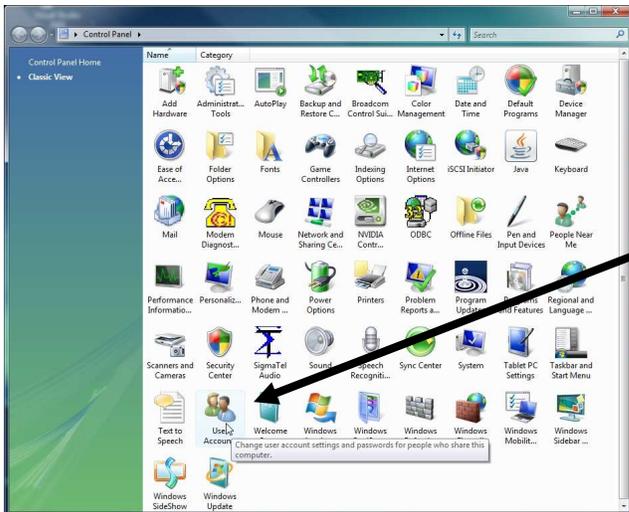
### HOW TO TURN ON USER ACCOUNTS CONTROLLER IN WINDOWS 7:

Click on Windows button in lower left of desktop.  
Type in: "UAC" in the search window.  
Set slider to 3/4 position as shown.



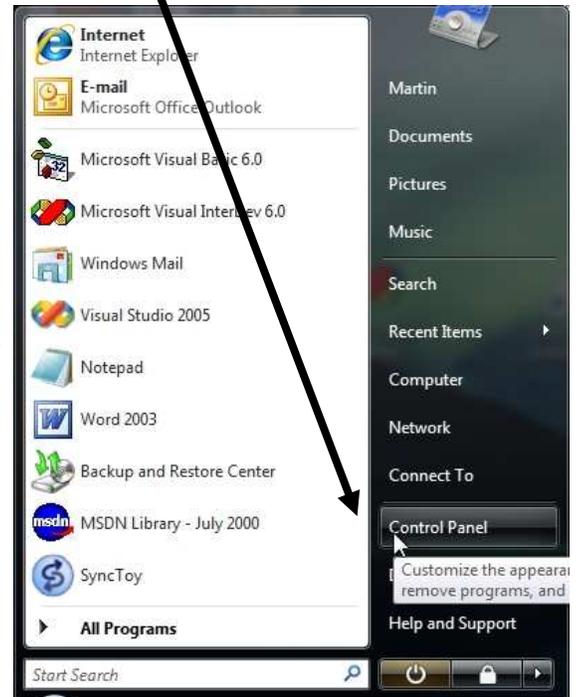
### HOW TO TURN ON USER ACCOUNTS CONTROLLER IN WINDOWS VISTA:

Click on Windows button in lower left of desktop then click on Control Panel icon.



Next, click on User Accounts icon in Control Panel.

Finally, click on "Turn User Account Control on or off" and make certain it is ON.



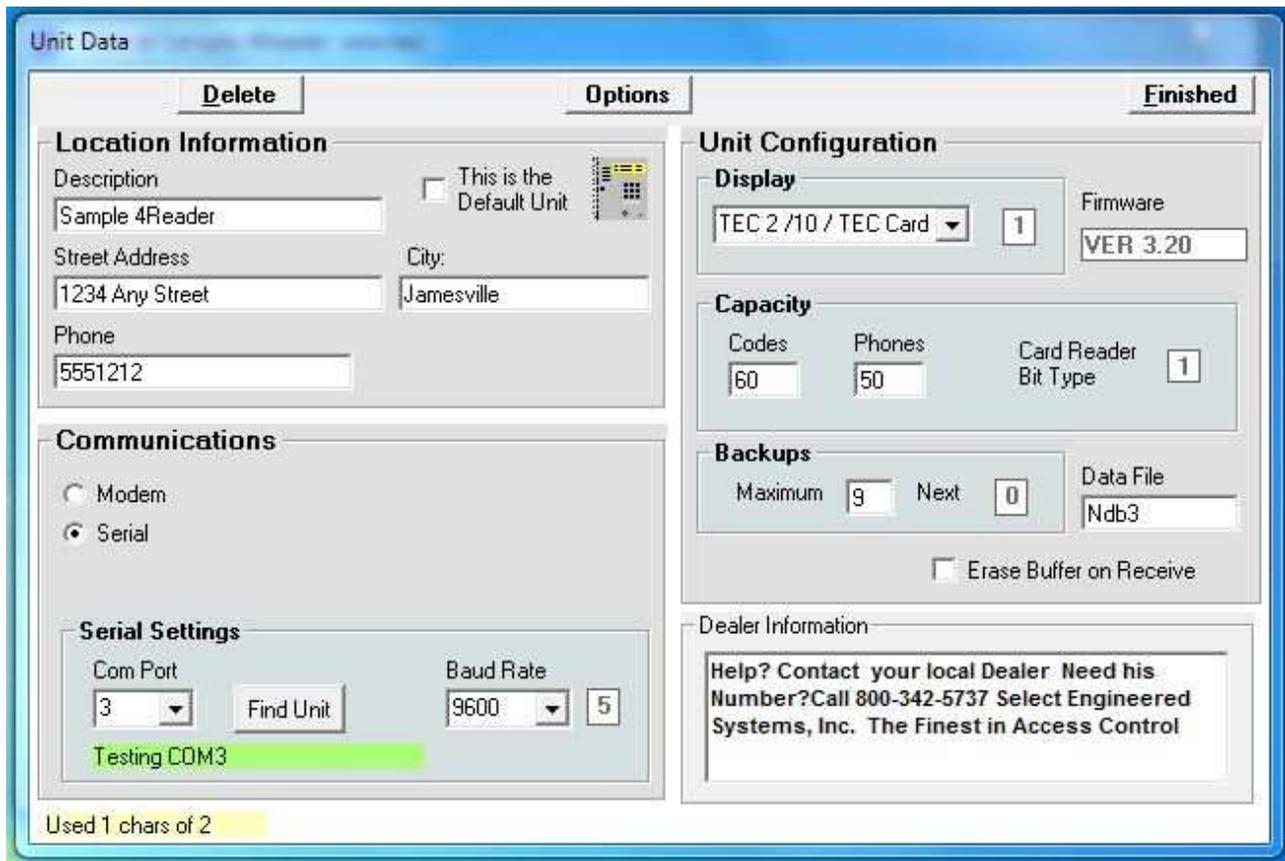
**WARNING:**  
**INSTALLING TECBASIC WITHOUT USER ACCOUNT CONTROL TURNED ON FIRST WILL CAUSE THE PROGRAM TO OPERATE INCORRECTLY.**

# Auto Port Locate Feature

Ver 6.0. Bld 2 and above

Some of our customers have experienced difficulty determining which serial port on their computer is active, in order to communicate with our telephone access units. In order to assist our users, a feature has been added to Selcom Tec Basic.

An Auto Port Locate function has been added to the Unit Data Screen. Click on the Find Unit tab and it will display: Testing Com Ports—Please Wait . . .



If a Com Port attached to a Tec unit is detected it will display the appropriate Com Port number, (as shown below) which can then be selected by the drop-down menu to choose the correct port.

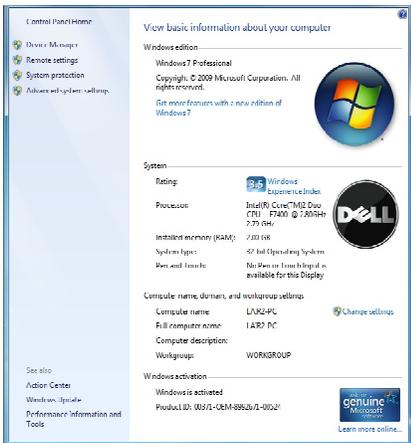


# Tec Basic

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# Tec Basic



System Properties  
 (Screens may appear slightly different with different versions of Windows.)



## 1) Installation Screen



## 2) Select Installation Type



## 3) Setup Wizard Screen

# Tec Basic System Requirements

## Operating System:

Windows XP (Home or Professional) Service Pack 3  
 Windows Vista (All editions) Service Pack 2  
 Windows 7 (32 or 64 bits, All editions)

## Hardware:

### Computer

> Pentium 4 Recommended

### System RAM or Total Memory

128 Mb. Recommended

### Available Space or Hard Disk Storage Required

20000 KB or 20 Mb.  
 plus 2 - 15 Mb. per site

### Installation Drive

CD-ROM "R" Reader for installation of Software

## System Requirements to install this Software

This program requires 20.0 megabytes of hard disk and includes 12 megabytes of system files that may need to be installed. You therefore need a minimum 32 megabytes of space to install this program for one site. Additional sites require 2 to 20Mb. per site, depending on site size and the amount of backups used. **During operation, Tec Basic will require up to 32mb. of free ram to operate efficiently depending on the size and model of the unit .**

**With less memory the program may operate, but with poor performance. 128 MB of RAM is recommended.**

This program will only operate correctly in Windows 2000, Windows XP and Windows Vista (all editions). If you are unsure, select the "My Computer icon on your desktop and **RIGHT** click it. Once the panel is opened, select Properties and **LEFT** Click it. A "Systems Properties" screen will open and under System:, it must say:

**Windows XP (Home or Professional)**  
**Windows XP (Professional w/SP-2)**  
**Windows Vista (all editions)**

If it does not, contact Microsoft or your local computer dealer for a compatible operating system.

## Tec Basic Installation Instructions

Setup will warn you to Shutdown any running programs. **You MUST shutdown “Microsoft Office” as it will disrupt the installation.**

If you are running the “Office Toolbar”, you **MUST** close the **Office Toolbar** and all it’s applications and you should close any other applications running to insure a proper installation. You may or may not, have to turn anti-virus programs also.

(Installation screens start on page 6.)

Once you have checked that you have the proper Revision, place the CD ROM disk into your CD-ROM Drive.

Versions of **Tec Basic** are **isolated** and **protected**.

### **Isolation:**

Tec Basic has been **rewritten** into a **Tec Basic** version that **allows** Microsoft **library files** it uses to be **isolated** for it's own use and **not shared** with other applications.

### **Protected:**

When the Tec Basic program is activated **Library files** that may have been deleted, changed manually or damaged by a virus are **restored automatically** by the computer system, when possible, or the Tec Basic installation CD will be automatically asked for by name so the computer can reinstall damaged or deleted files.

Setup will warn you to Shutdown any running programs. **You MUST shutdown “Microsoft Office” as it will disrupt the installation.**

If you are running the “Office Toolbar”, you **MUST** close the **Office Toolbar** and all it’s applications and you should close any other applications running to insure a proper installation. You may or may not, have to turn anti-virus programs also.

**If your main files (Windows Installer) are out of date, setup may prompt you to restart your computer. After doing so, start setup again.**

Confirm the proper location.

Tec Basic setup has a standard location for its files, but will give you the chance to choose another location and name of the directory, then will install the program. It is recommended to let the program install into it’s default location, so any update installs properly.

Tec Basic uses a “Completion Gauge” to indicate the percentage of the installation completed.

If files in your computer are damaged, setup will inform you of the fact, and abort the installation.

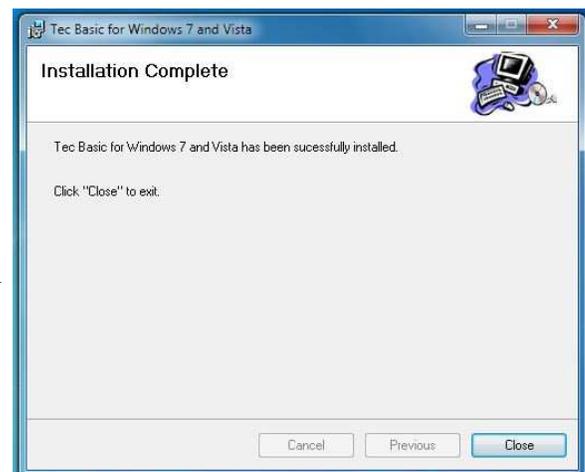
At the end of the installation, Setup will indicate a complete and proper Installation.



### 4) Choose Directory



### 5) Installing.....



### 6) Complete.

# Tec Basic

Double-clicking on the desktop icon will show the startup “splash” page.



To disable startup splash screen, check the check box as shown.



**Interested in our other products?** Selecting “Go To SES Manuals Web Site” will take you to our web site manuals page. You must have an internet connection available for this feature to function.

If you have questions about the operation of the Tec Basic Software during operation, you may select the “View Software Manual” from the “View” Menu. You must install “Adobe Reader™” for this feature to function.



A RAM (Random Access Memory) memory usage indicator has been added to the Main Page and the communication pages. If the indicator turns yellow you should not start any additional programs. If the indicator turns red, you should not attempt to communicate with any of your telephone access units. If the memory indicator shows insufficient memory to operate, the program will stop. As this may occur during transmission, you should not attempt to communicate, when your memory usage is high. (Bar is yellow, or red.) Other applications may have to be stopped to free up RAM. The absolute value will vary from computer to computer.

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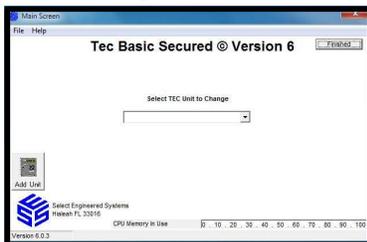
# Tec Basic



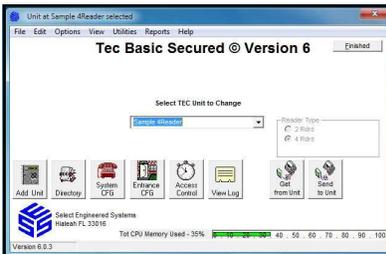
Start-up Screen



Login Screen



Main Screen after Startup Showing Pull-Down menu available without any Site Selection made



Main Screen w / Sample selected



Main Screen w/Multiple Unit Selected

Showing Command Buttons and Menu's available after Site Selection is made.

## Startup and Operation

Tec Basic software is only for use with TEC Units with a modem, NIC, or serial card installed.

