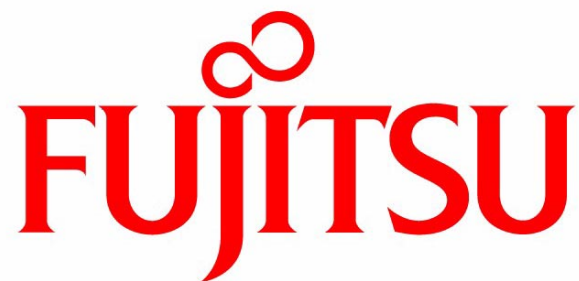


U-Scan5 Site Preparation & Installation Guide

FUJITSU

THE POSSIBILITIES ARE INFINITE



Title:	U-Scan5 Site Preparation and Installation Guide
Date:	July 7, 2004
Version:	Retalix U-Scan5/24" Attendant Station
Audience	Corporate clients and technicians

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Introduction

The U-Scan® Self-Checkout system is an automated self-service checkout solution for the retail customer. Once installed, the U-Scan system enables customer self-service and requires minimal intervention by Attendant Station personnel.

U-Scan Supported Operating Systems

The typical store layout for the U-Scan system includes one Attendant Station with four Customer Stations. The U-Scan system supports the following POS applications:

- IBM 4680/90
- NCR Unity
- ICL 155400
- POS 6300
- UNIX ACR
- UNIX Innovax/Aurora
- Retailix

This document describes the site preparation and installation requirements for the Retailix POS application.

This document includes:

- Physical dimensions of major components
- Space requirements
- Electrical power requirements
- Cabling requirements
- System network requirements necessary for installation of the U-Scan

2

Site Preparation

Site Layout

A standard layout of the Attendant Station and Customer Stations is illustrated below:

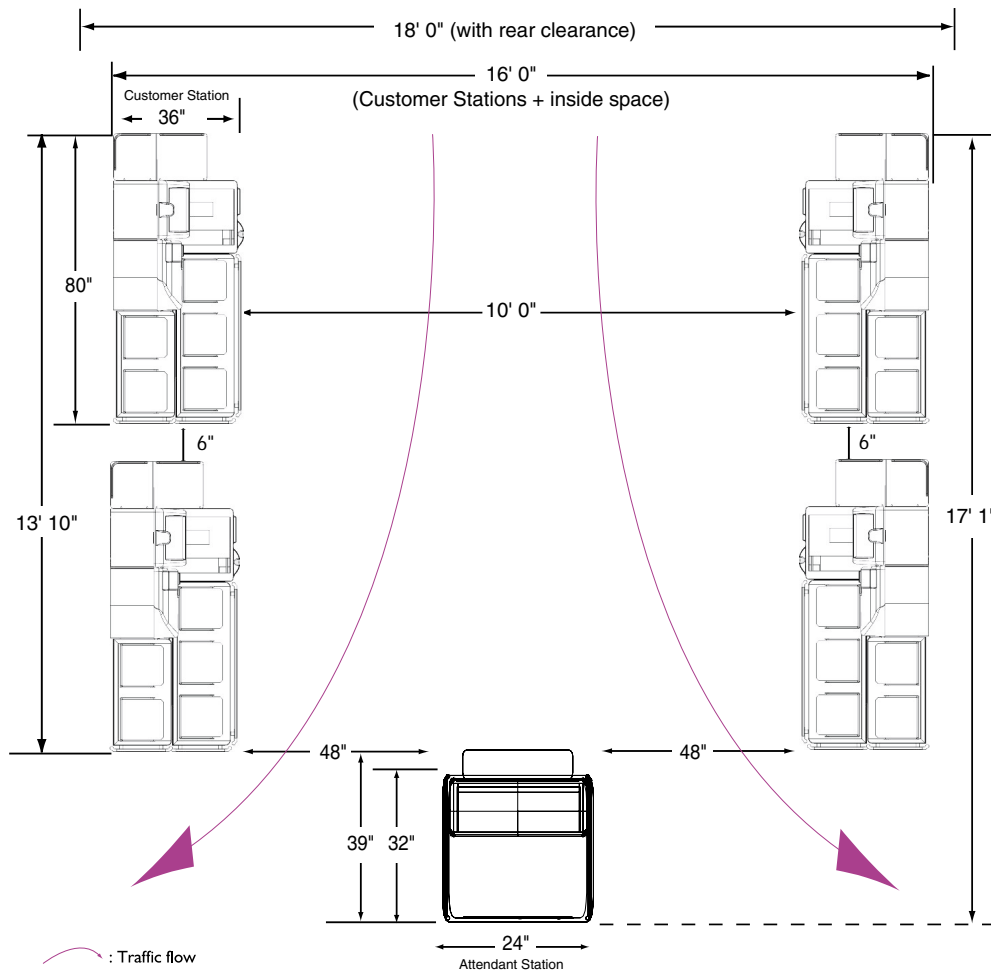


Figure 2.1 Four U-Scan5 Customer Stations with 24" Attendant Station floor plan

Your site may require a different look due to unique characteristics of your store and available floor space. Fujitsu performs a site survey prior to installation to assist in site planning and integration of the U-Scan system into your store's existing traffic flow patterns.

Local Codes

Consult the local fire department and building department for fire, safety, and electrical codes applicable in your area.

Critical Layout Issues

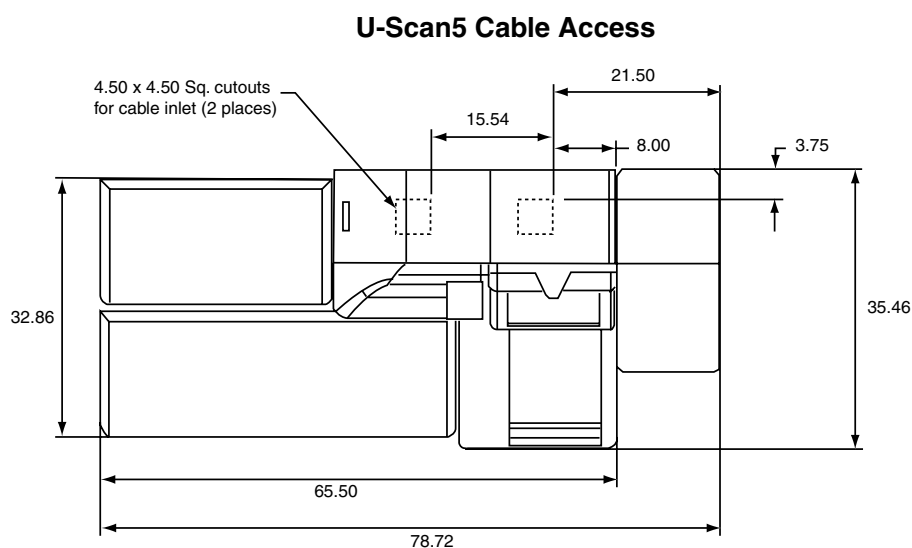
Adhering to the following recommendations will help ensure successful installation and operation. The space requirements critical to traffic flow and maintenance access are:

- A traffic flow area equal to at least three times the width of a shopping cart between the left and right Customer Stations. It is recommended in all layouts to place the Customer Station with its front panel flush with the rearmost panel of the rear lanes.
- A distance of 48 inches must exist between the Attendant Station and the nearest spot on the Customer Station case. This space ensures adequate space for customers to exit the self-checkout area. This space may be calculated diagonally.
- A one foot clearance **behind** the Attendant Station and Customer Stations is required if the Attendant Station and Customer Stations are backed against a wall.

Communication and Cabling Access

Customer Station

Clearance space between the floor and the Customer Station cabinet for a power or communication outlet can vary between 3 to 5 inches. Multiple openings in the cabinet bottom provide cable access. The power supply mounts to a removable tray to facilitate cabling. When the Customer Station is installed, levellers are used to bring it flush with the ductwork.



Note: all units are in inches

Figure 2.2 Customer Station communication and cabling access

Attendant Station

Clearance space between the floor and the Attendant Station cabinet for a power or communication outlet can vary between 3 to 5 inches. Cable routing into the Attendant Station is through the bottom of the cabinet. The removable panels allow cable routing into the cabinet. Openings in the cabinet floor and wall facilitate routing cables within the cabinet. Once the Attendant Station is installed, its adjustable levellers are used to bring the station flush with the duct-work.

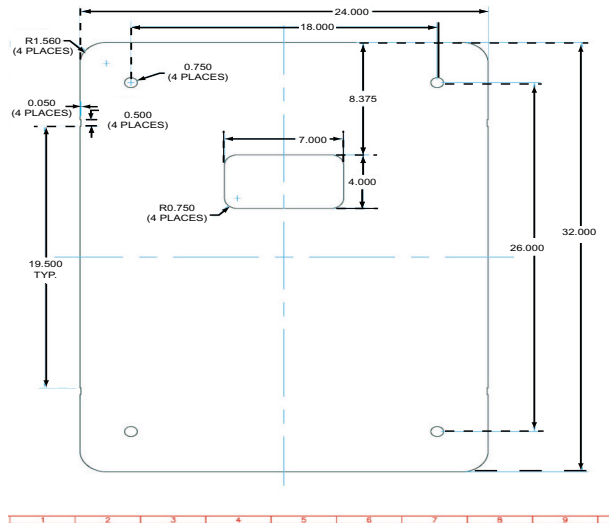


Figure 2.3 24" Attendant Station communication and cabling access

Electrical Power Requirements

Before installing the U-Scan system, verify that your electrical service matches the U-Scan system's requirements. The U-Scan system has been engineered for compatibility with electrical systems that operate in ranges from 100 to 130 VAC at 60 Hz. The recommended system configuration includes four Customer Stations and one Attendant Station.

Each U-Scan Customer Station and Attendant Station requires:

- One dedicated 110-volt, 20 amp AC electrical circuit with a minimum of one outlet.

NOTE: *These requirements are for your U-Scan system only and do not take into account any extra electrical devices such as overhead lighting or marketing system printers. These devices should be connected on different outlets than those used for the U-Scan system.*

CAUTION:

Safe operation of your U-Scan system requires properly grounded electrical outlets. You

must have a qualified electrician certify the earth-ground connection on the AC circuits used to power your system.

AC Power Supply

There is one Uninterrupted Power Supply (UPS) for each Customer and Attendant Station. The power cord that connects the power supply to the AC outlet is the only part that may be unique to your installation.

The input ratings of the U-Scan power supply are:

VOLTAGE	FREQUENCY	CURRENT (RMS)
100 - 130 VAC	60 HZ +5%	20 Amps @ 110V

Every effort is made to ensure that your U-Scan system is compatible with your electrical system. If the power cord will not plug into your AC power receptacle, contact Fujitsu immediately.

