

# Running TapeTrack Utilities via Apache CGI

Configure Apache on Windows to allow execution of TapeTrack command-line utilities (such as TMSS10Inventory.exe) directly from a web browser using CGI.

This is useful for generating TapeTrack reports (CSV, text, etc.) through a simple URL call.

## Overview

By default, Apache only executes CGI programs from a configured CGI directory (normally /cgi-bin).

To run TapeTrack executables without copying them into Apache's CGI folder:

- Create an Apache ScriptAlias pointing to the TapeTrack executable directory
- Enable ExecCGI for that directory
- Allow Apache to treat .exe files as CGI scripts

## Prerequisites

- Apache 2.4 installed on Windows (example path: C:\Apache24)
- TapeTrack Server Utilities installed (example path:C:\Program Files\TapeTrack\TapeTrack Server Utilities\bin\tapetrack)
- Apache running as a Windows Service or console process

## Locate the TapeTrack Executable Folder

TapeTrack utilities are typically located in:

```
C:\Program Files\TapeTrack\TapeTrack Server Utilities\bin\tapetrack
```

Some installations may place the TapeTrack install on another drive, such as D

## Edit Apache Configuration

Open the Apache configuration file: C:\Apache24\conf\httpd.conf

Add the following configuration near the existing ScriptAlias section.

Add this line:

```
ScriptAlias /tapetrack/ "C:/Program Files/TapeTrack/TapeTrack Server Utilities/bin/tapetrack/"
```

This creates a new URL path:

```
http://localhost/tapetrack/
```

which maps directly to:

```
C:\Program Files\TapeTrack\TapeTrack Server Utilities\bin\tapetrack\
```

## Enable CGI Execution for .exe Files

Add this directory block:

```
<Directory "C:/Program Files/TapeTrack/TapeTrack Server
Utilities/bin/tapetrack"> \\  
  AllowOverride None  
  Options +ExecCGI  
  Require all granted  
  AddHandler cgi-script .exe  
</Directory>
```

This tells Apache allow CGI execution in this folder, treat .exe files as CGI programs.

## Step 5: (Recommended) Restrict Access to Localhost Only

For security reasons, it is strongly recommended to restrict execution of TapeTrack executables to the local machine only.

Replace:

```
Require all granted
```

with:

```
Require local
```

Final recommended configuration:

```
ScriptAlias /tapetrack/ "C:/Program Files/TapeTrack/TapeTrack Server
Utilities/bin/tapetrack/"  
  
<Directory "C:/Program Files/TapeTrack/TapeTrack Server
Utilities/bin/tapetrack">  
  AllowOverride None  
  Options +ExecCGI  
  Require local  
  AddHandler cgi-script .exe
```

```
</Directory>
```

## Restart Apache

After saving httpd.conf, restart Apache.

From an Administrator Command Prompt:

```
net stop Apache2.4  
net start Apache2.4
```

Or restart Apache via Windows Services.

## Step 7: Test Execution in Web Browser

Open a browser and visit:

```
http://localhost/tapetrack/TMSS10Inventory.exe
```

If CGI is configured correctly, Apache will execute the program instead of downloading it.

## Step 8: Running TapeTrack Inventory Report from Browser

TapeTrack utilities accept command-line arguments. CGI allows passing arguments via the query string.

Example command normally run from command prompt:

```
TMSS10Inventory.exe -S user:-passsword@localhost
```

To run this through the browser, use:

```
http://localhost/tapetrack/TMSS10Inventory.exe?S=tapemaster:-@localhost
```

Notes:

? begins the argument list

spaces are replaced with +

## Step 9: Setting Report Format (CSV Output)

TapeTrack utilities can output different formats depending on environment variables.

To force CSV output, the variable may be required:

```
TSSREPORTFORMAT=CSV
```

Because environment variables cannot easily be set directly from a URL, it is recommended to set this globally for Apache or use a wrapper script if required.

## Option A: Set TSSREPORTFORMAT Globally for Apache

Add the following to Apache configuration (inside global scope):

```
SetEnv TSSREPORTFORMAT CSV
```

Restart Apache after making changes.

This forces TapeTrack utilities run via Apache CGI to output in CSV format.

## Example: Generate CSV Inventory Report

Once TSSREPORTFORMAT is set, run:

```
http://localhost/tapetrack/TSS10Inventory.exe?-S+tapemaster:@localhost
```

The browser should display the CSV output, or prompt to open it in Excel.

## Troubleshooting

### Browser downloads the EXE instead of running it

Check:

Options +ExecCGI exists in the Directory block

AddHandler cgi-script .exe exists

the directory path is correct

Apache has been restarted

### Output is blank

Possible causes:

The TapeTrack executable is writing output to a file instead of stdout

TapeTrack is failing due to permissions (Apache service account)

Missing environment variables (example: TMSREPORTFORMAT)

TapeTrack cannot connect to the TapeTrack server

Check Apache logs:

```
C:\Apache24\logs\error.log
```

## TapeTrack utility works in CMD but not in browser

Apache runs under a service account (often LocalSystem). That account may not have access to:

TapeTrack registry settings

network resources

configuration files

authentication credentials

Fix: configure Apache service to run as a specific Windows user with access to TapeTrack.

## Security Warning

Executing .exe files over HTTP is powerful and potentially dangerous.

Recommendations:

Use Require local to limit access to the machine only

Do not expose this server to the internet

Consider firewall restrictions

Only allow execution in a controlled folder

## Summary

To run TapeTrack utilities like TMS10Inventory.exe through Apache:

Add a ScriptAlias pointing to the TapeTrack utility folder

Enable ExecCGI on that directory

Add handler mapping for .exe

## Restart Apache

Run the program via browser URL with query string parameters

Example URL:

```
http://localhost/tapetrack/TMSS10Inventory.exe?-S+tapemaster: -@localhost
```

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