



Installation Guide for
Open TM: A Machine Aided Translational
Tool for English to Sinhala Translation

(V 1.0.0)

31.08.2009

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1 Introduction

This document explains how to use **OpenTM V 1.0.0**, which is a Machine Aided Translational Tool for English to Sinhala Translation. This software acts as a translational aid for human translators in translating Unicode Documents from English to Sinhala.

Currently, OpenTM has been tested in both Windows and Linux Platforms. It is expected to aid the translators with translating English Documents and to generate Unicode Sinhala Documents. The system aids the translator in providing translation suggestions to the user so as to facilitate his or her task.

The software comes in two versions: for users who have or have not installed Java in their machines already.

2 Installation Prerequisite

2.1 Hardware Requirements

Platform: Intel processor or equivalent
Processor: 233 MHz or faster recommended
Memory: 256 MB or more recommended
Hard Disk Space: OpenTM1.0 with Java Integrated requires > 175MB in C Drive
OpenTM1.0 without Java requires > 25MB in C Drive (Windows)

2.2 Software Requirements

Operating Systems

Microsoft® Windows XP with Service Pack 2 or Microsoft Vista
(Tested on both Systems)

or

Ubuntu 9.04 or above recommended (Tested on Ubuntu Jaunty Jackelope)

Other Software

- A Web Browser (preferably Mozilla Firefox for better rendering : Tested on FireFox 3.0)
- **Language Settings :**

On Windows: Sinhala Language Pack or Sinhala Enabling Patch for Windows XP / Vista
Quick Fix for Enabling Sinhala

On Linux: Sinhala Unicode Support

2.3 Special Requirements for using OpenTM 1.0

a) **User must have Administrator privileges to install this software.**

b) **Availability of port 8080**

Since OpenTM's apache server needs port 8080, it is needed that no other application is using port 8080 once OpenTM is functioning.

To ensure that no other application is using it,

Type <http://localhost:8080> in the web browser to check whether any page is displayed. If so, some other application which would be using the 8080 port would be needed to be stopped before starting OpenTM.

c) **For users who already have Java installed in their machine, the environment variables Java_Home and Path should be set appropriately.**

Windows

The user should set the environment variables by going through

Start → Control Panel → System → Advanced Settings → Environment Variables (Vista)
or its equivalent path in Windows XP.

E.g. Suppose Java is installed in C:\Program Files\Java\JDK1.5. The environment variables should be set as below:

- I. JAVA_HOME variable should be set as : C:\Program Files\Java\JDK1.5
- II. PATH variable should be modified with C:\Program Files\Java\JDK1.5\bin appended.

Linux

.bashrc file in the home folder should be modified with the Java_Home and PATH variable should be modified.

3 Installation of OpenTM1.0

OpenTM1.0 comes for both Windows and Linux.

For Windows: the set ups are

1. OpenTM1.0_Windows – For users who do not have Java already installed
2. OpenTM1.0_Without_Java – For users who have already installed Java

Installing in Windows

Double click the .exe or .msi in either project and follow the instructions provided.

For Linux, the setups are :

1. OpenTM1.0_Linux
2. OpenTM1.0_Linux_Without_Java

Installing in Linux

Extract the zip file provided:

sudo tar -zxvf OpenTM1.0_Linux.tar.gz (or OpenTM1.0_Linux_Without_Java.tar.gz)

On the location you need OpenTM to be.

3.1 Files generated upon installation

The files generated in Windows would be as follows:

Windows

Upon installation of **OpenTM1.0_Windows (EXE or MSI)**

C:\OpenTM1.0\apache

C:\OpenTM1.0\jdk

C:\OpenTM1.0\jre

Shortcut Keys for starting, closing and uninstalling OpenTM .10 would be generated in the Desktop

Upon installation of **OpenTM1.0_Without_Java (EXE or MSI)**

C:\OpenTM1.0\apache

Linux

The same folder structure mentioned above would be in the extracted location in Linux.