Delivery Issues

Access from the loading area to the installation site requires a minimum allowance of the following dimensions:

WIDTH	HEIGHT	LENGTH
36"	52"	80"

The Attendant Station and Customer Stations are shipped on wheels for ease of movement. Once on site, the stations are stabilized on the built-in adjustable legs. Removing the shipping wheels is optional but recommended.

Shipping Specifications

The U-Scan system is shipped encased in shrink wrap and wrapped in blankets to prevent damage.

NOTE: *The system should be inspected for damage on arrival. If unable to do so, acknowledge receipt on the waybill but include that the system has **not** been inspected for damage.*

Required Tools

Ordinary hand tools are required.

System Cable Requirements

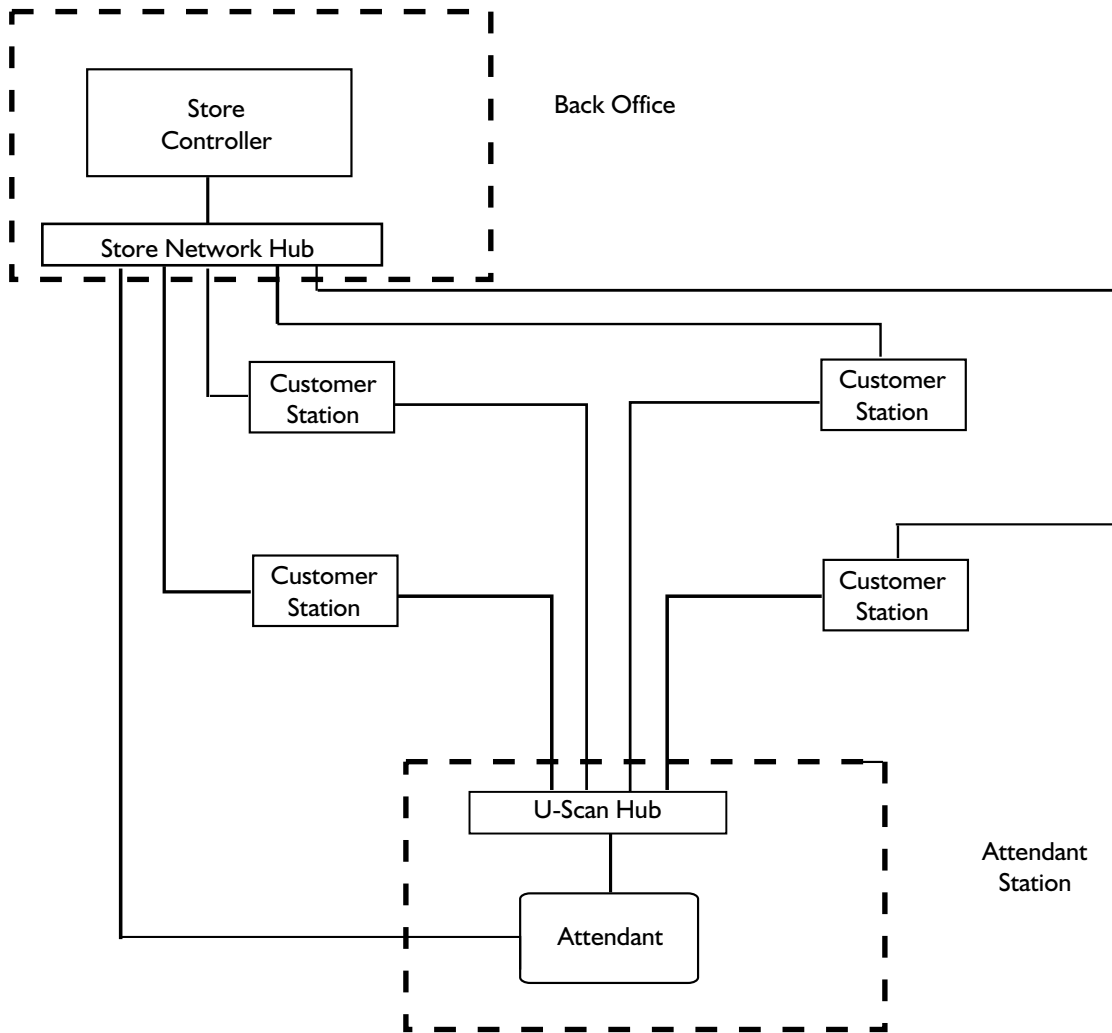


Figure 2.4 U-Scan system cable connections

Figure 2.4 demonstrates the system cable requirements for the U-Scan system. Cabling for the Customer Stations EFT device must be installed by you and is not included in the diagram. The overall network hub configuration may vary from site to site.

3

Installation

Pre-Installation Check

Before installing the Customer Stations, verify that:

- AC Power plugs are installed.
- System cables are routed between the U-Scan site and the Store Controller.
- System cables are labeled properly.

Attendant Station

Most of the Attendant Station's core components are mounted in the cabinet at the installation site. See Figure 3.1. The core components include:

- Computer
- Touch Screen Monitor
- Keyboard
- Network Hub
- Handheld Scanner
- Receipt Printer /Check Endorser
- Cash Drawer
- Serial I/F Box Ports (1-8)
- Relay SEM /Beeper (not shown in Figure 3.1)
- Uninterruptable Power Source (UPS)
- Modem

Figure 3.1 shows the core components of the Attendant Station.

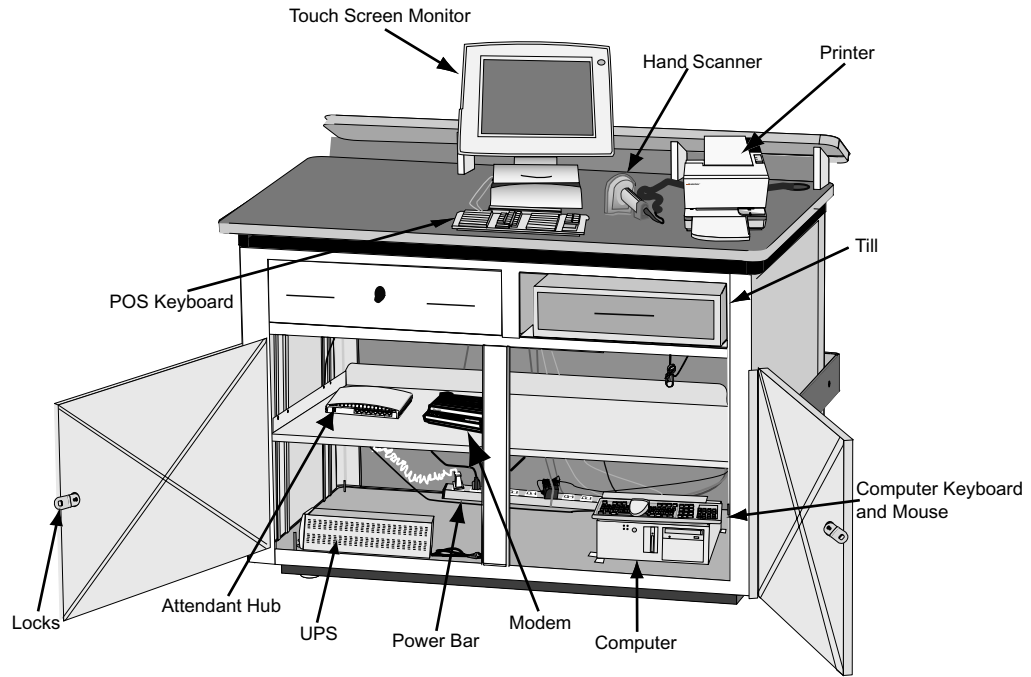


Figure 3.1 Attendant Station core components

Attendant Station Cable Connections

The following table lists the required internal cable connections corresponding with Figure 3.2. Procedures for installing each core component are described beginning on page 12.

Core Component	Required Cable
1 Touch Screen - Computer:	System supplied cable
2 Touch Screen VGA - Computer (AGP)	System supplied cable
3 Cash Drawer - Printer/Endorser:	System supplied cable
4 Keyboard - Computer:	System supplied cable
5 POS Keyboard - Computer:	Customer supplied
6 Serial I/F Box - Computer:	System supplied cable
7 Printer/Check Endorser - Serial I/F Box (Port 5):	RS-232 serial cable
8 Handheld Scanner - Serial I/F Box (Port 6):	RS-232 serial cable
9 SEM (Beeper) - Serial I/F Box (Port 7):	RS-232 serial cable
10 Modem - Computer:	System supplied cable

