TELEX RADIO DISPATCH PRODUCTS

Telex System Manager Technical Manual

up to and including version 1.600



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CHAPTER 1 Introduction and Installation

TSM (Telex System Manager) software allows a user to easily configure Telex devices. TSM allows a user to view and manipulate configuration parameters for the IP-223, IP-2002, IP-1616, ADHB-4 and IP-224. In addition, TSM includes the ability to update firmware on the IP-223, IP-2002, IP-1616, C-6200, NEO-10, ADHB-4 and IP-224.

Features

- Detects all Telex devices on the network for easy configuration.
- Views, manipulates, and manages multiple Telex device parameters and settings.
- Saves device configuration files to local disk for backups, archiving, or duplication.
- Records configuration parameters back to the Telex device.
- Imports and exports large device configuration tables into .CSV or .XML formats.
- Selectively copies device parameters from one (1) configuration to another.
- Updates firmware on one (1) or more devices with minimal clicks.

Installation

Requirements

- Windows XP¹ SP2 or higher
- .NET Framework 2.0 or higher
- Windows² Installer 3.1

Files Included

- setup.exe
- SystemManagerSetup.msi
- dotnetfx.exe

^{1.} See "Copyright Notice" on page 2.

^{2.} See "Copyright Notice" on page 2.

To install the Telex System Manager, do the following:

> Double-click **setup.exe** and follow the prompts to continue.

NOTE:

- If the .NET framework 2.0 or greater is not installed on the computer, install the **.NET 2.0 Framework** (double-click the dotnetfx.exe file and follow the prompts). You can also download the newest version from the Microsoft¹ website.
- If a previous version of Telex System Manager is installed, you may be required to uninstall the previous version before continuing. Uninstall TSM using the Windows Add or Remove Programs utility (*Start*|*Settings*|*Control Panel*|*Add or Remove Programs*).

^{1.} See "Copyright Notice" on page 2.

CHAPTER 2 *Window Description*

Basics

To run Telex System Manager, do the following:

- 1. From the Start menu, select **Telex Communications**. *A popup menu appears*.
- 2. From the popup menu, select Telex System Manager. *The Telex System Manager window appears.*

🕮 Telex System Manager		
File Edit View Tools Dia	agnostics Help	
i 📷 🔲 🐘 🔒 🗙 i 🖻 🖕	0 0	
	annel Harved Colo Control	
Processed Devices	eneral Network Gan System	
ADHB-4 - Brent ADH		
Network Devices	Re-download Configuration View in Web Browser	
@ ADUR-1 - Tolor ADU		
ADHB-4 - Telex ADH		
ADHB-4 - Telex ADH	Crush Name Rest (DUD)	
ADHB-4 - Telex ADH	Console Name: Brent ADHB-4	
C-6200 - techsupport	170 10 100 101	
C-Soft - 172.19.100.141	Source: 172.13.120.134	
C Soft - 172.19.100.142		
C-Soft - 172 19 100 18		
C-Soft - 172.19.100.35		
C-Soft - 172.19.100.49	Non-Configurable Settings	
C-Soft - 172.19.100.57	Device: ADHB-4	
C-Soft - 172.19.100.71	Firmware Version: 1.202	
C.Soft - 172.19.100.76	Serial Number: 101261572	
C-Soft - 172 19 100 87	Checksum: C31FBF48	
C-Soft - 172.19.111.75	MAC Address: UUUB:7C:70:01:9D	
C-Soft - 172.19.20.96		
C-Soft - 172.19.50.99		
IP-1616 · Shawn's IP 1616 · Technology		
P-1616 · Techsupport		
IP-2002 · Console		
IP-2002 · Default		
IP-2002 · Mike IPx2002		
IP-2002 · Serial FSync		
Let IP-2/III2 - LechSulP2		
De	vice Info: Type: ADHB-4 Name: Brent ADHB-4 Source: 172.19.120.134 Firmware: 1.202 Webpage	

NOTE: You can also double-click the TSM shortcut created on the desktop.

TSM Main Window

Network Devices

On startup, TSM automatically initiates a multicast ping and each Telex device present on the network responds to the ping with basic information about the device. The detected devices are displayed in the Device List under Network Devices (see Figure 2). The Refresh Device button (see Figure 1) (or the F5 key on the keyboard) can be used to refresh the Device List.



