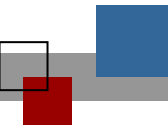




 Connected Payments
 Installation Guide
 Release 2.18



Connected Payments Installation Guide

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Chapter 1

Introduction

What is Connected Payments?

Connected Payments is a professionally operated switch that handles direct connections to POS lanes, allowing much of the payments related infrastructure to be moved out of the store and into a professionally hosted data center. Connected Payments offers many benefits to merchants, including PCI compliance, removal of the overhead associated with running a WinEPS server in each store, and centrally available reporting.

Connected Payments Highlights:

- Centralized enterprise reporting service
- Receipt & Signature Storage service
- Debit BIN file update service
- Automated Dial Backup connection support
- Fuel Lane support
- Scalability – handles single store installs or chain-wide connections
- Centralized configuration management

OpenEPS Direct Payment Solution

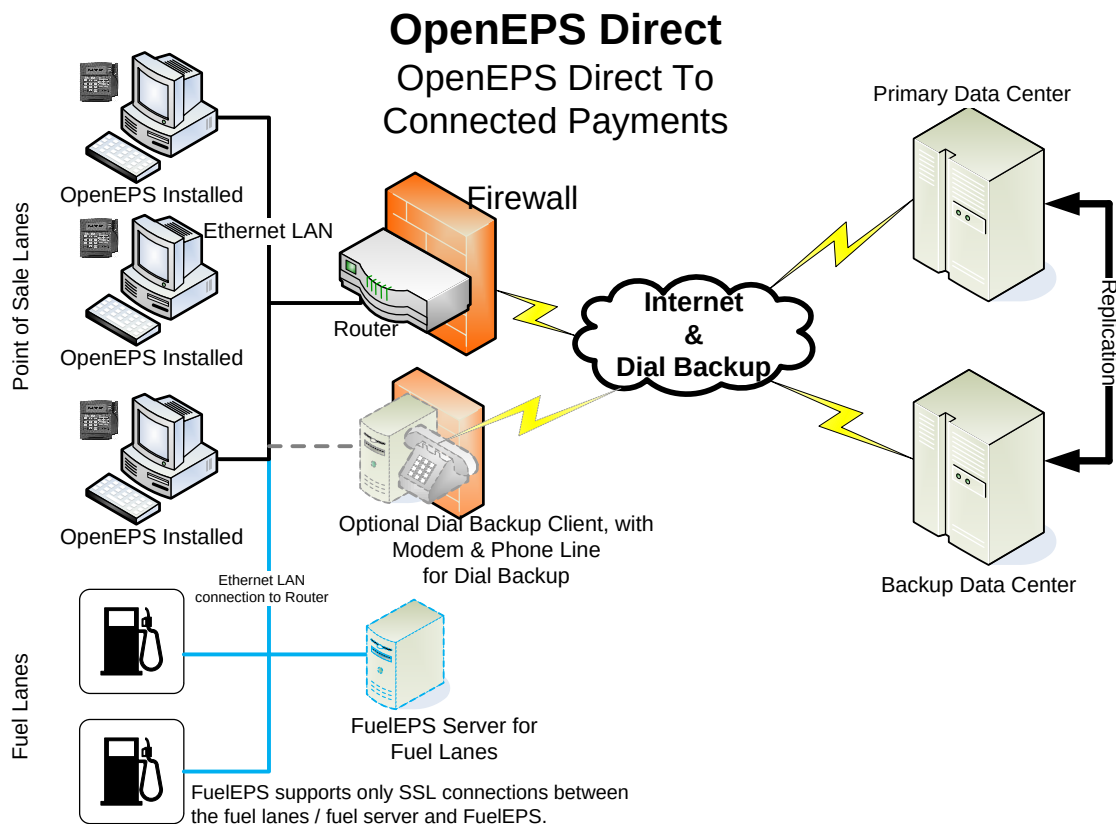
Connected Payments offers the **OpenEPS Direct** configuration for connecting to Connected Payments. The OpenEPS Direct connection method uses an improved OpenEPS software package installed at each POS lane to connect each POS directly to Connected Payments.

The primary method of connection for the OpenEPS Direct solution is a TCP/IP broad band internet connection, with dial backup provided by the use of the Dial Backup Client software.

OpenEPS Direct

OpenEPS direct is the simplest and most advanced solution; Connected Payments products allow stores using this configuration to modify and update their configurations through a web-based GUI. The configuration website can be accessed by onsite, remote/offsite, or corporate users, providing complete user control from any desired location. Reporting and transaction lookup services are available on both an individual store and enterprise level.

The OpenEPS Direct solution excels at supporting both new customers and existing customers by entirely removing the need for an in-store back office payment application such as the WinEPS server. The dial backup can be placed onto a separate PC with a modem and a telephone line.



Glossary of Terms

This section describes some common terms used throughout this guide.

Data Center

A collection of servers that provide web services, data storage, and backup functions for a web-based application. A data center is secured with both restricted physical access and appropriate firewalls.

Connected Payments is hosted at two professionally managed data centers positioned in geographically separate locations of the United States. The Connected Payments software replicates all transaction information between the two data centers, and can accept and process transactions at either location.

OpenEPS

OpenEPS is the name for the software DLL files that reside on each POS lane that coordinate communication between the POS, the customer terminal, and Connected Payments.

Dial Backup Client

This piece of software is responsible for providing the dial backup connection over a telephone line for the OpenEPS Direct solution. Once configured, dial backup will occur automatically if the primary internet connection is lost.

FueEPS

FueEPS is a lightweight in-store product that provides streamlined communication between fuel lanes and the data centers. Once installed, FueEPS can be configured using the standard online web interface.

Connected Payments

Connected Payments is the transaction processing software hosted at the data centers. Connected Payments accepts connections from the Dial Backup Client or directly from OpenEPS.

Connected Payments receives transactions, processes them, and sends back an approved or declined response to the location that initiated the transaction.

STAN

System Trace Audit Number. This is the transaction's semi-unique Sequence Number, which is printed on the receipt. It may be used with the Connected Payments reporting Transaction Search feature to locate a specific transaction.

Virtual Terminal

Virtual Terminal 2 (VT2) is a lightweight Windows software application that can be used with the OpenEPS Direct payments solution to process transactions, similar to a POS system. The

Virtual Terminal installer package can be acquired from StoreNext and can be used free-of-charge as part of OpenEPS Direct.

WinEPS

WinEPS is an in store Electronic Payments Software application that provides a variety of payments processing options. The WinEPS software coordinates communication between the POS lanes and the payments host, and acts as a central point for configuration changes and reporting features.

Connected Payments provides many of the features available in the WinEPS software suite, with significant improvements, as well as no longer requiring the WinEPS in-store piece.

Connected Payments Hardware Requirements

The OpenEPS Direct method does not require a WinEPS installation or a server PC; an installation of OpenEPS required at each POS lane to provide connectivity to the data centers. If using the Dial Backup Client or FuelEPS, one or more additional PCs may be required.

The Dial Backup Client provides an alternate dial-up connection to the standard high speed internet in case of loss of the primary high speed connection. The FuelEPS install allows fuel lanes to connect to the Connected Payments data centers and process transactions through the same interface as OpenEPS Direct.

If the minimum requirements for the operating system you are using are higher than what is listed below, use those requirements instead.

Hardware Requirements for Dial Backup Client, FuelEPS and OpenEPS

- Pentium III (Intel or compatible) 500 MHz processor (1 GHz or faster recommended)
- 256 MB of RAM (512 MB or more recommended)
- VGA, or higher, resolution monitor set at 800 x 600 or better
- CD-ROM drive for software installation
- Ethernet Card
 - Ethernet cards on the PC which runs the Dial Backup Client may not be dual-homed (a single NIC card configured to support 2 IP addresses); if 2 IP addresses are required for the machine, each IP address will require its own NIC card.
- Drive Space Requirement for OpenEPS on each POS lane:
 - 200 Mb free drive space for configuration files and logs
- To utilize signature capture storage and retrieval related services the POS lanes must be equipped with supported touch screen terminals that are capable of capturing signatures.
- Drive Space Requirement for Dial Backup Client Server:
 - 100 Mb of free space for program and log files
- The Dial Backup software must be installed on a separate PC. It may not be installed on a POS lane or on the same PC that FuelEPS is installed on.
- Drive Space Requirement for FuelEPS Server:
 - 50 Mb of free space for program and log files
- The FuelEPS software must be installed on a separate PC. It may not be installed on a POS lane or on the same PC that Dial Backup software is installed on.

Software Requirements for OpenEPS (Front POS Lanes)

Always use the latest service pack or certified patch for the operating system that is in use.

- TCP/IP, FTP and FTPS Protocols
- Any of the following Operating Systems:
 - Windows 7 (32 bit & 64 bit)
 - Windows Server 2008 (32 bit & 64 bit)
 - Microsoft Vista SP1
 - Microsoft Server 2000/2003 SP 1
 - Microsoft Windows 2000, SP 4
 - Microsoft Windows XP SP2, Professional
 - Windows XP Embedded

WePOS
Linux Red Hat 2.7 (only)



PCI Requires the latest Operating System patches be installed in a timely fashion. The requirements listed above reflect only the minimum requirements under which the software will run. It is always recommended that the latest patches or service pack be installed for whatever operating system is in use. See the [PCI Compliance and Operating Systems](#) section below for additional information.

Software Requirements for Dial Backup Client and FuelEPS

Always use the latest service pack or certified patch for the operating system that is in use.

- TCP/IP, FTP and FTPS Protocols
- Any of the following Operating Systems:
 - Windows 7 (32 bit & 64 bit)
 - Windows Server 2008 (32 bit & 64 bit)
 - Microsoft Vista SP1
 - Microsoft Server 2000/2003 SP 1
 - Microsoft Windows 2000, SP 4
 - Microsoft Windows XP SP2, Professional
- FuelEPS uses SSL connectivity only; FuelEPS can only be used with fuel lanes / fuel servers that support SSL connections.
- The Dial Backup client listens for connections from the lane on a default port of 443. This port may be changed through configuration.
- FuelEPS listens for SSL fuel lane connections on a port of 6202; this port number may NOT be modified.

Neither the Dial Backup Client software nor FuelEPS may be installed on a Linux operating system.

Connectivity Requirements

General Requirements

Connected Payments requires a standard broadband internet connection; each POS lane must be able to reach the Connected Payments Data Centers across the internet. This connection should be stable and continuous to allow regular transaction flow.

Broadband internet is currently defined as anything above 768 kbit/s (256k upstream/768k downstream) per single location/store. This recommendation covers the minimum bandwidth needed for a single location to send transactions and log files as well as receive responses and download configuration and updated files from the servers.

Customers with multiple locations that have their stores pooled over a single internet connection, such as through a corporate network, should take this into consideration in order to provide adequate connectivity for each store location.

It is recommended that a higher speed be used if possible; both the initial download for the POS lane and update downloads can be several megabytes in size, with multiple POS lanes receiving the download simultaneously, and thus lower speeds will mean it takes longer to update the POS, which may result in delays prior to the POS being ready to handle transactions.

Dial Backup Client

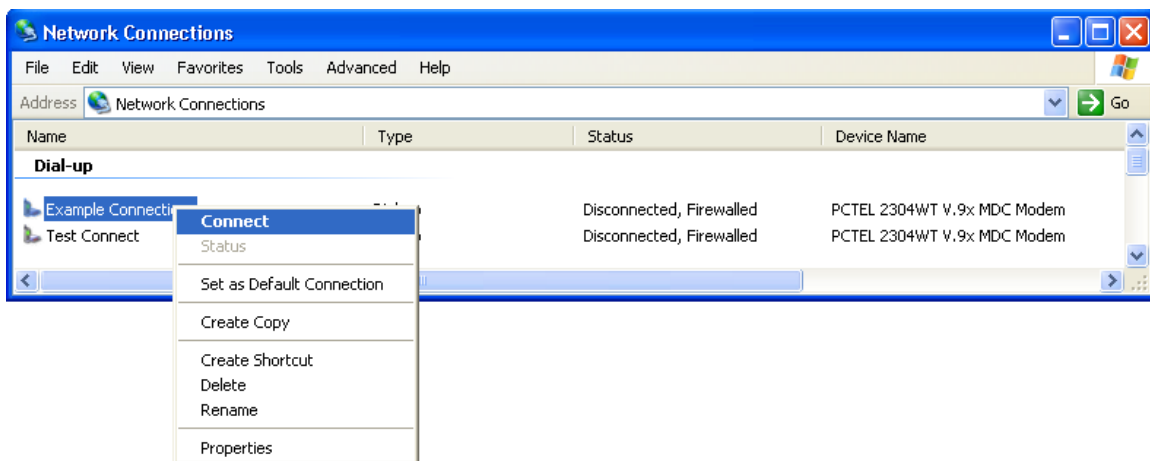
When the Dial Backup Client provides backup connectivity, it attempts to activate to a pre-determined Dial Up Networking connection and send transactions out through this connection, across the internet to the target server.

All POS lanes must have LAN connectivity to the PC that hosts the Dial Backup Client.

As such, the Dial Backup connection has the following requirements:

- Dial Up internet provider that utilizes standard Windows Dial Up Networking session.
 - The internet provider must not require the use of proprietary software to connect to the internet (as free dialup providers may do).
- Dial Up internet provider must not redirect initial web page upon start up.
- The Dial Up connection must be used solely by the Dial Backup Client. The Dial Backup Client will automatically start the Dial Up session when needed; if the session is already up due to having been started by different service or application (or directly by a user), then transactions may not be able to process.

It is highly recommended that Dial Up Networking connectivity be tested to ensure functionality. The simplest way to test connectivity is to manually activate the connection from Windows Network Connections while your broadband connection is disabled.



Right click on the connection and select the Connect option to initiate communication. After a connection has been established, open your internet browser and browse to: www.StoreNext.com. If this is successful, it is a good indication that the connection is configured properly.

Required Ports

The following ports are required to be opened in the firewall to allow communication from the POS lanes and Dial Backup Client across the internet.

- Port 80
- Port 443
- Port 6260 (BIN File Service)
- Port 6250 (Receipt Storage from Dial Backup Client)

This port list assumes that no ports are restricted internally between the firewall and the POS lane or Dial Backup Client. If ports are restricted internally, additional ports will be required to be opened to allow communication from the lane or Dial Backup Client to the firewall.

PCI Compliance and Operating Systems

PCI requires that the security patches for software in the payments environment be tested and installed in a timely fashion. Several Microsoft operating systems have passed their supported security update lifespan, and no additional security patches will be released.

Due to the vulnerability that a lack of security patches represents, these operating systems are no longer supported for use with the Connected Payments product suite. Only the operating systems listed under the [Software Requirements](#) section above are supported, and for each of the supported operating systems, it is required by PCI that they be updated with the latest security patches or relevant service packs in a timely fashion.

Systems that have passed their supported security update lifespan include Windows NT 4.0 and Windows 95/98, and thus these operating systems are not supported.

Refer to information at <http://support.microsoft.com/> for the most up to date security related articles and end of support dates for all Microsoft operating systems.

For the latest PCI standards go to www.pcisecuritystandards.org. Information is also available on using Connected Payments in a PCI compliant fashion; please refer to the latest WinEPS Users PCI Recommendations Guide.

Unsupported Systems

The following operating systems and hardware are **not supported**:

- Windows NT 4.0 is no longer supported (See PCI compliance section above)
- Windows Win95/Win98 is no longer supported (See PCI compliance section above)
- OpenEPS will not function on non NT-based Windows versions, such as Windows ME.
- XP Home version is **not** supported due to its limited scope.

Configuring Your Store Under Connected Payments

OpenEPS Direct Lane Configuration

The OpenEPS Direct solution removes WinEPS from the store and centralizes configuration management. This includes a web-based Connected Payments configuration GUI that allows users to configure a store's settings across the internet without needing to travel to the store location to do so.

When using the OpenEPS Direct solution, your store's configuration resides at the Connected Payments data centers, and is downloaded to the lanes when they sign on.

For current WinEPS customers, your existing WinEPS configuration can be imported into the Connected Payments environment and used as the basis for your Connected Payments configuration. After transitioning from a WinEPS environment to the OpenEPS Direct solution, be sure to retain your WinEPS installation and configurations to facilitate this configuration procedure.

For complete information on the import feature, refer to the *Connected Payments Users Guide*, Chapter 4 – Store Configuration Management for complete information on the Import WinEPS Configuration feature.

For new customers or fresh installations that did not previously have WinEPS, your Connected Payments configuration profile is available for initial setup and editing through the web based Configuration Management service. Simply log into www.StoreNext.com using the login information provided by StoreNext, select the Config Management option and start up the online configuration GUI.

Complete information on the use of the Connected Payments website and the Configuration Management service is provided in the *Connected Payments Users Guide*.

