

Transaction Processor

Version 4.3.x.x

Quick Start Guide for Windows

Revision 1.410

CLE|E|O

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Introduction

Overview

This Installation Guide provides first-time installation information for the Transaction Processor. It also includes licensing, initial configuration, and testing information. It is intended to be a starting point for users of the Transaction Processor.

The Transaction Processor is one component of Cleo's *Transaction Development Kit*, a set of tools designed to simplify program access to mainframe and application server data. This kit is composed of:

- *Transaction Designer (TD)* –records screens and creates transactions.
- *Transaction Designer for XML (TD-XML)* –imports or captures XML documents and creates transactions.
- *Transaction Processor (TP)* – processes the transactions in real time.
- *Transaction Processor Client (TP Client)* – provides the basic API functions.
- A set of *Transaction Processor Administration, Configuration, and Connection Manager* tools (TP Admin) – web based utilities used to set configuration parameters, provide session monitoring, display log messages and statistics for the TP Service and initialize the connection pools for redundant and secure client support.

Other supporting documents include (available at <http://www.cleo.com/tpdoc>):

Transaction Designer User's Guide

This guide explains how to record screen clips and create transactions.

Transaction Designer For XML User's Guide

This guide explains how to import or capture XML documents and create transactions.

Transaction Processor Client Quick Start Guide

This guide lists prerequisites and provides an installation procedure for the Transaction Processor Client.

Transaction Processor Administration Guide

This document describes the functions provided by the Transaction Processor Configuration, Administration, and Connection Manager Tools.

Transaction Processor Programmer's Guide

This guide provides information about developing applications that utilize the Transaction Processor.

The ***Administration Guide*** and ***Programmer's Guide*** are installed in the %TP_HOME%\docs directory in PDF format. (For example: C:\Program Files\CleoTP\docs\AdminGuide.pdf)

Installation

Pre-Installation Checklist

Before installing the Transaction Processor, have available the following:

- Transaction Processor Quick Start Guide (this document)
- Transaction Processor Installation CD or Cleo Website software download “install.exe” file

The following documents can be found on the CD and Cleo Website:

- QuickStart.pdf - instructions for installation, licensing, and initial setup of the Transaction Processor
- AdminGuide.pdf - configuration and administration guide
- ProgGuide.pdf - programmer's guide
- README.txt - release notes
- client/QuickStart.pdf - instructions for installation and testing various connectors included in the TP Client

Install the Transaction Processor

Hardware Requirements

- Server (Pentium P4 2.8 Ghz. or equivalent and higher)
- 2 Gb. RAM (4 Gb. or more of memory is recommended)
- 500 Mb. of disk space (1 Gb. or more of disk space is recommended)
- CD Drive
- Network Card/Modem

Software Requirements

- Operating System: Windows 2000 Professional, Windows 2000 Server, Windows 2003, Windows XP Professional, Windows VISTA, Windows 2008 R2, or Windows 7.
- Microsoft's .NET Framework, Version 1.1, if using the .NET connector (install from the TP Installation CD if necessary)
- Any previous versions of the Transaction Processor and Host Access Plug-in must be removed using Add/Remove programs. In addition, if any additional software was installed such as the Voice XML Connector or ActiveX component, it should also be removed.
- Java Virtual Machine: Version 1.5 of the JVM is required for Transaction Processor version 4.2.2.22 or later (The most current revision of the 1.5 JVM

is recommended. A compatible version is available for installation from the TP Installation CD and download “install.exe” file, if needed.)

Installation Instructions

1. Turn on the server
2. Logon to Windows as an administrator.
3. Insert the Transaction Processor Installation CD into the CD drive and Browse to the CD drive(<drive>:\) in **Windows File Explorer** or **My Computer**.
OR
Use **Windows File Explorer** to browse to the Cleo Website software download “install.exe” file.
4. Launch the installer by double clicking on the install icon (or install.exe).
5. The first screen introduces you to the *InstallAnywhere* program, which guides you through the installation. All instructions from *InstallAnywhere* are meant to be self-explanatory. Read and then follow the instructions as described on each screen. (See the following section for details.)