### Startup

Tec Basic places a menu selection in your Startup Directory. Select and the Log-in will appear. Tec Basic is shipped from the factory with the Name "selcom" and the Password "selcom" (**Note lower case**) installed in the password database. Type this name and password in exactly and the main menu will appear.

### Help

Help is provided for each item. To use, place the mouse pointer over the item you need assistance with and a description or instructions will appear on the screen automatically. This feature is provided on all screens.

### Main Menu

The Main Screen appears blank with only several selections possible.

- ⇒ Select TEC Unit to Edit / Change [**Window**]
- ⇒ The Following **Menus**
- ⇒ **File**
- ⇒ Edit TEC Unit Data
- ⇒ Add TEC Unit (Wizard)
- ⇒ Exit
- ⇒ **Help**
- ⇒ About Tec Basic
- ⇒ Show Splash
- ⇒ Add Unit [**Button**] (Wizard) (if allowed by password level)

Tec Basic is shipped with a set of example Units available to allow you to view and learn this program. You may wish to start with selecting this Unit and using it to explore the features of Tec Basic. These instructions are written using "Sample- 4Reader" as its example. If you wish to start by setting up your unit, go to the section of these instructions for the "Add TEC Unit (Wizard)". Or continue by selecting "Sample - 4Reader" in the center selecting window. As you add your Unit(s) this selector will expand to show all units installed in the software in alphabetical order for your convenience. There is no limit to the number of TEC units allowed, except the physical capacity of your computer.

Each unit installed uses about two to fifteen megabytes of storage space depending on the size of the unit and the number of backups used. After the selection is made, "Command Buttons" will appear and the menu system will

expand to include the features ALLOWED by the authority level set to each Name/Password. Name/Password “selcom” is provided with FULL authority. You may delete this Name/Password AFTER assigning a new name with FULL authority.

**Login Passwords**

Select the **Login Passwords** in the “Edit “ Menu. The “Password File” Screen will appear showing all the Login Names/Passwords in the system with their authority levels. To add select “Add New User” command button or to Edit a User, Select that name and “double click” it with your mouse button. This will make the screen change to allow editing or deleting of the record. If you erase all names /passwords with the authority level of “1”, the system adds back “selcom” / “selcom” with the authority level of “1” as the only password to prevent you from locking yourself out of the system.

**Authority Levels**

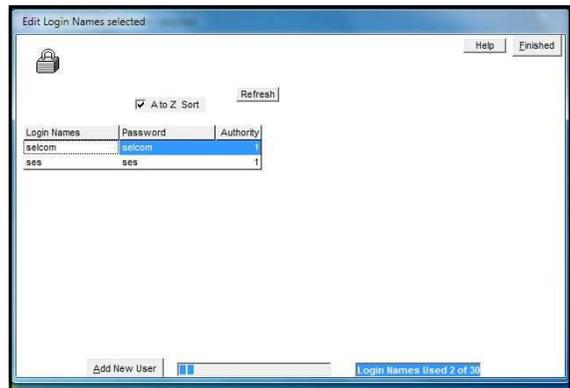
TEC Basic has several levels of authority. This authority system allows the owner to decide what privileges each user will use to operate the system. The levels of privileges are as shown in the adjacent Table.

**Tec Basic Organization**

Tec Basic is organized into logical groups. These groups are distributed as follows:

- ⇒ Login Control & Maintenance
- ⇒ Unit Directory Control
- ⇒ Unit System Configuration
- ⇒ Unit Entrance Control
- ⇒ Unit Configuration

All operations are accessible from the Main Menu Screen. The most used functions are available using the Command Buttons. All operations are available with the Menu System.



View Login Passwords

Showing Password List in Name Order.

Authority Level Settings	Level 1	Level 2	Level 3	Level 4
Rename Files	X			
Use the Add Unit Wizard	X	X		
Edit / Change Passwords	X			
Edit the Unit Data	X			
Use the Entrance Configuration	X	X	X	
Change Data File Name in Unit Data	X			
Use the System Configuration	X	X	X	
Use the Add/ Edit Directory	X	X	X	X
Get All Data	X	X	X	X
Get System Configurations	X	X	X	X
Get Directory	X	X	X	X
Send all Data	X	X	X	
Send System Configuration	X	X	X	

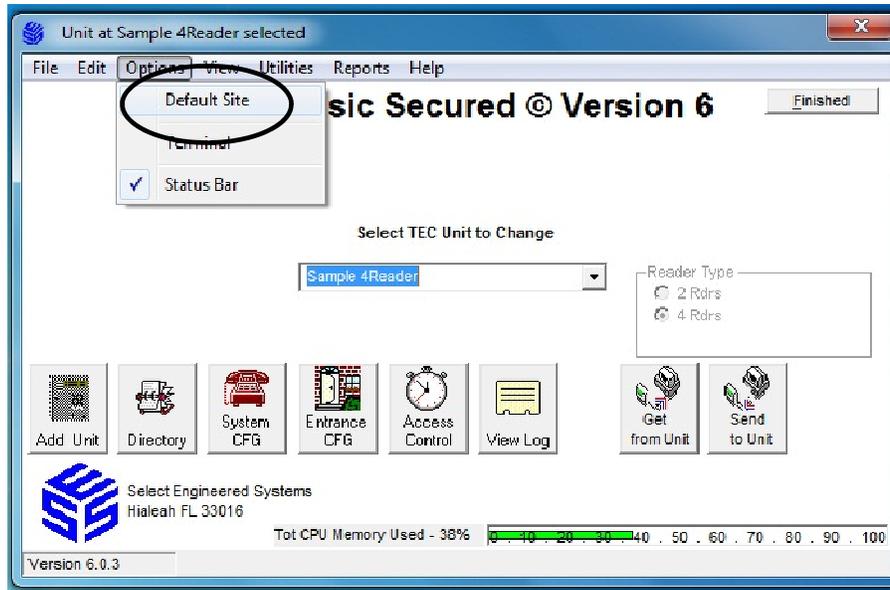


Menu’s available after a Site Selection is made with Level 1 password privileges.

# Tec Basic

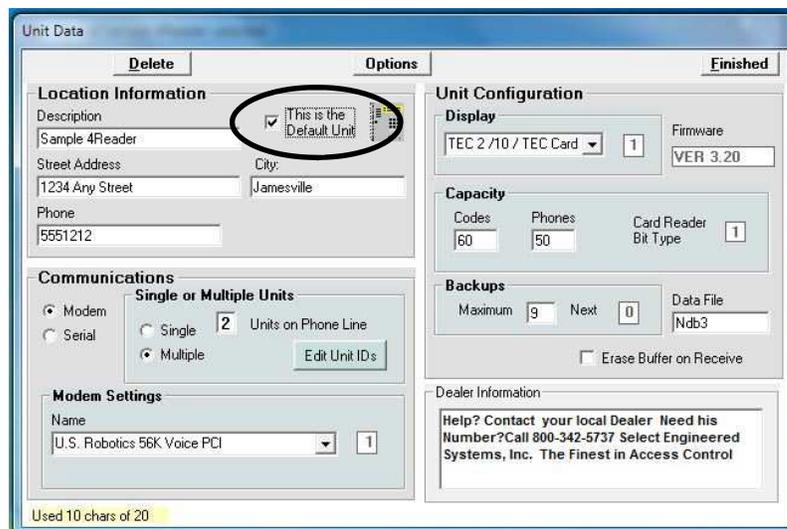
## Setting a Default Unit

Tec Basic has the ability to return to the same unit, every time you start the program. You may turn on this feature by selecting “Default Unit” under the “Options Menu” or by selecting “Default Unit” in the “Options Screen” in the “Edit TEC Unit Data “ screen.



To select the unit you wish to automatically load when the program starts, you must do the following:

1. Select the unit on the main screen
2. Select “File”
3. In the File sub menu select “Edit TEC Unit Data”
4. On the “Unit Data” screen locate and select “This is the Default Unit”
5. Select Finished
6. If the “Default Unit” is selected under the “Options”, the selection will automatically load when you start the software or return from “Edit TEC Unit Data”.
7. You may select other units and work within them without unselecting “Default Unit”. It will only change back when you start the software or return from “Edit TEC Unit Data”.

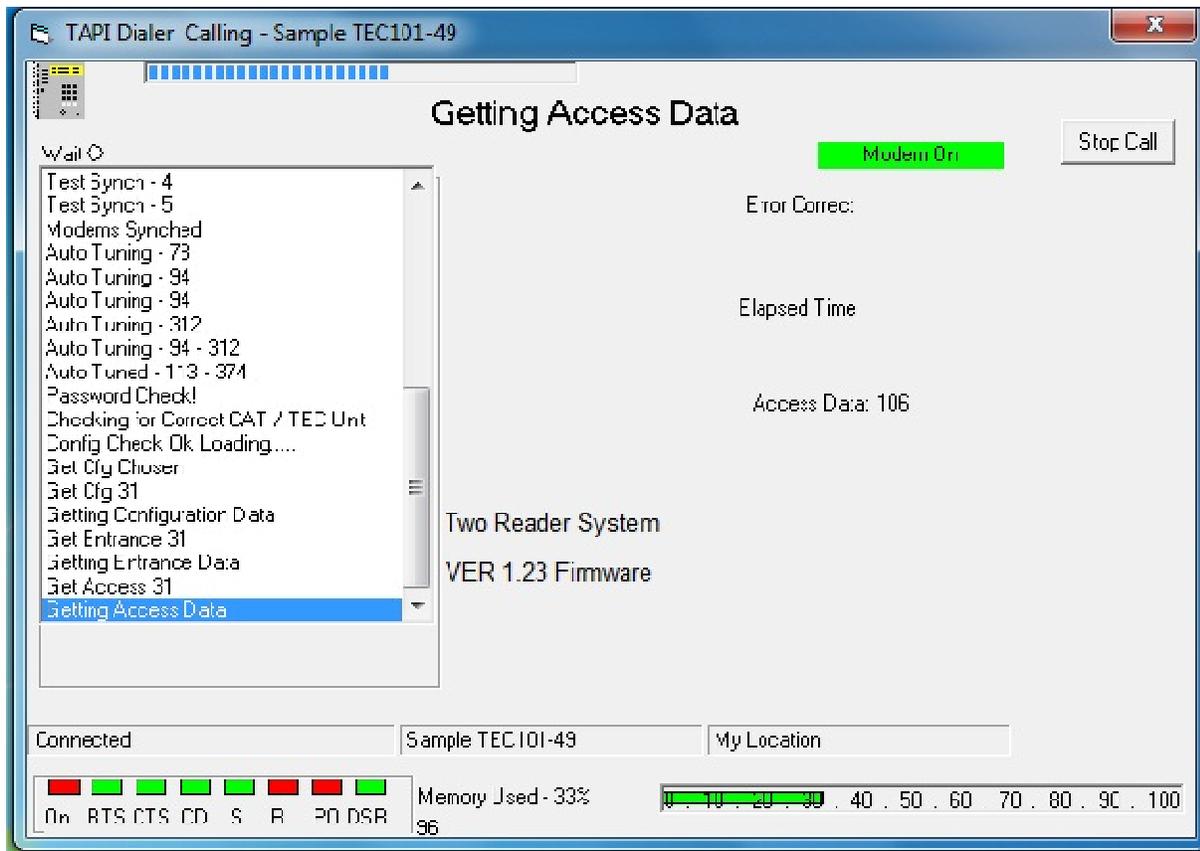


# Auto Tune Feature

Ver 5.2 Bld 184 and above

Some of our customers have experienced difficulty communicating with our telephone access units. We have found a problem to be the use of phone circuits with long delays. In order to assist our users, a feature has been added to TEC Basic.

An Auto Tune function has been added to the Communication module.



Each time, during the Call to the unit, the delay time and connected baud rate is measured. The software then adjusts the communications to these measured rates. There is an indication of this action during the call in the visible call log (above). It shows the tuning process and the resultant adjustments. There is no user input required.

# Tec Basic

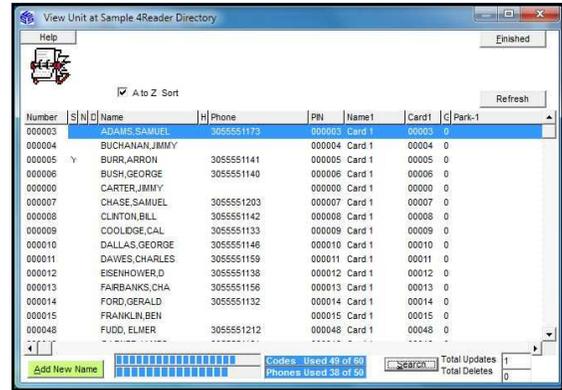
## Unit Directory Control

Tec Basic incorporates a new style Directory view and editing system. Note that the Unit Site name is featured at the top of the screen. This feature is present on each screen to assist the user. The Directory display is in a Columns and Rows format showing ALL codes in the directory. The opening display is sorted in alphabetical order. Additional help is provided by selecting the “Help” Command button. The Elevator bars appear when needed and allow the user to move through the list of names and to view the additional data for each name. The user may use the mouse arrow to single click on any code number or name to highlight that row. This provides a marker on the record chosen to use as the display is moved to the right in order to display the additional data.

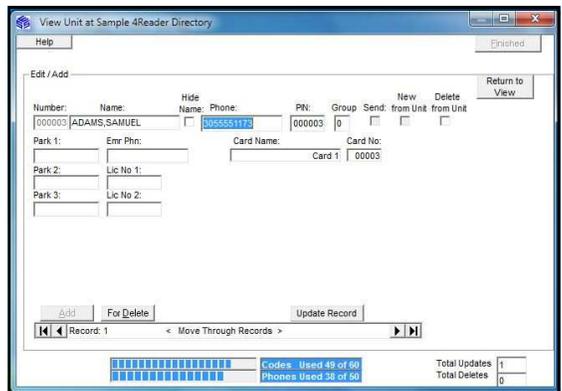
The user may use the mouse pointer to single click on the TOP of any column to SORT the display by that column. If a reverse (Z to A or 9 to 0) order is desired, a check box is provided above the listing. The user should select the direction of sort desired, then select the column to sort by. The user may use the mouse pointer to single click the sort option and it will toggle from normal to reverse and back to normal. Gauges are provided near the bottom of the screen to inform the user of the number of Unit Codes and the number of Phone Numbers in the Directory. This may be used to determine the percentage of the Unit capacity used. In Displays larger than 640 x 480, the user may enlarge the view by dragging the edges of the directory. The number of updates to be sent and the number of deletes (if applicable) are also shown.