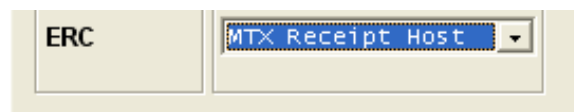
POS Settings

For POS systems that have their own internal timeout values, these values should be set to a large value such as 60 seconds or higher. As with any POS integration with OpenEPS, it is critically important that the POS system not time out prior to OpenEPS.

If any timeout values are adjusted upward, to a longer timeout value, in the OpenEPS Direct Configuration Manager, the POS timers should be likewise adjusted so that they are all least 15 seconds longer than the value entered for OpenEPS.

ERC Host and Signature Capture

Store locations that are performing signature capture should be certain to define the ERC host on the OpenEPS Direct Web Services web page as MTX Receipt Host unless the POS is going to store the receipts locally.



Chapter 2

Installation & Configuration

Acquiring the Connected Payments Software

To install a Connected Payments payment solution, the following software packages are required:

OpenEPS Direct required software:

- OpenEPS to Connected Payments installation package
[Connected Payments Install XXX.X.Exe]
- Connectivity testing utility (Optional for testing connection between OpenEPS and the Connected Payments server)
[ServerEPSConnectionTest.exe]
- Connected Services Agent installation zip file
- Connected Payments Dial Backup Client Installer (For Dial Backup)
[DialBackupClient XXX.X.exe]
- FuelEPS Installer (For Fuel Lanes)
[FuelEPS XXX.X Install.Exe]

OpenEPS Direct optional software:

- CPInstall.ini file
- Virtual Terminal 2 & Virtual Terminal 2 User's Guide

All necessary software components including the Connected Services Agent will be provided by StoreNext.

OpenEPS Direct Installation and Configuration

This section covers installing and configuring the OpenEPS Direct solution for both new customers and existing WinEPS customers.

It is assumed that the Point of Sale software that will be used in the payments environment has already been installed by this point. If it has not, install the POS system before proceeding.

Installation Process

The following steps are required for both brand new store installations that are installing Connected Payments for the first time, and store locations with pre-existing WinEPS installations that are upgrading to Connected Payments.

1. [Acquire Company and Store Number](#)
2. [Install Virtual Terminal \(Optional\)](#)
3. [Install OpenEPS to Connected Payments Package](#)
4. [Test Connected Payments Connectivity](#)
5. [Install Connected Services Agent](#)
6. [Install Connected Payments Dial Backup Client Software \(Dial Backup\)](#)
7. [Configure Connected Payments Dial Backup Client Software \(Dial Backup\)](#)
8. [Perform Initial POS Sign On](#)
9. [Decommissioning WinEPS \(For Existing WinEPS Customers only\)](#)

Acquire Company and Store Number

The Company Number and Store Number are used by Connected Payments to identify transactions and to route payments to the correct merchant.

If you have not already acquired the Company Number and Store Number that will be used in the store you are installing, contact StoreNext. StoreNext will assign you a company number as part of the sign-up process for the Connected Payments service. You will assign a unique store number of up to 8 digits in length for each of your store locations, and submit those numbers to StoreNext.

The Company Number and Store Number are used during the installation and configuration of the system, and should be on hand before the installation process is started.

Install Virtual Terminal (Optional)

Virtual Terminal 2 (VT2) is a lightweight Windows software application that can be used with the OpenEPS Direct payments solution to process transactions, similar to a POS system. The Virtual Terminal installer package can be acquired from StoreNext and can be used free-of-charge as part of OpenEPS Direct.

Since Virtual Terminal is a POS program it may not be installed on the same PC that other POS software is running on. It may be installed on the same machine on which the Dial Backup Client is installed (providing the Dial Backup Client is not installed on a POS lane).

To install Virtual Terminal, follow the instructions in the Virtual Terminal User's Guide. It is important that Virtual Terminal be installed prior to performing the Install OpenEPS to Connected Payments Package step; if Virtual terminal is installed second, the installation will overwrite required OpenEPS Direct files and settings required to connect successfully.

If you find that you have already installed the Install OpenEPS to Connected Payments Package on a machine and wish to add Virtual Terminal, simply install Virtual Terminal and then perform the Install OpenEPS to Connected Payments Package installation again.

Install OpenEPS to Connected Payments Package [Windows]

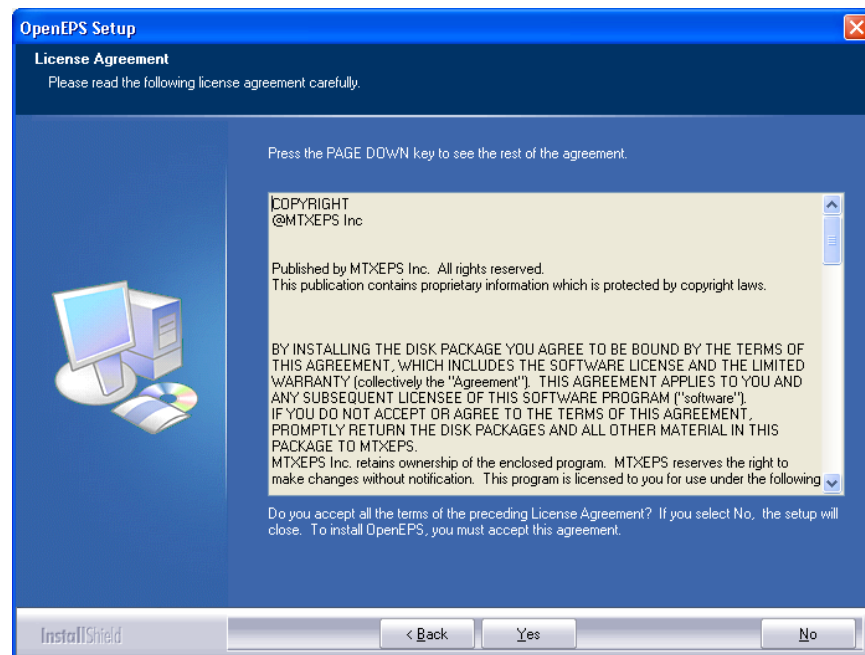
(This section covers the installation of OpenEPS on a Windows PC; for Linux skip to the Linux section.)

The OpenEPS Direct installation consists of an updated OpenEPS that sends transaction information directly to the Connected Payments data centers.

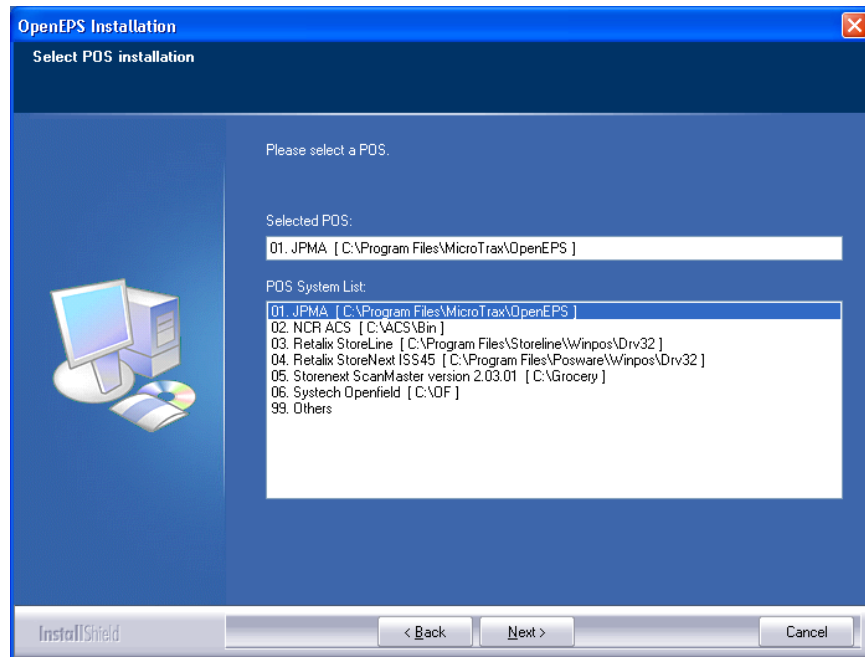
Information on installing OpenEPS from the command line is located in the [\(Command Line\) Silent Install Option for OpenEPS to Connected Payments Package](#) section.

Follow the steps below to apply the new OpenEPS Direct to Connected Payments installation:

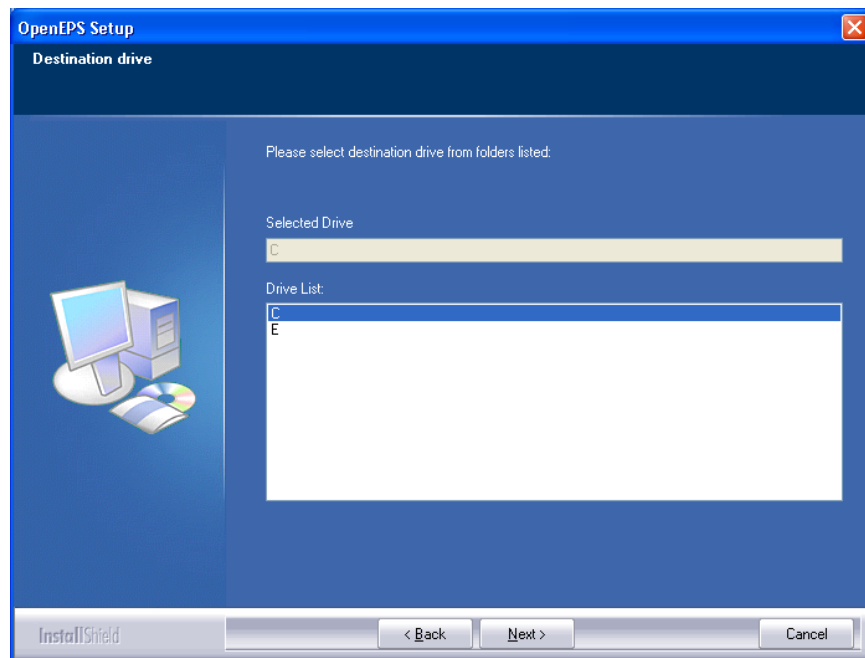
1. Copy the “Connected Payments Install XXX.X.Exe” file (where XXX.X is the current version number) onto the POS lane that you are installing.
2. If using the **CPInstall.ini** file, place the CPInstall.ini file into the root of C: on the computer that you are installing OpenEPS on. This file will provide some of the data that the installation requests, and thus you may not see all of the screen prompts depicted in this section.
3. Double click the executable to run the installation.
4. Read the licensing agreement and then click Yes to accept.



5. Select your POS system from the list, and hit Next.



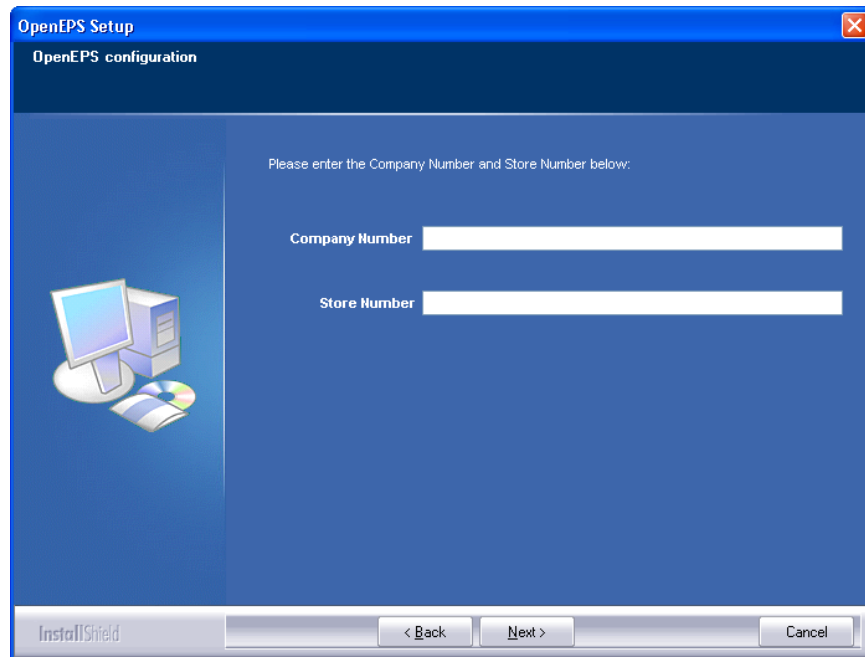
6. Select the drive on which the POS is installed. Only drives that exist will be displayed. Click Next to continue.



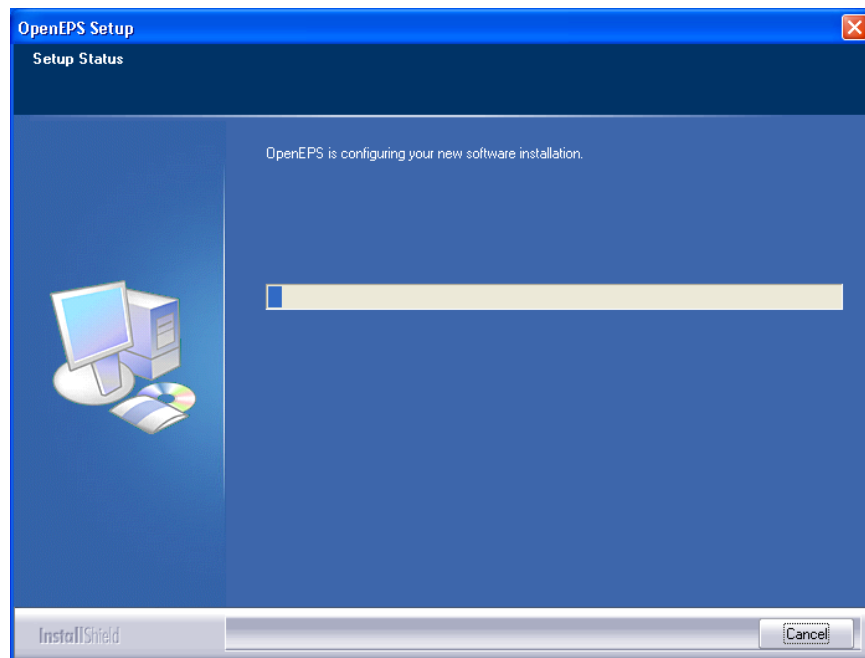
7. Enter the Connected Payments Company Number and Store Number. Click Next to continue.



Connected Services company numbers have an expected length of six digits; the company number to enter on the OpenEPS Setup screen is your StoreNext company number plus 100000.



OpenEPS will proceed to install all the required components for the OpenEPS Direct solution.



8. Repeat this installation procedure for each POS lane.

Verify POS System Clock Time & Date

As part of the installation process it is important to verify that the POS system time & date are accurate. The certificates used to support SSL connectivity use the system time as part of the validation procedure; if the POS system clock is significantly off or the date is inaccurate, transactions may not process.

(Command Line) Silent Install Option for OpenEPS to Connected Payments Package

A silent installation is an install where the parameters that the standard install would normally request of the user are instead supplied by command line. This option can be used instead of the standard install, and is useful for aiding in automating the install process.



The command line installation can be performed instead of the standard install. The command line parameters make it easy to install OpenEPS using a batch file.

*Note: The **CPInstall.ini** file is not loaded during a silent install; all appropriate information should be added view the command line switches instead.*

Using command line parameters it is possible to install OpenEPS without needing to answer prompts during the installation. The following is a list of current switches and their description:

Command-Line Switch	Description
/a/s	Silently installs OpenEPS
-c OR /c	Company Number This parameter must be entirely numeric. Connected Services company numbers have an expected length of six digits; the company number to enter on the OpenEPS Setup screen is your StoreNext company number plus 100000.
-i OR /i	Path to Install the MTX_POS.DLL file. This switch allows you to specify a path for where the MTX_POS.DLL file will be placed. Use either this switch or the /t switch, but not both as they serve the same purpose. When specifying the directory path, be sure to use quotation marks if spaces are included in any of the directory names. Example: /i"C:\Program Files\MicroTrax\OpenEPS"
-h OR /h	Host IP address This is the IP address of the machine the Dial Backup Client is running on. This parameter only need to be included if you are using the Dial Backup Client for dial backup.
-o OR /o	Store Number This parameter must be entirely numeric.
-p OR /p	Host Port This is the port the Dial Backup Client will be opening for connections. This parameter is only required if the port has been changed from its default value of 6201.
-t OR /t	POS Type This switch is used to determine where the MTX_POS.DLL file will be placed. Use either this switch or the /i switch, but not both as they serve the same purpose. The list of valid POS types are: 01 JPMA (C:\Program Files\Microtrax\OpenEPS) 02 ACS (C:\ACS\Bin) 03 Storeline (C:\Program Files\Storeline\Winpos\Drv32) 04 StoreNext (C:\Program Files\Posware\Winpos\Drv32) 05 Scanmaster V2 (C:\Grocery) 06 Openfield (C:\OF)

If a parameter is entered incorrectly the installation process may fail or abort.