InstallAnywhere Details

InstallAnywhere walks you through a set of installation steps. These steps are displayed on the left side of the screen, and will be checked upon step completion:

1. Read the Introduction Screen and then click **Next**.
2. Read the License Agreement. Select “**I accept the terms of the License Agreement**”, and then click **Next**.
3. Choose your install folder. The program defaults to C:\Program Files\CleoTP. Click **Choose** to search for (and then select) another folder location, or click **Next** to accept the default.
4. Choose a shortcut folder. Select from the list provided, or leave at the default. Click **Next**.
5. Review the Pre-Installation Summary and then click **Install**.
6. Upon completion of the install, click **Done**. The system will automatically reboot.

NOTE: If you are installing the 4.3.0.0 Version of the Cleo TP after removing an older Version of the Cleo TP, V4.2.x.x or older, please answer NO if asked if you want to overwrite the file

... \conf\wrapper.conf

The new wrapper.conf file that is installed with Cleo TP V4.3.0.0 contains a line near the beginning of the file to include the Tanuki wrapper licensing file. If you do not install the new wrapper.conf file, you can modify the existing wrapper.conf file by adding this line to be the 4th line of the wrapper.conf file

```
#include ../conf/wrapper-license.conf
```

Starting with Version 4.3.0.1 of the Cleo TP, the install process automatically modifies the wrapper.conf file, so you will not be asked about overwriting the file.

To begin using the TP, see the section [Licensing and Configuration](#).

The following sections provide instructions on installing and using the optional components, TP Client and the .NET library.

The TP Client Component

The Transaction Processor Client is made up of the set of connectors or interfaces that can be used to access the Transaction Processor through any application running locally or remotely to the TP.

The provided connectors are:

- Java
- .NET
- VoiceXML
- XML
- Web Service

The Transaction Processor Client is installed automatically with the Transaction Processor Service. A separate client installer is also available if the TP Client needs to be installed on a remote system. (Consult the TP Client Quick Start Guide for detailed installation, setup, and testing instructions.)

The TP .NET Component

If TP functions are to be utilized by an application being developed for the .NET environment, follow the instructions below.

A library named TPCConnector.dll is installed in %TP_HOME%\bin, where %TP_HOME% represents the folder where the TP was installed (e.g. C:\Program Files\CleoTP). A developer can import this library into a .NET project to gain access to Transaction Processor functions.

1. From the Solution Explorer view, right click on the project name and select "Add Reference"
2. Select the .NET tab
3. Click browse
4. Navigate to %TP_HOME%/bin and select TPCConnector.dll
5. Click Open

Licensing and Configuration

Obtaining a License

To obtain a license, contact Cleo at SupportEN@cleo.com. A form will be sent for you to fill out. The Host ID name of your system (see below) and Serial Number (located on the CD case) must be provided to obtain a license. Cleo will send you the license file that you'll need to install.

NOTE: *The Host ID is a unique alphanumeric string that identifies a particular computer. The Host ID is used to generate a license key. The license key that is generated is therefore bound to a single computer and cannot be transferred to any other computer.*

Use the following instructions to determine the Host ID name of your system.

Windows 2000

1. Right click on the My Computer Icon on your system's Desktop
2. Select "Properties"
3. Select the "Network Identification" tab
4. Click on the "Properties" button
5. The field under "Computer Name" is the name to be used for the Host ID. Note that this name is **case sensitive**.

Windows XP

1. Right click on the My Computer Icon on your system's Desktop
2. Select "Properties"
3. Click on the "Computer Name" tab
4. Click on the "Change" button
5. The field under "Computer Name" is the name to be used for the Host ID. Note that this name is **case sensitive**.

Accessing the TP Web Admin

To access either the TP Administration or Configuration Page, the TP Selection Page must be brought up using your browser. To access the Selection Page, run the Transaction Processor Web Admin from a web browser:

1. Check that the Transaction Processor Admin service is running using Services under Administrative Tools. If not, start it.
2. Enter the following URL into the address line of your browser.

“http://<ipaddress>:38080” where <ipaddress> is the host name or IP address of the server where the Transaction Processor service is installed.