- ◆ **NUMBER:** This is the **Code Number** used by the Unit User to dial the Name shown in the Directory. It can be configured to show 1 to 6 digits. Internally it is always stored and used as 6 digits. If set to display three digits, then the number is dialed using the three displayed digits.(123456 is displayed as 456). However, Code (000456) would be dialed. This allows it to appear to allow more than one name to use the same code. Example: Codes 000234, 001234, 011234 and 101234, all would display 234 showing different names with the 234 code number. The 000234 phone number would be dialed. Directory Code Length is set using the “**System CFG**” command button or “**System Configuration**” under the “**Edit**” Menu Selection.

S: (**SEND**) The ‘Send’ field indicates if this name would be updated on a ‘Send Updates’ command. Only the names marked would be sent. When a name is



Unit Directory Spreadsheet View



Unit Directory Edit / Add mode

Directory Limits	
Code Number	1 to 6 Digits
Name	up to 14 Characters
Phone	up to 14 Digits
PIN	1 to 6 Digits
Card Number	5 digits to '65564'

Directory Limits

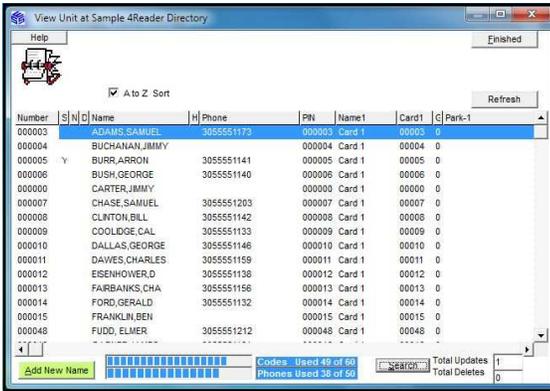
- ◆ selected to edit, the send box is automatically checked.
- ◆ **N: (NEW REC)** The “**New Record**” field shows a “Y” when a Code was received from the unit that did not exist in the database. This will occur when a code is input directly into the unit.
- ◆ **D: (DELETE)** The “**Delete**” field is marked “Y” when this record will be deleted on the next update. **Note: In TEC 101 units, You may reuse the code number at any time, however. See Send Updates on page 33.**
- ◆ **NAME:** This is the **Name** shown on the directory display of the TEC Unit. The user may use up to 14 characters for each name.
- ◆ **H: (HIDE)** Hide inserts a colon in front of the phone number.
- ◆ **PHONE:** This is the phone number the TEC Unit will use to dial the Name shown. The User may use up to 14 digits including commas ‘,’ for pauses if required, to dial the Name. The real telephone number will not show on the unit display
- ◆ **PIN:** The “**Personal Identification Number**” can be configured to use 1 to 6 digits. The “PIN” is used by the Named to open the designated entrance. If set to use four digits, then the number is limited to using the four digits. (001234 is entered and used as 1234). A 5 digit PIN (11234) should not be entered and would not operate. **Note: To re-enter a deleted PIN, You must update the record first.**
- ◆ **CARD NO.:** If optional access cards or devices are used, the individual card or device number assigned to this name is placed here. Card / Device numbers are limited to the numbers 00001 through 65,534 inclusive. Each Card or Device may be labeled or named in the Directory. This information is not stored in the Unit. **Note: To re-enter a Card, You must update the record first.**

**Optional fields:**

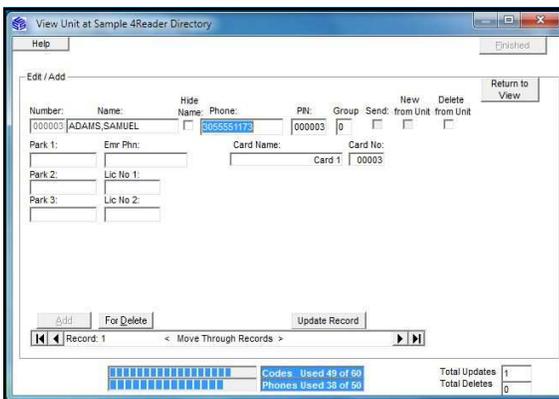
- ◆ **PARK 1, PARK 2**
- ◆ **PARK 3**
- ◆ **EMR PHONE**
- ◆ **LIC NO 1, LIC NO 2**
- ◆ **Optional 1 to 6 (Can be named by the user)**
- ◆ None of the optional fields are sent to the unit. They are for the User’s optional use. The text limits are shown in the aabove Table. **Note: If the “Don’t use Fields” option button is checked in the “Edit TEC Unit Data - Options” screen, for the “Park” or to “Spare”, the fields selected do not show in the directory, but the data is not erased. The names of the individual cards are also hidden, in order to**

<b>*Optional Field Capacities</b>	
<b>PARK 1</b>	<b>9 Characters</b>
<b>PARK 2</b>	<b>9 Characters</b>
<b>PARK 3</b>	<b>9 Characters</b>
<b>EMR PHONE</b>	<b>14 Characters</b>
<b>LIC NO 1</b>	<b>10 Characters</b>
<b>LIC NO 2</b>	<b>10 Characters</b>
<b>Optional Fields with User</b>	<b>defined names</b>
<b>Optional 1 to 6</b>	<b>15 Characters</b>

show a concise view. Checking “Use Spare Fields” and “Use Park Fields” shows all.



Tec Basic Directory in spreadsheet view



Tec Basic Directory in edit record view

Directory Limits	
Code	1 to 6 Digits
Name	up to 14 Char's
Phone	up to 14 Digits
PIN	1 to 6 Digits
Card	1 to 5 digits

Directory Limits

## Entering New Items into the Directory

### Step by step Instructions to enter new items

Tec Basic provides a simple screen to enter new data into the directory. (See Pages 38—39 for a handy work sheet to assist the user in entering the directory.)

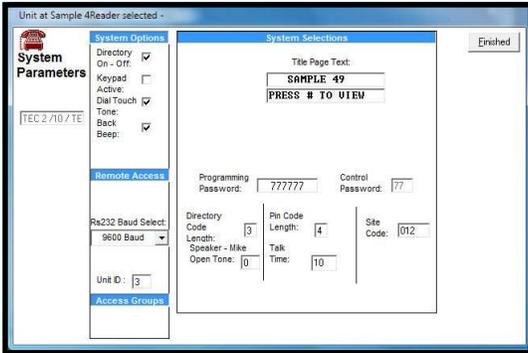
- 1 On the Main Screen, Select or “Click” the **PROPER UNIT** to enter the new items.
- 2 On the Main Screen, Select or “Click” the **Directory** command button. The directory view screen will appear.
- 3 On the Directory screen, Select or “Click” the **Add New Name** command button. The screen will change to the **Edit / Add** view. All of the entries will be blank.
- 4 **Start the entry by entering the Code Number.** If you are using three digit code numbers(for example), you only need to enter the three digits and press the [Tab] key or press [Enter].
- 5 **If the code has been already used,** the screen automatically displays the record and changes to edit mode. You may change any and all items in this record, **except** the code number and the name. When you send updates, this record would be changed, **except** the code number.
- 6 **If the code has not been used,** the screen automatically steps or moves to the name field for entry. **Enter the name before you exit this window** as once entered, the name may not be changed! You may use the [Tab] or [Enter] key to move through the windows and enter the information you require. Only the code number is required in any record. All other fields are optional. When you send updates, this record will be added.
- 7 **When all necessary fields** are filled, Select or “Click” the **Update Record** (save it) command button. The record is saved.
- 8 **Select or “Click” the Add command button** to continue entering more data.
- 9 **The information bars update** to indicate the amounts of **Unit** memory used.
- 10 **To enter more items Go to step 4.**

*This Page is intentionally Blank*

# Tec Basic

## Unit System Parameters

Tec Basic places all System Configuration Parameters on one screen. Complete descriptions of each item is available by placing the mouse pointer over each item. The standard factory defaults are provided as a reference. The defaults will be satisfactory in most applications. You may change them to provide for new password or directory



Unit System Configuration Standard

Showing Factory Defaults for the System Data

- ◆ **Directory On - Off** - Turns the display of the Directory On or Off. This does not prevent calling the numbers.
- ◆ **Keypad active** - Allows the keypad to be used after calling allowing for voice mail, etc. Only the numbers 0 to 9 are active, The \* and # are not active.
- ◆ **Dial Touch Tone** - Changes TEC Unit dialing from touch tone to rotary or pulse dialing.
- ◆ **Back Beep** - Sends a 'Beep' tone every ten seconds to the called party. This allows confirmation that the call originates from the TEC Unit.
- ◆ **RS232 Baud Select** - The serial port baud rate can be configured from 300 to 9600 baud.
- ◆ **Unit ID (Answer Ring Count)** - This is the number of rings received before the TEC Unit answers. Range is 0 - 9. 0 means the TEC Unit will not answer. 3 is the default. The software uses this ID as a confirmation that it has connected to the proper unit, If the software ID and the Unit ID are not the same, the software will indicate an error and will not get or send data.
- ◆ **Title Page Text** - See Title Page Table  
**PRESS # TO VIEW**  
**DIRECTORY** is the factory default.
- ◆ **Programming Password** - This is the password used to access and program the TEC Unit. Any combination of up to six numbers and letters are allowed. 777777 is the default. **Caution: Passwords with letters cannot be accessed from the keypad or remote touch-tone control.**
- ◆ **Control Password** - The control password is used to dial the TEC Unit from a touch-tone phone and open an entrance. Range is 00 to 99. The 1st two digits of the password is the control password in the Tec Basic. **See caution above.**

Title Page Message Table	
TEC 1, TEC1C, TEC1CA	2 lines of 16 characters
TEC II	2 lines of 16 characters
TEC IV	2 lines of 16 characters
TEC VIII, AVANTEC	1 line of 32
TEC- Ten	10 lines of 16 characters
TEC-VISION	6 lines of 16 characters

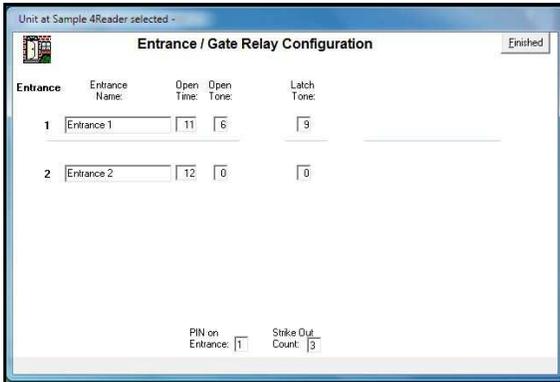
- ◆ **Site Code** - TEC units can use an **optional** Card reader module. Set the site code for your cards here. Entering “255” accepts all site codes. Entering “0 “turns the function off .
  - ◆ **Directory Code Length** - Sets the displayed code length from 1 to 6 characters. Set this parameter to the number of digits you wish to be displayed and entered to dial.
  - ◆ **PIN Code Length** - This sets the number of characters used when you use ‘Personal Identification Codes’ to allow entry. 0 (Off) or 1 to 6 numbers. 4 is the default.  
**Note: If PIN code length is set to less than the PIN codes, they will not operate.**
  - ◆ **Speaker - Mike Open tone** - This tone allows you to turn the TEC Unit microphone on from a touch tone phone and listen to the activity. Range is 0 to 9. Default is 0 (Off).
- Talk Time** - Talk time controls the amount of time the TEC Unit stays connected to the called number before automatically hanging up. Range is 1 to 99 Min. Default is 1 min. The TEC Unit beeps @ 10 seconds remaining as a warning.

<b>System Configuration Table</b>		
<b>Item</b>	<b>Range</b>	<b>Default</b>
<b>Directory On-Off</b>	On - Off	<b>On</b>
<b>Keypad Active</b>	On - Off	<b>Off</b>
<b>Dial touch-tone</b>	On - Off	<b>On</b>
<b>Back Beep</b>	On - Off	<b>Off</b>
<b>RS232 Baud Select</b>	300 - 9600	<b>9600</b>
<b>Answer Ring Count</b>	0 (Off) - 9	<b>3</b>
<b>Title Page Text</b>	See Title Page Table	<b>PRESS # TO VIEW DIRECTORY</b>
<b>Programming Password</b>	000000 to 999999 Letters are allowed	<b>777777</b>
<b>Control Password</b>	00 to 99	<b>1st two digits of password</b>
<b>Site Code</b>	0 to 254 255 = All	<b>0 = Off</b>
<b>Directory Code Length</b>	1 to 6	<b>3</b>
<b>PIN Code</b>	0 (Off) to 6	<b>4</b>
<b>Speaker - Mike</b>	0 to 9	<b>0</b>
<b>Talk Time</b>	1 to 99	<b>1</b>

# Tec Basic

## Unit Entrance Configuration

## Unit Entrance Control



Showing TEC Reader with settings

Tec Basic places all entrance configuration data on one screen. Selector buttons allow selecting the additional entrances when installed. Complete descriptions of each item is available by placing the mouse pointer over each item. The standard factory defaults are provided as a reference. The defaults will be satisfactory in most applications. You may change them to provide for a slow opening gate or entrance. A Telephone code is installed to open the first entrance. You may need to change this and the Open tone for each of the entrances. Tec Basic will display only the amount of entrances capability.

- ◆ **Print View** - Allows printing of screen with the system default printer.
- ◆ **Entrance 1-2 Name** - Sets the name you will use to describe this door.
- ◆ **Ent. 1-2 Open Tone.** - Sets the touch-tone used to open Ent. 1 from the called phone. Range is 0 to 9. Zero is off. Default is 6. Valid for the entrances only.
- ◆ **Ent. 1-2 Latch Tone** - Sets the touch-tone used to 'Latch' Ent. 1 Open. Range is 0 to 9. Zero is off. Default is 0.
- ◆ **Strike Out Count** - Sets the number of invalid PIN entries before the system locks out.
- ◆ **Ent. 1-2 Pin on Entrance** - Sets the Entrance to be opened using the PIN numbers. Valid for entrances only.