Example command line:

```
"Connected Payments Install 824.0.exe" -a -s -h192.168.0.1 -c12345 -  
o54321 -i"C:\Program Files\Microtrax\OpenEPS"
```

The command line may be used part of a batch file.

Test Connected Payments Connectivity (Optional)

After the OpenEPS installation has been completed, the connectivity testing utility can be used to determine if the POS lane can reach the Connected Payments server for secure transaction processing and that the company and store are properly setup on those servers.

Follow the steps below to install the testing software and verify connectivity.

1. Copy ServerEPSConnectionTest.exe application onto the local POS lane in a convenient location (a specific folder location is not required).
2. Run ServerEPSConnectionTest.exe by double clicking it.

The screenshot shows the 'ServerEPS Connection Test' window. It has a title bar with standard Windows controls. The main area is titled 'Server Configuration'. It contains two rows: 'Primary' and 'Secondary'. Each row has a text box for a server address (tn1.servereps.com and tn2.servereps.com respectively) and a table of ping results. The table has two main columns: 'Unencrypted' and 'Encrypted', each with two sub-columns. All cells in the table contain '???'. Below the table is the text '(Ping Results/ Company & Store Status)'. At the bottom left, there is a label 'Auto-repeat interval (minutes)' with a spinner box set to '0'. Below that are labels for 'Company Number' (100999) and 'Store Number' (4). At the bottom right are two buttons: 'Test' (with a magnifying glass icon) and 'Close' (with a red X icon).

Server Configuration		Unencrypted		Encrypted	
Primary	tn1.servereps.com	???	???	???	???
Secondary	tn2.servereps.com	???	???	???	???

(Ping Results/ Company & Store Status)

Auto-repeat interval (minutes): 0

Company Number: 100999
Store Number: 4

Test Close

3. Verify the Company Number and Store number in the lower left are correct.
4. Click the Test button at the bottom right to check connectivity.

Successful Test

This screenshot shows the same 'ServerEPS Connection Test' window after a successful test. The ping results table now shows 'SUCCESS' and 'OK' for both Unencrypted and Encrypted connections for both Primary and Secondary servers. The rest of the interface, including the configuration fields and buttons, remains the same.

Server Configuration		Unencrypted		Encrypted	
Primary	tn1.servereps.com	SUCCESS	OK	SUCCESS	OK
Secondary	tn2.servereps.com	SUCCESS	OK	SUCCESS	OK

(Ping Results/ Company & Store Status)

Auto-repeat interval (minutes): 0

Company Number: 100999
Store Number: 4

Test Close

- An indication of SUCCESS under Encrypted is confirming that the POS has the necessary access to the secure Connected Payments Servers.
- An indication of OK confirms that the company and store number shown on the application are setup on the secure Connected Payments Servers.

Failed Test

The screenshot shows the 'ServerEPS Connection Test' window. The 'Server Configuration' section has 'Primary' set to 'trn1.servereps.com' and 'Secondary' set to 'trn2.servereps.com'. The 'Auto-repeat interval (minutes)' is set to 0. The 'Company Number' is 100999 and the 'Store Number' is 4. The test results table shows 'Unencrypted' and 'Encrypted' both as 'FAILED' for both Primary and Secondary servers. The 'Test' button is highlighted with a green border.

Server Configuration		Unencrypted		Encrypted	
Primary	trn1.servereps.com	FAILED	NO	FAILED	NO
Secondary	trn2.servereps.com	FAILED	NO	FAILED	NO

(Ping Results/ Company & Store Status)

Auto-repeat interval (minutes): 0

Company Number: 100999
Store Number: 4

Test (highlighted)

Close

- An indication of FAILED under encrypted indicates that the POS lane does not have connectivity to the Connected Payments servers
- Contact your network support and tell them your lane needs access to your Broadband Internet connection.

The screenshot shows the 'ServerEPS Connection Test' window. The 'Server Configuration' section has 'Primary' set to 'trn1.servereps.com' and 'Secondary' set to 'trn2.servereps.com'. The 'Auto-repeat interval (minutes)' is set to 0. The 'Company Number' and 'Store Number' are both set to '0 (not yet set up)'. The test results table shows 'Unencrypted' and 'Encrypted' both as '???' for both Primary and Secondary servers. The 'Test' button is highlighted with a green border.

Server Configuration		Unencrypted		Encrypted	
Primary	trn1.servereps.com	???	???	???	???
Secondary	trn2.servereps.com	???	???	???	???

(Ping Results/ Company & Store Status)

Auto-repeat interval (minutes): 0

Company Number: 0 (not yet set up)
Store Number: 0 (not yet set up)

Test (highlighted)

Close

- An Indication of “0 (not yet set up)” under company and Store Number indicates that the required registry settings are not setup properly or at all on this local PC.
- Verify user currently logged into PC has rights to write to the Windows registry
- Please run the Connected Payments OpenEPS Installation on the POS Lane
- In the event of continued failures please contact support and indicate that the proper registry settings are not being written or read from the Windows registry.

Install OpenEPS to Connected Payments [Linux]

OpenEPS Direct is only supported for the Red Hat Linux 7.2 version.

To implement OpenEPS with Linux follow the steps below:

1. Install the Linux OpenEPS Shared Object files as normal. This includes placing the libmtx_eps.so in the /usr/local/OpenEPS directory and the libmtx_pos.so file in the directory expected by the specific POS system you are loading; this may also be the /usr/local/OpenEPS – check with your POS vendor for specifics.
2. Place the Setup.Txt file into the /usr/local/OpenEPS directory.
3. Edit the Setup.Txt file to include the line:
USEWEBSERVICE=Y
4. Open the seps.conf with a text editor; the should contain the following lines:
CompanyNumber=
StoreNumber=
After the “=” sign, enter the Company Number and Store Number that were assigned to the store location you are installing. Save your changes.
6. Place the updated seps.conf file into the /etc/ directory on the POS.
7. In many cases the linux version installed does not have all the library files that are required by OpenEPS to process to Connected Payments. The compressed extra.so.tgz file contains the extra required libraries. Extract the extra.so.tgz to /usr/lib/ directory on the POS.
8. Run the “chmod 755” command on the following extracted files to set the proper rights:
libicudt20l.so
libicuuc.so.20
libxalan-c1_3.so
libxerces-c1_6_0.so
libxercesxmldom.so.1

Example Command line:

```
chmod 755 libicudt20l.so
```

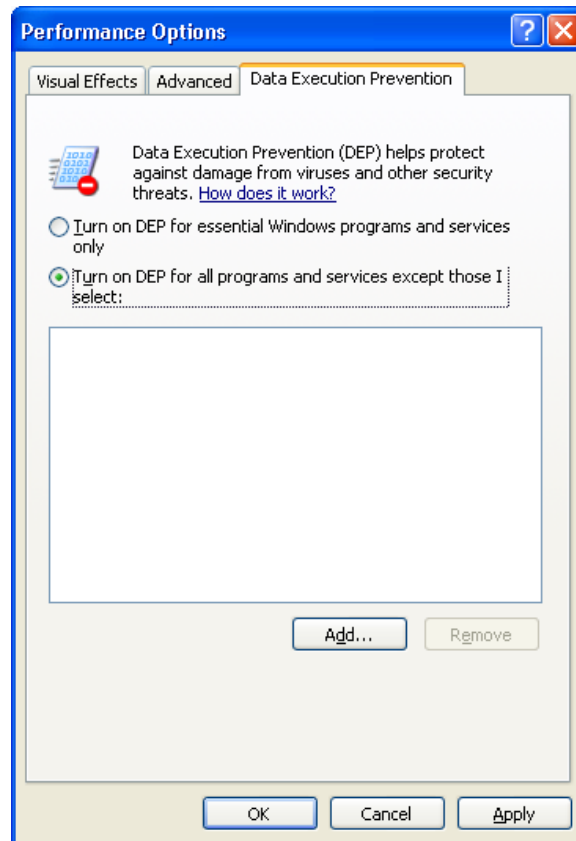
Update DEP Settings

In Windows Server 2008 and Windows 7, the Windows Data Execution Prevention is defaulted to on for all programs. The update to the use of SOAP for file transfer requires that POS systems using OpenEPS be excluded from DEP. If your POS system or Virtual Terminal is running one of these OS versions, or if the POS is running on Windows XP with the DEP turned on, it is required to add the POS executable to the DEP exclusion list.

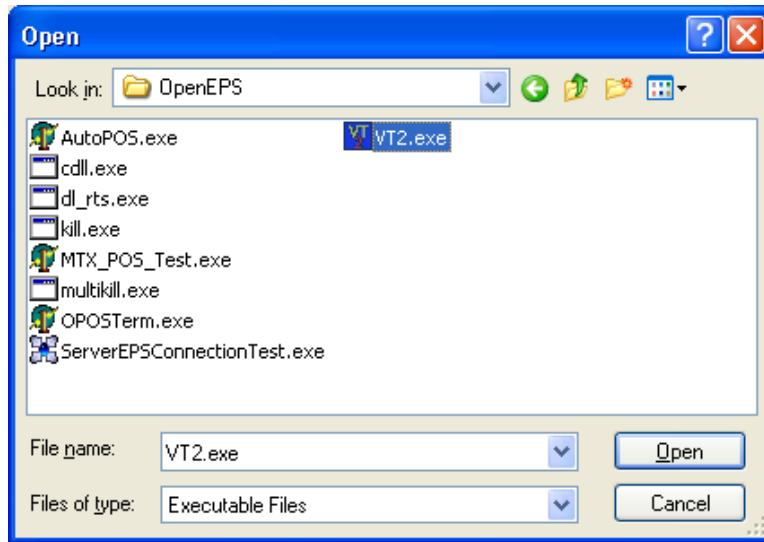
This commonly applies when running Virtual Terminal on a Windows Server 2008 or Windows 7 PC.

To modify the DEP settings use the following instructions:

1. On Windows 7/Server 2008, Go to start/windows logo, right click Computer and select Properties. On Windows XP, Right click My Computer, choose Properties.
2. On Windows 7/Server 2008, Click on Advanced system setting on the left side of the screen under Control Panel Home.
3. Go to the Advanced tab and click the Settings button under Performance, then select the Data Execution Prevention tab.



4. If the DEP is set to the first radio button, where it is turned on only for Windows programs and services, you do not need to make any changes.
5. If it turned on for all programs and servers as shown above, click the Add button.
6. Use the opened selection box to select your POS executable; if using Virtual Terminal, this is located by default in the C:\Program Files\MicroTrax\OpenEPS\ folder: Select the VT2.exe file.



7. Click Open and the POS system executable will appear in the DEP exception list.
8. Restart the PC for the changes to take effect.

Install Connected Services Agent

This chapter covers installing the Connected Service CS Agent that provides additional functionality to Connected Payments customers.

More detailed documentation of the CS Agent installation is available in the following document:
StoreNext CS Install Guide for ISS45 5.0.e.doc

Installation of the StoreNext Connected Services Agent Interface can be done on either MFS; however, it needs to be installed on the MFS controller that has the connection to the Internet (ISP).

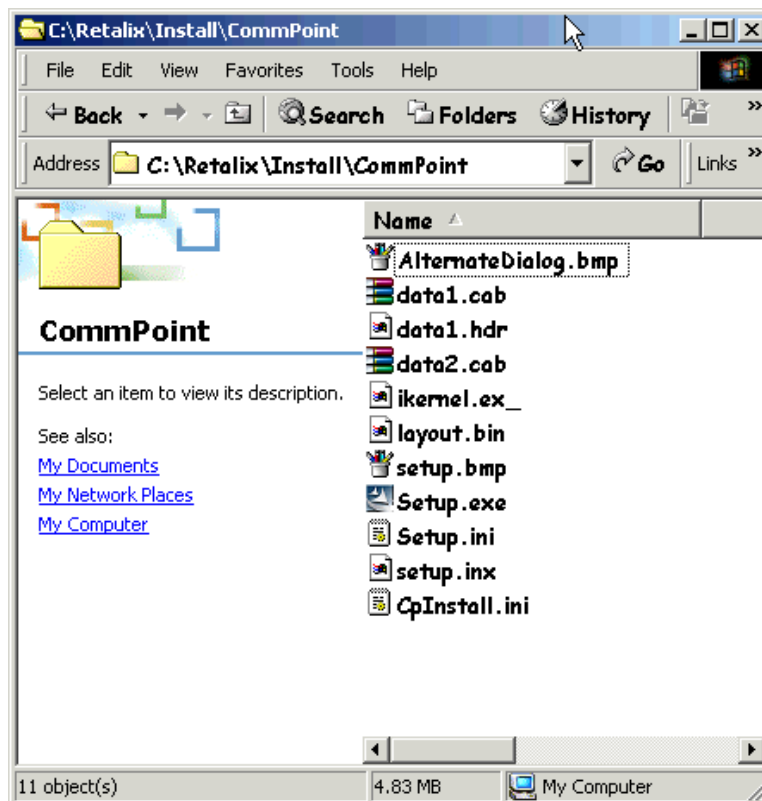
Follow the steps below to install the Connected Services Agent.

1. Create a temporary install directory on the MFS controller called: \Retailix\Install (Preferably on the C:\ drive)
2. Copy the entire contents of the CS Agent install ZIP into this directory.

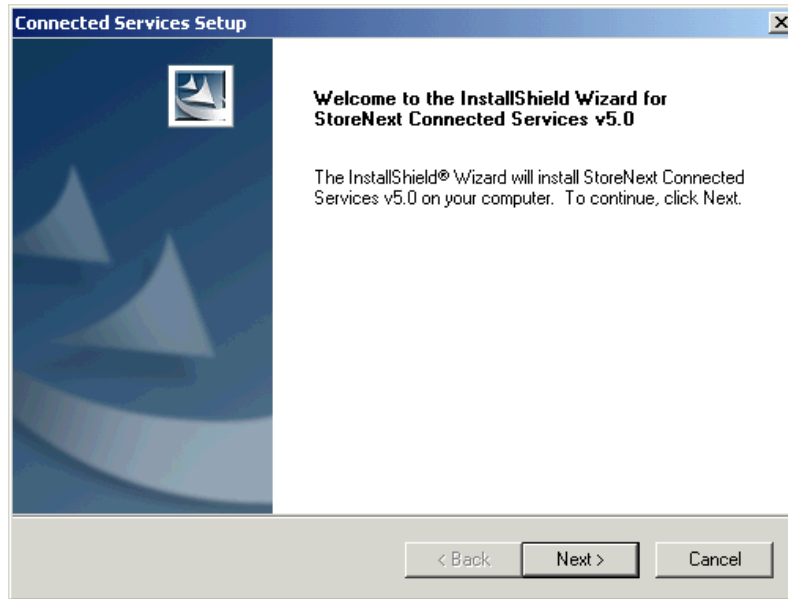


Note: It is imperative that you do not run the install from a CD or network. Copy the files to the temporary c:\Retailix\Install directory whether you are on site or installing remotely via pcAnywhere.

3. The [Chain Name]CPInstall.ini file must be moved to the C:\Retailix\Install\CommPoint directory. Be sure to copy the correct [Chain Name]CPInstall.ini file that corresponds with the install that you are performing. Once the file has been copied rename the file to CPInstall.ini by removing the [Chain Name].



4. From the temporary directory you copied the CS Agent install ZIP into (likely c:\Retailx\Install) run the Setup.exe.
5. Verify by the welcome message as shown below that you are installing StoreNext Connected Services v5.0 or higher.



6. Click Next to execute the standard Connected Services CS Agent installation. For more details please refer to above mentioned document and/or contact your StoreNext Connected Services representative.

Install Dial Backup Client Software

For the OpenEPS Direct solution, install the Connected Payments Dial Backup Client Software

For the OpenEPS Direct solution, install the Dial Backup Client Software to enable dial backup.



The Dial Backup Client installation only needs to be performed at one PC. This is different from the OpenEPS installation which must be performed at all POS lanes.

This section covers installing the Dial Backup Client application using the DialBackupClient XXX.X.exe.

See the [Dial Backup Client Connectivity Requirements](#) section for requirements and restrictions for the RAS connection.



Do not install the Dial Backup Client to the same PC on which FuelEPS is installed.

Verify Company and Store Number

The Company Number and Store Number are used during the installation of the Dial Backup Client, and should be on hand before the installation process is started.

Create a Dial Backup Client User Account

Dial Backup Client runs as a service; as such it requires a Windows user account be inputted under whose permissions Dial Backup Client will run.

- **Domain**

In a domain environment, users must be set up by a domain administrator.