3. You will be directed to the TP Login Page



The screenshot shows the TP Login Page. At the top is a teal banner with the word "CLEO" in white. Below the banner are two input fields: "User Name" and "Password". To the right of the "Password" field is a "Login" button and a "Change Password" link. Below the input fields is the "CLEO Cleo Communications" logo. At the bottom, a small line of text reads: "This content and all generating code is © 2003-2005 Cleo Communications".

4. The default User Name is “admin” and the default Password is “admin”
5. Click the “Login” button and you will be redirected to a page that requires you to change the Password.



The screenshot shows the TP Change Password Page. At the top is a teal banner with the word "CLEO" in white. Below the banner are four input fields: "User Name" (containing "admin"), "Old Password" (containing six dots), "New Password", and "Repeat Password". To the right of the "Repeat Password" field is a "Change" button. Below the input fields is the "CLEO Cleo Communications" logo. At the bottom, a small line of text reads: "This content and all generating code is © 2003-2005 Cleo Communications".

6. To change the password type a new password into the “New Password” and “Repeat Password” fields and then click “Change”.

7. You will then be taken to the Selection Page

WARNING: If you forget your password, you may be required to reinstall the Transaction Processor.



Figure 1: TP Selection Page

Missing or Invalid License

Each session (i.e., communication channel with the host application) will require a license. In order to configure sessions for use by the Transaction Processor, you must purchase the appropriate license for the number of sessions you plan to use.

If a license has not been installed, or the license has expired or is invalid (due to an improper license key or Host ID), the following screen will display when accessing the Transaction Processor Selection Page:



Figure 2: Configuration Page (invalid license)

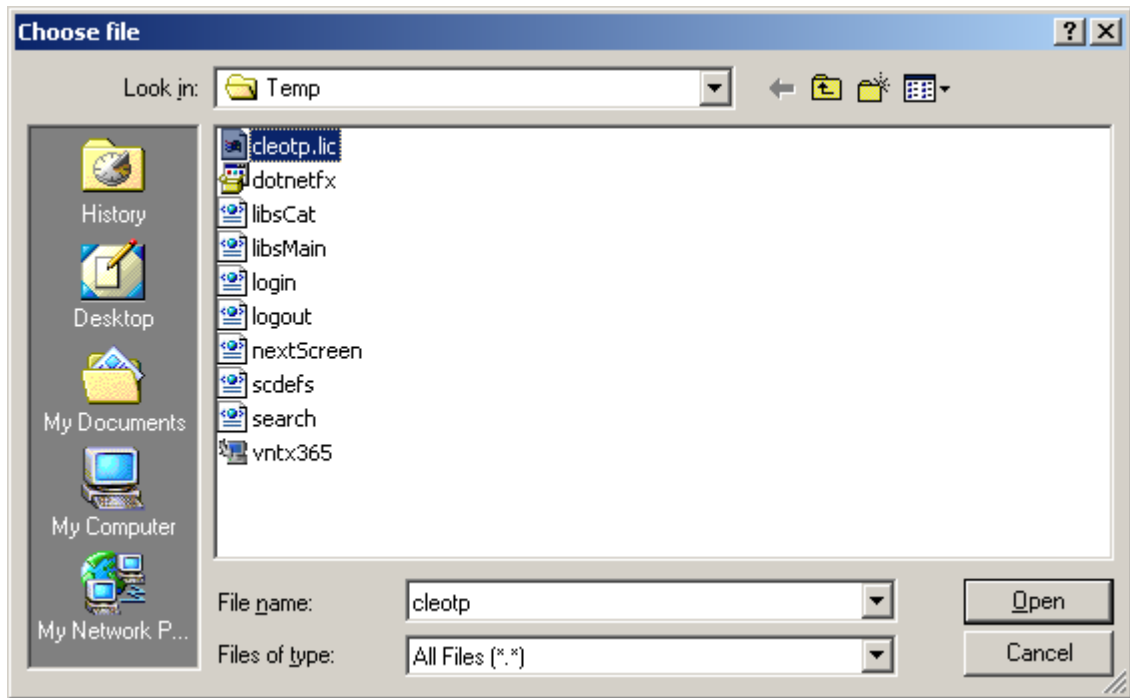
where,

- **Host ID** is a unique descriptor identifying the computer running the Transaction Processor
- **Serial Number** is a unique 6-digit number that is assigned to the Transaction Processor software by Cleo.
- **Licensed Sessions** is the number of configurable sessions that were purchased.
- **Expiration Date** provides the date when the license expires and the Transaction Processor will be disabled. If this field displays “PERMANENT”, then the license does not have an expiration date.