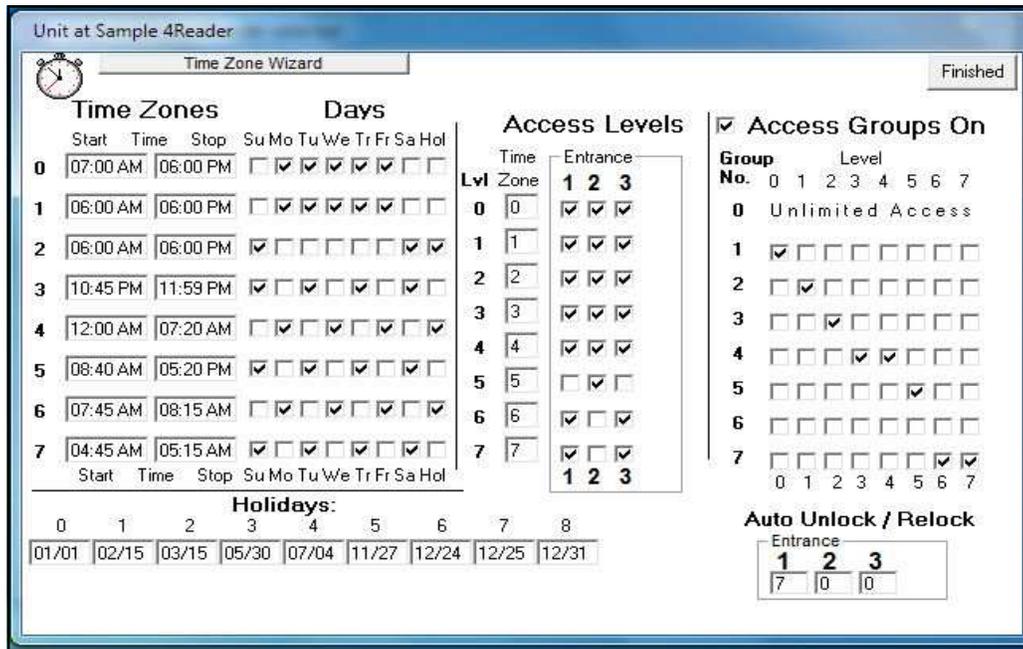
Entrance Configuration Table		
Item	Range	Default
Entrance 1- 2 Name	21 Characters	Entrance X
Ent.1- 2 Open Time	1 to 99 sec's	10 sec's
Ent. 1- 2 Open Tone	0 to 9, 0 is off	6 on Ent 1
Strike out Count	0 to 9, 0 is off	3
PIN on Entrance	1 to 4	1

Access Control Screen

**NOTE:** Entrance 3 not Functional on TEC1 systems.

**Unit Access Control**

Tec Basic places all Access Control data on one screen. Complete descriptions of each item is available by placing the mouse pointer over each item. The Sample TEC101-49 settings supplied are provided as a reference in the illustrations and will be used to explain the uses.



TEC Series Access Screen

**Time Zones**

Sample 49 Time Zone Configuration as Shown			
Zone	Start Time	Stop Time	Days Allowed
0	7:00	6:00	Monday to Friday
1	6:00 AM	6:00 PM	Monday to Friday
2	6:00 AM	6:00 PM	Saturday, Sunday, Holidays
3	10:40 PM	11:59 PM	Monday to Friday
4	12:00 AM	7:20 AM	Monday to Friday
5	8:40 AM	5:20 PM	Monday to Friday
6	7:45 AM	8:15 AM	Monday to Friday
7	4:45 PM	5:15 PM	Monday to Friday

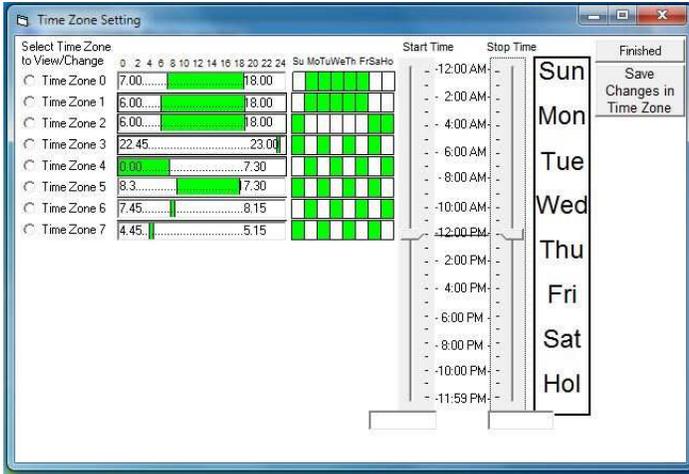
**Access Levels**

Access Levels are used to attach Time Zones to specific Entrances. They may be mixed in any order. For example, Time Zone 1 could be assigned to Access level 3.

**Times Zones** allow the User to set up 8 time slots in a TEC unit. Each Time Zone is a separate continuous time slot. The sample zones are configured as shown on the Time Zone table.

Zone 0 shows a time zone starting at 7 am to 6 pm Monday through Friday. This would be typical of a factory building open times. Time Slots must end at midnight. To set up a Group that has access through midnight, you must use two Time Zones as shown in the example as Time Zone 3 and Time Zone 4. The days of the week may be chosen for each Time Zone by 'Checking' each day you wish to use. 'Check the box again removes the selection. The Holidays box will allow access on the nine dates entered on the form. In the examples, Time Zone One allows access from 6 am through 6 pm, Monday through Friday. Time Zone Two allows access from 6 am through 6 pm, Saturday, Sunday and Holidays. Time Zone Six allows access from 7:45 am through 8:15 am, Monday through Friday. and Time Zone Seven allows access from 4:45 pm through 5:15 pm, Monday through Friday. This could be typical of busy times at a Gate entrance and exit.

**Time Zone Wizard**

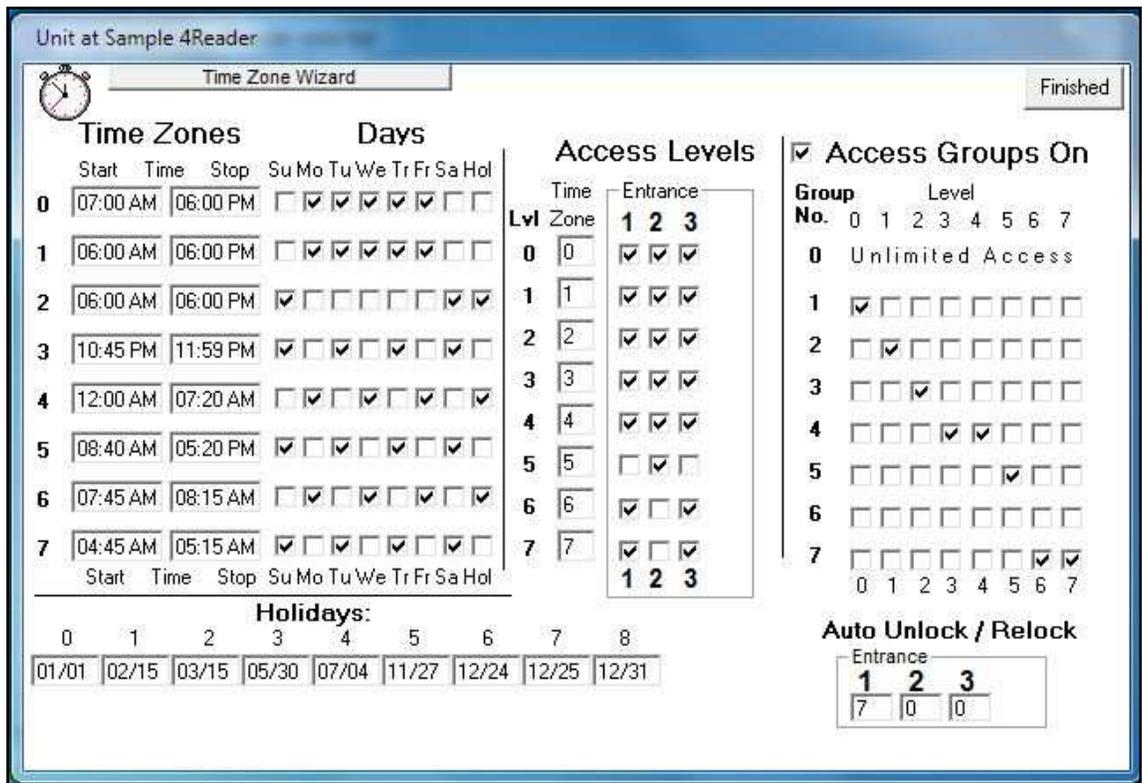


Time Zone Wizard

Tec Basic includes a “Time Zone Wizard” to assist you in setting up your time zones. The left hand side shows the current settings for the time zones and the right hand side has the modification tools. In the following example, the user wanted to setup a time zone to include 8:00 am to 5:00 pm, to automatically open or unlock the front door. In order to allow the employees time to get to work and leave after work, the user set the times in Time Zone 1 to 7:45 am to start and 5:15 pm to stop. The user decided to use Time Zone 1, Access Level 1 and Access Group 1, just to keep things as simple as possible. The user selected

the Time Zone Wizard. When the screen appeared, the user selected the Time Zone 1 button. The left graph’s moved to the current settings. Using their mouse, the user moved the Start and Stop pointers to the desired times and then clicked on the days they wanted the entrance opened. Next the user saved changes in Time Zone. The left hand graph update to show the **current saved** configuration.

The user clicked on the “Finished button and returned to the access screen. The user then selected Time Zone 1 to be used in Access Level 1 with Entrance one. Then the user set Access Level one to be active in Access Group one. Finally, the user set the “Auto Un-lock—Re-Lock for Entrance 1 to Access Group 01. This has the effect of selecting the time zone to unlock the entrance during 7:45 am to 5:15 pm.



**Access Groups**

Access Groups are used to allow groups of individuals card or PIN access by assigning a level or combination of levels to their group. Access Group Zero is **predefined** as an unlimited group. Group Zero allows access 24 hours a day, ALL days of the year. Access Groups are assigned to the individuals in the Directory. *If you do not assign a Group to an individual during the directory entry, Zero (0) is assigned by default.*

The examples provided show only a few ways to combine levels into a group to allow specific access to certain individuals. For example in Group Six, Access Levels Zero (0) and One (1) *could* be selected to allow a group to have access seven days a week, 7:00 am to 6:00 pm Mon. - Fri. and 6:00 am to 6:00 pm Sat, Sun and Holidays and using all entrances as selected.

**Holidays**

Nine Holidays may be entered in a TEC Series with a clock and access control. They are entered as two digits for the month, a slash, and two digits for the day (XX/XX). *If a Holiday is entered and falls on a Mon -Fri, any group set with a time zone of Mon - Fri without Holidays will not have access on the holiday. Further, any group using access levels with time zones without Holiday access will not have access on the Holiday.*

**Automatic Unlock and Re-lock**

You may choose to automatically unlock (or open) and re-lock (or close) any entrance (or gate) using access groups. The example provided shows Access Group Seven used to open the Number One entrance once at 7:45 am to 8:15 am and again at 4:45 pm to 5:15 pm. This example might be an employee gate that automatically opens during the peak traffic flow. Another example would be to use Group Five using Level Five and Time Zone Five to keep open the Second Entrance during normal business hours.

Sample 49 Access Level Table		
Level	Time Zone Used	Entrances Affected
0	0	Entrance One, Two
1	1	Entrance One, Two
2	2	Entrance One, Two
3	3	Entrance One, Two
4	4	Entrance One, Two
5	5	Entrance Two
6	6	Entrance One
7	7	Entrance One

Sample 49 Access Groups Table	
Access Group	Access levels and Zones Used
<b>Zero (0)</b>	None - predefined as unlimited access
<b>One (1)</b>	Level Zero using time zone zero with all entrances 7:00 am through 6:00 PM Mon. - Fri.
<b>Two (2)</b>	Level One using time zone one with all entrances 6:00 am through 6:00 PM
<b>Three (3)</b>	Level Two using time zone two with all entrances 6:00 am through 6:00 PM, Sat, Sun and Holidays.
<b>Four (4)</b>	Levels Three and Four using time zones three and four combined to allow access through all entrances 10:40 PM through 7:20 am, Mon. - Fri.
<b>Five (5)</b>	Level Five using time zone five with entrance two 8:40 PM through 5:20 PM
<b>Six (6)</b>	None, not set to any
<b>Seven (7)</b>	Levels Six and Seven with entrance one during 7:45 am through 8:15 am and then 4:45 PM through 5:15 PM Mon. - Fri.

Sample 49 Auto Unlock / Re-lock Table			
Entrance	Access Group	Access Level	Time Zone
<b>One</b>	Seven	Six and Seven	7:45 am to 8:15 am and 4:45 PM to 5:15 PM
<b>Two</b>	None	None	None

# Tec Basic

## Bulk Loading Information in the Directory

TEC Basic includes a bulk data loader. The bulk loader can load the following:

1. Phone numbers (Normally used in “No Phone Bill Systems”)
2. PIN Numbers for Resident/Employee Access
3. Card Numbers to preload a series of cards prior to issue.