- **Workgroup (Non-Domain)**

In a workgroup environment, users are set up individually on each computer by a local administrator.

Account Requirements

The account should be designated as a member of the Power Users group. This user must have full access to the DialBackupClient folder and subfolders, read and write permission to the registry, and the right to run services.

Dial Backup Client Windows User Account and Network Passwords

Often, networks will require password changes on a periodic basis. **It is key to be aware that if the password for the Dial Backup Client Windows User Account lapses and becomes invalid, the Dial Backup Client service will not start.** It is therefore recommended that the account be set so that its password does not expire. If the account cannot be set in such a fashion, the password must be manually maintained. Manual maintenance includes updating the Dial Backup Client Service with the new password each time it is changed.

The Dial Backup Client Service logon information is located in the Windows Services (Start | Settings | Control Panel | Administrative Tools | Services) under the properties of the Dial Backup Client Service, on the second tab Log On.

Install the Dial Backup Client

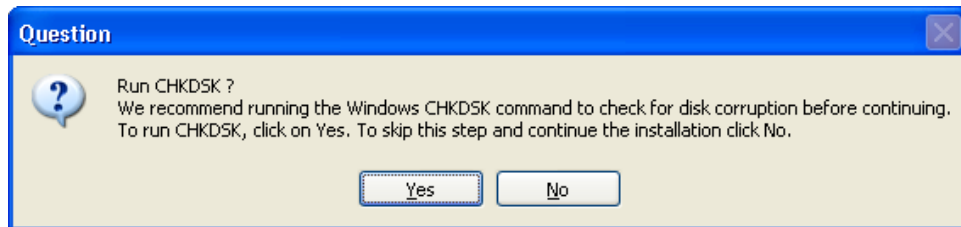
Only one installation of the Dial Backup software is required per store location. All lanes at the store location must have connectivity to the PC on which the Dial Backup software is installed in order to provide backup functionality.

Installing

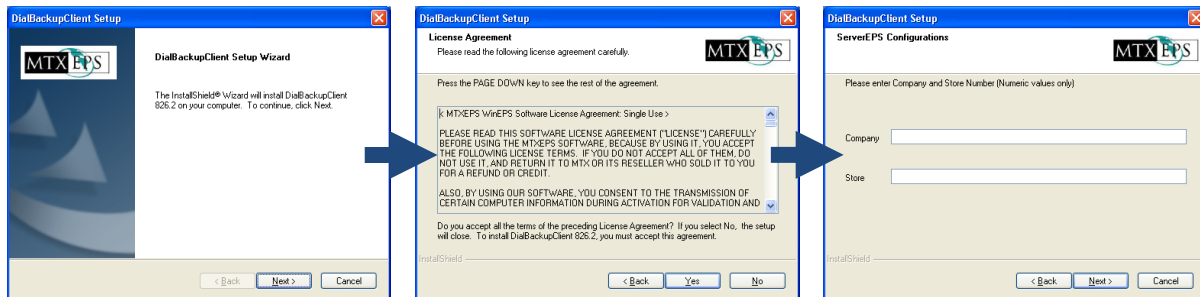
Follow the steps below to install the Dial Backup software.

Standard Installation Steps

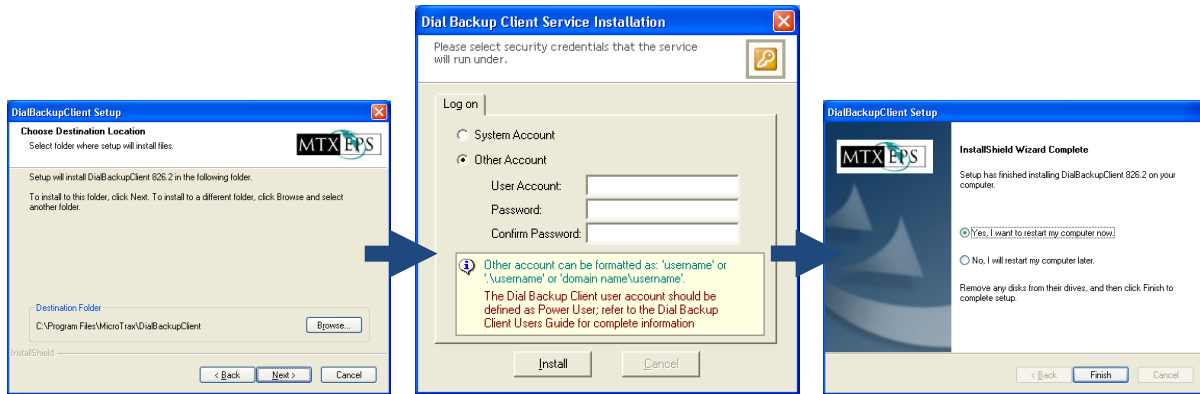
1. Copy the DialBackupClient XXX.X.exe to the PC on which you wish to install the Dial Backup Client.
2. Double click the exe to begin installation.
3. Upon starting, a request to run Check Disk will be displayed. Click Yes to perform CHKDSK on the computer. If CHKDSK finds any errors, abort the installation and correct those errors or replace the hard drive.



4. After a successful CHKDSK, follow the setup screens below.



1. Select Next at the intro screen.
2. Click Yes to agree to the license.
3. Enter your Company Number and Store Number, and click Next to continue.



4. Select the destination path; it is highly recommended to use the default path of C:/Program Files/Microtrax/DialBackupClient
5. Next, enter the Dial Backup Client Windows User Account information for the Service Installation. Follow the instructions on the screen for proper account entry.
6. Finally, allow the installation to reboot the computer.

Command Line (Silent Install) Installation Steps for Dial Backup Client

Using command line parameters it is possible to install the Dial Backup Client without needing to answer prompts during the installation. The following is a list of current switches and their description:

Command-Line Switch	Description
/a /s	Silently installs the Dial Backup Client when packaged for the web. • (There must be a space between the /a and the /s)
-c OR /c	Specifies the Company Number Allows you to install the Dial Backup Client at a specified directory other than the default installation location. If the “i” switch is not present, the default path of “C:\Program Files\MicroTrax\DialBackupClient” will be used.
-I OR /i	When specifying the directory path, be sure to use quotation marks if spaces are included in any of the directory names. Example: /i"C:\Program Files\MicroTrax\DialBackupClient"
-o OR /o	Specifies the Store Number
-u OR /u	Specifies the user name for service installation. (Dial Backup Client Windows User Account name)
-p OR /p	Specifies the password for service installation. (Dial Backup Client Windows User Account password)
-n OR /n	Specifies the domain name for service installation.

Command-Line Switch Table

Except for the required “/a /s” switch, the switches can be entered with either a dash (-) or a forward slash (/) before the letter; there is no difference between these options.

When the installation package is launched via command line and is either pointed at a directory that already contains a Dial Backup Client installation, through the use of the -i switch, or if the -i switch is absent and there is a Dial Backup Client installation present in the “c:\program files\microtrax\DialBackupClient” directory, an UPGRADE will be performed automatically, and not a new installation.

It is recommended to use a batch file that can be created once, and used in multiple installations.

1. Copy the DialBackupClient XXX.X.exe to the PC on which you wish to install the Dial Backup Client.
2. Create a batch file using the executable name (and full path, if necessary), and including all necessary command line parameters.

- Example Command:

[Path] DialBackupClient XXX.X.exe /a /s [(-u or /u)username] -cCompany# -oStore#[(-p or /p)password] [(-n or /n)domain name]

Example: “C:\DialBackupClient 826.2.exe” /a /s -c999 -o1001 -uUserAccount -pPassWord -nLocalMachine



Note: there is no space between the switch letter and the information for that switch. In the example above the /u switch specifies the user name, which was supplied as UserAccount, so the command was written as /u UserAccount with no space between the /u and the user name.

3. Once the batch file is created, to install the Dial Backup Client, simply double click on the batch file. No prompts will be shown.

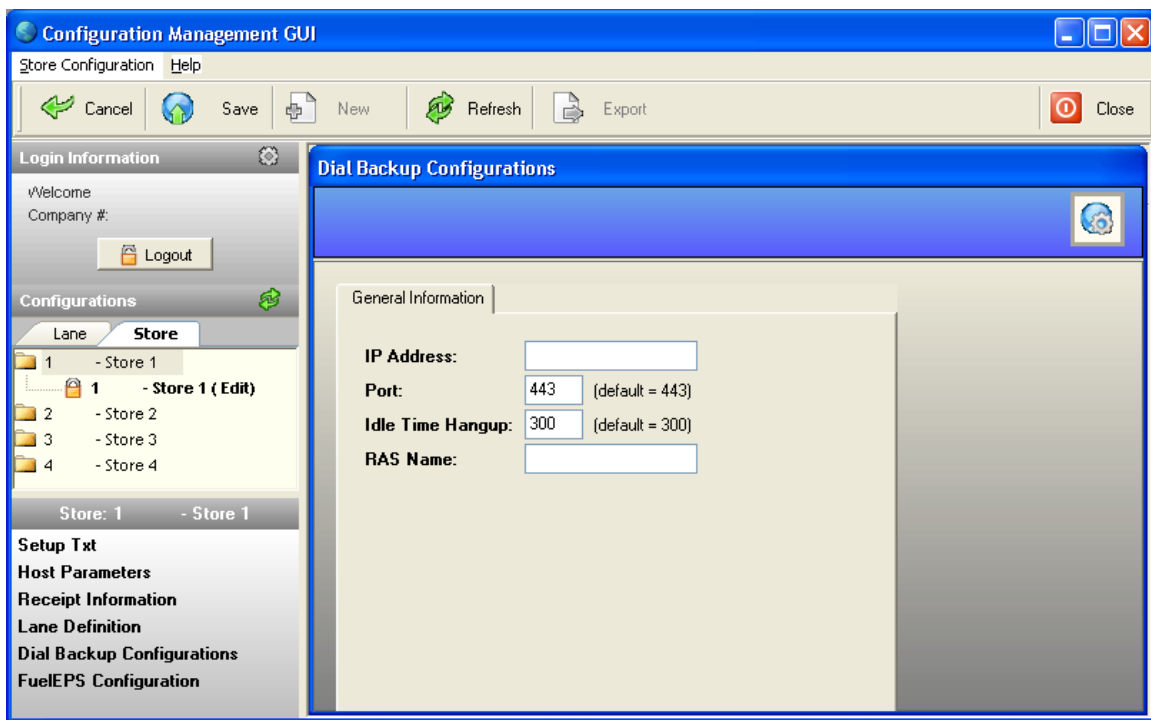
Configure Dial Backup Client Software

After installing the Dial Backup Client Software, follow the steps below to configure it for Dial Backup.

The Dial Backup Client installation places the Dial Backup Client into the \Program Files\MicroTrax\DialBackupClient.

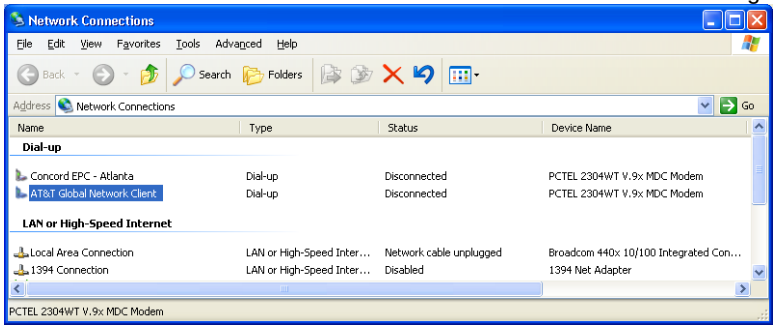
Follow the steps below to configure the Dial Backup Client:

1. Log in to the web services page.
2. On the Administration Menu, select Store Configuration. Launch the Store Configuration application.
3. Sign into the Configuration Management GUI.
4. From the Store Tab, Select and Open the Store configuration for your location.
5. Select the Dial Backup Configuration page.



6. Use the following information to configure your Dial Backup settings:

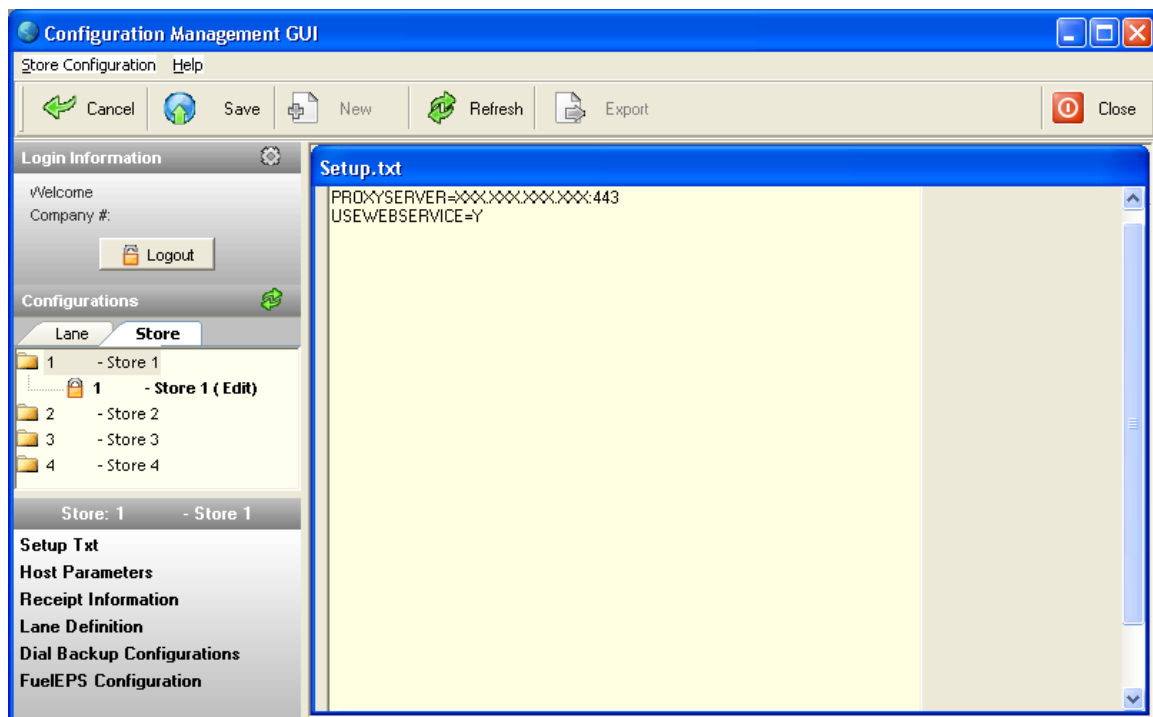
Menu Item	Description
IP Address	IP Address or DNS Name of the PC on which the Dial Backup Client is installed.
Port	Port on which the lanes will attempt to connect to the Dial Backup Client.
Idle Time Hangup	Time to wait while idle (period where no transactions are being processed though the Dial Backup Client) before hanging up the dial line.

Menu Item	Description
RAS Name	Name of the Dial Up RAS service that is configured for dial backup. This is the name as shown in the Windows Network Connections listing: 

These settings will be downloaded to the Dial Backup client when it next connects to the data centers. If you do not already have the Dial Up RAS setup up on your PC, complete the web configuration, and then complete that step.

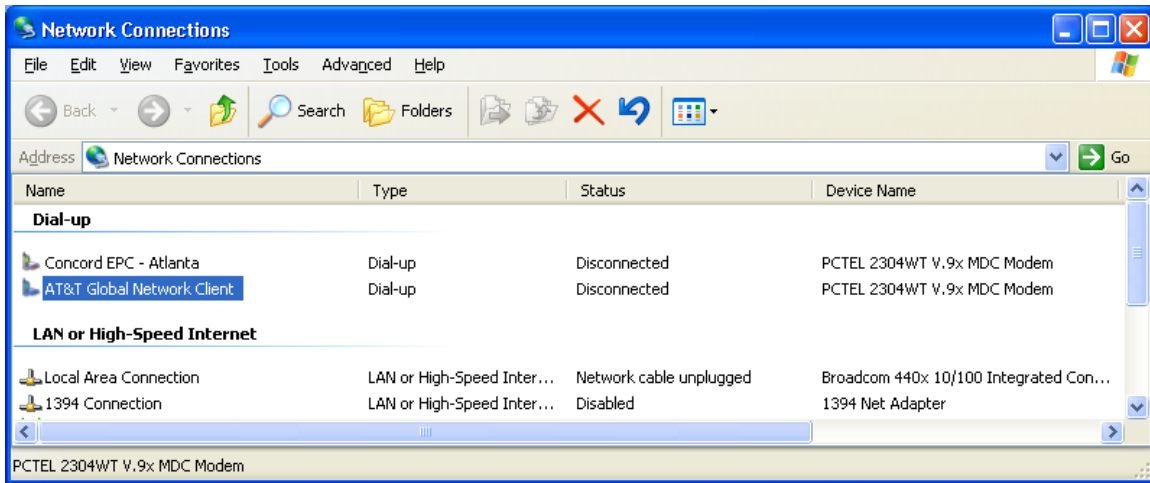
7. Select the Setup.Txt page.
8. In the Setup.Txt textbox, add the following keyword:
PROXYSERVER=XXX.XXX.XXX.XXX:443

where XXX.XXX.XXX.XXX is the IP address or DNS name of the PC on which the Dial Backup Client is installed. These settings will be downloaded to POS lanes the next time they sign on.