Install the License

After you receive the license file from Cleo, perform the following:

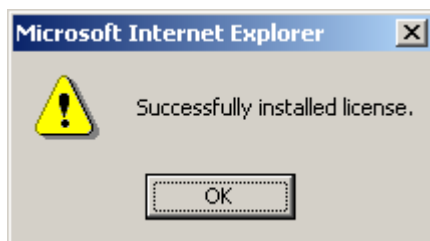
1. Move the license file as obtained from a Cleo representative (see Obtaining a License) to any location on your server. (For example: C:\Temp\cleotp.lic)
2. Bring up the TP Selection Web Page as described in Accessing the TP Web Admin.
3. Click **Browse** to select the location on your server where the license file was previously copied, using the file chooser shown below:



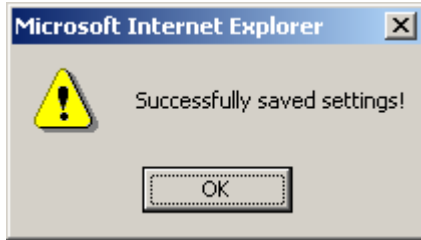
4. Click **Open**, and the following should be displayed:

License File:

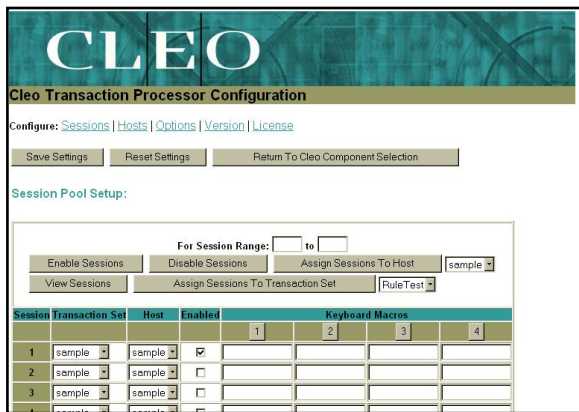
5. Click **Install**. If the installation of the license was successful, the following dialog will appear.



6. Click **OK**.
7. The installed settings will then be saved. From the new dialog that appears, click **OK**.



8. You should now be at the Configuration page. Verify that the number of sessions you have licensed are correctly displayed.
9. In order to run the “sample” application, check to see that the “sample” transaction set and “sample” host are selected and that “Enabled” is checked for each session to be tested.



Starting the Service and Testing the Install


Start the Service

1. Access the Administration Page by accessing the TP Selection Page. The Selection Page can be accessed from the Configuration Page by clicking **Return To Cleo Component Selection**.
2. Select Administration from the drop-down list that is displayed on the Selection Page and click **GO**.



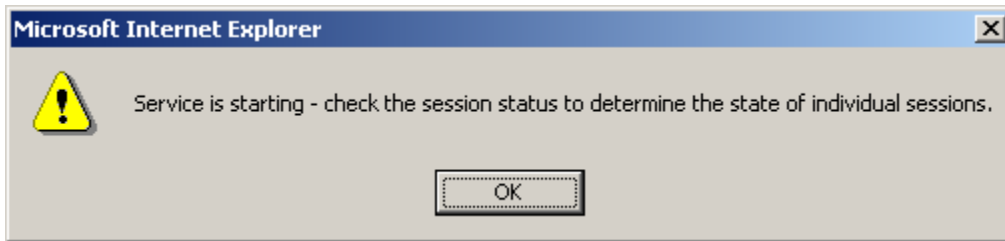
The screenshot shows the Cleo logo at the top. Below it, there is a form with a "Select:" label, a dropdown menu currently showing "Administration", and a "GO" button. The dropdown menu is open, showing "Administration" and "Configuration" options. Below the form is the Cleo Communications logo and a copyright notice: "This content and all generating code is © 2004 Cleo Communications".