FIGURE 1. Refresh Button

In order for an IP-223, IP-2002, IP-1616, C6200, NEO-10, ADHB-4 or IP-224 to appear in the TSM Device List, the System Manager check box must be selected in the device's Multicast Setup webpage. All other Telex devices (C-Soft and Network Recorder) automatically appear in the Device List.

NOTE: If the computer has an active firewall, TSM may be blocked from accessing the network. In this case, a warning message appears prompting you to allow or block TSM.

Device List

The **Device List**, located in the left pane of the main window displays which device is currently selected. Each device's entry contains the device's type and name (or the device IP Address if its name is not available). Select different devices by clicking the corresponding entry in the Device List. In addition, information about the currently selected device appears in the status bar at the bottom of the application window. Click the blue Webpage link, also located in the status bar, to open the device's Web Browser Configuration.

The Device List contains three (3) different groups:

- Network Devices are devices detected on the network but have no further information associated with them. Their configuration is either unavailable (C-6200, NEO-10, C-Soft Console, and Network Recorder), or proper credentials have not yet been entered (IP-223, IP-2002, IP-1616, ADHB-4, and IP-224). Once credentials have been successfully entered into one of these devices, its configuration is downloaded and the device is moved from the Network Devices group to the Processed Devices group.
- *Processed Devices* are network devices for which TSM has configuration information. Each device in the Processed Devices group has a configuration that can be accessed through the visible tab controls. Devices in the Processed Devices group can be saved to a file by using *File*|*Save As* and choosing a destination. Devices in the Processed Device group can be selected as targets by the *Copy Configuration* utility. For more information, see "Copy Configuration Utility" on page 13. In addition, device configurations in the Processed Device group can be recorded to a device using the *Record to Device* utility. For more information, see "Record to Device Utility" on page 17.
- Local Device Files refer to locally stored device configuration files. Appropriate credentials must be supplied before being able to view and modify the configuration contained within the .vga file. Once proper credentials are entered, devices in the Local Device Files group behave in the same way as devices in the Processed Devices group. Devices in the Local Device Files group can be selected as targets by the "Copy Configuration Utility" on page 13. Similar to Processed Devices, device configurations in the Local Device Files group can be recorded to a device using the Record to Device utility. For more information, see "Record to Device Utility" on page 17.

TABLE 1. Device	List group	quick ref	ference table
	LIDE ALCEP		

	Network Devices	Processed Devices	Local Device Files ^a
Configuration Accessible	No	Yes	Yes
Can be Saved to File	No	Yes	Yes
Record Configuration to Device (source)	No	Yes	Yes
Record Configuration to Device	Yes	Yes	Yes
(destination)	(represents actual device)	(represents actual device)	(represents actual device)
Copy Configuration To (source)	No	Yes	Yes
Copy Configuration To (destination)	No	Yes	Yes
Firmwara Undata (dostination)	Yes	Yes	Yes
Finnware Optiate (destination)	(represents actual device)	(represents actual device)	(represents actual device)

a. Assuming valid credentials entered.



FIGURE 2. Device List Context Menu

🎫 Tel	ex Sys	tem M	ana	ger				
File	Edit	View	То	ols	D	iag	nosti	is i
i 💕 🕻	. De	. 🧶 🕻	×I	đ	•		Ò	0
Proc	essed	Devic	es	^		Ger	neral	Netv
● ADH ● ADH ● ADH	1B-4 - A 1B-4 - B 1B-4 - T	lternate rent ADI elex ADI	C H H					
Net	work D	evices	:					
 ADH ADH ADH ADH ADH C-62 C-51 C-51 C-51 C-51 C-51 C-51 C-51 	HB-4 - P HB-4 - T HB-4 - T 200 - 1 oft - 1 oft - 1 oft - 1 oft - 1	osition 1 elex AD elex AD P: 172.1 DeviceT Name: T Firmware Source:	H H I9.19 ype: elex. : 1.2	1.13 ADH ADH 01 19.1	9 18-4 18-4 91.1	139		
 C-S) C-S) C-S) C-S) C-S) C-S) C-S) 	oft - 172 oft - 172 oft - 172 oft - 172 oft - 172 oft - 172 oft - 172	.19.100 .19.100 .19.100 .19.100 .19.100 .19.100	.35 .49 .57 .58 .71 .76					