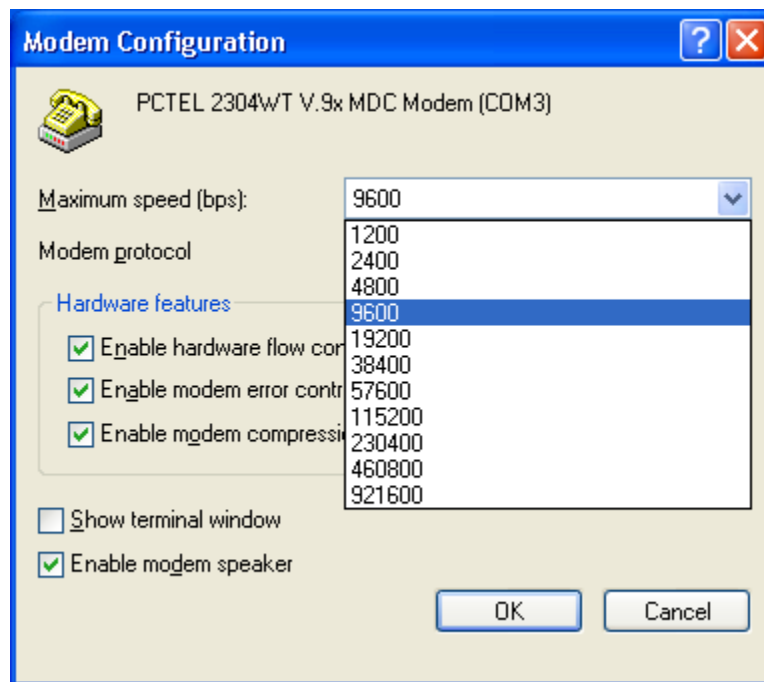


9. Save your changes.

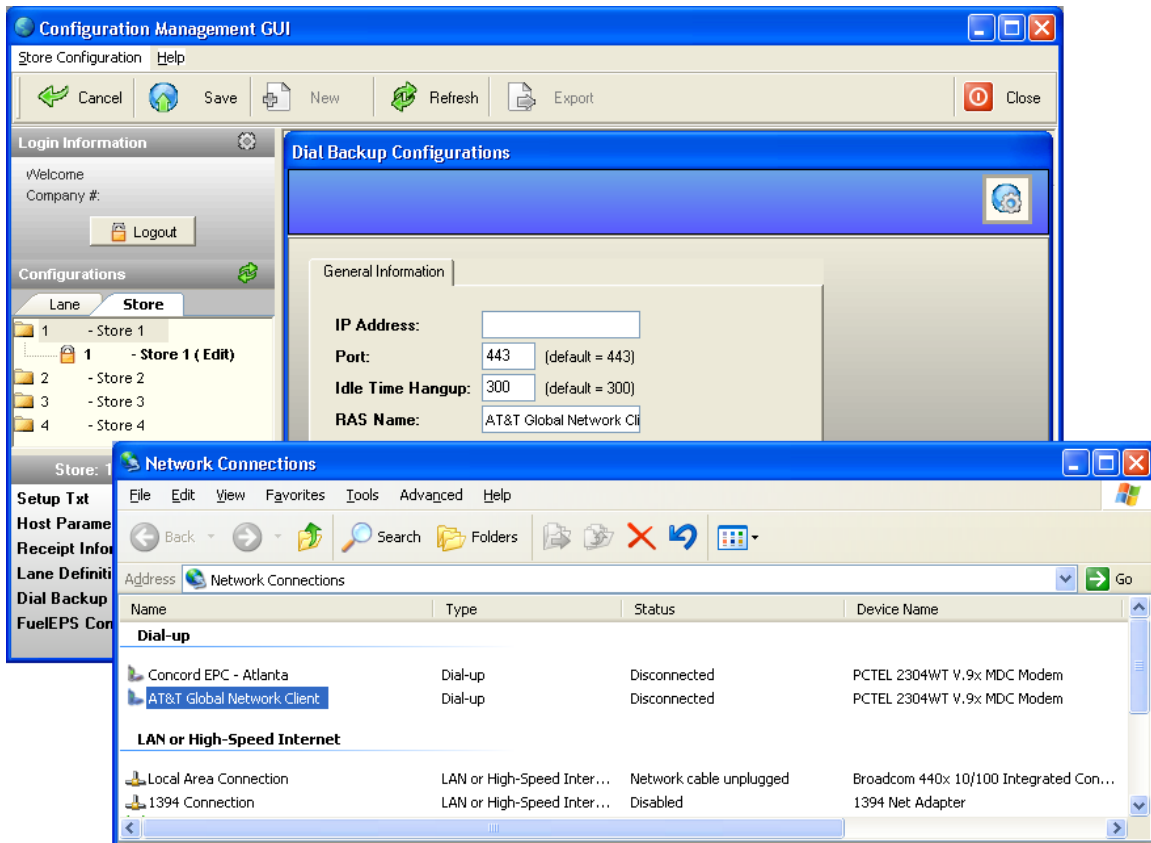
10. If you do not already have a dial up account set up in Windows on the PC where the Dial Backup client is installed, set it up at this time.
11. In windows, open your Network Connections. (Start, Settings, Network Connections)



12. Right Click on the Dial up configuration in your Network Connections list and select the Properties option.
13. On the General Tab, click the Configure Button.



14. Use the Maximum speed (bps) dropdown to select 9600. Doing this will reduce the time it takes to initially connect to the dial backup system.
15. Click Ok to save your Modem Configuration and exit the Dial Up configuration screen.
16. Verify that the name entered in your Windows Network Connections for your RAS matches the name entered in the Dial Backup Configuration Screen.



Verify Web Services Settings

Prior to the first sign on with a POS lane, it is recommended that users log onto the Web Services page and verify the store's configurations. Refer to the *Connected Payments Users Guide* for specific information about using the Web Services interface.

Review Store Setup Report

To view the Store Setup Report, log into the Web Services page and use the Navigation Menu to go to Reporting. Select the Store Setup Report to view a locations configuration.

The screenshot shows a web interface for 'Configure Reports: Reports'. Below a blue header bar with a bar chart icon and the text 'Transaction Management Portal Reports', there is a section titled 'Available Reports' with a calendar icon. This section contains a table with two columns: 'Report Description' and 'Code'. The table lists several reports, including Host Settlement Report, Host Settlement Exceptions, Offline Approved Transactions, Offline Declined Transactions, Offline Pending Report, Offline Final Disposition Report, and various Store Sales Summary reports. Each report has a corresponding code listed in the 'Code' column.

Report Description	Code
Host Settlement Report	HST01
Host Settlement Exceptions	HST02
Offline Approved Transactions	OFL01
Offline Declined Transactions	OFL02
Offline Pending Report	OFL10
Offline Final Disposition Report	OFL11
Store Sales Summary	SSR01
Store Sales Summary by Store and Lane	SSR02
Store Sales Summary by Store and Cashier	SSR03
Store Sales Summary by Store	SSR04

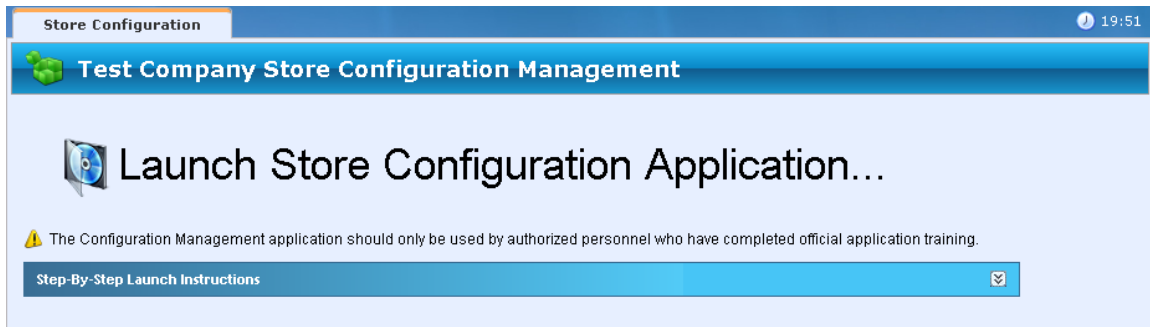
On the following screen, select the store or stores to review and click the Generate Report button. The report should appear similar to the one below:

1 of 1 Select a format Export							
Store Setup Report Test Company Run by : Date : Current							
Stores							
Store 1 - MTXEPS - Test Store 1							
Close Time: 5:41 PM Pacific							
Services							
<u>Transaction Processing</u>	<u>BIN Service</u>	<u>Configuration Management</u>	<u>Receipt Storage</u>	<u>Web Client</u>	<u>Web Reporting</u>		
Yes	Yes	Yes	Yes	Yes	Yes		
Transaction Processing							
<u>Tender Type</u>	<u>Host</u>	<u>Merchant Id</u>	<u>TerminalId</u>	<u>State Code</u>	<u>Bank ID</u>	<u>Check Services</u>	<u>Encryption</u>
Check Auth	SoluPay	5089123456	339				
Credit	Test-Shazam	543132001018886	620220				
Debit	Test-Shazam	543132001018886	620220				
EBT Cash	Test-Shazam	543132001018886	620220				
EBT Food Stamp	Test-Shazam	543132001018886	620220				
Gift Card	Test-Shazam	543132001018886	620220				
Phone Card	Test-Shazam	543132001018886	620220				
Private Credit	Test-Shazam	543132001018886	620220				
Page 1 of 1 Run 5/8/2009 4:43:53 PM ©2007 - 2009 MTXEPS, Inc. All Rights Reserved DMT10 (9113)							

Use the displayed configuration information to verify that the store is set for the correct host for each tender type, correct merchant number(s), and services.

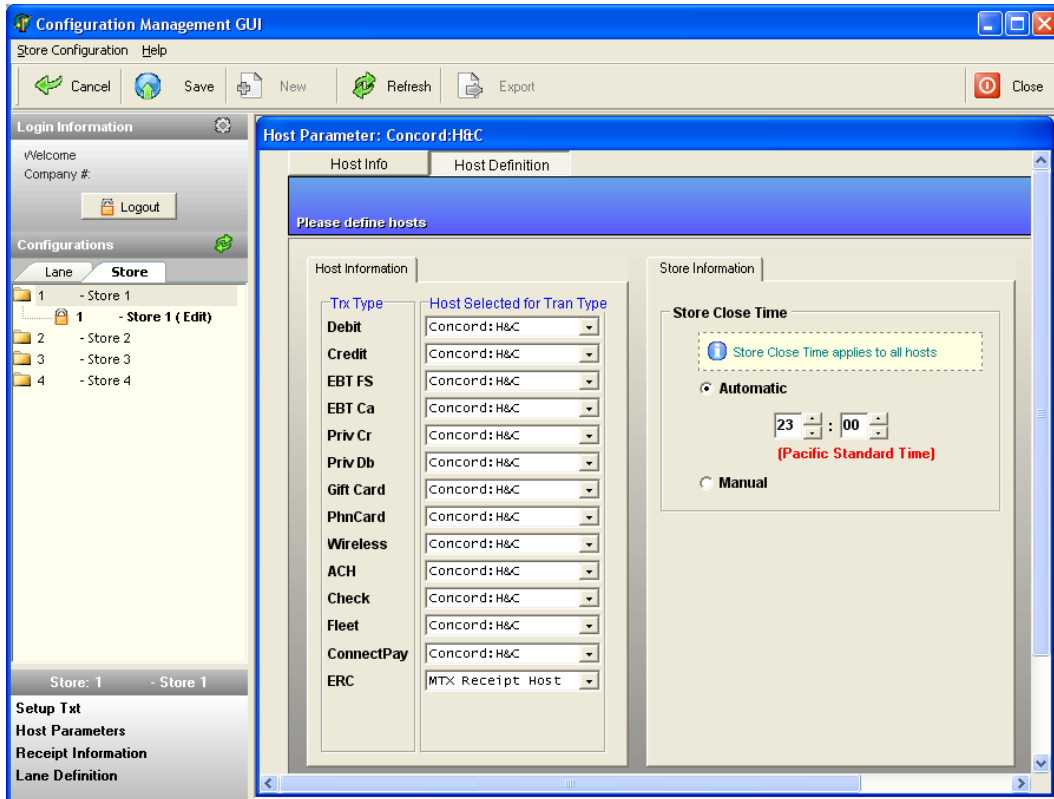
Review Configuration Management Settings

Using the Web Services, on the Navigation Menu, select the Config Management option. Select the option to launch the Configuration Manager application.

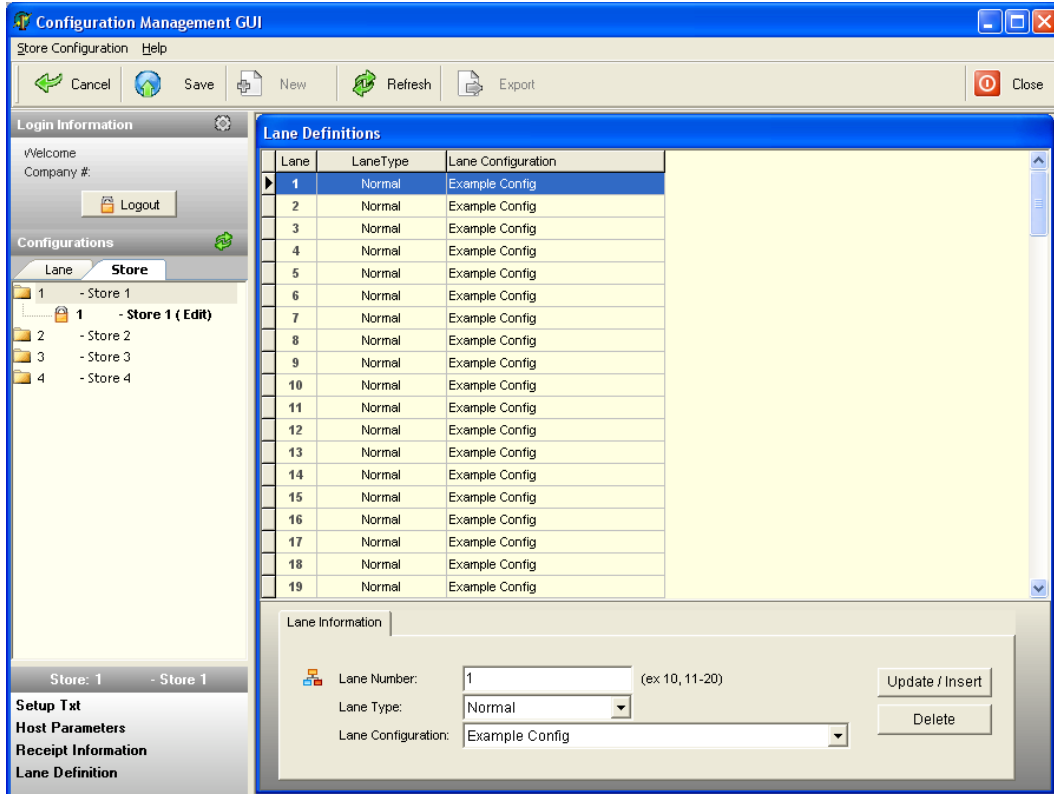


Log into the Configuration Manager and review the Store Configuration, and associated lane configurations making certain that the hosts are defined properly and that all expected lanes are present, and have an appropriately defined terminal configuration assigned.