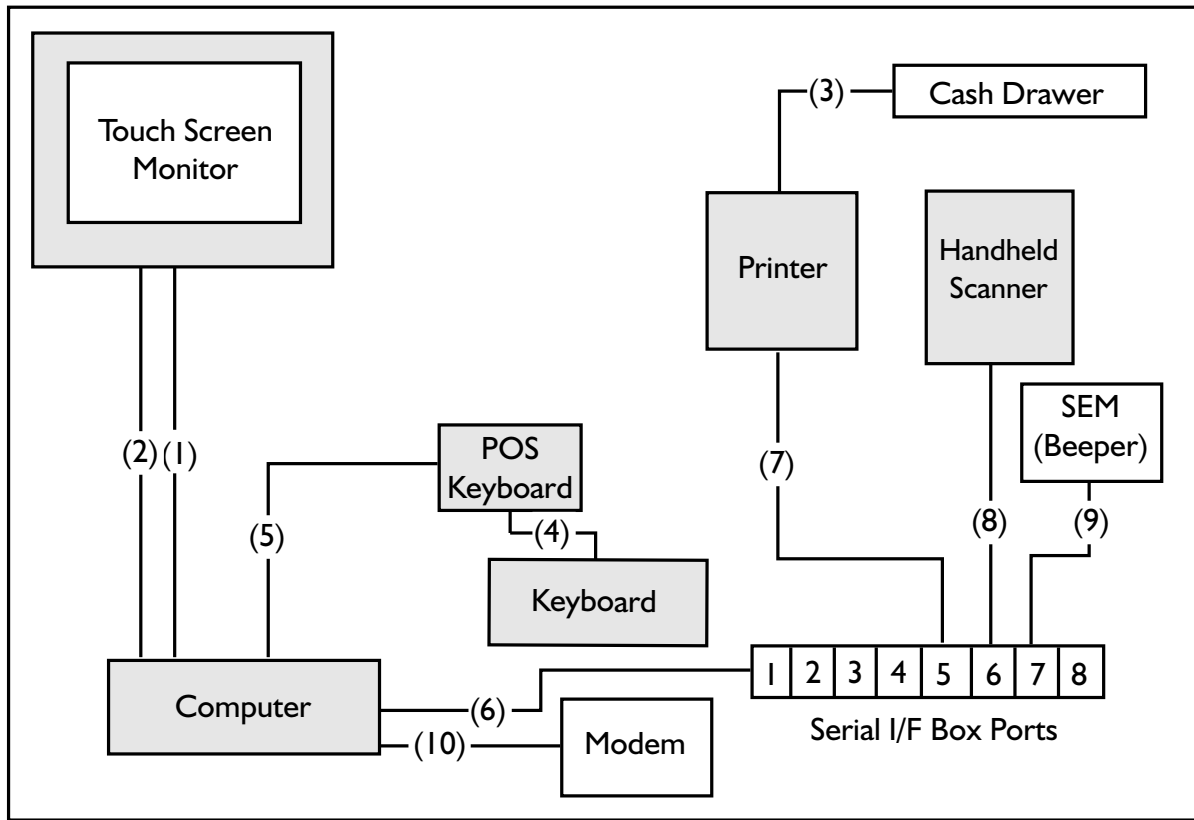


Figure 3.2 Attendant Station cable requirements

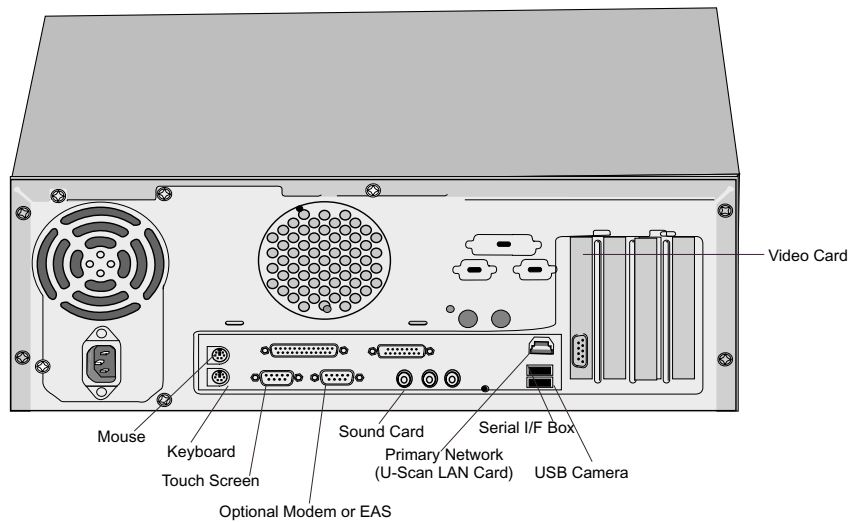


Figure 3.3 Attendant Station Computer and Serial I/F Box connections

Touch Screen Monitor

To install the Touch Screen Monitor:

1. Route the two monitor cables (Touch Screen Control and VGA) through the counter-top access hole to the Attendant Station's Computer.
2. Plug the 9 pin (female) connector into the Touch Screen Control port on the back of the Attendant Station's Computer. See Figure 3.3.
3. Connect the 15 pin (male) connector into the Computer's Monitor port.

Keyboard

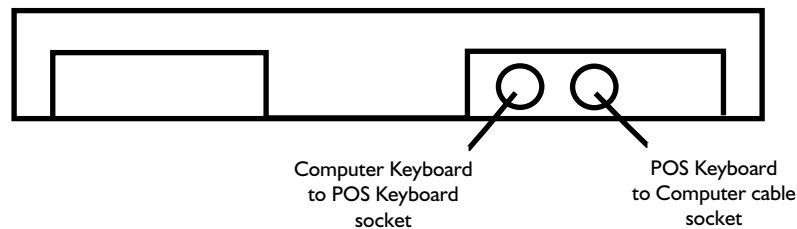


Figure 3.4 Rear of POS Keyboard

To install the POS Keyboard:

1. Place the standard Computer Keyboard in the Attendant Station's case.
2. Route the Keyboard cable through the counter-top access hole to the location of the POS Keyboard.
3. Insert one end of the POS Keyboard cable into the Computer Keyboard. See Figure 3.4.
4. Place the POS Keyboard on the counter-top and route its cable through the counter-top access hole to the Attendant Station's Computer.
5. Plug the POS Keyboard into the Attendant Station Computer. See Figure 3.3.
6. Plug the Computer Keyboard cable into the appropriate Computer Keyboard socket on the back of the POS Keyboard.
7. Route the Computer Keyboard's cable through the counter-top access hole and plug it into the appropriate Keyboard socket at the back of the POS Keyboard.

Printer and Check Endorser

To install the Printer and Check Endorser:

1. Route the Printer cable through the countertop access hole to the Serial I/F Box.

-
2. Plug the 25 pin RS-232 cable into port 5 of the Serial I/F Box.
 3. Plug the Cash Drawer into the Printer.

Handheld Scanner

To install the Handheld Scanner:

1. Route the Handheld Scanner cable through the counter top access hole to the Serial I/F Box.
2. Plug the RS-232 cable into port 6 of the Serial I/F Box.
3. Plug the AC Adapter mini plug into the side of the RS-232 cable.

Customer Station

Most of the Customer Station's core components are mounted in the cabinet at the factory. The Customer Station core components include:

- Computer
- Touch Screen Monitor
- Scanner/Scale
- Bill Acceptor
- Coin Acceptor
- Stationary Bagging Scale
- Speaker
- Bill Dispenser
- Coin Dispenser
- Receipt Printer
- Signature Capture
- SEM (Beeper)
- Serial I/F Box
- UPS

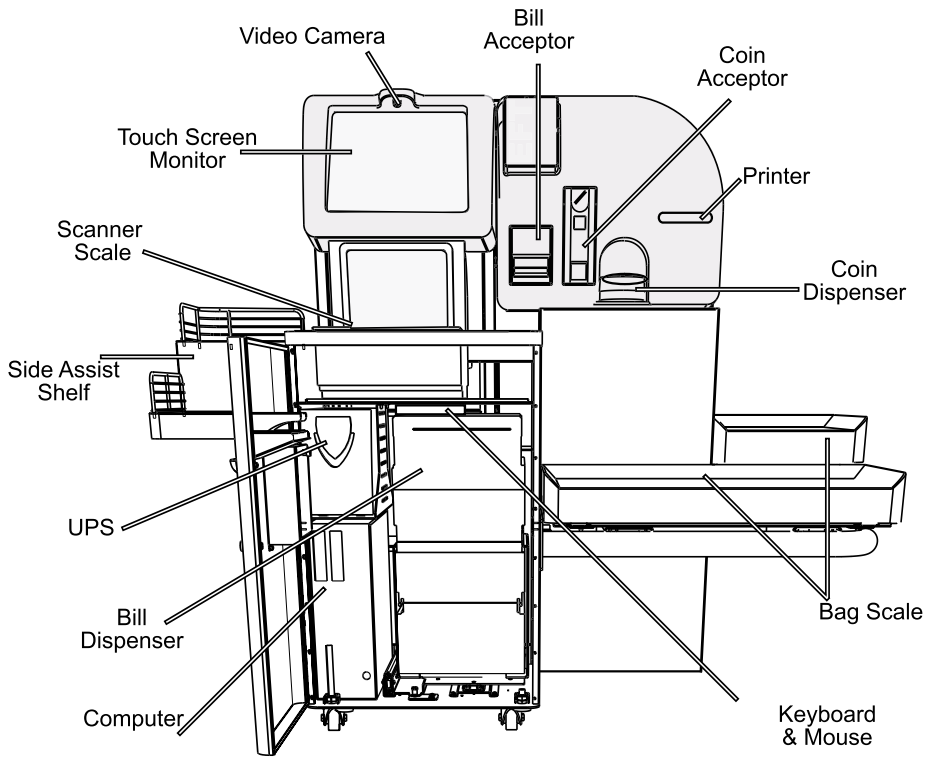


Figure 3.5 Customer Station components

Cable Connections

The cables and AC plugs of site-installed components are in the cabinet, ready to be connected. You must provide the EFT equipment which is installed at the site. Follow the applicable manufacturer's instructions for installing the EFT. See "Appendix" on page 31 for further information on cables and connectors.

The following table lists the required internal cable connections corresponding with Figure 3.6.

Core Component	Required Cable
1 Bill Dispenser - Serial I/F Box:	RS-232 serial cable
2 Touch Screen - Computer:	System supplied cable (TS/VGA)
3 Serial I/F Board - Computer:	System supplied cable
4 Scanner/Scale - Serial I/F Box (Port 3):	RS-232 serial cable
5 Bagging Scale - Computer	RS-232 serial cable
6 Receipt Printer - Serial I/F Box (Port 6):	RS-232 serial cable
7 Coin Dispenser - Serial I/F Box (Port 1):	RS-232 serial cable
8 SEM - Serial I/F Box (Port 5):	RS-232 serial cable

9 SEM - Coin Acceptor:	System supplied cable
10 EFT - Serial I/F Box (Port 4):	RS-232 serial cable
11 Bill Acceptor - Serial I/F Box (Port 8):	RS-232 serial cable
12 Speaker – Computer:	22 AWG speaker wire