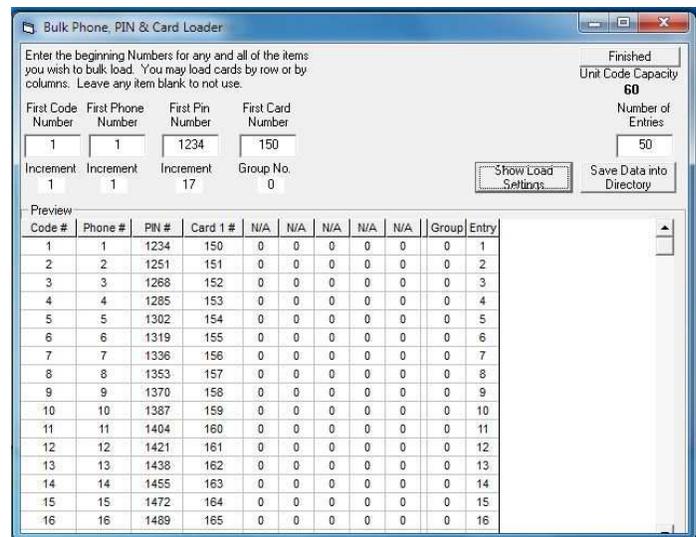
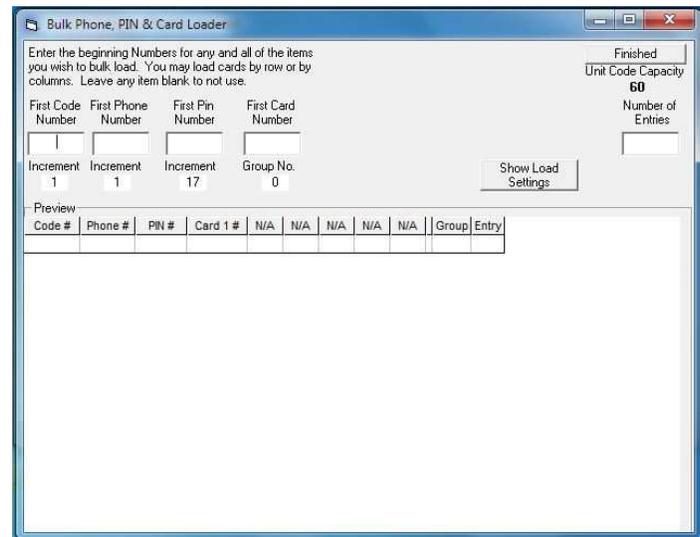
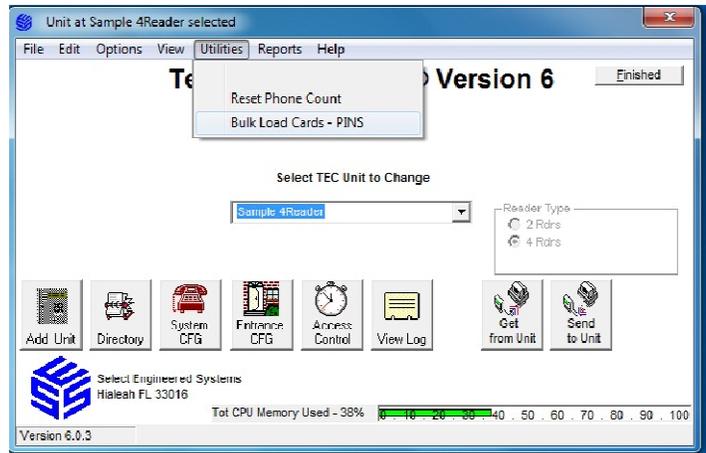
TEC Basic Bulk Loader will allow you to control the increment (sequence step) of any of the Code Number, Phone number and PIN numbers. The illustrations show examples of bulk loadings prepared for a TEC Unit. The first shows an example of bulk loading by column with a separate card sequence for each column.

**Note:** the example is showing the following:

1. Code Numbers are incrementing by one.
2. Phone numbers are incrementing by one.
3. PIN Numbers are incrementing by seven-teen.
4. Card numbers are incrementing by one.
5. Fifty records are to be modified.
6. Show Load Settings is showing a preview of what will be entered.
7. If the **code numbers already exist**, the new data will be added or **existing data will be replaced**. This may be useful to quickly change all card or PIN numbers in a system.

You should examine the entries carefully before you select “Enter Data into Directory”. Once the “Enter Data into Directory” is selected, the **changes are made** with no undo.

With TEC units, the loader will only load the first column of cards as that is the limit of TEC units. The other columns are not applicable to TECs and are only active when bulk programming CAT units, using Selcom Secured software, only.

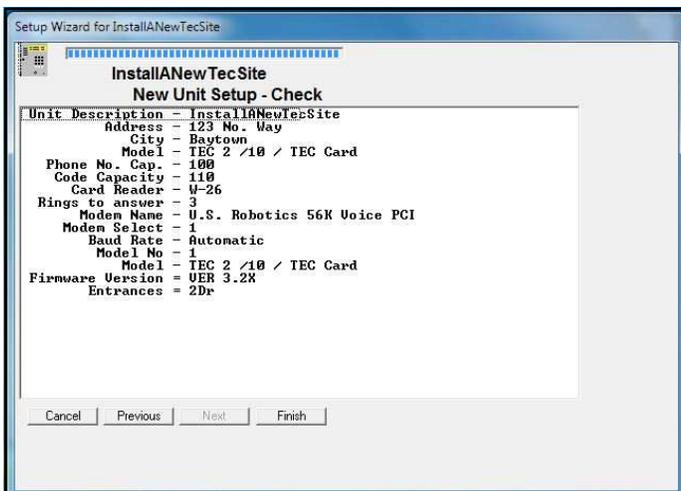




**Add TEC Unit Wizard**

Tec Basic provides a ‘Wizard’ to help with the installation of a new Unit. It provides a step by step method of providing the information required and desired. You will need the following information at hand to ‘setup’ a new unit in the software (See page 38 for a handy work sheet for arranging this information)

- ◆ Your Name for the Unit.
- ◆ Unit Address (optional).
- ◆ Unit City (optional).
- ◆ Unit Type and Model.
- ◆ Unit Phone Capacity.
- ◆ Unit Code Capacity (If Used).
- ◆ Unit Phone Number.
- ◆ You must have a modem installed into your Windows System if you will be using that to communicate to the Unit. If a modem is properly installed, you will be able to merely **SELECT** it in a pull down selector box. If not, you may select it later using the Edit Unit Data selection from the File menu.



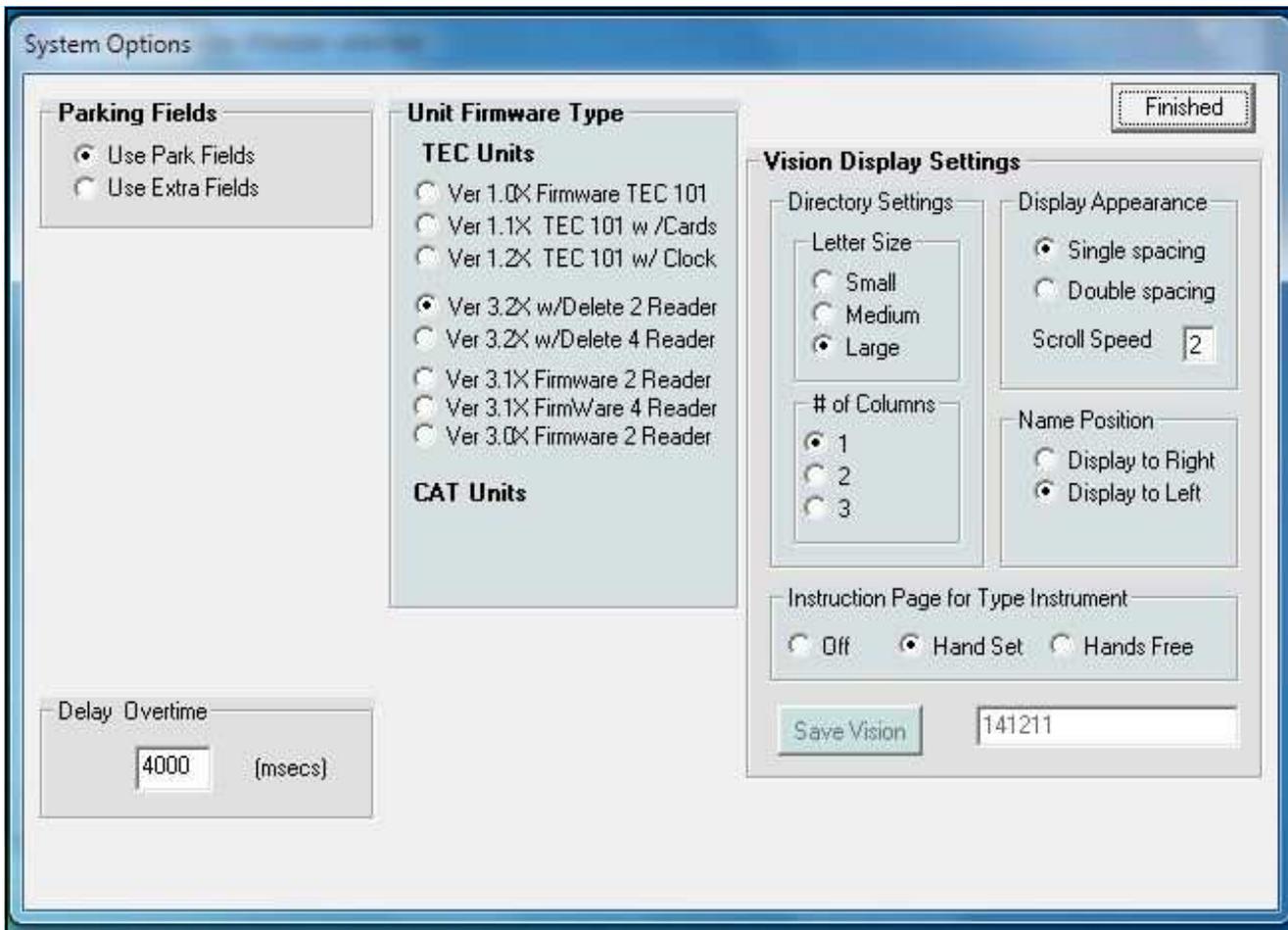
**Using the Wizard**

The Wizard takes you step by step through the information required, providing default answers when applicable. You may go back to correct any item without reentering the remaining data you previously entered. A review is provided at the finish, allowing you to view all the entries at one time. If something needs to be changed, use the ‘Previous’ button to go back and correct the entry. When you have completed the entries, the ‘Finish’ button will enable and when pressed, sets up the new unit for you.

## Edit Unit Data

Tec Basic places Unit Data configuration data on one screen. Complete descriptions of each item is available by placing the mouse pointer over each item. The Wizard is the standard method used to complete this form. The Wizard also generates the data files needed to store the information for each new site. This screen is provided to allow changes to be entered when required after a site is created with the wizard..

- ◆ **Data File** - contains the file name for the unit.
- ◆ **Description** - contains the Unit's name you refer to
- ◆ **Street Address** - for your reference.
- ◆ **City** - for your reference.
- ◆ **Unit Phone** - insert the number to be called including any prefixes required. (Example - 9,1028812125551212). Up to 32 digits may be used to dial the number used by TEC Basic to connect to the unit. Note: Tec Basic is compatible with 10 digit local dialing
- ◆ **TEC Model No.** - select from list.
- ◆ **Code Capacity** - Code capacity you purchased.
- ◆ **Phone Capacity** - Phone Capacity you purchased.
- ◆ **Use Modem / Use Serial** - how will you connect to the unit to Send data and Get data.
- ◆ **Modem Name** - Pull down select for finding the modem in your computer.
- ◆ **Comm. Port** - Select the Comm. Port used in **Direct Connect**.
- ◆ **Baud Rate** - Baud rates with modems are automatic.
- ◆ **Maximum Backups** - This sets the number of previous sessions the software stores. Once this number is reached, the backups are automatically rotated, replacing the oldest first. Default is nine and is recommended.
- ◆ **Next Backup No** - shows the position of the current backup.
- ◆ **Multi Unit** - Sets software to allow for multiple units on a single phone line and sets sleep mode active for multiple units on single phone lines.
- ◆ **No. of Units on Directory** - Sets software to the number of units connected on **ONE** phone line **with the same Directory**.
- ◆ **Firmware version** - All TEC units are Ver. 3.X firmware. You may set this information in the options screen to configure or reconfigure software for any TEC unit. (See Page 25) Each site maybe configured differently and the software will then show each site's features correctly.
- ◆ **Options** - This selector allows you to go to the options screen.

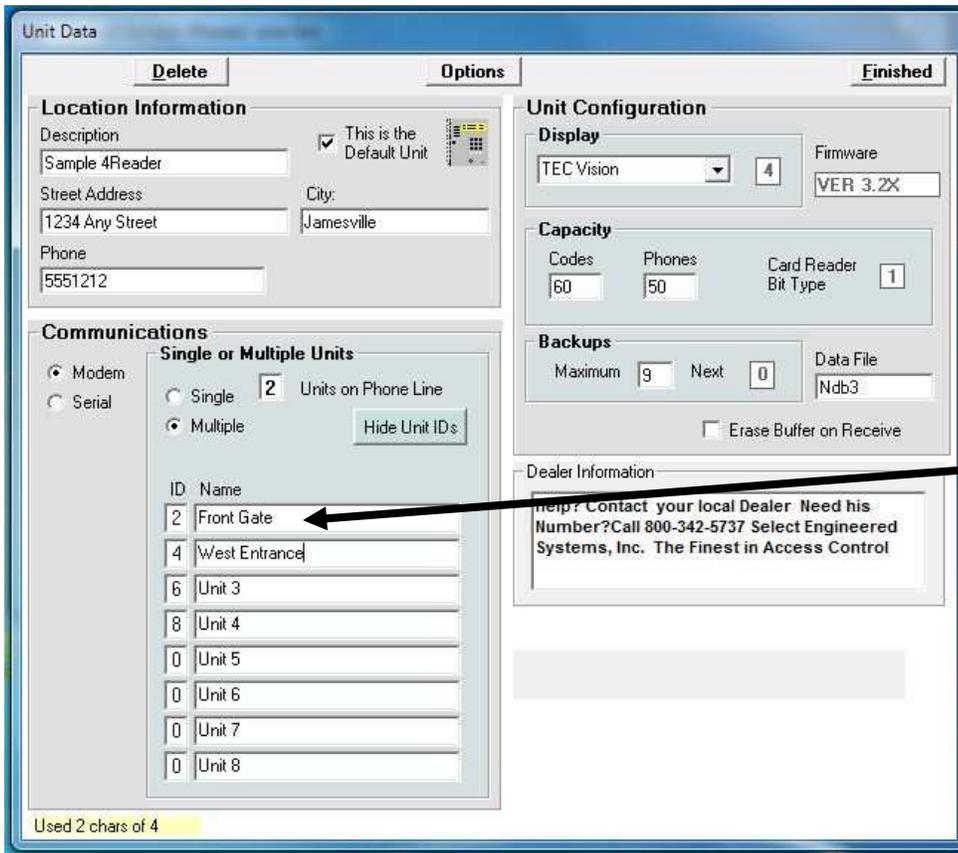


Options screen for a TEC Unit

### Options -Screen

- ◆ **This screen is only available from the edit Unit Data Screen**
- ◆ **Unit Firmware Type** - set the software screens to the proper firmware version and number of readers (2 or 4) in the unit. This must match the unit or the software will not allow the user to connect to the unit. This prevents sending information to the incorrect unit.
- ◆ **Vision Display Settings** - allows setting of the TEC Vision display in Ver 3.1X units. This includes the size of the characters, number of displayed columns, name or calling code first, display an instruction page and automatically scroll the names on the display. This programming feature requires firmware Version 3.1X or higher to function. This portion of the screen will only display if a TEC Vision has been selected as a display type.
- ◆ **Use Park Fields** - Sets the software to display the Parking in the directory display. This feature maybe selected, turned off and re-selected without loss of data.
- ◆ **Use Extra Fields** - Sets the software to display the extra fields in the directory display. This feature may be selected, turned off and re-selected without loss of data.