FIGURE 3. Device List Hover-Over

The Icon List, located in the left pane of the main window, contains three (3) different colors:

- Blue devices which can only be detected on the network. The configuration for this device type cannot be read or recorded by TSM.
- Red devices which is running a version of firmware not supported by TSM. Device configurations cannot be read or recorded from this device.
- Green devices which are running a version of firmware supported by TSM. Device configurations can be read or recorded from this device.

To display the Device List, do the following:

> Right -click on the **Device List**.

Available options from the popup menu are (see Figure 2):

Refresh - Refreshes the Device List.

Remove - Removes the device from the Device List. If the device is listed in the Network Devices or Processes Devices group, the device appears as a Network Device after refreshing the Device List.

Filter - Choose to filter out certain device types from the Device List.

Copy Configuration - See "Copy Configuration Utility" on page 13.

Record to Device - See "Record to Device Utility" on page 17.

Configuration Tab Pages

TSM supports the ability to view and configure the IP-223, IP-2002, IP-1616, IP-224 and ADHB-4. The parameters shown for each device mirror the device's webpage. However, certain fields, including console name, permanent settings, basic network setup, and the administrator account password are disabled, and are unable to be changed using TSM. These parameters must be manually set using each specific device's Web Browser Configuration. For more information, consult the device user manual. See Figure 4 for and example of the IP-223 Default configuration tab page.

🕮 Telex System Manager		X
File Edit View Tools	Diagnostics Help	
i 💕 🖬 🐘 🗶 🗙 🔯	• 0 0 0	
Processed Devices	General Network General Gain Multicast Serial Over IP Setup Per Line Setup Account Setup Crosspatch Tone Setup	_
		٦
IP-223 - Default		
Network Devices	Re-download Configuration View in Web Browser	
ADHB-4 - Mike Test		
ADHB-4 - Telex ADH		
ADHB-4 - Telex ADH =	Console Namer Date &	
ADHB-4 - Telex ADH	Console memo: Decaw	
ADHB-4 - Telex ADH		
ADHB-4 - Telex ADH	Source: 172.19.50.30	
ADHB-4 - Telex ADH		
C-Soft - 172.19.100.141		
C-Soft - 172.19.100.142		
C-Soft - 172.19.100.145	- Non-Configurable Settings	
C-Solt - 172.19.100.158	- Firmware Settings	
• CSoft - 1/2.19.100.16/	Device: IP-223	
C-Soft - 1/2.19.100.49	Firmware Version: 4.500	
C-Soft - 1/2, 19, 100, 5/	Serial Number: 23293705	
C.S.A. 17219100.9	Checksum: 00000000	
C-Solt - 172 13 100.8	MAC Address: 00-08-7C-32-42-09	
C-Solt - 172 19 100 96		
C-Solt - 172 19 111 75		
CSoft 172.19.20.96		
C-Soft - Santa Fe OP2		
IP-1616 · TechSupport		
IP-2002 - Console		
IP-2002 - Default		
IP-2002 · Mike IPx2002		
IP-2002 - Serial FSync		
AIP-2002 - TechSulP2		
	Device Info: Type: IP-223 Name: Default: Source: 172.19.50.30 Firmware: 4.500 Webpace	
	some som typer a sam tenner and an and at the transformer filling of the transformer	

FIGURE 4. Example of IP-223 Configuration Tab Page

chapter 3 Operation

Copy Configuration Utility

The **Copy Configuration Utility** allows the user to selectively copy a device's configuration parameters to another device. Both the source device and the destination device must be in the Processed Devices or Local Device Files group with the proper credentials entered. In addition, both device types must be the same.

EXAMPLE: You can copy an IP-223 configuration to another IP-223; however, you cannot copy an IP-223 configuration to an IP-2002 configuration.

In order to use the Copy Configuration Utility, at least two (2) devices must be contained in the Processed Devices or Local Device Files group, since a source device and destination device are required.