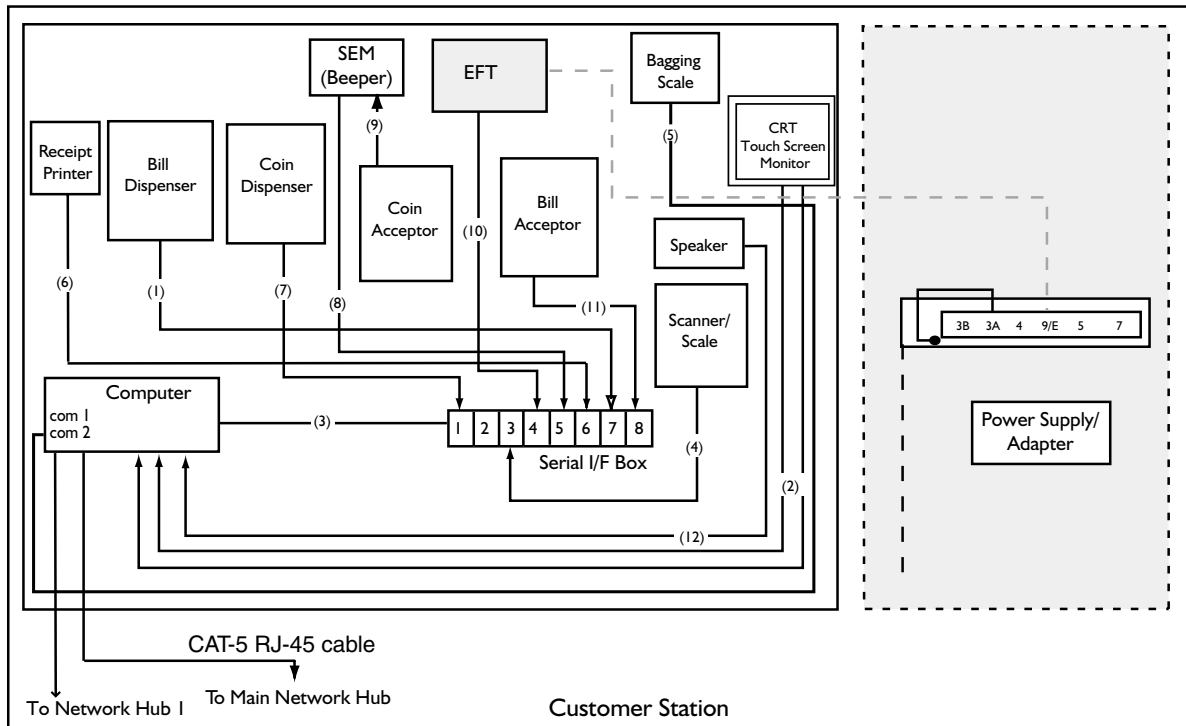


Figure 3.6 Customer Station cable requirements

Connecting the U-Scan System to the Store Controller

System Cable Requirements

The system cable requirements for each Customer Station are demonstrated below:

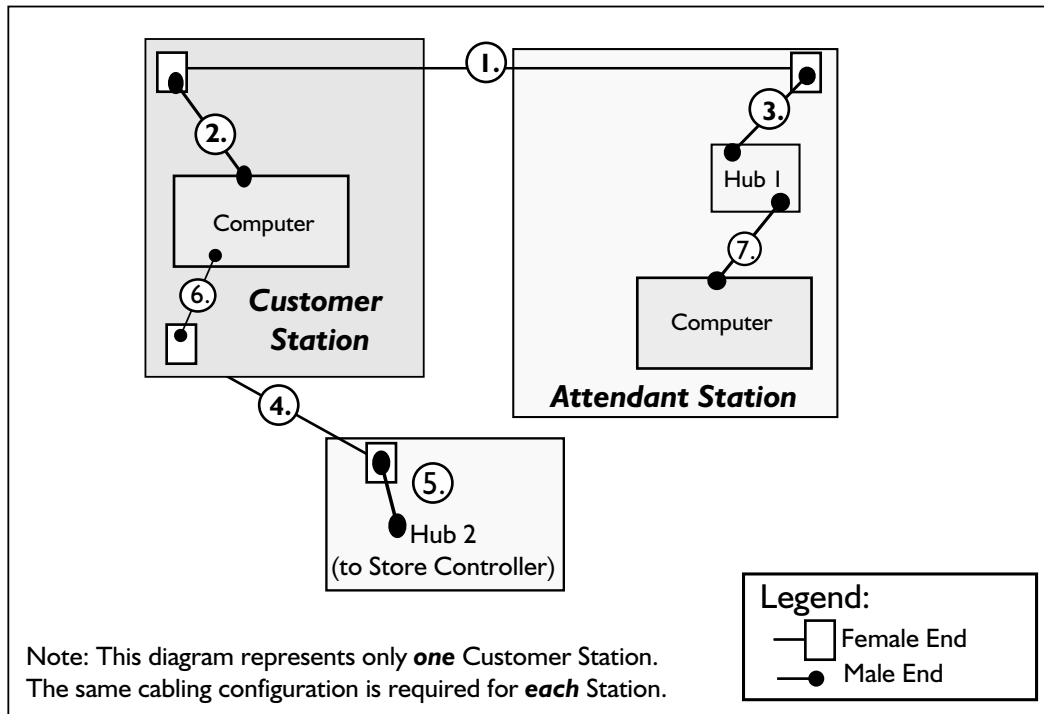


Figure 3.7 U-Scan system cable requirements

The cables listed in the table below are required. Note that the numbers and letters listed in the first column correspond to the numbers and letters in Figure 3.7.

#	From:	To:	Connector Type	Gender	Cable	Quantity
1.	Customer Station	Attendant Station	RJ-45 Ethernet Jack	Female (both ends) Bix Box	10 Base-T Cat 5	1 for each station
2.	Customer Station Computer	Network Hub 1 (Via cable #1)	RJ-45 Ethernet Jack	Male (both ends)	10 Base-T Cat 5	1 for each station
3.	Network Hub 1	Customer Station (via cable #1)	RJ-45 Ethernet Jack	Male (both ends)	10 Base-T Cat 5	1 for each station
4.	Customer Station	Network Hub 2	RJ-45 Ethernet Jack	Female (both ends) Bix Box	10 Base-T Cat 5	1 for each station

#	From:	To:	Connector Type	Gender	Cable	Quantity
5.	Customer Station	Network Hub 2 (via cable #4)	RJ-45 Ethernet Jack	Male (both ends)	10 Base-T Cat 5	1 for each station
6.	Network Hub 2	Customer Station (via cable #4)	RJ-45 Ethernet Jack	Male (both ends)	10 Base-T Cat 5	1 for each station
7.	Attendant Station Computer	Network Hub 1	RJ-45 Ethernet Jack	Male (both ends)	10 Base-T Cat 5	1 for each station

Connecting to the Store Controller

To connect the U-Scan system to the store's controller for an ethernet configuration:

1. Install one patch-block terminated network cable from each Customer Station to the Attendant Station.
2. Connect each of the female-ended network cables to Network Hub 1 using 10 Base-T patch cables.
3. Connect each Customer Station's Computer to the jack marked Network Hub 1 using a 10 Base-T patch cable.
4. Connect the Customer Station with an Ethernet communications card (BNC Connector and a RJ-45 connector) to the jack marked Network Hub 2 with a 10 Base-T patch cable.

To connect the U-Scan system to the store's controller for a token ring configuration:

1. Install one female-ended network cable from each Customer Station to the Attendant Station.
2. Connect each of the female-ended network cables to Network Hub 1 using 10 Base-T patch cables.
3. Connect each Customer Station's Computer to the jack marked Network Hub 1 using a 10 Base-T patch cable.
4. Connect the TSNT Customer Station with the Token Ring communications card to the jack marked Network Hub 2 using a 10 Base-T patch cable.

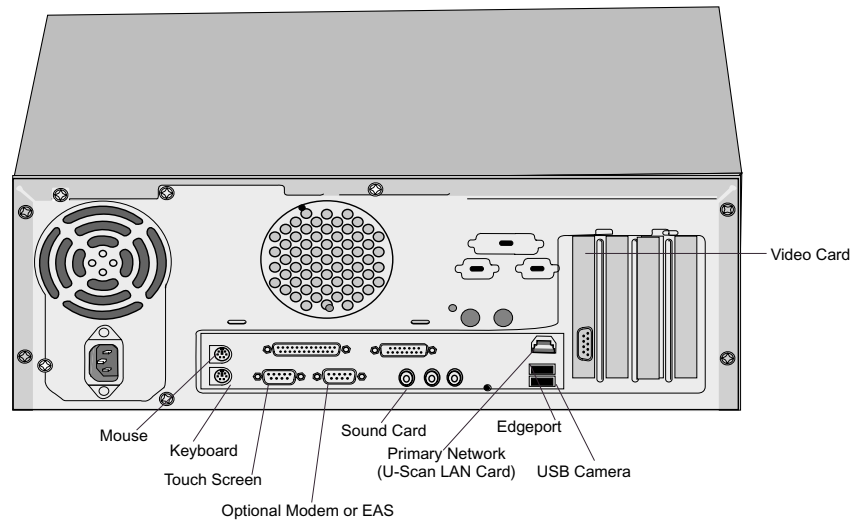


Figure 3.8 Customer Station Computer

Attendant Station

Connect the Attendant Station Computer to Network Hub 1 using a 10 Base-T cable with an RJ-45 cable interface.

NOTE: *Network Hub 1 may be several hubs connected together to function as a single hub.*

Network Hub

Connect Network Hub 2 (the Store Controller Hub) to the store's main Network Hub using a 10 Base-T cable.

NOTE: *Network Hub 2 may be several hubs connected together to function as a single hub.*

The hardware installation for the U-Scan system is complete.

4

Store Controller Setup

The U-Scan system integrates easily into your store's existing setup. Your **ISS45 Office** software allows you to add U-Scan terminals, users, and settings according to your store's requirements.

Server Setup

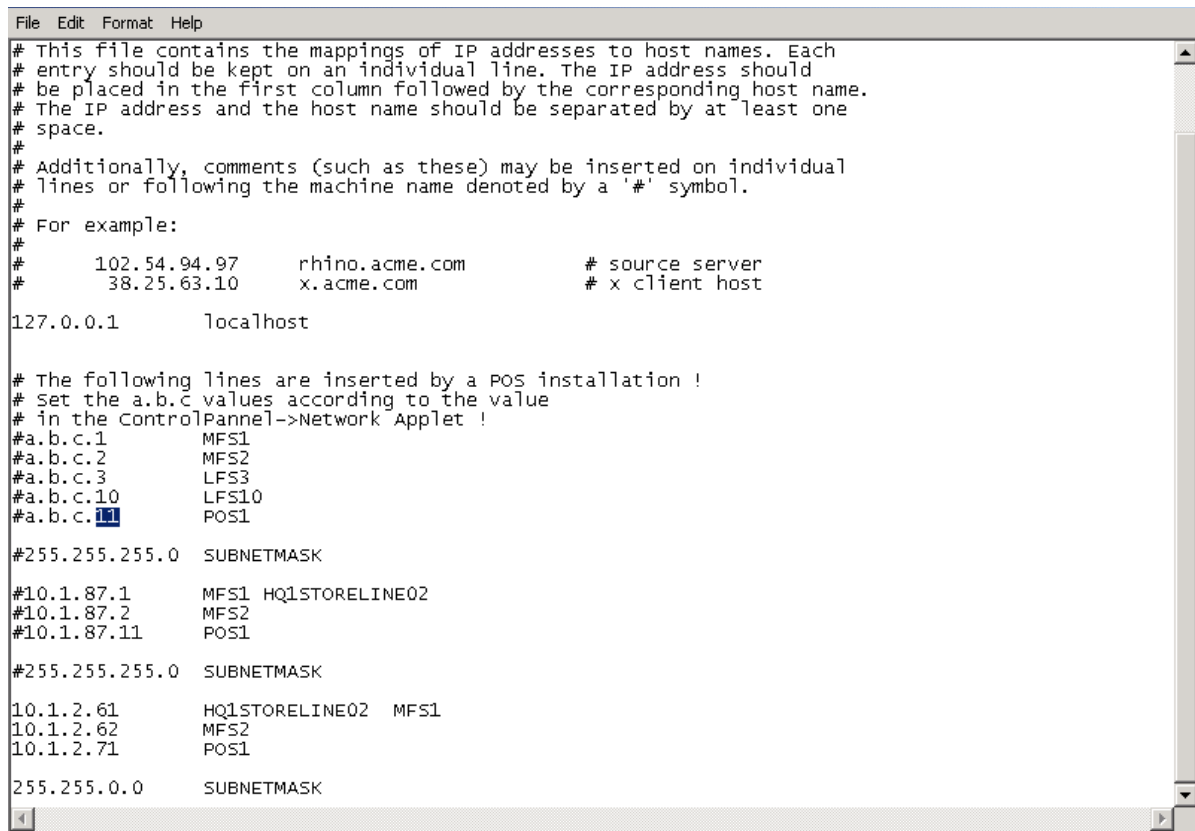
The server setup consists of:

- Mapping the IP addresses
- Terminal configuration
- EFT configuration
- Adding attendants

Mapping the IP Addresses

To configure the terminal for the U-Scan system:

1. Go to C:\WINNT\system32\drivers\etc.
2. Edit the host's file and verify the settings according to the store's IP configuration.
3. Follow the instructions on-screen. Ensure that the IP addresses are mapped to the host names, similar to the example below:



```
File Edit Format Help
# This file contains the mappings of IP addresses to host names. Each
# entry should be kept on an individual line. The IP address should
# be placed in the first column followed by the corresponding host name.
# The IP address and the host name should be separated by at least one
# space.
#
# Additionally, comments (such as these) may be inserted on individual
# lines or following the machine name denoted by a '#' symbol.
#
# For example:
#
#       102.54.94.97      rhino.acme.com          # source server
#       38.25.63.10     x.acme.com              # x client host

127.0.0.1      localhost

# The following lines are inserted by a POS installation !
# Set the a.b.c values according to the value
# in the controlPannel->Network Applet !
#a.b.c.1      MFS1
#a.b.c.2      MFS2
#a.b.c.3      LFS3
#a.b.c.10     LFS10
#a.b.c.11     POS1

#255.255.255.0  SUBNETMASK

#10.1.87.1     MFS1 HQ1STORELINE02
#10.1.87.2     MFS2
#10.1.87.11    POS1

#255.255.255.0  SUBNETMASK

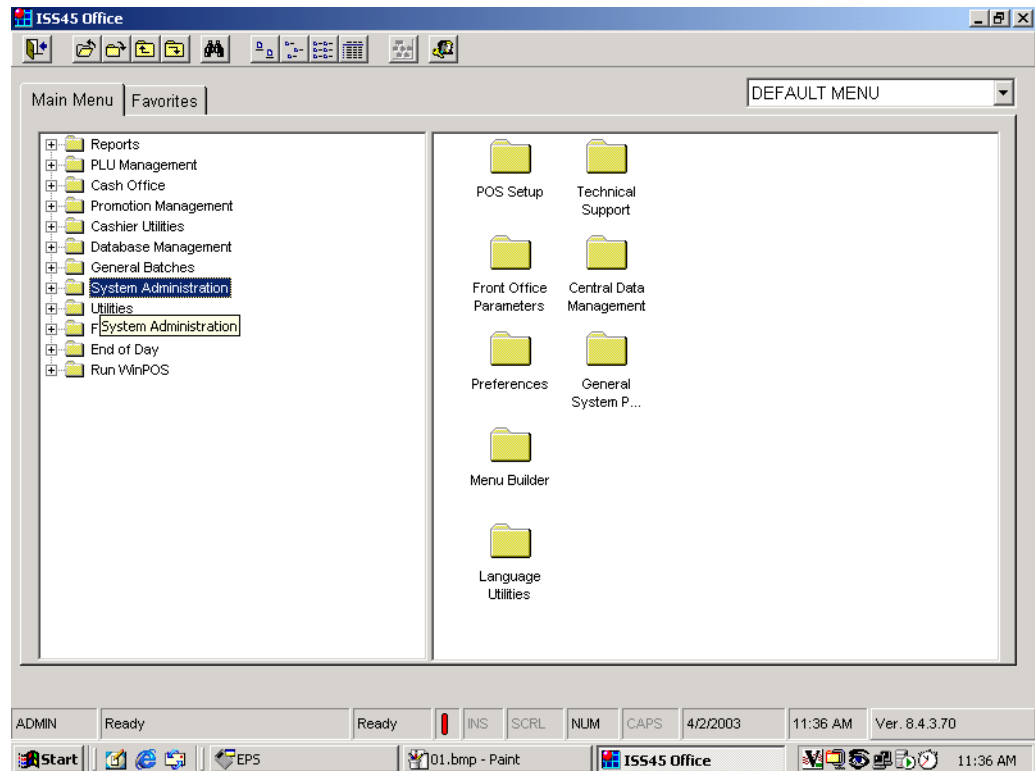
10.1.2.61     HQ1STORELINE02  MFS1
10.1.2.62     MFS2
10.1.2.71     POS1

255.255.0.0   SUBNETMASK
```

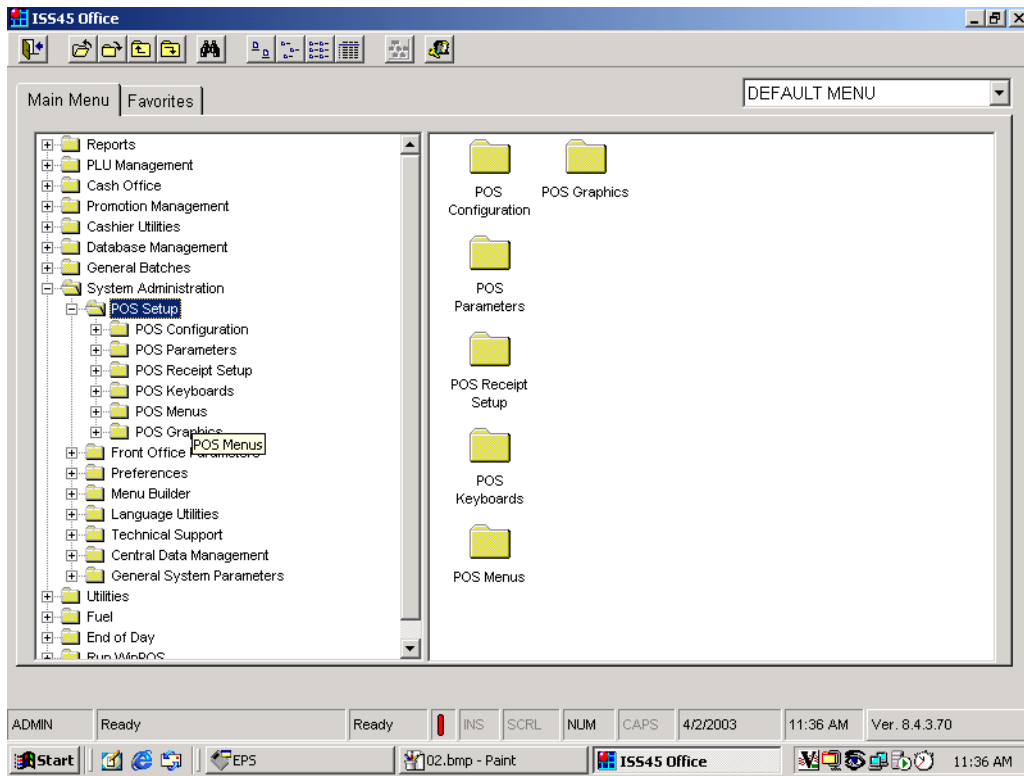
Terminal Configuration

To configure the terminal for the U-Scan:

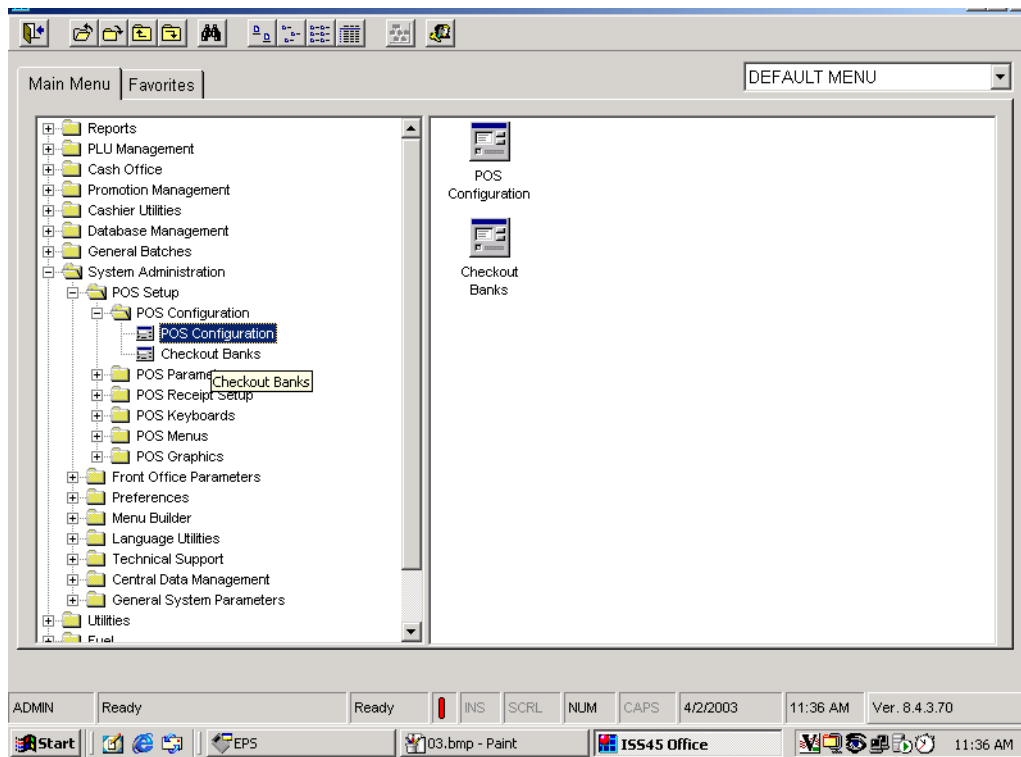
1. Login to **ISS45 Office** using your user name and password.
2. Select **System Administration** from the **Main Menu** tab.