3. The Administration Page should appear. If not, check that the Transaction Processor is properly licensed and that the Transaction Processor Admin service is running (see Accessing the TP Web Admin).



The screenshot shows the Cleo logo at the top. Below it is the title "Cleo Transaction Processor Administration". There is a button labeled "Return To Cleo Component Selection". Below that is a section titled "Management Console" with a "Perform Function" dropdown menu set to "Start Service", an "or" separator, a "View Log" dropdown menu set to "transaction.log", and a "filter by" input field. Below this is a section titled "Session Status Viewer" with the text "The Transaction Processor Service is currently **stopped**." Below the text is a "Refresh Status" button, a checkbox, and a dropdown menu set to "30" seconds. Below the dropdown menu is a status indicator that says "Status unavailable". At the bottom is the Cleo Communications logo and a copyright notice: "This content and all generating code is © 2005 Cleo Communications".

- Start the Transaction Processor Service by clicking the **Perform Function** button with function set to **Start Service**. The following dialog will appear. Click **OK**.



- The current session status will then be displayed under the View Session Status header. Click on **Refresh Status** until you see the session status become **PARKED**.

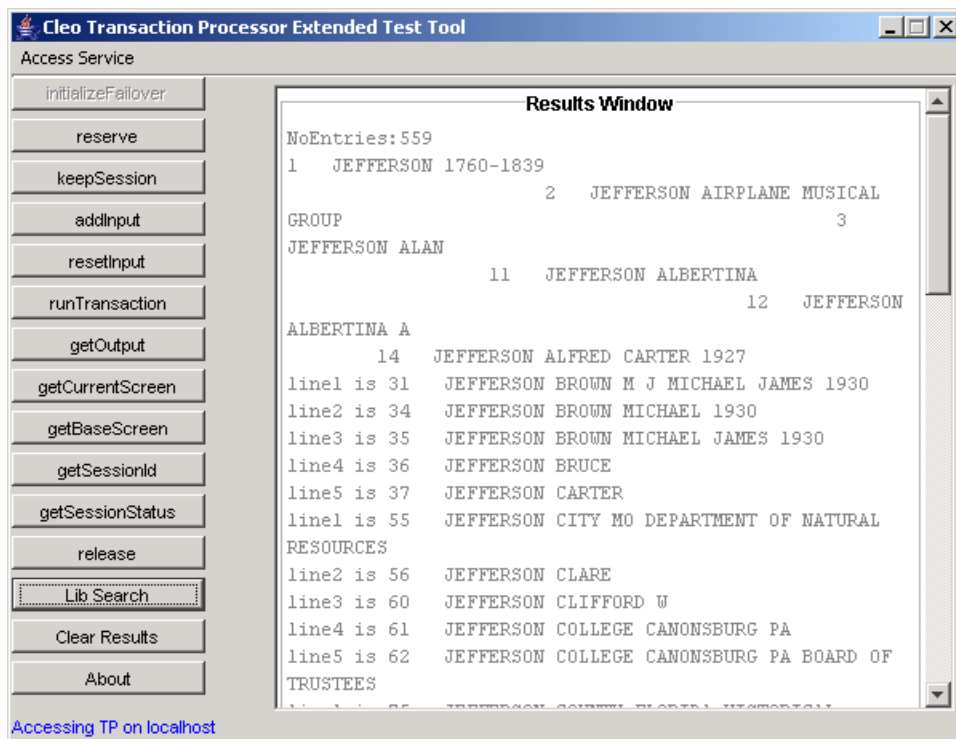
View Session Status					
Refresh Status <input type="checkbox"/> every 30 seconds.					
Session Range: 1-10					
LU	Transaction Set	Host Server	Status	Last Transaction	Since
1	sample	sample-TN	PARKED	login	05/04/05 12:34:17:769

Test the Install

A Java tester is provided with the Transaction Processor, serving as an example of an application using the Java connector. The tester tests the basic functions of the Transaction Processor by running a 3270 transaction to a public site providing a library card catalog host. For the scope of this document, the tester will be used to ensure that all components are installed properly.