To open the Copy Configuration window, do the following:

- From the Edit menu, select Copy Configuration. OR Right-click a device. A popup menu. appears.
- 2. From the popup menu, select **Copy Configuration**. *The Copy Configuration window appears*.

Copy Configuration		
Source Device	Destination Device	Parameters to Copy
Processed Devices	Processed Devices	All Parameters
IP-1616 - Huan Test 4 IP-223 - Test 1 Local Device Files	IP-223 - Test 1	Ethernet Setup Cocal Console List Packets Setup
IP-223 - Console #1 IP-223 - Console #2 IP-223 - Console #3 IP-223 - Console #4 IP-223 - Console #5	IP-223 - Console #1 IP-223 - Console #2 IP-223 - Console #4 IP-223 - Console #5	 Handset Gain Handset Gain Line Gain Multicast Line Multicast Setup Additional Line Multicast Setup Per Line Line 1 ANI Decoder COR Cons Cons<
		Copy Parameters Cancel

The Copy Configuration window contains three (3) group boxes.

Source Device Group Box

The **Source Device** group box contains all possible source devices. Source devices are directly obtained from the Processed Devices and Local Device Files groups.

Destination Device Group Box

The **Destination Device** group box contains all the available destination devices. These devices must meet three (3) criteria:

NOTE:

- The destination device is contained in the Processed Devices or Local Device Files group, and therefore the configuration must be accessible.
- The destination device type matches the device type of the selected source device.
- The destination device is not the same as the source device.

Parameters to Copy Group Box

The **Parameters to Copy** group box displays the parameters available to copy from the source device to the destination device.

To copy parameters from one device to another, do the following:

- 1. From the Source Device group box, select the device from which you want to copy the configuration.
- 2. From the Destination Device group box, select the device to which you want to copy the configuration.
- **3.** From the Parameters to Copy group box, select the **parameters** to copy. *A check mark appears in the check box when the option is selected.*

NOTE: Multiple devices can be selected as destinations. To select multiple destinations, hold the Ctrl or Shift keys on the keyboard and select additional entries in the Destination Device group box.

4. Click Copy Parameters.

The selected parameters from the Parameters to Copy group box are copied from the selected source device to the selected device destinations.

Import/Export Table Utility

Due to the large number of entries in certain device configuration tables, the Table Data Import/Export Utility is able to import data directly into or export table data out of a device's configuration (see Figure 5).

5 Channel Mode Radio 1 💌 XPTCH Add String Dele	IP Address	Rx Tx umber	IP Address Port 0 0 0 0 1054 0 0 0 0 1054
Import			OK Cancel

FIGURE 5. Import/Export Table Data

Tables can be imported and exported in either .xml or .csv format. If desired, .csv files can be exported, edited using a third-party spreadsheet program, and finally re-imported into TSM.

The Import/Export Table Utility is available for (the following tables are arranged by device type).

IP-223

- Per Line Setup Function Tone
- Per Line Setup CTCSS Setup
- Per Line Setup ANI Decoder
- Crosspatch ➡ Crosspatch Table
- Crosspatch Pin Table

IP-2002

- Per Line Setup Function Tone
- ID Directory
- Paging Directory

IP-1616

- Per Line Setup Function Tone
- ID Directory
- Paging Directory

IP-224

- Per Line Setup ➡ Function Tone 1
- Per Line Setup ➡ Function Tone 2

Record to Device Utility

The **Record to Device Utility**, shown in the Record Configuration Window, is used to store configuration information back to a device on the network. The source device must be in either the Processed Devices or Local Device Files list. In addition, the source configuration's device type must match the device type of the destination device on the network.