3. Select POS Setup from System Administration.



4. Select POS Configuration from POS Setup.



5. Select the terminal number assigned to the U-Scan [TeamPOS & TeamCOM].

Go to: In POS No. Ascending

POS No.	POS Type	Active Till	Scale Type	Display	Printer Type	Monitor Type	Touch Screen Type
1	TeamPOS & TeamCOM	<input checked="" type="checkbox"/>	None	No	None	VGA Color	None
2	TeamPOS & TeamCOM	<input checked="" type="checkbox"/>	None	No	None	VGA Color	None
3	TeamPOS & TeamCOM	<input checked="" type="checkbox"/>	None	No	None	VGA Color	None
4	TeamPOS & TeamCOM	<input checked="" type="checkbox"/>	None	No	None	VGA Color	None
5	TeamPOS & TeamCOM	<input checked="" type="checkbox"/>	None	No	None	VGA Color	None
6	TeamPOS & TeamCOM	<input checked="" type="checkbox"/>	None	No	None	VGA Color	None
7	TeamPOS & TeamCOM	<input checked="" type="checkbox"/>	None	No	None	VGA Color	None
8	TeamPOS & TeamCOM	<input checked="" type="checkbox"/>	None	No	None	VGA Color	None
9	TeamPOS & TeamCOM	<input checked="" type="checkbox"/>	None	No	None	VGA Color	None
10	TeamPOS & TeamCOM	<input checked="" type="checkbox"/>	None	No	None	VGA Color	None
11	TeamPOS & TeamCOM	<input checked="" type="checkbox"/>	None	No	None	VGA Color	None
12	TeamPOS & TeamCOM	<input checked="" type="checkbox"/>	None	No	None	VGA Color	None
13	TeamPOS & TeamCOM	<input checked="" type="checkbox"/>	None	No	None	VGA Color	None
14	TeamPOS & TeamCOM	<input checked="" type="checkbox"/>	None	No	None	VGA Color	None
15	TeamPOS & TeamCOM	<input checked="" type="checkbox"/>	None	No	None	VGA Color	None
16	TeamPOS & TeamCOM	<input checked="" type="checkbox"/>	None	No	None	VGA Color	None
17	TeamPOS & TeamCOM	<input checked="" type="checkbox"/>	None	No	None	VGA Color	None
18	TeamPOS & TeamCOM	<input checked="" type="checkbox"/>	None	No	None	VGA Color	None
19	TeamPOS & TeamCOM	<input checked="" type="checkbox"/>	None	No	None	VGA Color	None

Copy Close

ADMIN Ready Ready INS SCRL NUM CAPS 4/2/2003 11:37 AM Ver. 8.4.3.70

6. In the **General** tab, enter the settings below.

NOTE: Ensure that the *Self Checkout Type* field is set to **PSI**.

The screenshot shows the 'Post Configuration' dialog box with the 'General' tab selected. The 'POS Number' is 1 and 'POS Type' is 'TeamPOS & TeamCOM'. The 'Active till' checkbox is checked. The 'Receipt options' section includes 'Header/ Footer' set to 'Dierbergs Generic', 'Graphic Logo' set to 'Dierbergs Oval', and 'Print VAT receipt' unchecked. The 'Cashier Queue Length' section has 'Prompt cashier every' set to 1 minute and 'Alert when count is' set to 0. The 'Amounts in Cash Drawer' section has 'Minimum' and 'Maximum' both set to 0.00, with 'Control Check' dropdowns. The 'General options' section includes 'Checkout Bank' set to 'Front End', 'Keyboard type' set to 8, 'Debug mode' set to 'No', 'Print text to Transaction File' checked, and 'Prompt for Bagger ID' unchecked. The 'Till options' section has 'Till Profile' and 'Till Type' dropdowns. The 'Self Checkout' section has 'Self Checkout Type' set to 'PSI', 'Self Checkout Cashier' set to 'JG', and 'Self Checkout POS No.' set to 0. The bottom of the dialog has 'OK', 'Cancel', and 'Apply' buttons.

7. Press **Apply** and **OK** to save your changes.
8. Verify that no other hardware is specified in the **WinPOS H/W** tab.

9. In the **Auth. - EFT - I/F** tab, enter the settings below.

The screenshot shows the 'Post Configuration' dialog box with the 'Auth. - EFT - I/F' tab selected. The 'POS Number' is 1, 'POS Type' is 'TeamPOS & TeamCOM', and 'Active till' is checked. The 'Authorization' section has 'Type' set to 'EFT', 'Port' to 'Com1', and 'Baud Rate' to '9600'. The 'Interfaces' section has 'Type' set to 'None'. The 'EFT' section has 'Location' set to '1', 'Host's IP address' as '010.001.002.061', 'Host's Port number' as '6201', and 'PinPad Unit type' as 'Everest'. The 'Allow Reconciliation' checkbox is unchecked. At the bottom, there are navigation arrows and 'OK', 'Cancel', and 'Apply' buttons.

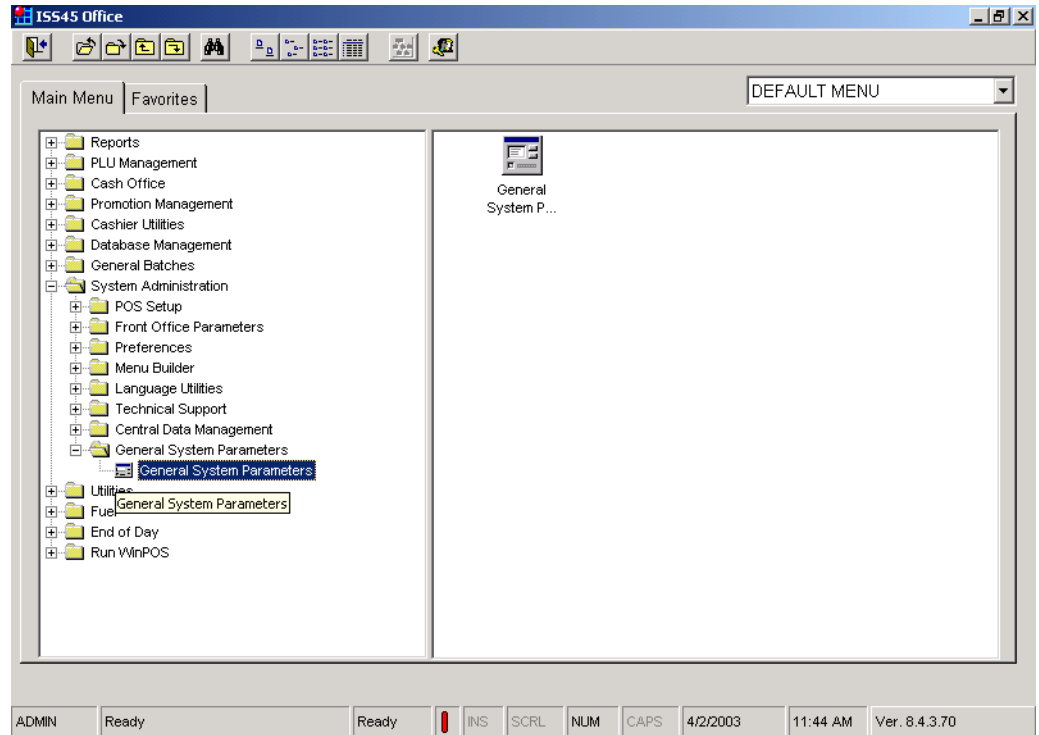
Field	Value
POS Number	1
POS Type	TeamPOS & TeamCOM
Active till	<input checked="" type="checkbox"/>
Authorization Type	EFT
Authorization Port	Com1
Authorization Baud Rate	9600
Interfaces Type	None
EFT Location	1
EFT Host's IP address	010.001.002.061
EFT Host's Port number	6201
EFT Application program Version	
EFT Application parameters Version	
PinPad Unit type	Everest
Allow Reconciliation	<input type="checkbox"/>

10. Press **Apply** and **OK** to save your changes.

EFT Configuration

To configure the EFT for the U-Scan:

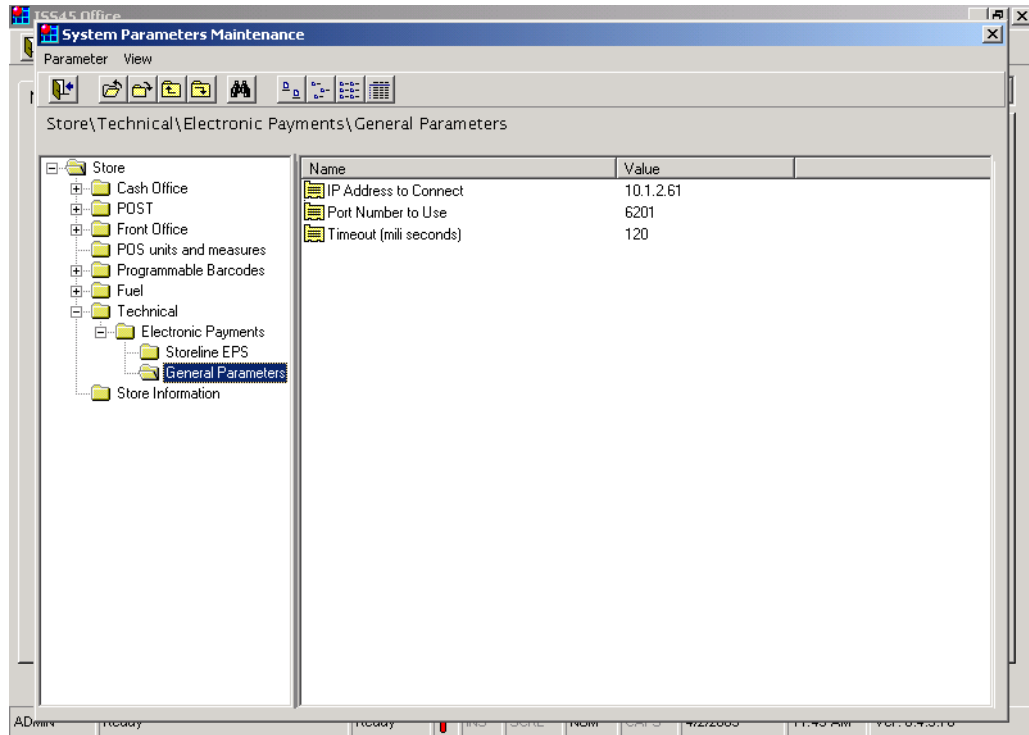
1. In the **Main Menu** tab, go to **System Administration > General System Parameters > General System Parameters**.