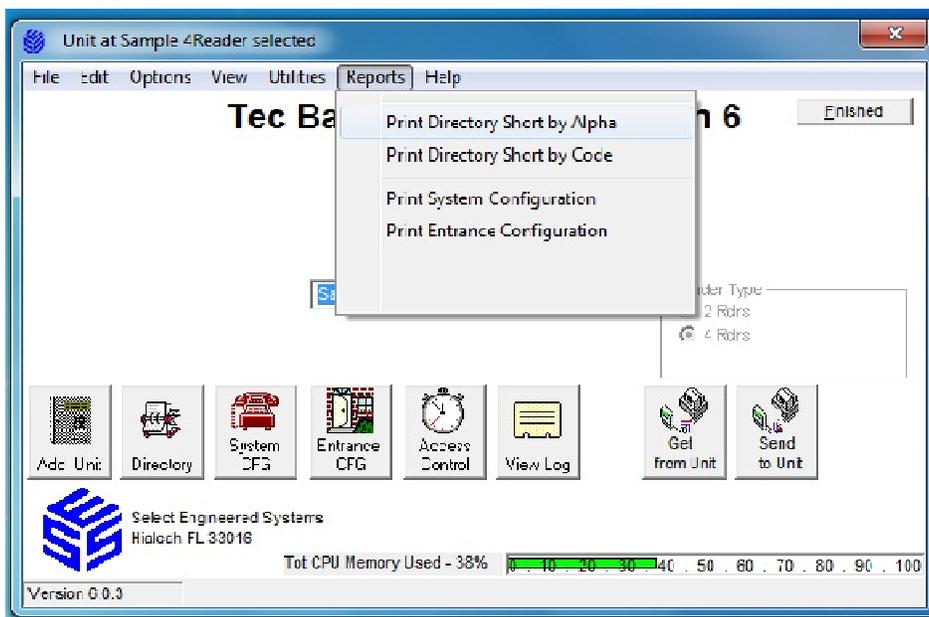
# Tec Basic



**MUI Identification** - When using MUI cards, these fields allow the user to enter the ID and their logical name for each unit.

## Standard Report

TEC Basic comes with a standard Directory Report. The report is found in the “Reports” menu selection. It is titled “Print Directory Short by Alpha”. This report has a “Preview on screen” as well as ability to print any and or all pages and an export utility. With the export feature, you may export to use the data to view the directory in another program; Microsoft Excel for example. You may also print the System Configuration and the Entrance Configuration. In order to print Log Reports, you must upgrade to Selcom Secured.



**Printing the Directory**

The "Print Directory Short by Alpha" in the Pull Down Menu, allows you to print the entire directory, or any portion of the directory you desire.

**Directory Report of - Sample 4Reader by Name Printed on 6/21/2010 9:20:30 PM**

Name	Number	Phone Number	PIN	Ext Relay 1	2	3	4	Group No.
Card 1 Name	Card 2 Name	Card 3 Name	Card 4 Name	Card 5 Name	Card 6 Name			
Card 1 Number	Card 2 Number	Card 3 Number	Card 4 Number	Card 5 Number	Card 6 Number			
Park-1	Park-2	Park-3	Emr-Phone	Lic No-1	Lic No-2			
Park-1	Park-2	Park-3	Emr-Phone	Lic No-1	Lic No-2			
<b>ADAMS,SAMUEL</b>	<b>000003</b>	<b>3055551173</b>	<b>000003</b>					<b>0</b>
Card 1 00003	Card 2	Card 3	Card 4	Card 5	Card 6			
<b>BUCHANAN,JIMMY</b>	<b>000004</b>		<b>000004</b>					<b>0</b>
Card 1 00004	Card 2	Card 3	Card 4	Card 5	Card 6			
<b>BURR,ARRON</b>	<b>000005</b>	<b>3055551141</b>	<b>000005</b>					<b>0</b>
Card 1 00005	Card 2	Card 3	Card 4	Card 5	Card 6			
<b>BUSH,GEORGE</b>	<b>000006</b>	<b>3055551140</b>	<b>000006</b>					<b>0</b>
Card 1 00006	Card 2	Card 3	Card 4	Card 5	Card 6			
<b>CARTER,JIMMY</b>	<b>000000</b>		<b>000000</b>					<b>0</b>
Card 1 00000	Card 2	Card 3	Card 4	Card 5	Card 6			
<b>CHASE,SAMUEL</b>	<b>000007</b>	<b>3055551203</b>	<b>000007</b>					<b>0</b>
Card 1 00007	Card 2	Card 3	Card 4	Card 5	Card 6			
<b>CLINTON,BILL</b>	<b>000008</b>	<b>3055551142</b>	<b>000008</b>					<b>0</b>
Card 1 00008	Card 2	Card 3	Card 4	Card 5	Card 6			
<b>COOLIDGE,CAL</b>	<b>000009</b>	<b>3055551133</b>	<b>000009</b>					<b>0</b>
Card 1 00009	Card 2	Card 3	Card 4	Card 5	Card 6			

**Unit Event Log Control**

TEC Basic presents a new simplified view of the transaction log. All information is present and is shown in a new combined format. TEC Basic provides for formatting and viewing of the Event Log Buffer

information and maintaining a single, separate log file for each unit or MUI Site. Each site MUI description is placed in the log to identify which unit the information is from. Sorting and filtering of the Log Events are available and do not alter the data in the log. You may use the Sorts & Filters to selectively display and print groups of records in the log. If your computer has a screen resolution higher than 640 x 480, you may resize the Window up to the full size of your screen to display more data.

- ◆ File size limited by the size of your computer storage capacity, not by the software.
- ◆ **The Log Display is limited to 23,325 records.** Larger files require you to print out the Log to view all the records. We recommend purging your log periodically to keep the size below that limit. More memory may be useful to improve performance of printing the report.
- ◆ Default Sort is by date and time.
- ◆ Sorting is allowed on any column.
- ◆ Temporary sizing of any column is allowed.
- ◆ Selections and sorting do not change the real data.
- ◆ The words "CODE", "CARD" and "PIN" are removed from the messages for clarity.

Log columns separated into logical types to enhance sorting and selecting.

Log Information Provided	
<b>ID</b>	ID number of unit called
<b>Unit Name</b>	Site or MUI count name of Unit
<b>Code</b>	Directory Code No. of Event, if applicable
<b>Name</b>	Directory Name of Event, if applicable
<b>Card</b>	Directory Card No. of Event, if applicable
<b>PIN</b>	Directory PIN No. of Event, if applicable
<b>Activity</b>	Description of event
<b>Date</b>	Date & Time event occurred
<b>Other 1 -2</b>	Partial messages, normally empty.

ID	UnitName	Code	Name	Card	Pin	Activity	Date	Other 1	Other 2
1	Unit 1	CODE	CASEY MIKE				9/30/1997 1:26:00 PM		
1	Unit 1	CODE	AURIGEMMA, MAR	CARD		ENTRANCE 1	9/30/1997 1:26:00 PM		
1	Unit 1	CODE	BELANGER, MARI	CARD		ENTRANCE 1	9/30/1997 1:26:00 PM		
1	Unit 1					CALLER HUNGUP	9/30/1997 1:26:00 PM		
1	Unit 1					ENTRANCE 1	9/30/1997 1:26:00 PM		
1	Unit 1	CODE	TEST ENTRY	CARD		ENTRANCE 1	9/30/1997 1:26:00 PM		
1	Unit 1					INVALID CARD	9/30/1997 1:26:00 PM		
1	Unit 1	CODE	DEPLAZA	CARD		ENTRANCE 1	9/30/1997 1:27:00 PM		
1	Unit 1	CODE	TEST 2	CARD		ENTRANCE 1	9/30/1997 1:27:00 PM		
1	Unit 1					INVALID CARD	9/30/1997 1:27:00 PM		
1	Unit 1					INVALID CARD	9/30/1997 1:27:00 PM		
1	Unit 1	CODE	CASEY MIKE	CARD		ENTRANCE 1	9/30/1997 1:27:00 PM		
1	Unit 1	CODE	DEPLAZA	CARD		ENTRANCE 1	9/30/1997 1:27:00 PM		
1	Unit 1					ENTRANCE 1	9/30/1997 1:27:00 PM		
1	Unit 1					PROG. MODE ENTERED ON	9/30/1997 1:34:00 PM		
1	Unit 1					EXIT PROG. MODE	9/30/1997 1:34:00 PM		
1	Unit 1					TAMPER 1 CLOSED	9/30/1997 1:36:00 PM		
1	Unit 1					TAMPER 1 OPEN	9/30/1997 1:36:00 PM		
1	Unit 1					TAMPER 2 CLOSED	9/30/1997 1:36:00 PM		
1	Unit 1					TAMPER 2 OPEN	9/30/1997 1:36:00 PM		
1	Unit 1					REX-ENTRANCE 2	9/30/1997 1:36:00 PM		
1	Unit 1					ENTRANCE 2	9/30/1997 1:36:00 PM		
1	Unit 1					DOOR 2 FORCED	9/30/1997 1:37:00 PM		
1	Unit 1					REX-ENTRANCE 2	9/30/1997 1:37:00 PM		
1	Unit 1					ENTRANCE 2	9/30/1997 1:37:00 PM		
1	Unit 1	CODE	DEPLAZA	CARD		ENTRANCE 1	9/30/1997 1:37:00 PM		
1	Unit 1					ENTRANCE 1	9/30/1997 1:38:00 PM		
1	Unit 1	CODE	TEST ENTRY		PIN	ENTRANCE 1 OPEN	9/30/1997 1:38:00 PM		
1	Unit 1					ENTRANCE 1	9/30/1997 1:38:00 PM		
1	Unit 1	CODE	MATA, MARIO &				9/30/1997 1:38:00 PM		
1	Unit 1					CALLER HUNGUP	9/30/1997 1:38:00 PM		
1	Unit 1	CODE	TEST 2		PIN	ENTRANCE 1 OPEN	9/30/1997 1:39:00 PM		
1	Unit 1					ENTRANCE 1	9/30/1997 1:39:00 PM		
1	Unit 1					INVALID PIN	9/30/1997 1:39:00 PM		
1	Unit 1					INVALID PIN	9/30/1997 1:39:00 PM		
1	Unit 1	CODE	COHEN, HOWARD				9/30/1997 1:40:00 PM		
1	Unit 1					CALLER HUNGUP	9/30/1997 1:40:00 PM		
1	Unit 1	CODE	BURKO, MICHAEL				9/30/1997 1:41:00 PM		
1	Unit 1					PROG. MODE ENTERED ON	9/30/1997 1:43:00 PM		

**Log View with columns adjusted, Date & Time Sort and Row Highlight selected.**

- ◆ Partial messages that result from data wrap in the buffer are deleted.
- ◆ Automatic update mode prevents most data repetition

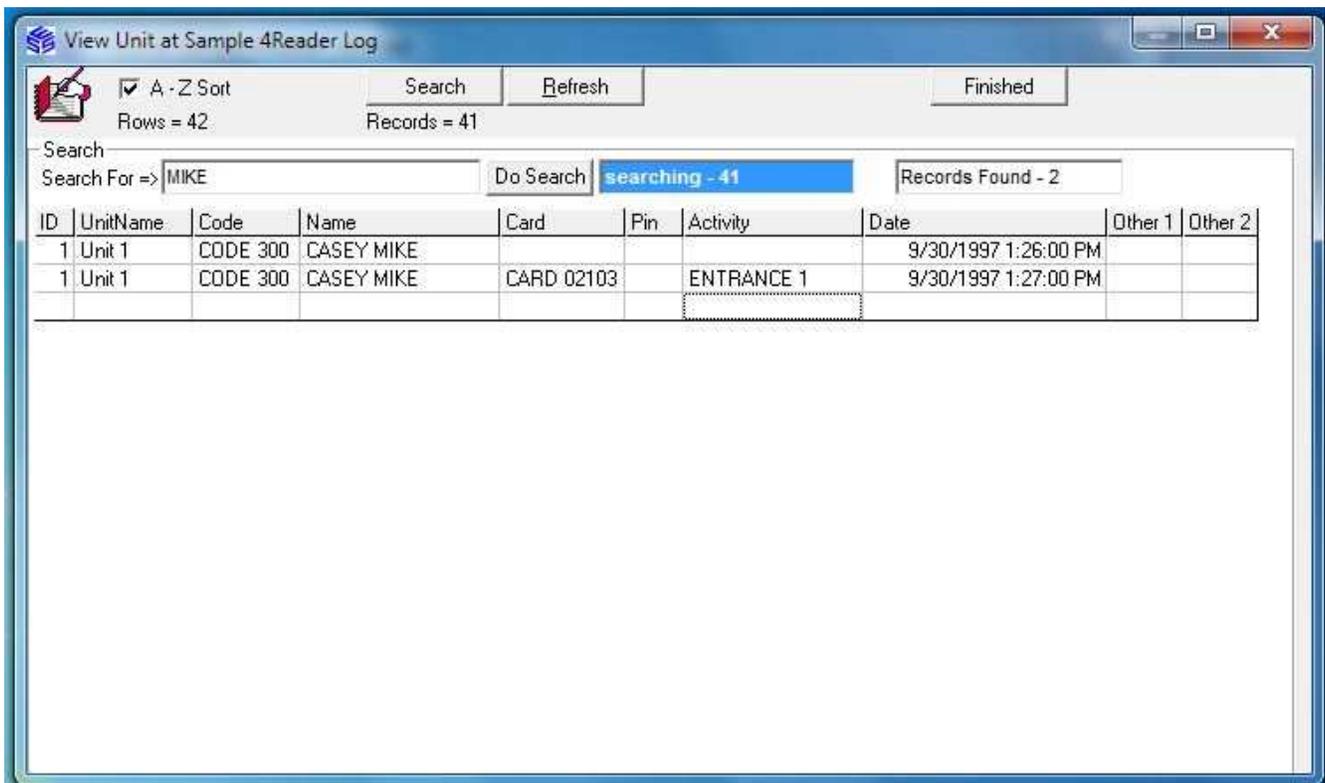
In order to insure all messages are entered, the last messages with the same date and time are repeated.