To open the Record to Device Utility, do the following:

- From the Tools menu, select Record Configuration to Device. OR Right-click a device. A popup menu. appears.
- **2.** From the popup menu, select **Record to Device**. *The Configuration window appears.*

Record Configuration	×
Source Device	Destination
Processed Devices IP-1616 - Huan Test 4 IP-223 - Test 1 Local Device Files IP-223 - Console #1 IP-223 - Console #2 IP-223 - Console #3 IP-223 - Console #4 IP-223 - Console #4	1.2.3.4 172.19.50.51 · Console #1 172.19.7.10 · Test 1 172.19.7.101 · Test 2 172.19.7.11 · Test 2 172.19.7.12 · Test 3 172.19.7.13 · Test 4 172.19.7.14 · Test 5 172.19.7.15 · Test 6 172.19.7.16 · Test 7 172.19.7.17 · Test 8 172.19.7.19 · Test 10 172.19.70.220 · Dan's Rev F
Login Username: admin Password:	Manual Entry 1.2.3.4 Record

Source Device Group Box

The **Source Device** group box contains all devices contained in the Processed Devices or Local Device Files group with available configurations.

Destination Device Group Box

The **Destination Device** group box contains the IP Address and name (if available) of all devices detected during the last Device List refresh.

NOTE: Multiple devices can be selected as destinations. To select multiple destinations, hold the Ctrl or Shift key on the keyboard, using the mouse click the desired destination devices.

Login Group Box

The Login group box is used to enter a username and password.

In the Password field, enter an appropriate password.

In order to record configuration to a device, proper credentials must be entered. The Record Configuration Utility first attempts to use the username and password specified. If the credentials are invalid, a prompt is displayed asking for new credentials. This is useful when recording a configuration to multiple devices with different user names or passwords.

Manual Entry Group Box

The **Manual Entry** group box is used to manually enter the device's IP address if the desired device does not appear in the Destination Device List.

If a desired device does not appear in the Destination Device List, the device's IP Address can be manually entered using the Manual Entry field. Once an IP Address is entered into the IP text box, you need to push the green plus button. The IP Address just entered is added to the Destination List, and is then selectable as a designating. Multiple destinations can be manually entered in this way.

Firmware Update Tool Window

The **Firmware Update Tool** window, shown in Figure 6, is capable of updating the firmware on the IP-223, IP-2002, IP-1616, C-6200, NEO-10, ADHB-4 and IP-224 devices.

To open the firmware update tool window, do the following:

> From the Tools menu, select **Firmware Update**. *The Firmware Update Tool window appears*.

Firmware Update Tool	8
File: C:\Temp\IP223Latest.tfb	▼ 📔
Firmware File Info	
Device Type: IP-223	Version: 4.009
Date: 6/13/2008	Checksum: 9820951C
Destination	Manual Entry
1.2.3.4 172.19.60.69 - Brando IP223 172.19.7.11 - Test 2 172.19.7.13 - Test 4 172.19.7.15 - Test 6 172.19.7.17 - Dan Test 8 172.19.7.19 - Test 7 172.19.7.20 - Test 8 172.19.72.111 - Ryan IP223 172.19.80.80 - Mike's IP223	1.2.3.4 Login Username: admin Password: Write Firmware Close

FIGURE 6. Firmware Update Tool Window

Firmware File Info Group Box

The Firmware File Info group box is used to display the information about selected firmware files.

Destination Group Box

The **Destination** group box is used to display the device to which you want to update the firmware.

From the Destination list, select the device to which you want to update the firmware.

NOTE: Multiple devices' firmware can be updated in parallel by selecting multiple devices from the Destination Device List. To select multiple destination devices, hold the Ctrl or Shift key on the keyboard and click on each additional device in the Destination Device List.

Manual Entry Group Box

The Manual Entry group box is used to display a device's IP address that does not appear in the destination list.

NOTE: All devices appearing in Device List with a matching device type appear in the Firmware Update window's Destination list. If a desired device does not appear in the Destination list, you can enter the device's IP Address manually using the Manual Entry field. Once an IP Address is entered into the IP text box, you need to push the green plus button. The IP Address just entered is added to the Destination List, and is then selectable as a destination. Multiple destinations can be manually entered in this way.

Login Group Box

The Login group box is used to enter a user name and password.

In the Password field, enter an **appropriate password**.

NOTE: In order to update a devices' firmware, proper credentials must be entered. The Firmware Update tool first attempts to use the password specified. If the credentials are invalid, a prompt is displayed asking for new credentials. This is useful when updating firmware to multiple devices with different admin account passwords.