To test the install:

1. Verify that the Transaction Processor has been started using the web-based administration page, and that the enabled sessions assigned to the “sample” transaction set have a **parked** status.
2. Launch the tester by clicking the JavaTester icon or from the Windows Start Menu: **Programs | CleoTP | Java Tester.**
3. Click the **Lib Search** button.
4. Enter author name to search for: <author> (e.g., Steinbach)
5. Click **OK.**
6. The results for the search will display in the **Results Window.**
7. Click **Refresh Status** on the Cleo Admin page to see changes as a result of running **Lib Search.**



The tester is very useful for validating that host transactions created using the Transaction Designer work properly before being put into production.

To see logs generated when running the tester, use an editor to view clientTP.log and clientTP.log.bak existing in the path where the Java Tester was installed. (Default is C:\Program Files\CleoTP\bin). See the Programmer's Guide for more information on TP client logging.

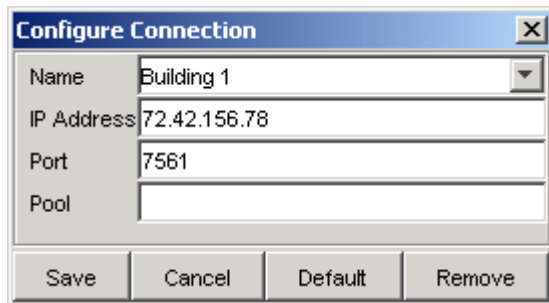
Test a Remote Installation

The following instructions require that the Transaction Processor be installed on both the local and the remote systems.

The Java Tester that is provided with the Transaction Processor has the ability to test a TP installation on a remote system.

To test a remote install using the Java Tester:

1. Click on **Access Service** from the menu bar and click on **Configure Connection**. This will open the **Configure Connection** window.



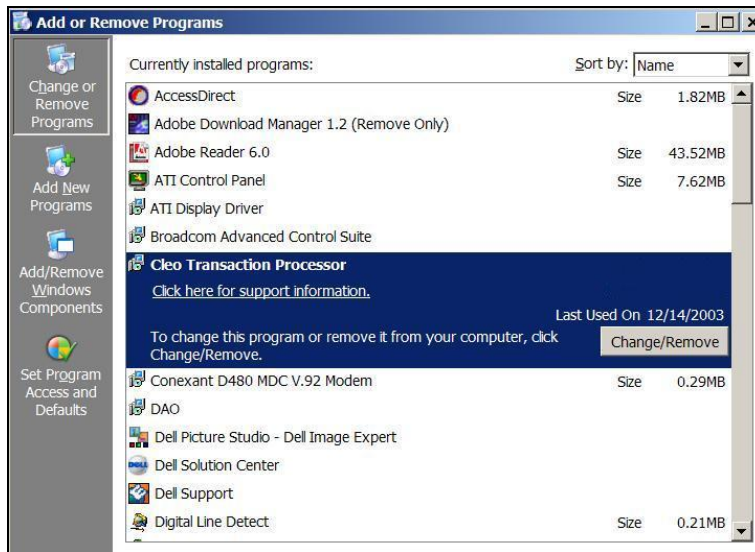
2. Enter a name for this connection as you may configure multiple connections to test installations on different machines.
3. Enter in the corresponding IP Address and Port Number (by default, the Transaction Processor uses Port 7561).
4. Leave the **Pool** field blank. See the Administration Guide for information on using the Connection Manager to set up a pool to implement dynamic failover.
5. Click on **Save** and you will see a dialog box telling you that the settings were saved successfully. Notice that the text in blue in the lower left hand corner of the Java Tester will reflect the new IP Address you just configured.
6. Follow the instructions from step 3 of **Test the Install**.

NOTE: You may remove any of your configured connections by clicking the **Remove** button. In addition, you can reset your connection to the default settings by clicking on the **Default** button.

Removal

To remove the Transaction Processor:

1. Access Services from the Control Panel.
2. **Stop the “Transaction Processor Admin” service from the Services window.** Wait for the Admin service to completely shutdown.
3. Close the Services window
4. Launch Add/Remove Programs in the Control Panel.
5. Click Change/Remove under Cleo Transaction Processor



6. Follow the instructions displayed on the screen.