3.2 Testing the installation

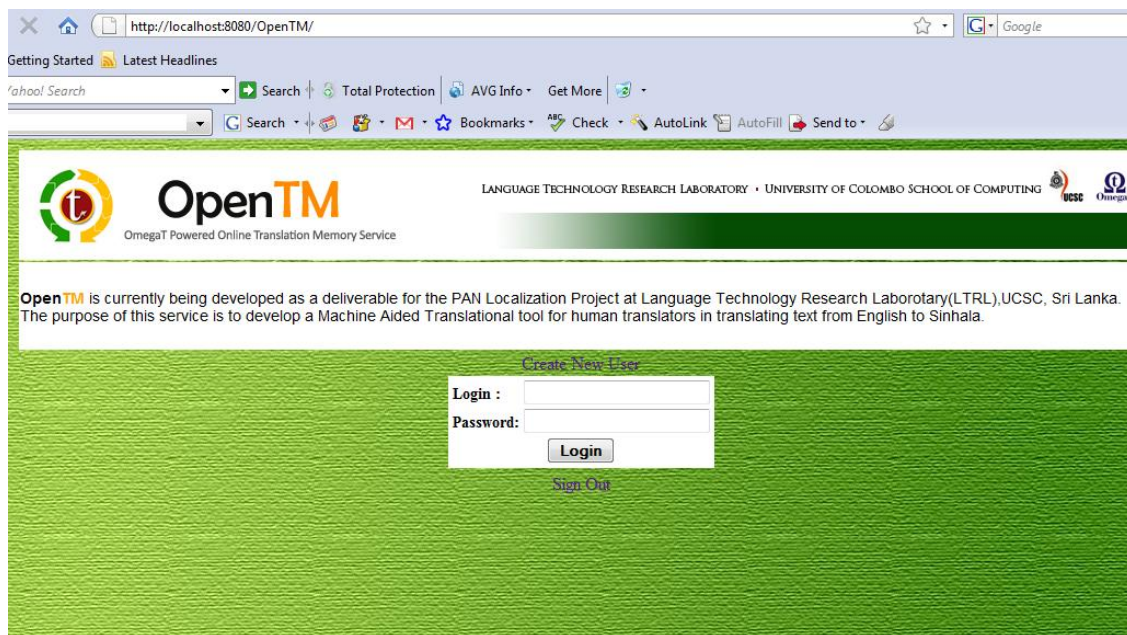
Windows

Double click on the Start OpenTM1.0 shortcut on the Desktop. A separate console would appear saying that OpenTM server started:

```
Tomcat
at org.apache.catalina.startup.Bootstrap.start(Bootstrap.java:288)
at org.apache.catalina.startup.Bootstrap.main(Bootstrap.java:413)
Sep 28, 2009 5:50:15 PM org.apache.catalina.core.StandardContext start
SEVERE: Error in resourceStart()
Sep 28, 2009 5:50:15 PM org.apache.catalina.core.StandardContext start
SEVERE: Error getConfigured
Sep 28, 2009 5:50:15 PM org.apache.catalina.core.StandardContext start
SEVERE: Context [/AjaxProject] startup failed due to previous errors
Sep 28, 2009 5:50:15 PM org.apache.catalina.core.StandardContext stop
INFO: Container org.apache.catalina.core.ContainerBase.[Catalina].[localhost].[/
AjaxProject] has not been started
Sep 28, 2009 5:50:15 PM org.apache.catalina.loader.WebappClassLoader validateJar
File
INFO: validateJarFile(C:\OpenTM1.0_Complete\apache\webapps\OpenTM\WEB-INF\lib\se
rvlet-api.jar) - jar not loaded. See Servlet Spec 2.3, section 9.7.2. Offending
class: javax/servlet/Servlet.class
Sep 28, 2009 5:50:16 PM org.apache.coyote.http11.Http11Protocol start
INFO: Starting Coyote HTTP/1.1 on http-8080
Sep 28, 2009 5:50:16 PM org.apache.jk.common.ChannelSocket init
INFO: JK: ajp13 listening on /0.0.0.0:8009
Sep 28, 2009 5:50:16 PM org.apache.jk.server.JkMain start
INFO: Jk running ID=0 time=0/55 config=null
Sep 28, 2009 5:50:16 PM org.apache.catalina.startup.Catalina start
INFO: Server startup in 1781 ms
```

Figure 01 : Launching OpenTM

Type <http://localhost:8080/OpenTM> on the web browser and upon success, the login page would appear.



Click close OpenTM1.0 (Desktop Shortcut) to close the application.

Linux

cd to the extracted location of OpenTM and run launch.sh

```
cd /home/jeevanthi/Desktop/OpenTM1.0/
sudo ./install.sh
```

Type <http://localhost:8080/OpenTM> on the web browser and upon success, the login page would appear.

Run `./uninstall.sh` to stop the OpenTM server.

`sudo ./uninstall.sh`

4 Uninstall OpenTM1.0

Windows

1. On the Windows desktop, click **Start > Control Panel**.
2. In Control Panel, double-click **Add/Remove Programs**.
3. In the list of currently installed programs, click **OpenTM 1.0**
4. Click **Remove**.

Or simply click the uninstall OpenTM1.0 shortcut on the desktop.

Linux

Complete Removal of the folder would complete the uninstallation.