To update the firmware on a network device, do the following:

- 1. Click the **browse icon** to navigate to the folder where the firmware file is stored.
- 2. Select the firmware file.

Once a file is selected, information about the selected firmware files appear in the Firmware File Info Group Box.

NOTE: If you have already accessed the firmware file, and established the location, you can use the drop down menu to select previously established file location.

Firmware File Info				
Device Type:	IP-223	Version:	4.009	
Date:	6/13/2008	Checksum:	9820951C	

3. Click Write Firmware

The **Firmware Update Tool** window appears listing all selected devices, a progress bar, and up-to-date status information for each device.

Firmware Update Tool	_			
Device	Progress	Status		
172.19.7.11 - Test 2 172.19.7.13 - Test 4		Device is writing to flash. Waiting for response Device is writing to flash. Waiting for response		
172.19.7.15 - Test 6		Transferring firmware file		
172.19.7.19 - Test 7 172.19.7.20 - Test 8		Retrieving Device Firmware Information Retrieving Device Firmware Information		
		Close		

Options

The **Options Window** allows the user to change the settings of the TTL, Device Detection Timeout, Configuration Update Timeout, and the Firmware Update Timeout.

To open the Options Window, do the following:

> From the Tools menu, select **Options**. *The Options Window appears*.

Options		x	
Network Settings			
Network Interface:	terface: Intel(R) 82579LM Gigabit Network Connection		
TTL:	Intel(R) Centrino(R) Advanced-N 6205 Intel(R) 82579LM Gigabit Network Connection		
Device Detection Timeout:	500 ms		
Configuration Update Timeout:	300 ms		
Firmware Update Timeout:	180 sec		
Restore Defaults	ОК		

FIGURE 7. Options Window

Network Interface Drop Down Menu

The **Network Interface** drop down menu is used to select the appropriate network interface used. TSM detects the options shown in this menu. The options available for detection by TSM are dependent upon the hardware installed on the individual computer.

TTL Field

The **TTL** field sets the Time To Live value for the multicast ping packet. The multicast ping packet is sent from TSM to detect all Telex devices on the network.

The range for this field is 1 to 128.

The default for this field is 10.

Device Detection Timeout

The **Device Detection Timeout** field determines the time period in milliseconds TSM will wait for devices to respond to a multicast ping request.

The range for this field is 0 to 10.

The default for this field is *1*.

Configuration Update Timeout

The **Configuration Update Timeout** field determines the time period, in milliseconds, TSM will wait for a device to respond to a request to read or record a device's configuration.

The range for this field is 100 to 9999.

The default for this field is 300.

Firmware Update Timeout

The **Firmware Update Timeout** field determines the time period in seconds TSM will wait for a device to respond to a request to upload a device's firmware.

The range for this field is 180 to 9999.

The default for this field is 180.

Restore Defaults

The Restore Default button restores parameters to default values.

System Manager Notes

- Telex System Manager is compatible with the device/software listed in Table 2.
- Telex System Manager uses two (2) ports:

(UDP) 7635 and 7636 for device detection (TCP) 21 for FTP Transfer for Firmware Update

• To Cut, Copy, or Paste an IP Address into an IP Text Box, use Ctrl+x (cut), Ctrl+c (copy), or Ctrl+v (paste) while the IP Text Box is active. The entire IP Address is copied into or pasted from the clipboard, not just the selected octet.

	Detected in Device List	Configuration Available	Firmware Update
IP-223 version 4.505 or higher	Yes	Yes	Yes
IP-2002 version 4.100 or higher	Yes	Yes	Yes
IP-1616 version 4.100 or higher	Yes	Yes	Yes
C-6200 version 4.100 or higher	Yes	No	Yes
NEO-10 version 4.001 or higher	Yes	No	Yes
C-Soft version 4.100 or higher	Yes	No	No
Network Recorder version 4.200 or higher	Yes	No	No
ADHB-4 version 1.300 or higher	Yes	Yes	Yes
IP-224 version 1.300 or higher	Yes	Yes	Yes

 TABLE 2. Telex Device/Software compatibility reference

Bosch Security Systems, Inc.

12000 Portland Avenue South Burnsville, MN 55337 U.S.A. www.boschcommunications.com