This feature cannot be used in MUI site logs. MUI Logs are entered in full, so you may have repeats if you do not erase the log buffer in the units after you receive the log.

Erase to date allows maintaining your log at the size and dates you desire. Erase to date will not work in MUI Log files. Larger Log files operate slower. Open File add function allows you to add old logs to the file if required.

### Log Search Utility

TEC Basic comes with a Log search utility. Any data to search for may be typed in and ANY occurrence of the data in ANY field will cause the record to show. The Search function is started by selecting the “Search” button on the Log Screen. The grid display will clear and the Search window will appear. The example shows a search for “Mike” and the results found. The search is performed in chronological order. The search function searches ALL fields. If the [Search for] text is located in ANY field, that event is included in the found list.



## Tec Basic

### Setting your Microsoft Windows Telephone Application Programming Interface (TAPI)

#### Long Distance Control

Under some versions of windows, Windows TAPI controls do not handle ten digit dialing and or long distance correctly. For your convenience, the local area code awareness of Windows is not used in TEC Basic **even if your other programs use it.**

This means you will directly control the long distance area codes. In TEC Basic, enter (area prefix suffix) in the Wizard or in 'Edit CAT / TEC Unit Data Screen. Place the correct number in the Unit Phone: window. Example for 10 digit local calling: '305-555-1212'. Place any special prefix and all the numbers necessary and TEC Basic TAPI will dial it exactly for you. This feature allows for 10 digit local calling, same area code long distance calling as well as special carrier long distance calling as in (1010321,13975551212). TEC Basic allows for 32 digits to be placed into the called number. Spaces, Parentheses and Dashes are not required and not allowed.

#### Error Control

TEC Basic uses the advanced TAPI interface within **Windows XP/Vista/Win 7.** This allows for a modem to be installed into Windows System and TEC Basic will use it, without any need of additional modem strings.

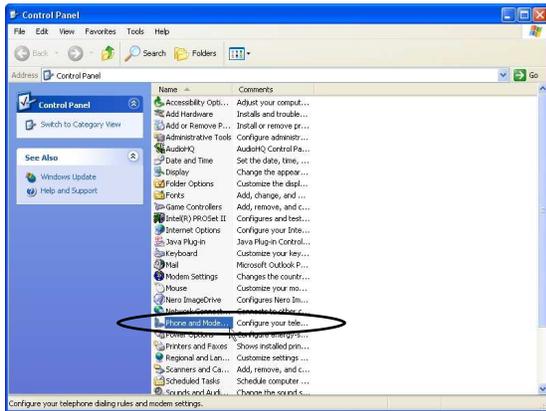
TEC Basic may require that error control be turned off for connecting to **older TEC Units with 1200 baud** modems. We are providing the following instructions to turn off error control. In order to assist you we have provided the following setup.

(Screens may appear slightly different with different versions of Windows.)

Using Start - select 'Settings' then 'Control Panel' then, if required by other than Windows XP, 'Control Panel'.

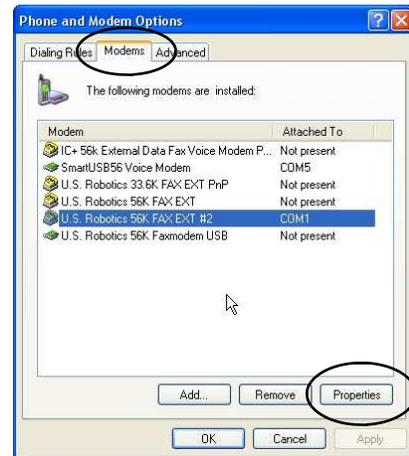


# Setting your Microsoft Windows Telephone Application Programming Interface (TAPI) continued...

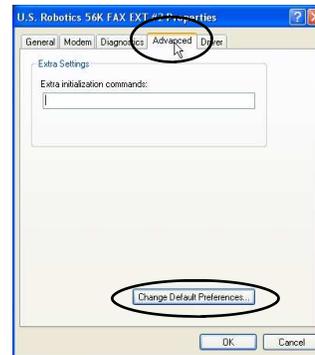


Using Control Panel - select 'Phones & Modems'.

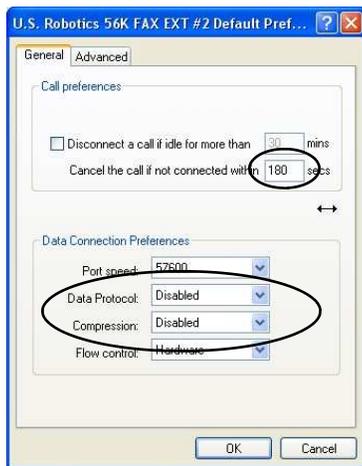
**Note:** Your screens may look different if you have other than Windows XP as your operating system..



Then select the modem you will use with TEC Basic. Next select the 'Properties' menu.

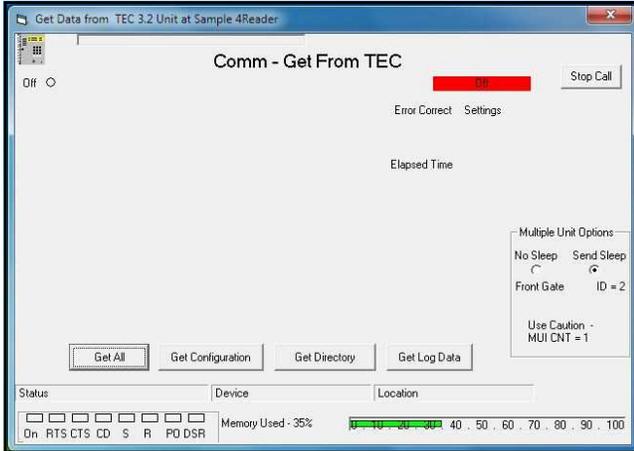


Then select "Advanced" and "Change Default Preferences..." You will need to set "Cancel call if not connected within" to **120 minimum and 250 maximum** seconds if you are using long ring counts or larger Unit ID's  
Then...



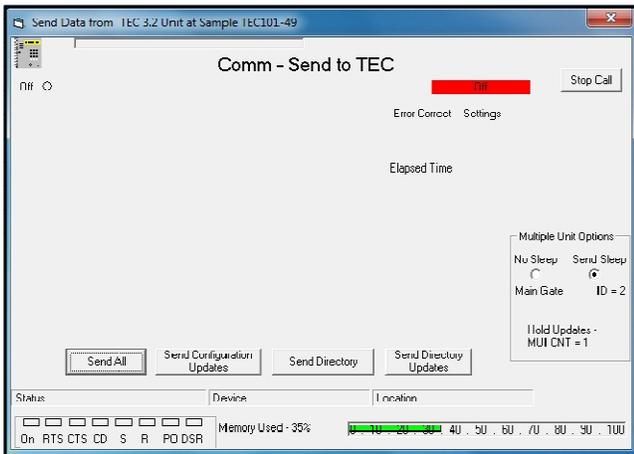
Using 'Data Connection Preferences, make sure 'Data Protocol' is set to "Disabled" and make sure 'Compression' is set to "Disabled".. Then click 'OK' and then 'OK' again. Exit to the Desktop and you are finished.

## Get Data from TEC Unit



Tec Basic provides a choice selection screen to choose the information you GET from the TEC Unit. During transmission the screen reports Connection Progress, error correction, record numbers, elapsed time and other information. The ID and Firmware version of the unit is checked to insure the proper unit answered.

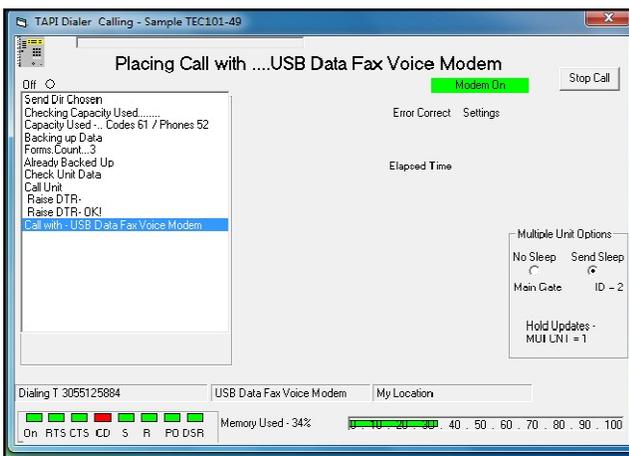
Choosing 'Get All' will get the configuration and the directory from the unit. You may choose to get each item individually. Getting any function will cause the system to disconnect from the unit after getting that function, to enable the MUI sleep system to function automatically. The MUI Sleep box allows you to disable the unit sleep function when required and will only appear if selected during setup.



The system re-configures its settings to match the unit during the GET DATA process. This includes Unit capacities and number of names to get from or send to the unit.

### **Caution:**

When "Get Directory" or "Get All" is used, the items in the Tec Basic directory are updated. The directory in Tec Basic is NOT erased. Any codes in Tec Basic and NOT in the Unit remain. A warning message would occur prior to getting the data telling the user that updates exist and may be lost. If these were codes to ADD in an update, the update flag on the code or codes to update would NOT be cleared. If these were codes to CHANGE in an update, the update flag on the name or names to update WOULD be cleared and the data would RETURN to what was in the unit.



**TEC Basic has a new feature in Communications called "Autotune". See Page 11 for details.**

Function Selected with Action Log Showing

## Send Data to TEC Unit

Tec Basic provides a choice selection screen to choose the information you SEND to the TEC Unit. During transmission the screen reports Connection Progress, error correction, record numbers, elapsed time and other information. The system re-configures its settings to match the unit during the SEND DATA process.

The ID and Firmware version of the unit is checked to insure the proper unit answered.

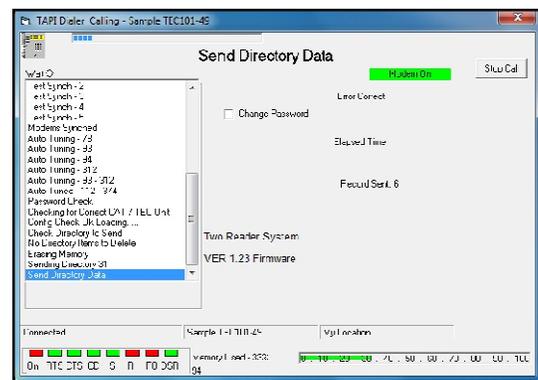
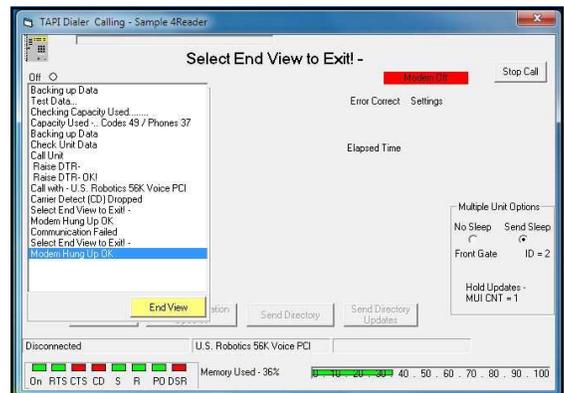
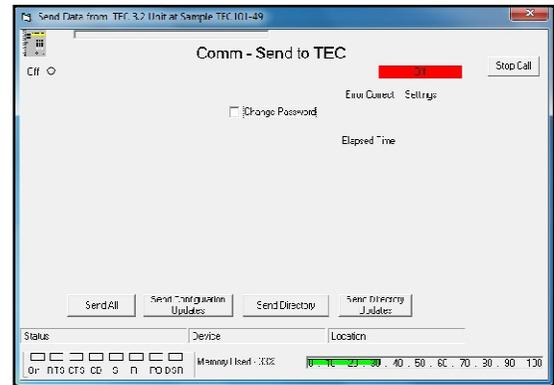
Choosing 'Send All' will send the Unit configuration and ALL of the directory data to the unit. You may choose to send each item individually. Sending Updates will cause the system to send new and changed directory items only, then automatically disconnect, providing for a shorter connection time. The TEC Unit allows you to mark names for deletion and they will be deleted during an update.

**To change relay programming, the welcome message and other configuration items, you must "Send Configuration".** You also have the option of changing the Unit password as you send the configuration to the Unit. After completing the change, the system enters the new password into the file automatically. Do not change passwords while using the MUI functions as the password will change before connecting to the next unit.

The Multiple Unit Function area allows the operator to disable the unit clear updates, disable the sleep function when required and will only appear if MUI functions are selected during setup. See Page 34 for more detail.