2. Double-click **General System Parameters**.

-
3. Go to **Technical > Electronic Payments > General Parameters**. Set the fields to the names and values as specified by the store.

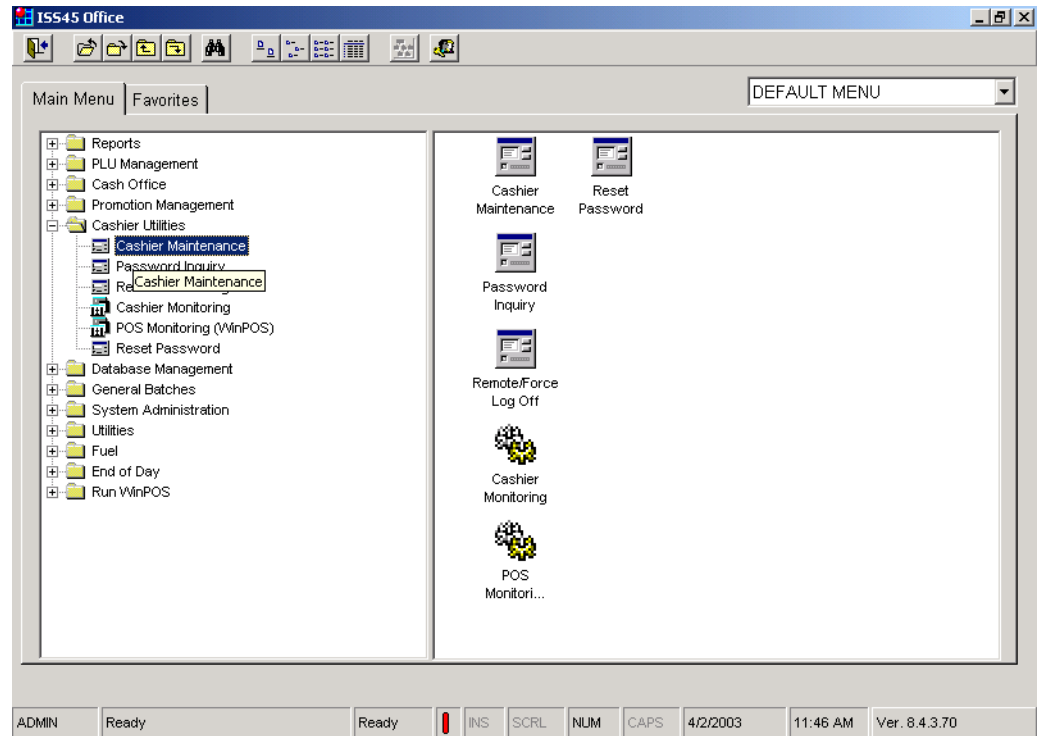
NOTE: *Configuration of the IP is store specific.*



Adding Attendants

To add attendants for the U-Scan system:

1. In the **Main Menu** tab, go to **Cashier Utilities > Cashier Maintenance**.
2. Double-click **Cashier Maintenance**.



3. Click **New**.

4. Fill out the following fields as required.

Cashier Maintenance

Cashier Number: Name:

General Settings | Link Cashier to Checkout Bank

Type:

Address:

Telephone:

Start Date:

Remarks:

Cashier Privileges:

SALES Mode		TRAINING Mode	
<input type="checkbox"/> 1	<input type="checkbox"/> 5	<input type="checkbox"/> 1	<input type="checkbox"/> 5
<input type="checkbox"/> 2	<input type="checkbox"/> 6	<input type="checkbox"/> 2	<input type="checkbox"/> 6
<input type="checkbox"/> 3	<input type="checkbox"/> 7	<input type="checkbox"/> 3	<input type="checkbox"/> 7
<input type="checkbox"/> 4	<input type="checkbox"/> 8	<input type="checkbox"/> 4	<input type="checkbox"/> 8

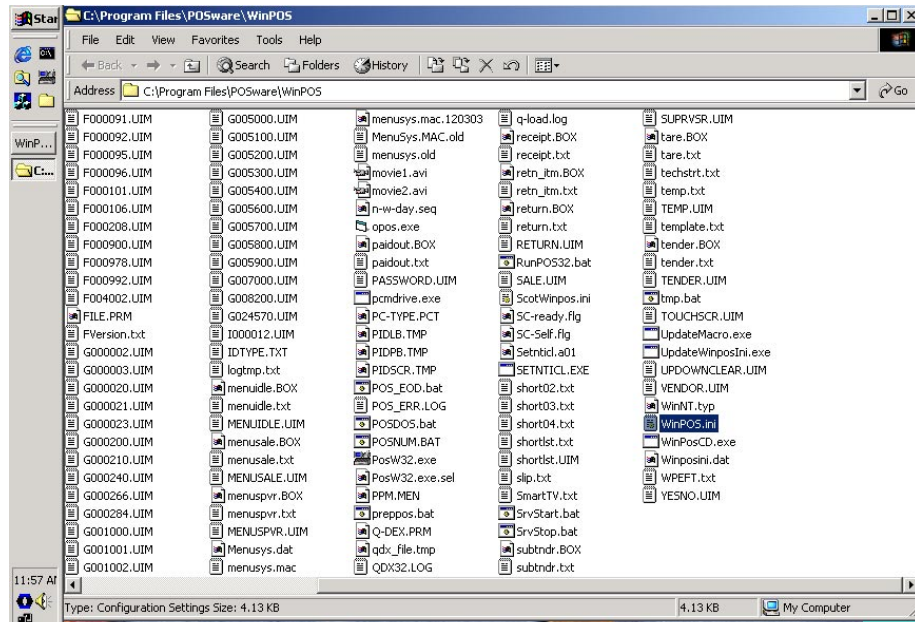
OK Cancel Apply

ADMIN Ready Add INS SCRL NUM CAPS 4/2/2003 11:49 AM Ver. 8.4.3.70

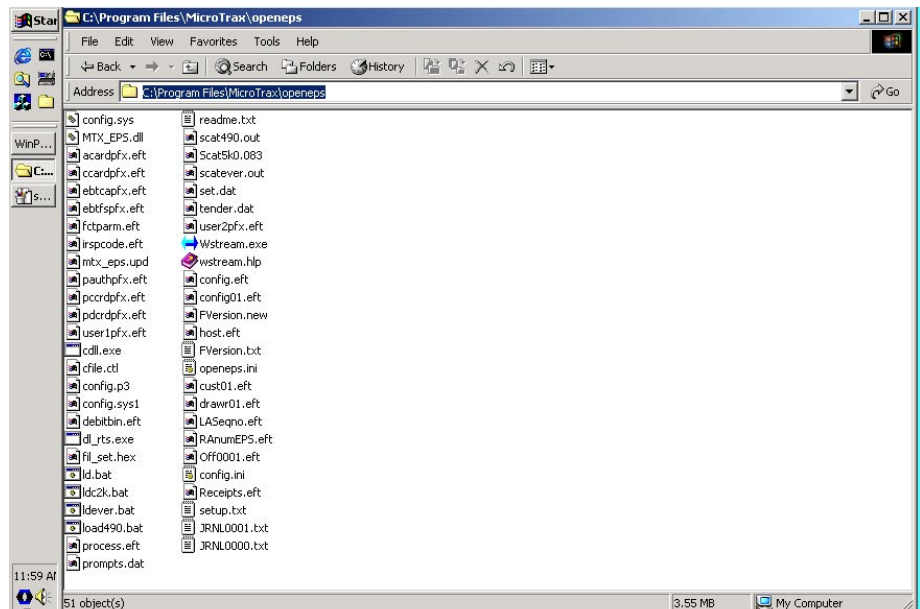
Terminal Setup Verification

To verify the terminal setup:

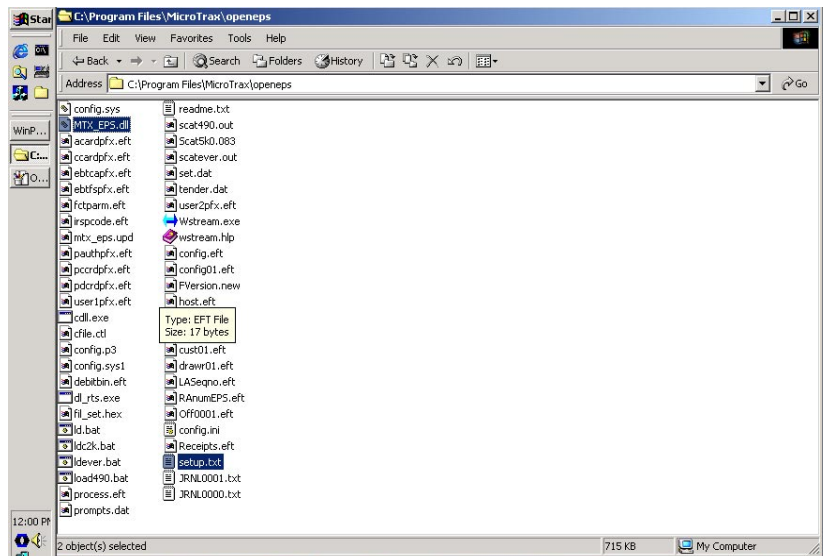
1. Go to the Customer Station.
2. Go to **C:\Program Files\POSware\WinPOS**. Ensure that the **WinPOS.ini** file exists. Verify the settings for self-checkout and that the last line **selfcheckout** is set to **other**.



3. Go to **C:\Program Files\MicroTrax\openeps**. Verify that the Pinpad configuration is correct. Create the directory structure if it does not exist.