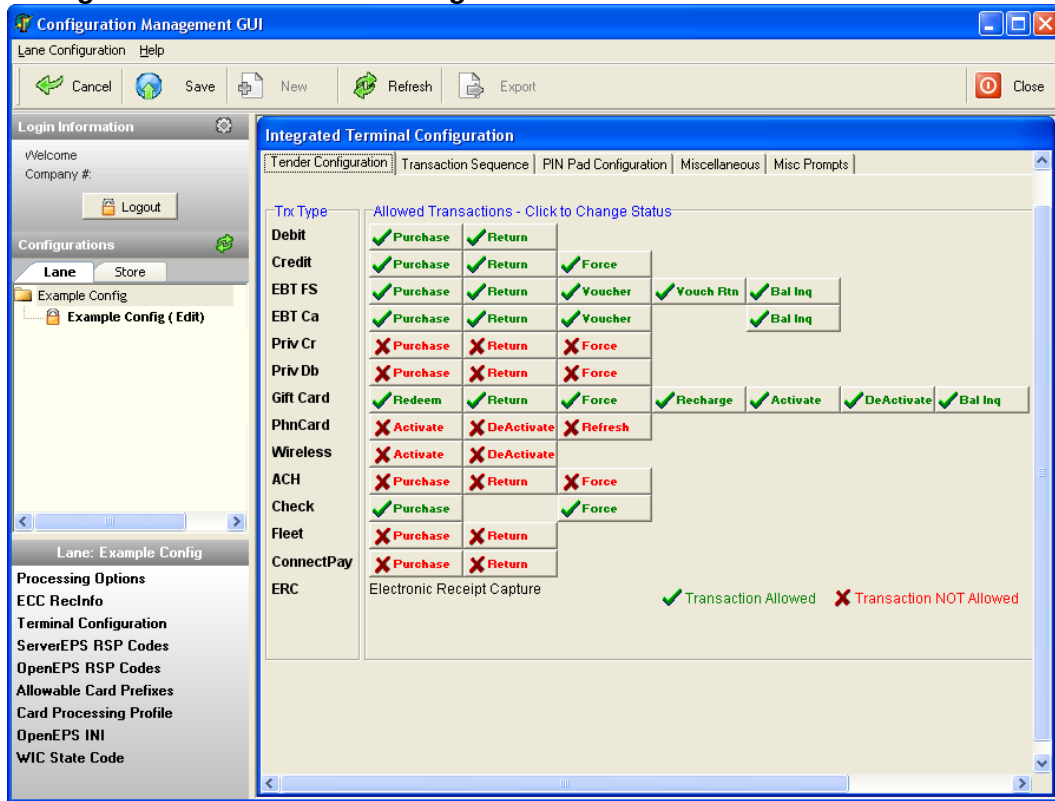
Verify Hosts:



Verify Lanes:



Verify Configured Lane Terminal Configuration:



Perform Initial POS Sign On

After the installation and configuration of your Connected Payments environment is completed it is necessary to perform a first time sign on. This sign on will allow the POS to connect up to the Connected Payments data center and download all the configuration files.



Before signing onto your POS lanes, be sure you have configured your Connected Payments profile on the Web Services site. Refer to the *Connected Payments Users Guide* for complete information on setting up your Connected Payments configuration.

As the first time download can encompass quite a few files and the download speed is dependent on the quality and speed of the internet connection from the store location to Connected Payments, it is recommended that this be done while the store is closed.

Decommissioning WinEPS (For Existing WinEPS Customers only)

If you are an existing WinEPS customer, once the new OpenEPS installation is performed, your POS lanes will no longer connect up to WinEPS.

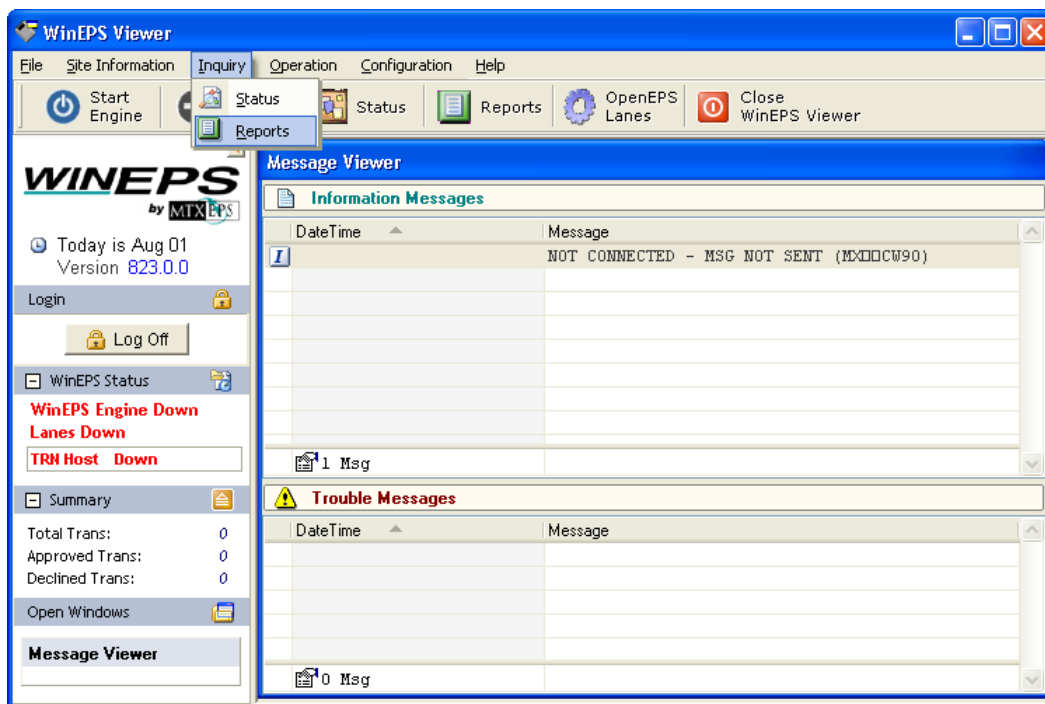
It is not recommended to delete or otherwise uninstall WinEPS at this time, as you may wish to use your current configurations as the basis for your Connected Payments profile. Instead is recommended that you simply disable your WinEPS service by marking the service to start manually.

If your WinEPS system was set up to process offline transactions, either at WinEPS only or as Stand in at the POST, it is highly recommended that you review your system to make sure that there are no offline transactions currently outstanding.

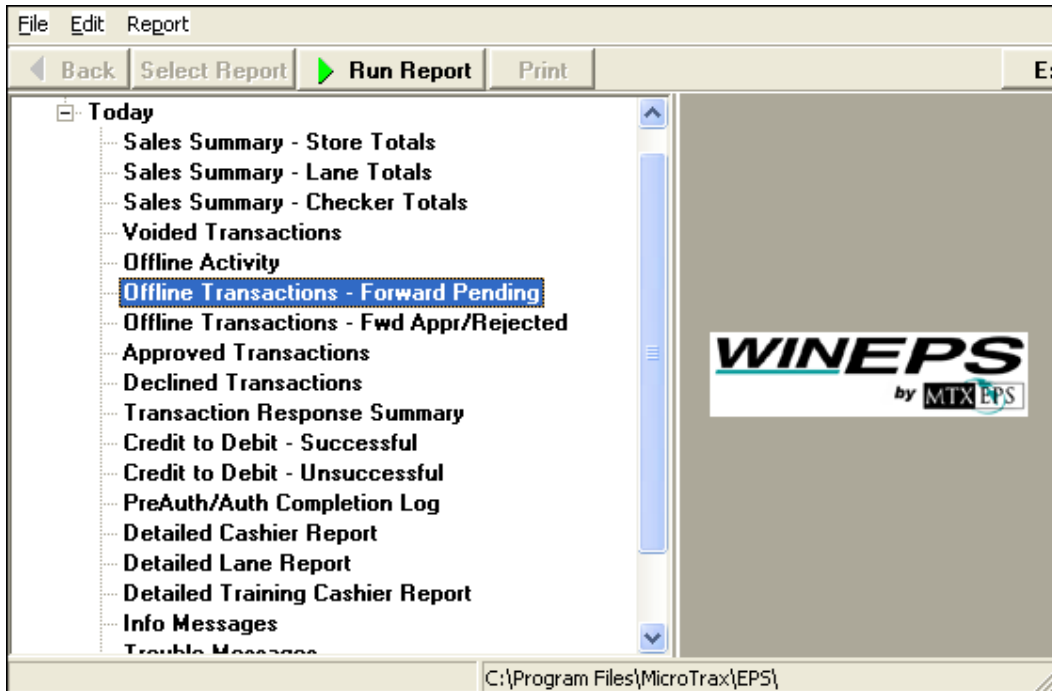
Reviewing WinEPS for Offline Transactions

To review WinEPS for offline transactions that are still pending, follow the steps below:

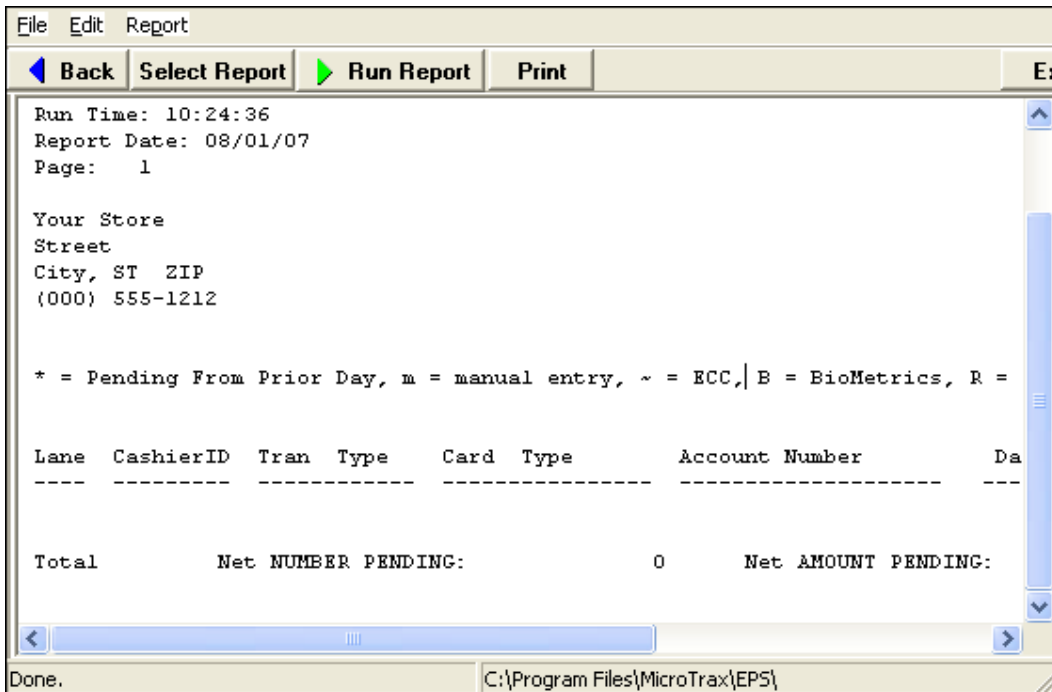
1. In WinEPS, go to Inquiry | Reports.



2. Expand the “Today” list of reports, and select the Offline Transactions – Forward Pending report.



- Click Run Report to view the report.



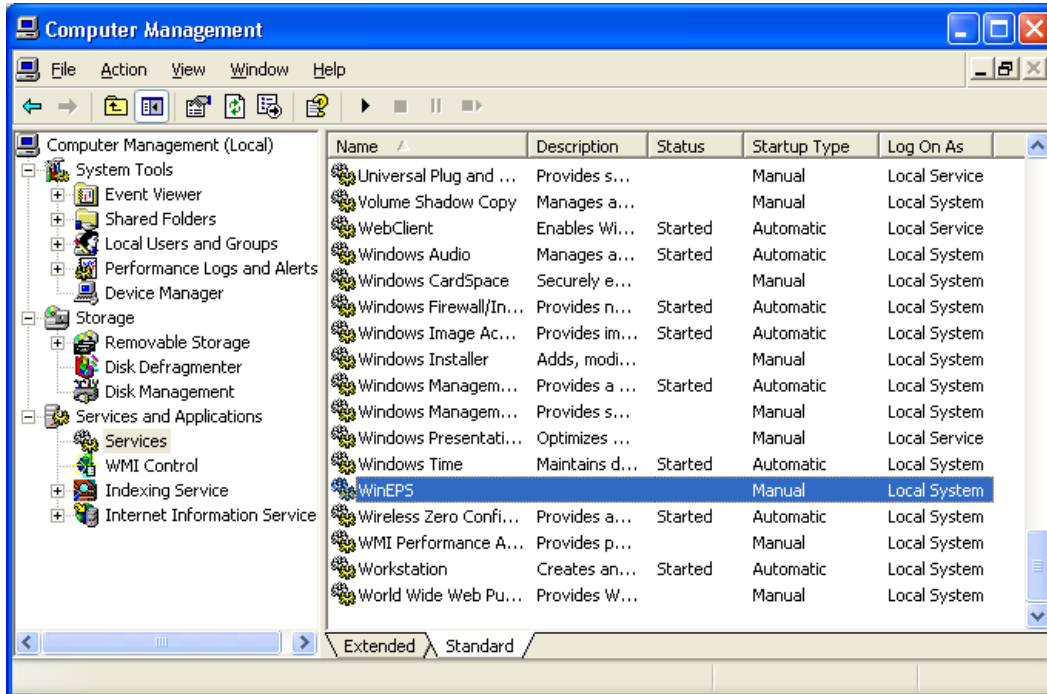
- Check the bottom of the report for the Net NUMBER PENDING amount. If the amount listed is zero, as shown above, no offline files are pending. Otherwise, if transactions are listed on this report and the number pending is greater than zero, it is recommended that you contact StoreNext support to determine the next step you should take in resolving your offline transactions.

Setting WinEPS to Manual Startup

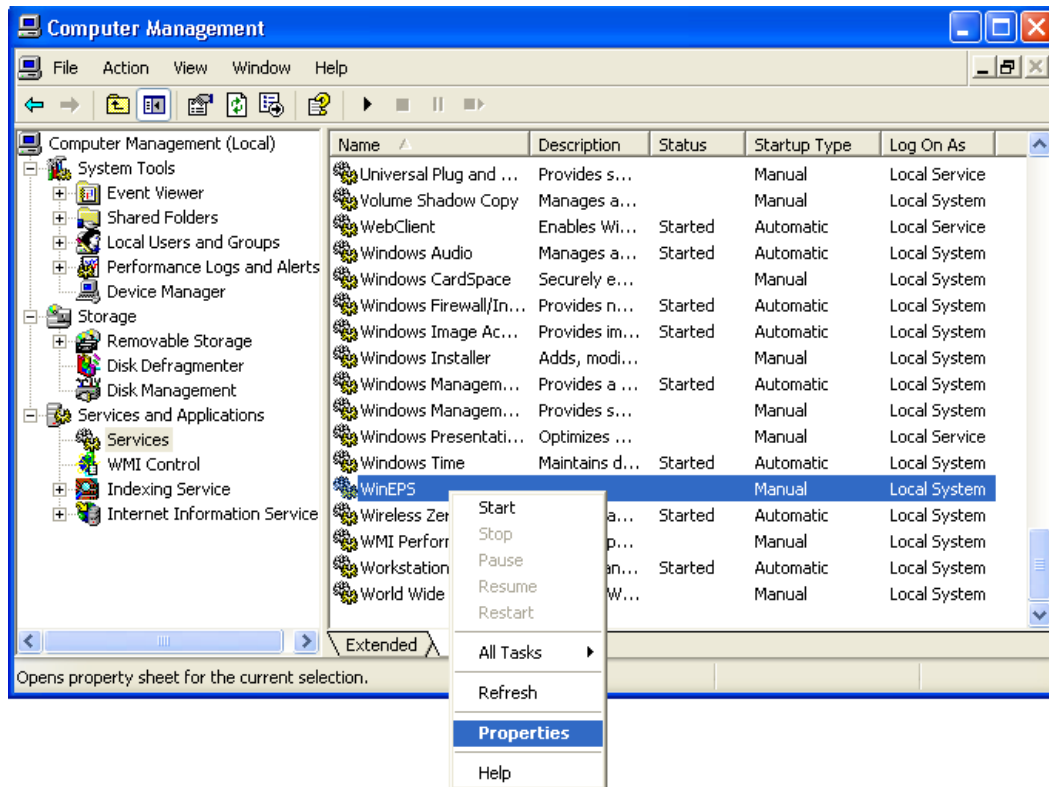
At this stage it is recommended that you shut down the WinEPS service if not already shut down, and use Windows Services to set the WinEPS service to a Startup Type of manual.