### Caution:

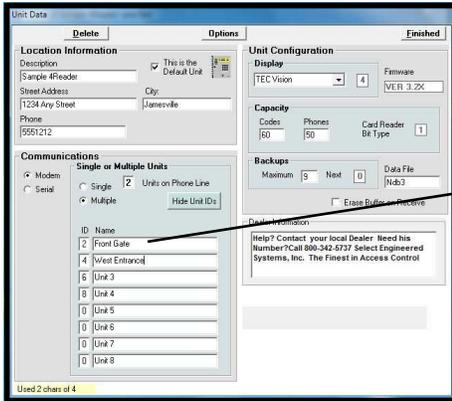
When 'Send Directory' or "Send All" is used, the directory items in the unit are replaced. Any codes in Unit and not in Tec Basic are removed. "Send Updates" send only the codes marked for update. The directory in the unit is not erased. Any codes marked for update are changed or added.



Send Screen with Action Log showing

## Using Multiple Unit Features

The Multiple Unit function allows the operator to control specific features used with Multiple Unit sites. The features used will depend on the actual physical configuration. The **Multiple Unit function will only work reliably with the TEC firmware in all units connected together.**



**This feature will work with two variations of unit setups.**

### (Variation 1)

**Units connected together on one phone line with the same directory.** Recommended limit is four(4), Select Multi Unit.

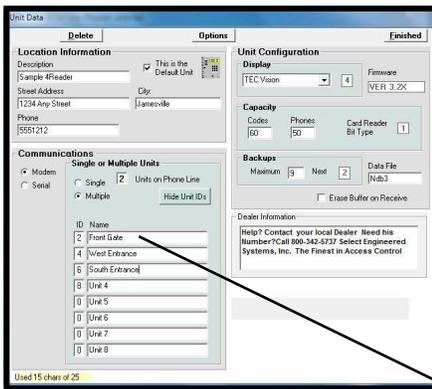
Indicate the number of units to send the same directory or updates to (2, 3 or 4).

In each unit, set the separate ring counts.

### Example

For a site with three units, we suggest setting one unit to two rings, another unit to four rings and the last unit to six rings. Consult the technical manual for instructions on using a terminal to make these adjustments.

Once the ring counts are set, in the Selcom software, **Select** the unit to be used for the Send. Go to **File - Edit TEC Unit Data**. Check **Multi-Unit**. Enter the number of units (In our example this is three) in the **No. of Units on MUI** window. This sets the software to call three units and reset the directory updates on the third call.



When the site is called, system will call the first of the units indicated in the Edit TEC Unit Data Screen one at a time. If you are sending All or the directory or directory updates, a special sequence is followed:

- 1 The first (the one with the lowest ring count) unit is called first. The ID of the unit is checked to insure the proper unit answered.
- 2 This unit (and each following) will be put to sleep at the end of each transmittal to allow the next unit to answer. The update flag is not cleared for directory updates until the last unit is sent or if the clear updates box is checked.
- 3 A Count-Down window will appear on the Main Screen showing the units remaining to be called.

Repeat the Send command for each unit allowed as the file used is common.

## Using Multiple Unit Features

To obtain the information from units, create separate MUI Identification names in the option screen (See page 25) using different names for each unit . This MUI Identification will be placed on the screen. If you desire to check the contents of the individual directories, it is recommended to used variation 2 to check the contents as a single directory will not show you any differences.

### (Variation 2)

**Units connected together on one phone line** with the different directories (using different unit names for each unit). Recommended limit is four(4).

Select Multi Unit on each of the units.

Indicate the number of units to send as one (1) on all of the units.

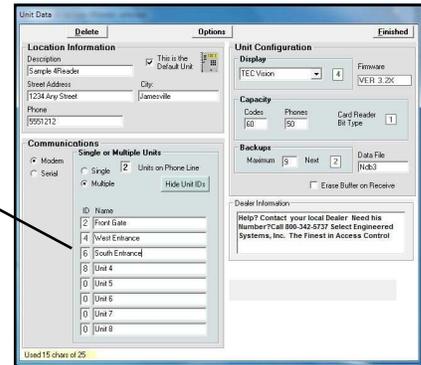
### Example

When the site is called, system will call the number of units indicated in the Edit TEC Unit Data Screen. If you are sending All or the directory or directory updates, a special sequence is followed:

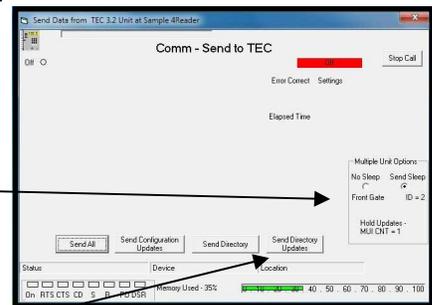
- 1 The first (the one with the lowest ID) unit is called first. The ID of the unit is checked to insure the proper unit answered.
- 2 This unit (and each following) will be put to sleep at the end of each transmittal to allow the next unit to answer. The update flag is not cleared for directory updates unless the clear updates box is checked sent. This is automatically set when the current unit becomes the last to send to.
- 3 Select each unit in turn and repeat the Send command for each unit.
- 4 Getting all information from the units is allowed as the files used are separate. To obtain the information from units, select each unit in turn and perform the upload or download function desired.
- 5 The system will automatically put each unit to sleep unless the No Sleep selection is made.

### Do's and Do not's

- 1 **Do** keep ring counts separated by two (2, 4, 6, 8). **Do not** use a ring count of one (1) on any unit .
  - 2 **Do** keep a list of the order of units to call.
- Do not** wait more than 1½ minutes between calls as the sleep function in the units will end. Tec Basic will stop and give you a message if the Unit Id does not match the expected number.



Options screen showing MUI Identifications



### Helpful Hints

Tec Basic is designed to use the SMALL(Normal Size) font selection in the Control Panel - Display - Settings - Font Size. Choosing Large fonts will cause some wording not to be displayed correctly. A "Print View Button is on the data pages. This allows you to print your data and settings using your default printer.

### General

The [TAB] key [forward] and [Shift Tab] key [backwards] also moves from text window to text window. The [Enter] key behaves like the [TAB] key as well.

The minimum computer specified will operate correctly when Tec Basic is the only program running. Larger computers with more memory will operate faster . Other programs should be exited first.

### Data Files

Data files and the backups are compatible with Microsoft Access Version 7.0 or higher and may be used to generate reports from the data if desired. Do not convert your data or add,subtract or rename any fields with the Access Data Manager as it will cause Tec Basic to stop working later.

### Remote Data Storage

If you wish to archive your data and/or backup data in another location, copy the files in your Selcom directory. If you did a standard install, the files are in

**C:\Program Files\ Tec Basic\\*.mdb** . The backup files are in

**C:\Program Files\ Tec Basic\Backup\\*.md\***. Make a copy these files to a location of your choice.

### Version Number

When talking to tech support, your serial number and the version number (shown on the Help - About menu selection) is very important. The Unit Firmware version is displayed in the "Edit TEC Unit Data" screen. Check them before you call and have them ready .

### Directory

Refresh retrieves a new copy from the disk and resets the records to the name order. Selecting a name to edit automatically sets the record to be sent to the unit on the next update.

To print a partial Directory, sort by the type of request, then use the elevator bar to view what you want to print and press "Print View".

### Edit Directory

Return to view button updates the record.

**Update Record Button** is present to allow user to continue to enter new records as in **Add New Button** - complete the record - **Update Record Button**(save it) - **Add New Button** - etc...

In the Directory EDIT screen the triangles located on the lower record bar allow you to move through the directory. The Left Bar-triangle moves to the first record, the triangle moves one record towards record one. The right triangle moves one record towards the last record and the Right Bar-triangle moves to the last record in the directory.

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**Tec Basic**

**WORK SHEET - COPY BEFORE USING  
NEW UNIT SETUP  
PREPARE INFORMATION BEFORE HAND**

Unit Description (name) -	
File name -	
Address -	
City -	
TEC Model -	
Phone Number Capacity -	
Unit Phone Number -	
Unit ID (Rings to Answer) -	
Modem String -	
Modem Select -	
Baud Rate -	
08/02	



## Tec Basic

### How to get into Terminal Mode

It is occasionally necessary to directly program the contents of the TEC units' memory. Using the Terminal selection from the TEC Basic 6 Options menu you can do this.

- 1) Select the desired site.
- 2) Click on Options.
- 3) Click on Terminal.
- 4) Click on File, then Place Call or click on the telephone icon.

If connecting with a serial connection, you must press the [ESC] key for the unit to prompt you for the password. If you do not press [ESC], the unit will send transaction data to the terminal as it occurs. If connecting with a modem, Tec Basic 6 will call the TEC unit and prompt you for the password by changing the screen from white to black and prompting with the word PASSWORD: This is the programming password found in your System CFG menu. Key in the 6 digit password and press "Enter" You should get a selection that says Main Menu and has 9 selections available (Fig 1.). These selections correspond to the sections in the TEC Manual that came with your TEC product. In the examples that follow, an example shows Menu 9-1, the Info screen. The next section heading is referring to the manual section that describes the clock function (Menu 5). The next example shows setting the clock time which is something that would be required twice a year in order to go on (or off) daylight savings time.

#### FINDING YOUR FIRMWARE VERSION

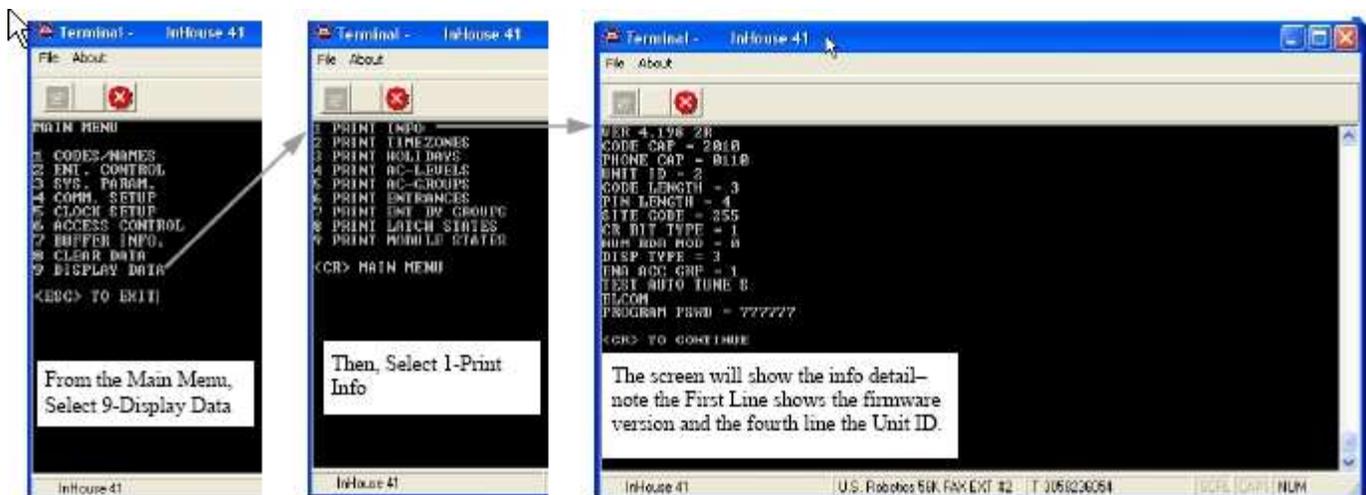


Fig 1. Main Menu

Fig 2. Menu 9

Fig 3. Menu 9-1 (Info) Note: Shows Firmware Version

#### CHANGING THE CLOCK

Changing the clock involves the time, day of the week and the date in sequence. In order to change the time you need to be prepared to enter all of the parameters in sequence. **NOTE: ONCE TIME/ DATE PROGRAMMING HAS BEGUN, ALL SELECTIONS MUST BE COMPLETED FOR CHANGES TO TAKE EFFECT.**

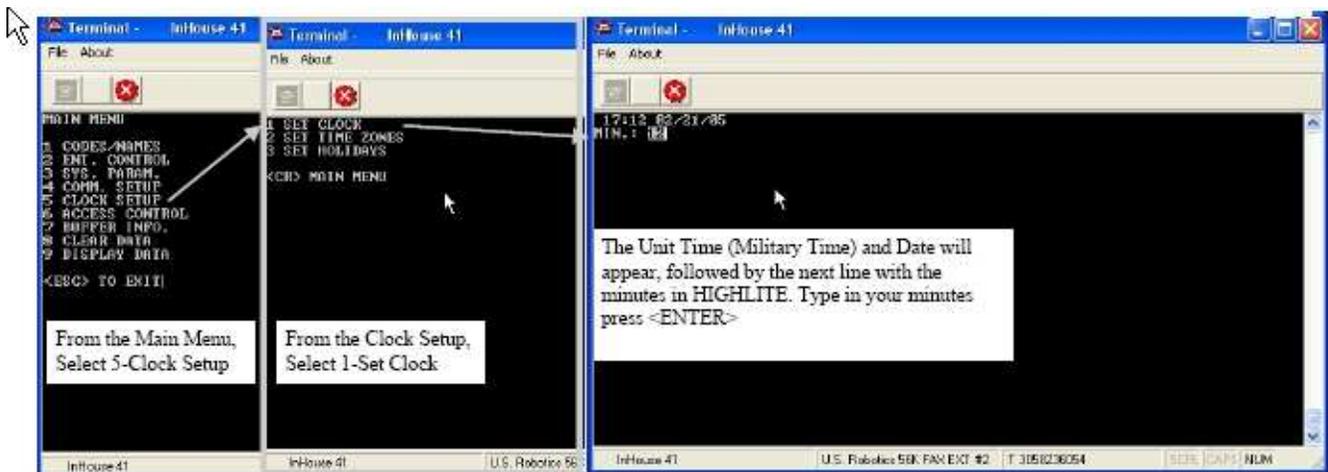


Fig 1. Main Menu      Fig 2. Menu 5      Fig 3. Menu 5-1 (Set Clock) Note: Shows Current Time.



Figure 4. Shows progression for changing the time and date.

AM—PM Time	Military Time
12 Midnight	0
12 Noon	12
1 PM	13
2 PM	14
3 PM	15
4 PM	16
5 PM	17
6 PM	18
7 PM	19
8 PM	20
9 PM	21
10 PM	22
11 PM	23

**Tec Basic**

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**07/10**



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Manual # [600TECSWMANUAL](#)  
Issue Date: 07/10