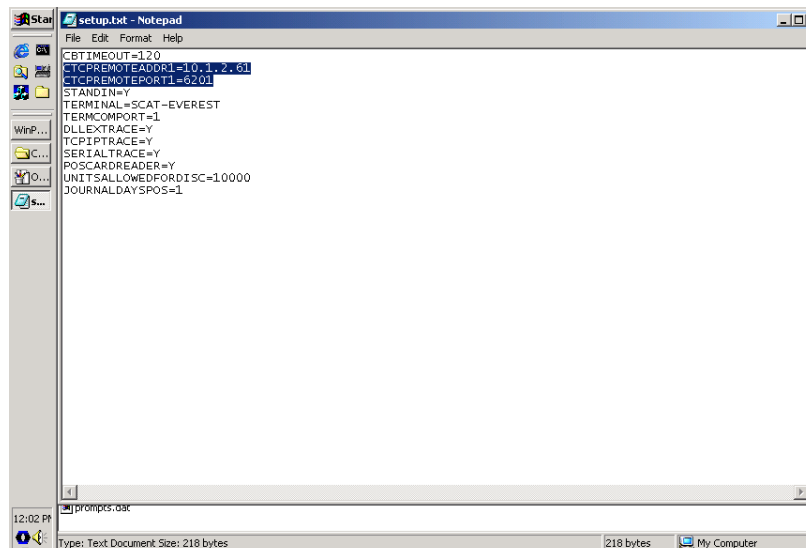


4. Ensure that the **MTX_EPS.dll** and **setup.txt** files exist.



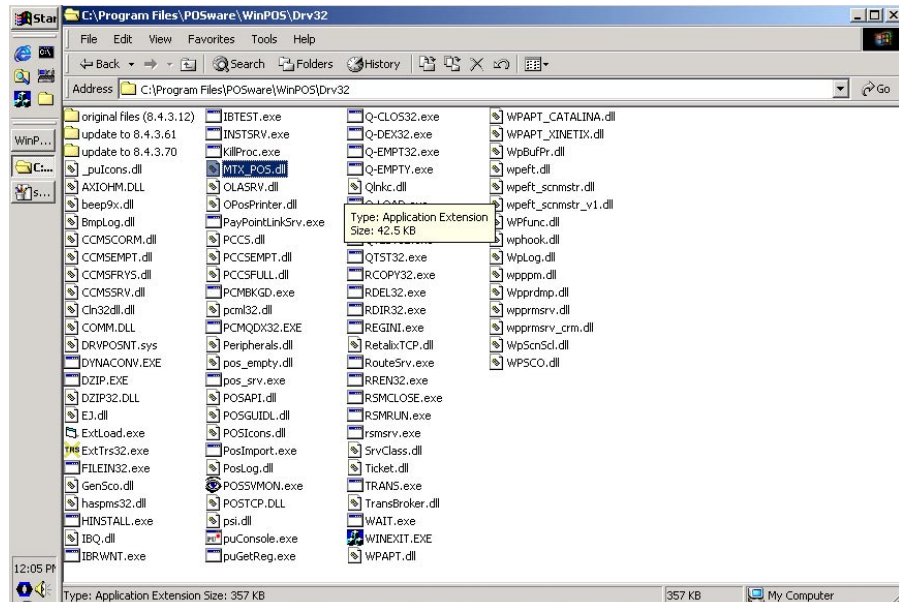
5. Open the **setup.txt** file. Ensure that the **second and third line** exist and that the remote address reflects that of the Microtrax server.

NOTE: *The second and third lines are highlighted in the screen below.*



- Go to C:\Program Files\POSware\WinPOS\Drv32. Ensure that the MTX_POS.dll file exists.

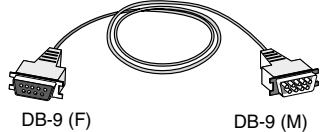
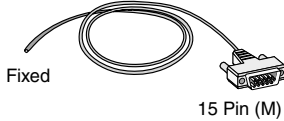
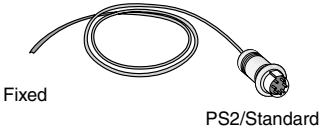

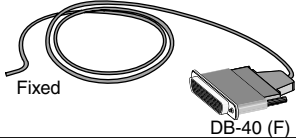
NOTE: *The Pinpad cannot function without this file.*

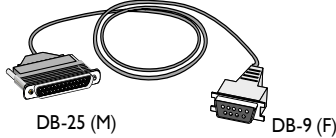
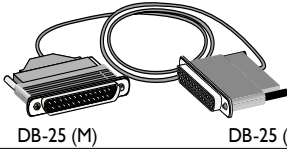
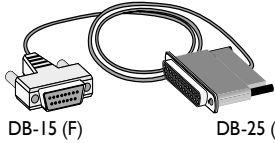
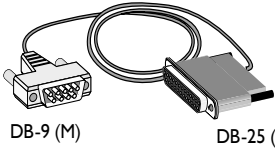
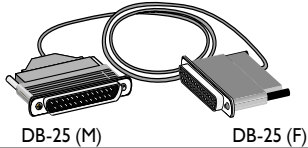
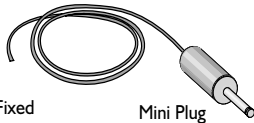
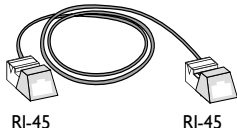
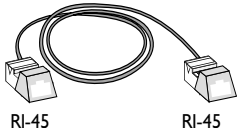
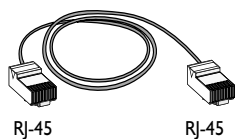


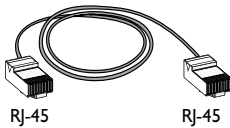
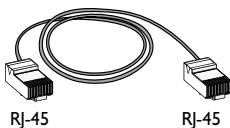
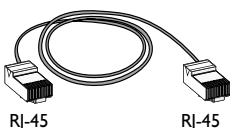
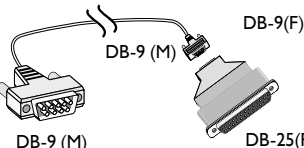
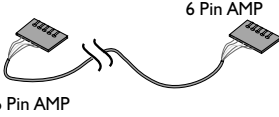
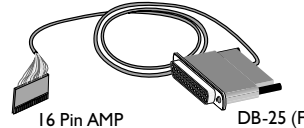
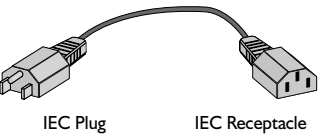
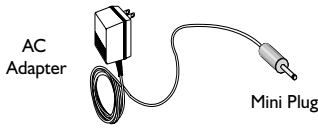
Appendix

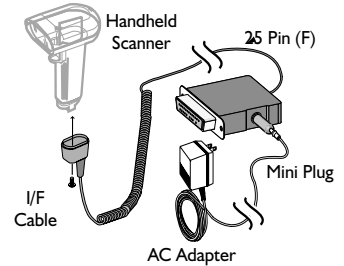
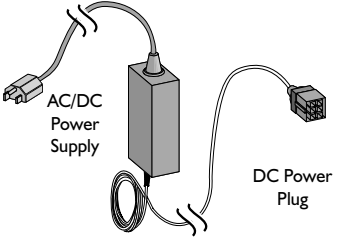
U-Scan System Cable and Interface Requirements


Cable specifications and interfaces required for the U-Scan system are described below.

Cable Description	Cable Type	Cable Interfaces	Interface Views
CRT Touch Screen Monitor touch control TO Computer	Serial	DB-9 (F)/ DB-9 (M)	 DB-9 (F) DB-9 (M)
CRT Touch Screen Monitor VGA Line TO Computer	System Supplied	Fixed/ 15 Pin (M)	 Fixed 15 Pin (M)
Keyboard TO Computer	System Supplied	Fixed/ PS2/Standard	 Fixed PS2/Standard
Printer/Check Endorser TO Serial I/F Box	Serial	DB-9 (F)/ DB-25 (F)	 DB-9 (F) DB-25 (F)
Serial I/F Box TO Computer	Serial	Fixed/ DB-40 (F)	 Fixed DB-40 (F)

Cable Description	Cable Type	Cable Interfaces	Interface Views
Modem TO Computer	System Supplied	DB-25 (M)/ DB-9 (F)	 DB-25 (M) DB-9 (F)
Bill Dispenser TO Serial I/F Box	Serial	DB-25 (M)/ DB-25(F)	 DB-25 (M) DB-25 (F)
Scanner/Scale TO Serial I/F Box	Serial	DB-15 (F)/ DB-25 (F)	 DB-15 (F) DB-25 (F)
Bagging Scale TO Serial I/F Box	Serial	DB-9 (M)/ DB-25 (F)	 DB-9 (M) DB-25 (F)
SEM (Beeper) TO Serial I/F Box	Serial	DB-25 (M)/ DB-25 (F)	 DB-25 (M) DB-25 (F)
Speaker Sound Card at Computer	22 AWG Speaker Wire	Fixed/ Mini Plug	 Fixed Mini Plug
Customer Station Network Hub 1	10 Base-T Cat 5 (Ethernet)	RJ-45 (F)/ RJ-45 (F)	 RJ-45 RJ-45
Customer Station Network Hub 2	10 Base-T Cat 5 (Ethernet or TR)	RJ-45 (F)/ RJ-45 (F)	 RJ-45 RJ-45
Customer Station Computer Network Hub 1 Cable	10 Base-T Cat 5 (Ethernet)	RJ-45/ RJ-45	 RJ-45 RJ-45

Cable Description	Cable Type	Cable Interfaces	Interface Views
Customer Station Computer Network Hub 2 Cable	10 Base-T Cat 5 (Ethernet or TR)	RJ-45/ RJ-45	 RJ-45 RJ-45
Attendant Station Computer Network Hub 1	10 Base-T Cat 5 (Ethernet)	RJ-45/ RJ-45	 RJ-45 RJ-45
Network Hub 2	10 Base-T Cat 5 (Ethernet)	RJ-45/ RJ-45	 RJ-45 RJ-45
Coin Dispenser Serial I/F Box	Serial	DB-9 (M)/ DB-9 (M)// DB-9 (F)/ DB-25 (F)	 DB-9 (M) DB-9 (F) DB-9 (M) DB-25 (F)
Coin Acceptor SEM	Serial	6 Pin AMP/ 6 Pin AMP	 6 Pin AMP 6 Pin AMP
Bill Acceptor Serial I/F Box	Serial	16 Pin AMP/ DB-25 (F)	 16 Pin AMP DB-25 (F)
AC Power Cables for TS Monitor and all Computers	IEC Power Cable	IEC Plug/ IEC Receptacle	 IEC Plug IEC Receptacle
Power Adapters for: Bill Acceptor, Bagging Scale and Speaker.	AC Power Adapter	AC Adapter/ Mini Plug	 AC Adapter Mini Plug

Cable Description	Cable Type	Cable Interfaces	Interface Views
<p>Handheld Scanner I/F Cable – Serial I/F Box and AC Adapter – Mini Plug</p>	<p>Serial AC Power Adapter/ Mini Plug</p>	<p>I/F Cable/ 25 Pin Connector AC Adapter/ Mini Plug</p>	 <p>Handheld Scanner 25 Pin (F) I/F Cable AC Adapter Mini Plug</p>
<p>AC/DC Power to Scanner/Scale</p>	<p>AC/DC Power Supply</p>	<p>AC Power Supply/ DC Power Plug</p>	 <p>AC/DC Power Supply DC Power Plug</p>


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