Follow the steps below to set your WinEPS to Manual service startup:

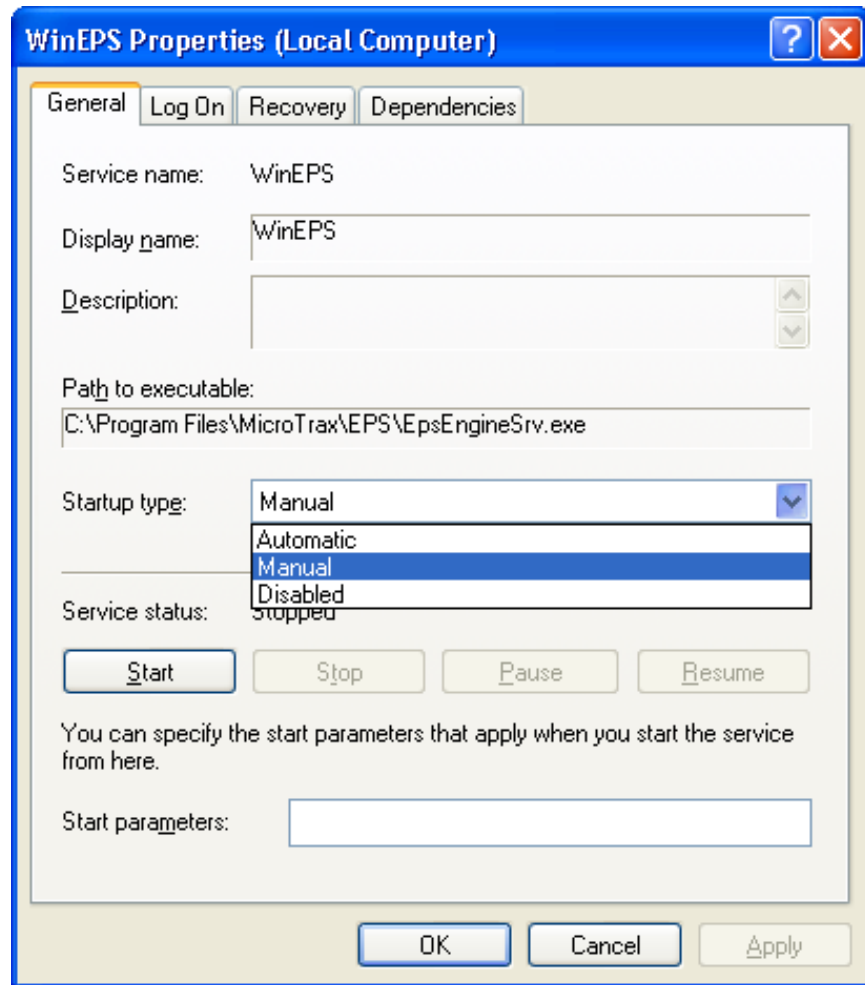
1. Right click on the My Computer Icon and select Manage from the dropdown list.
2. Select Services and Applications.
3. Select Services.



4. Scroll to the bottom and locate the WinEPS service.



5. Right click the WinEPS Service. If the service is currently stated, click the Stop option. When WinEPS is stopped, select Properties.
6. Use the Startup Type dropdown box to select Manual.



7. Click Ok to save and exit.

Chapter 3

Direct Fuel Integration

This chapter covers installing the required components for processing fuel lane transactions within a payments environment utilizing the OpenEPS Direct solution.

For fuel lanes, the FuelEPS program provides connectivity between the fuel lanes and the data center payments server. As part of the OpenEPS Direct solution, FuelEPS is only required for the fuel lanes; all other OpenEPS Direct lanes will continue to connect to the data center directly.

FuelEPS is a completely independent install and as such may be performed before or after the setup detailed for OpenEPS Direct in Chapter 2.



Do not install FuelEPS to the same PC on which the Dial Backup Client is installed.

Only one installation of FuelEPS is required per store location. All the fuel lanes at a location connect to a single instance of FuelEPS; FuelEPS then coordinates communication between the data centers and the fuel lanes.

Direct Fuel Requirements

Fuel Requires New Store Number

The Fuel lanes generally run under a different store number than the location's standard OpenEPS Direct POS lanes, which are servicing the main "Grocery" location. In order to get a new store number defined under the company, you will need to contact StoreNext and submit a new store request form to receive a new Fuel store number.

If the "Fuel Center" has OpenEPS lanes processing indoor convenience store ("C-Store") transactions, it is our recommendation that those lanes process under the new Fuel store number in addition to the Fuel pump lanes. The merchant will need a separate merchant number from their Fuel Processing host and this must be provided with your new store request form; merchant numbers are provided by the processing host.

Retalix Fuel Server Version

If you are using the Retalix Fuel server to connect to FuelEPS, verify that the MTXLinkSrv.exe file which handles communication to FuelEPS is at minimum a version number of 4.4.0.0.

Direct Fuel Installation Process

The following steps are required to install and configure FuelEPS for Direct Fuel support.

1. [Configure FuelEPS for Fuel](#)
2. [Acquire FuelEPS Installation](#)
3. [Verify Store and Company Number](#)
4. [Create a FuelEPS User Account](#)
5. [Install FuelEPS](#)

Configure FuelEPS for Fuel

FuelEPS has no configuration interface at the store location; instead FuelEPS is configured through the Web Services interface, the same as the OpenEPS Direct lanes.

It is recommended that you configure your FuelEPS settings via the Web Services before installing at the store location as the service will connect and download your configurations as soon as it becomes active.

Follow the steps below to configure FuelEPS.

1. Log in to the web services page.
2. On the Administration Menu, select Store Configuration. Launch the Store Configuration application.
3. Sign into the Configuration Management GUI.
4. From the Lanes Tab, Select and Open the lane configuration you will be using for your fuel lanes, or create a new lane configuration for your fuel lanes.
5. Select the FuelEPS Configuration page.

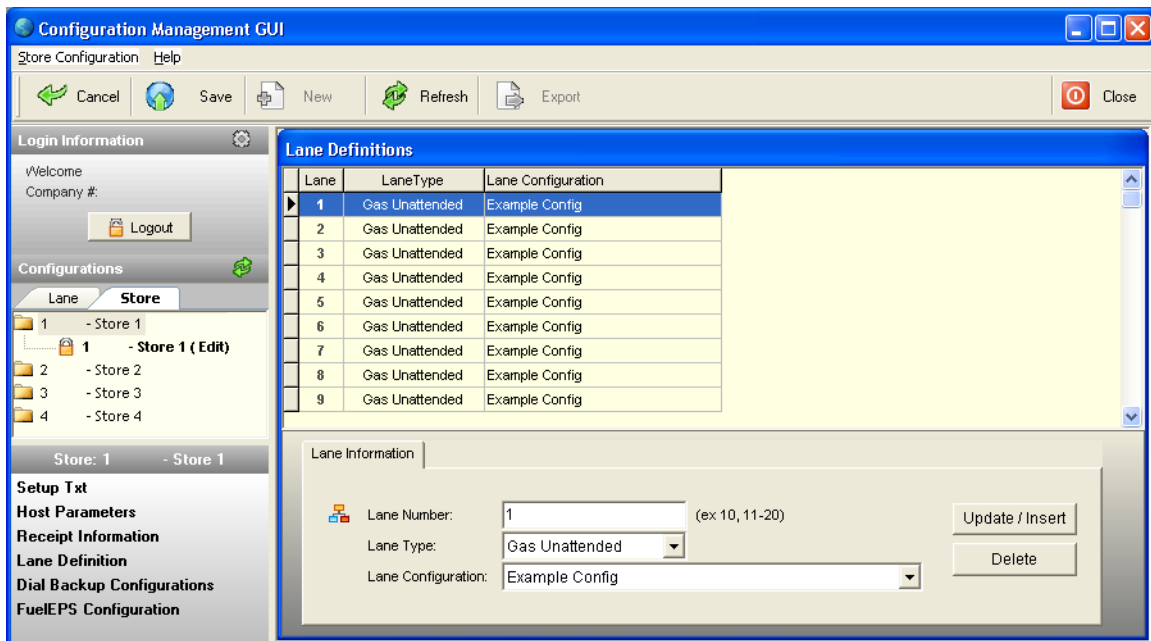
Trx Type	Allowed Transactions (Click to Change Status)
Debit	✓ Accepted
Credit	✓ Accepted
EBT FS	✗ Not Accepted
EBT Ca	✗ Not Accepted
Priv Cr	✗ Not Accepted
Priv Db	✗ Not Accepted
Gift Card	✗ Not Accepted
PhnCard	✗ Not Accepted
Wireless	✗ Not Accepted
ACH	✗ Not Accepted
Check	✗ Not Accepted
Fleet	✓ Accepted

Default Tender for Tender Resolve Message: Unresolved

6. Use the information below to configure your FuelEPS settings:

Menu Item	Description
Service Restart Time (hh:mm)	Local time at which FuelEPS will perform its local end of day operations.
Allowed Transactions	Fuel lanes may send a special message to FuelEPS which contains the card number, and FuelEPS will compare the given card number with its card prefix table and attempt to resolve the card type to a single card. The transaction types listed here are solely used in determining what transaction types are valid for the special Tender Resolve message. If a tender is marked as Accepted, then FuelEPS will check the associated prefix table and include that tender in the attempt to resolve the tender of the card number given. If the tender is marked as Not Accepted, it will be excluded from the tender resolution. This setting will not prevent FuelEPS from accepting any fuel transaction, even if the card type is marked Not Accepted.
Default Tender for Tender Resolve Message	Fuel lanes may send a special message to FuelEPS which contains the card number, and FuelEPS will compare the given card number with its card prefix table and attempt to resolve the card type to a single card. If FuelEPS cannot resolve the card number to a single card type (for example if the card is both a credit and debit card), this setting controls what tender type will be returned to the fuel lane.
Number to Add to Pump Number	A number that is added to the pump number received from the pump used to determine the lane number for that pump which is then used in the web interface for reporting and tracking purposes. For example, if the value entered for this option were 20, pump 1 would be listed as lane 21. This is used to prevent overlap between pumps and grocery lanes.

- Once complete, save your lane configuration, remembering the configuration name.
- From the main Configuration management screen, select the Store Tab, and then select the configuration for the store you are setting up.
- Select the Lane Definition screen.



- Each fuel lane requires a lane to be defined on the Lane Definitions screen. To add a lane, click the Add button. Remember, if both your store lanes and fuel lanes are going to the

same store configuration, be sure to account for the “Number to Add to Pump Number” offset when determining which lane numbers to assign to fuel lanes.

11. Set the lanes you will be using to a Lane type of Gas Unattended.
12. Set the Lane Configuration you updated or created for each of your fuel lanes.
13. Save your changes.

Fuel lane setup and configuration is complete at this point. When FuelEPS starts, it will automatically connect to the data centers and download the latest configuration information.

Acquire FuelEPS Installation

The FuelEPS installation software is available directly from StoreNext.

Verify Company and Store Number

The Company Number and Store Number are used during the installation of FuelEPS, and should be on hand before the installation process is started.

The Company Number for use with fuel lanes will generally be the same as the one for the location's OpenEPS Direct POS lanes; however, a different Store Number may be assigned to FuelEPS. Verify these numbers are correct and have them available for the installation.

If you have not yet received a Company and/or Store Number, contact StoreNext.

Create a FuelEPS User Account

FuelEPS runs as a service; as such it requires a Windows user account be inputted under whose permissions FuelEPS will run.

- **Domain**

In a domain environment, users must be set up by a domain administrator.

- **Workgroup (Non-Domain)**

In a workgroup environment, users are set up individually on each computer by a local administrator.

Account Requirements

The account should be designated as a member of the Power Users group. This user must have full access to the EPS folder and subfolders, read and write permission to the registry, and the right to run services.

FuelEPS Windows User Account and Network Passwords

Often, networks will require password changes on a periodic basis. **It is key to be aware that if the password for the FuelEPS Windows User Account lapses and becomes invalid, the FuelEPS service will not start.** It is therefore recommended that the account be set so that its password does not expire. If the account cannot be set in such a fashion, the password must be manually maintained. Manual maintenance includes updating the FuelEPS Service with the new password each time it is changed.

The FuelEPS Service logon information is located in the Windows Services (Start | Settings | Control Panel | Administrative Tools | Services) under the properties of the FuelEPS Service, on the second tab Log On.

Install FuelEPS

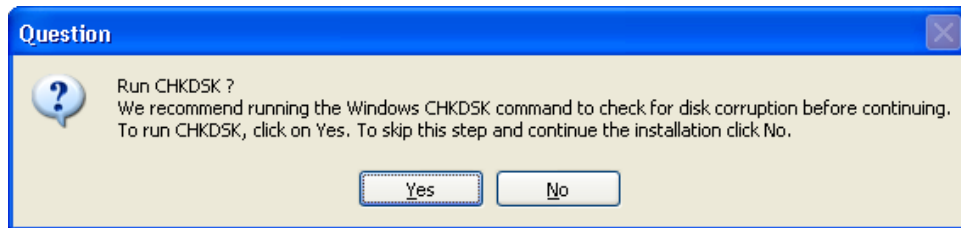
Only one installation of FuelEPS is required per store location. All the fuel lanes at a location connect to a single instance of FuelEPS; FuelEPS then coordinates communication between the data centers and the fuel lanes.

Installing

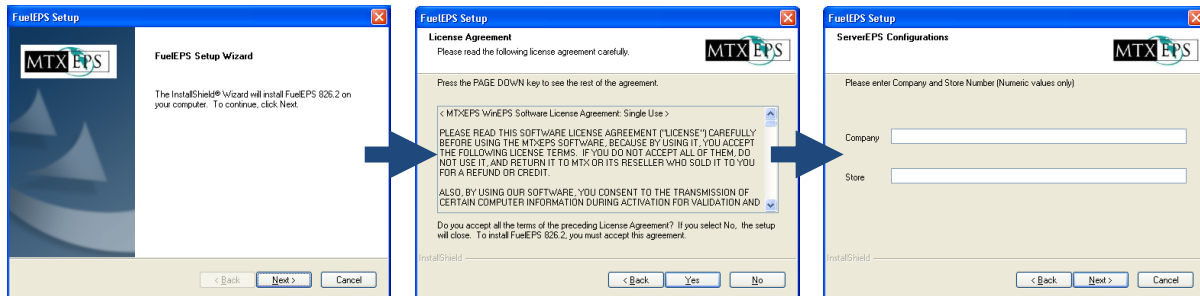
Follow the steps below to install FuelEPS.

Standard Installation Steps

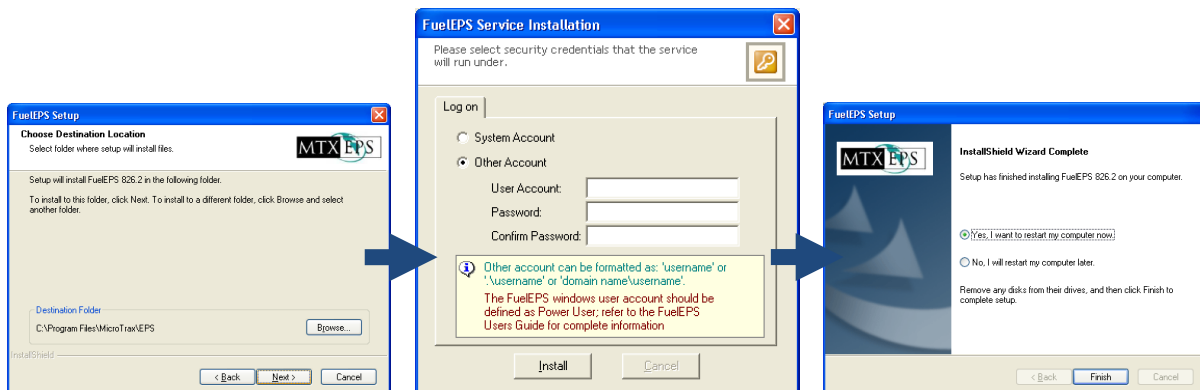
1. Copy the FuelEPS XXX.X.exe to the PC on which you wish to install FuelEPS.
2. Double click the exe to begin installation.
3. Upon starting, a request to run Check Disk will be displayed. Click Yes to perform CHKDSK on the computer. If CHKDSK finds any errors, abort the installation and correct those errors or replace the hard drive.



4. After a successful CHKDSK, follow the setup screens below.



6. Select Next at the intro screen.
7. Click Yes to agree to the license.
8. Enter your Company Number and Store Number, and click Next to continue.



9. Select the destination path; it is highly recommended to use the default path of C:/Program Files/Microtrax/EPS
10. Next, enter the FuelEPS Windows User Account information for the Service Installation. Follow the instructions on the screen for proper account entry.

11. Finally, allow the installation to reboot the computer.

Command Line (Silent Install) Installation Steps for FuelEPS

Using command line parameters it is possible to install FuelEPS without needing to answer prompts during the installation. The following is a list of current switches and their description:

Command-Line Switch	Description
/a /s	Silently installs FuelEPS when packaged for the web. • (There must be a space between the /a and the /s)
-c OR /c	Specifies the Company Number Allows you to install FuelEPS at a specified directory other than the default installation location. If the “i” switch is not present, the default path of “C:\Program Files\MicroTrax\EPS” will be used.
-i OR /i	When specifying the directory path, be sure to use quotation marks if spaces are included in any of the directory names. Example: /i"C:\Program Files\MicroTrax\EPS"
-o OR /o	Specifies the Store Number
-u OR /u	Specifies the user name for service installation. (FuelEPS Windows User Account name)
-p OR /p	Specifies the password for service installation. (FuelEPS Windows User Account password)
-n OR /n	Specifies the domain name for service installation.

Command-Line Switch Table

Except for the required “/a /s” switch, the switches can be entered with either a dash (-) or a forward slash (/) before the letter; there is no difference between these options.

When the installation package is launched via command line and is either pointed at a directory that already contains a FuelEPS installation, though the use of the -i switch, or if the -i switch is absent and there is a FuelEPS installation present in the “c:\program files\microtrax\eps” directory, an UPGRADE will be performed automatically, and not a new installation.

It is recommended to use a batch file that can be created once, and used in multiple installations.

1. Copy the FuelEPS XXX.X.exe to the PC on which you wish to install FuelEPS.
2. Create a batch file using the executable name (and full path, if necessary), and including all necessary command line parameters.

- Example Command:

[Path] FuelEPS XXX.X.Exe /a /s [(-u or /u)username] -cCompany# -oStore#[(-p or /p)password] [(-n or /n)domain name]
Example: “C:\ FuelEPS 826.2.exe” /a /s -c999 -o1001 -uUserAccount -pPassWord -nLocalMachine



Note: there is no space between the switch letter and the information for that switch. In the example above the /u switch specifies the user name, which was supplied as UserAccount, so the command was written as /u UserAccount with no space between the /u and the user name.

3. Once the batch file is created, to install FuelEPS, simply double click on the batch file. No prompts will be shown.

Chapter 4

Stand Beside Direct Integration

VeriFone Vx570 (VeriFone Omni 3750) Terminal

The VeriFone Vx570 terminal is a complete stand beside payments device. The Vx570 can be loaded with a modified version of OpenEPS code to communicate over a TCP/IP broadband internet connection directly to the payments server without the need for an integrated Point of Sale system.



The Vx570 is optimal for small businesses, and for businesses that would like to replace existing stand beside POS solutions with a PCI/PED approved system without necessitating a move to an entirely new POS.

The VeriFone Vx570 possesses the same functionality as the VeriFone Omni 3750 terminal and all the instructions below can be used for the Omni 3750; however the Omni 3750 ceased to be PED compliant and is no longer available from Verifone as of January 1, 2008.

The Vx570 can receive its IP address automatically via DHCP, or a static IP address can be assigned by modifying its configuration file. Information on setting a static IP is found below in the configuration file section.

The Vx570 supports DUKPT encryption only.

The Vx570 must be loaded with terminal code before deploying it onto the network. The terminal code can be loaded from any windows computer, but it requires the use of a specific download cable (part number 26264-02) and COM port 1.

The Vx570 must possess at least 12 MB of RAM; models with less than 12 MB cannot successfully load or run the required code. The part number for the 12 MB model is: P/N: M257-050-04-NA1. It is highly suggested that a model with more than 12 MB be utilized in order to support future development.

Loading Terminal Code on the Vx570

Standard Terminal Code Loading

This section details loading Terminal Code onto a terminal that does not already have Terminal Code loaded onto it. Terminals with Terminal Code already loaded will be upgraded automatically.

To load Terminal Code onto the terminal you must complete the following:

12. Acquire the Terminal Code
13. Set Terminal to Download Mode
14. Extract the Terminal Code
15. Edit the configuration file
16. Connect Terminal and Run a Command Line Batch File

Acquire the Terminal Code

To acquire the terminal code for the Vx570, contact StoreNext support.

Extract the Terminal Code

1. Locate the VX-570 Stand Beside.zip file provided by StoreNext; copy this file to a convenient directory (such as your desktop) on the computer that you will be using to load the Vx570.
2. Extract the zip file to its own directory.

Edit the configuration file

1. Go into the directory where the VX570 Stand Beside.zip file was extracted and locate the sb570.dld (or sb3750.dld) file.
2. Open the file with notepad.
3. Modify the following configuration lines; if any of the keywords listed below are absent from the file, be sure to add them in and configure them as described below:

Keyword	Description
#GATEWAY="127.0.0.1"	Update the IP address to the IP address or host name of the default gateway.
#DNSPRIMARY="127.0.0.1"	Update the IP address to the IP address or host name of the primary DNS server.
#DISABLEDOWNLOAD="N"	Recommended setting is "N". Enter "Y" to prevent download of new configurations to the Vx570.
#ISPPHONE="555-555-5555"	Used for Dial Backup. Enter the connection phone number for your dial up internet provider.

Keyword	Description
#ISPUSEID="UserName"	Used for Dial Backup. Enter the user name for your dial up internet account.
#ISPPASSWORD=" Password "	Used for Dial Backup. Enter the password for your dial up internet account.
#COMPANY_NUMBER=""	Enter your assigned company number.
#STORE_NUMBER=""	Enter your assigned store number.
#TERMIP="192.168.1.1"	Enter the IP address the terminal will utilize on the local area network.
#MANAGERIDONVOID="Y"	Enter a "Y" to require a manager ID when a void is processed. Enter an "N" to allow voids without requiring a manager ID.
#SERVER="SERVEREPS"	Set the server name to "SERVEREPS".
#ALTHOST="0"	Set the value to "0".
#NOSSL="N"	Set this value to "N" to utilize SSL encrypted communication.
#EBTSTANDALONE="0"	The recommended and default value is "0". Enter "1" to enable this option. This setting is allows using the 570 as a customer facing EBT Balance inquiry only terminal. When this setting is enabled, EBT Food and EBT Cash tenders will allow only the Balance Inquiry transaction type. Additionally only one copy of the customer receipt will print (no separate store receipt will print), and if the terminal becomes disconnect, it will automatically sign back on using the initial cashier number provided on original boot up.
#TRN1="1" #TRN2="2"	Allows the selection of which data center will be the primary and backup connections for this terminal. Valid configurations are: #TRN1="1" #TRN2="2" OR #TRN1="3" #TRN2="4" To determine what numbers (if any) should be present for your location, contact MTX.
#SVC="3"	Allows the selection of which datacenter the services connection will be routed to. Valid configurations are: #SVC="1" OR #SVC="3" To determine what number (if any) should be present for your location, contact MTX.

4. Save Changes and close

Set Terminal to Download

5. Press 'F2' and 'F4' simultaneously.



1. When prompted on the terminal, enter the following password: 1 Alpha Alpha 6 6 8 3 1
2. Press Enter (the Green key) to submit the password.
3. Press the key under the down arrow until the menu option labeled 'Download' appears next to the F2 key.
4. Press the F2 Key to select Download. Screen will display: SYS MODE FILE FILE GROUP
_1.
5. Press the Green Enter key.
6. Enter Password again when prompted: 1 Alpha Alpha 6 6 8 3 1
7. Select 'F3' for 'Full'
8. Select 'F3' for 'COM1'

Connect Terminal and Run a Command Line Batch File

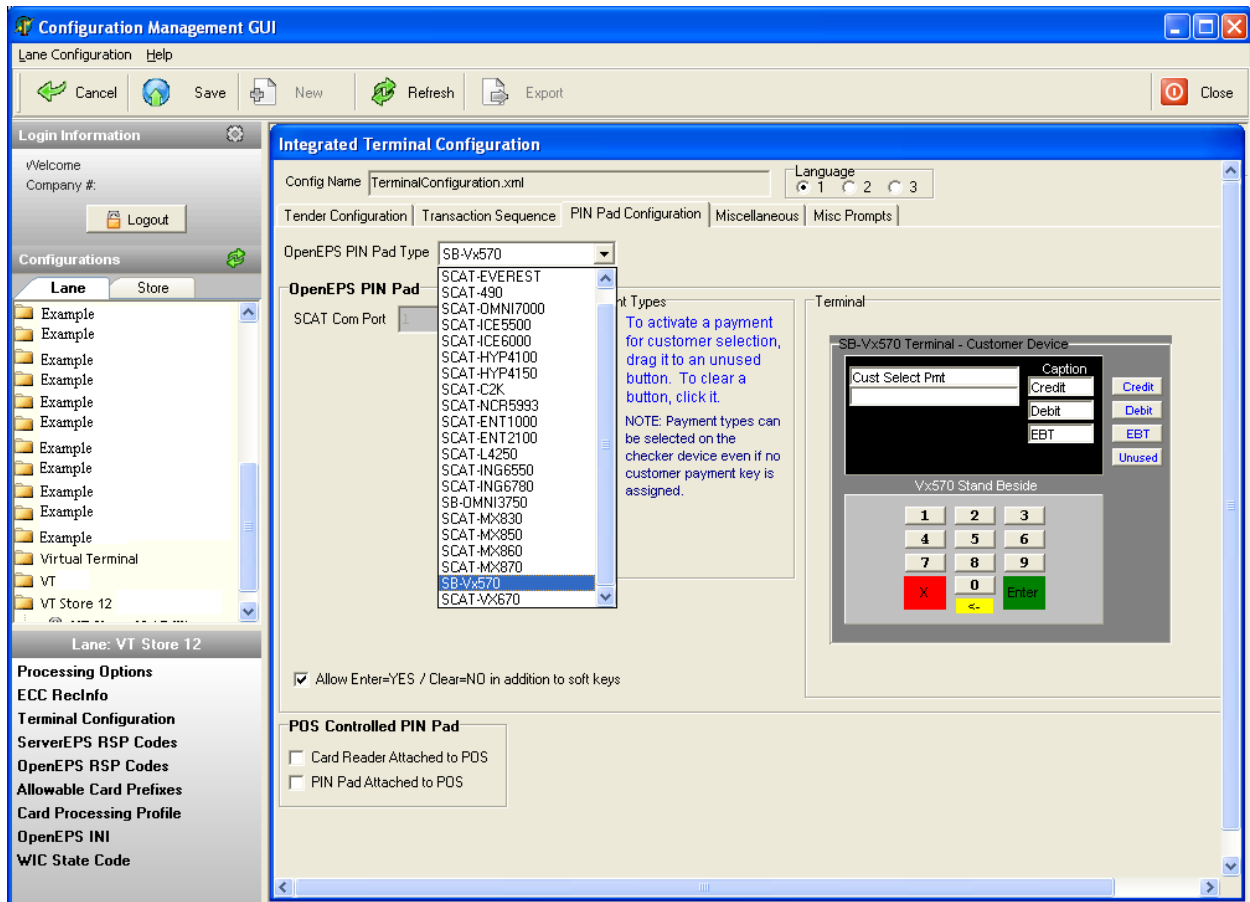
To download the VX570, the VeriFone download cable part number 26264-02 is required.

1. Connect the VeriFone download cable (part number 26264-02) to COM 1 on the computer you are going to download from. The COM port must be COM 1 or the download will not occur.
2. Open up a command prompt.
3. Change directory to the location where you extracted the terminal code files.
4. At the command Prompt type in:
D.bat
5. Press enter and the terminal should begin loading the Terminal Code.

Vx570 Configuration Manager Setup

The Vx570 terminal is set up the same way as other terminals.

1. In the Configuration Manager, Go to the Lanes tab.
2. Select your Lane Configuration from the list provided.
3. Select the Pin Pad configuration Tab.



4. Choose the SB-Vx570 option. The SCAT Com Port dropdown will be grayed out, as this terminal does not use that option.
5. If using the PINPad1000 with the Vx570, select the PIN Pad Attached to POS checkbox at the bottom of the screen.
6. Save your changes.

Set Vx570 Lane Number

After loading the terminal, the first sign on will request the lane number. The lane number entered at the first sign on will become the terminal's permanent lane number. This lane number must correspond to a configured lane number set in the Configuration Manager, Store tab | Lane Definition screen. If the need arises to change the terminal's lane number, contact StoreNext support for information.

Automatic Update

If the Vx570 terminal is already loaded with code as per the instructions in the Loading Terminal Code section above, it will automatically upgrade to the latest code version offered by Connected Payments upon connection.

Changing Parameters

Parameters set in the initial terminal load may be changed either by reloading the the Vx570, or by updating the configuration file with the new parameters and providing that file to StoreNext.

Additional Information – VeriFone Vx570

Using the MagTEK MINI check reader

The MagTEK MINI check reader may be used with the Vx570 terminal to provide check reading capability. In this configuration, the check reader will be attached directly to the terminal.

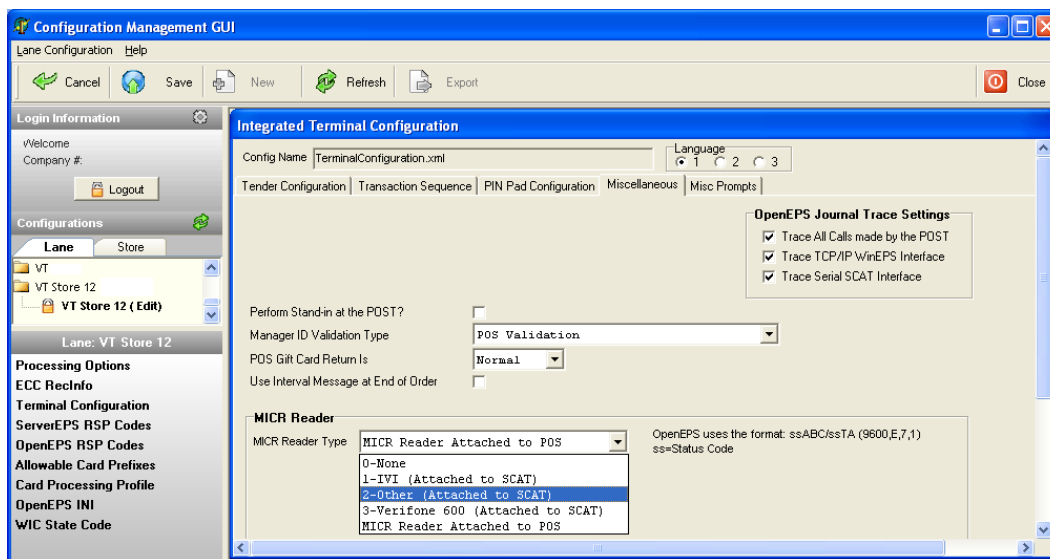
To allow the MagTEK MINI check reader to function, several setup steps must occur. Information on setup is detailed below.

After setup is complete, and the check reader is loaded from a windows PC it will be ready to attach it to your Vx570. Be sure to complete the entire configuration and loading of the check reader before connecting it to the Vx570.

Lane Configuration for the MagTEK MINI

Your terminal configuration must be set to use the MagTEK MINI check reader. Follow the instructions below to set up your configuration.

1. In the Configuration Manager, Go to the Lanes tab.
2. Select your Lane Configuration from the list provided.
3. Select the Miscellaneous Tab.



4. Use the MICR Reader Type dropdown box to select the 2-Other (Attached to SCAT) option.
5. Click Save to save any changes.

MagTEK MINI check reader Configuration

The MICR reader itself requires no additional setup; simply plug the MICR reader into the 3750.

Using the PINPad1000 with the Vx570

The Vx570 supports the use of the PINPad 1000 as a PIN entry device. When used for PIN entry, the PINPad 1000 must be encrypted.

To connect the PINPad 1000 to the Vx570, use the cable with part number 07042-06.

To set up the PINpad 1000, perform the following steps:

1. Plug the PINpad into the Pin pad port on the back of the terminal.
2. On the PINpad, from the Idle Prompt, press CLEAR immediately followed by 2.
3. This should bring up the password prompt. Input 844747746 then press ENTER.
4. Select menu option 5, Set Baud Rate.
5. Select 4:
 - Use 9600 BPS for the Vx570
6. The PINpad should display the selected baud rate, then return to idle.

Note: When used with the Vx570, the PINpad 1000 is a PIN entry device, and must be encrypted in the same manor as the terminal.

Supported Terminal Action Codes

The VeriFone Vx570 does not support all OpenEPS Terminal Action Codes. The following tables list the TACs that are valid for use with the Vx570.

First Action TACs:

TAC	Name
B	Slide Card
?	Payment Type

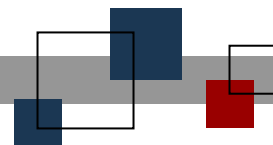
TAC	Name
z	Zip Code
Z	Print Decline Receipt
\$	Purchase / Balance Inquiry
>	Send Transaction
2	EBT Voucher Number
6	Check Type
7	Sec ID Type

Transaction Sequence Action TACs:

TAC	Name
b	Verify Card
D	Manual Account Number
E	Manual Expiration Date
F	PIN
g	Fee Amount
G	Amount
H	Cashier Cash Back
J	Phone Number
K	Tax Amount
M	Auth Code
n	Verify Customer Name
p	UPC Code
S	Secondary ID
T	Manager ID
W	State Code

Manual Actions:

TAC	Name
M	Auth Code
T	Manager ID
6	Check Type
7	Sec ID Type
S	Secondary ID
W	State Code
D	Manual Account Number
E	Manual Expiration Date



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