

TOOL TRACKING SYSTEM- WEB PORTAL / SERVICE

INSTALLATION GUIDE

This guide outlines the tasks for installation of the Tool Tracking System – Mobile Web Portal. There are many facets of creating, running and maintaining a web server that are beyond the scope of this document. This document focuses on a specific installation scenario.

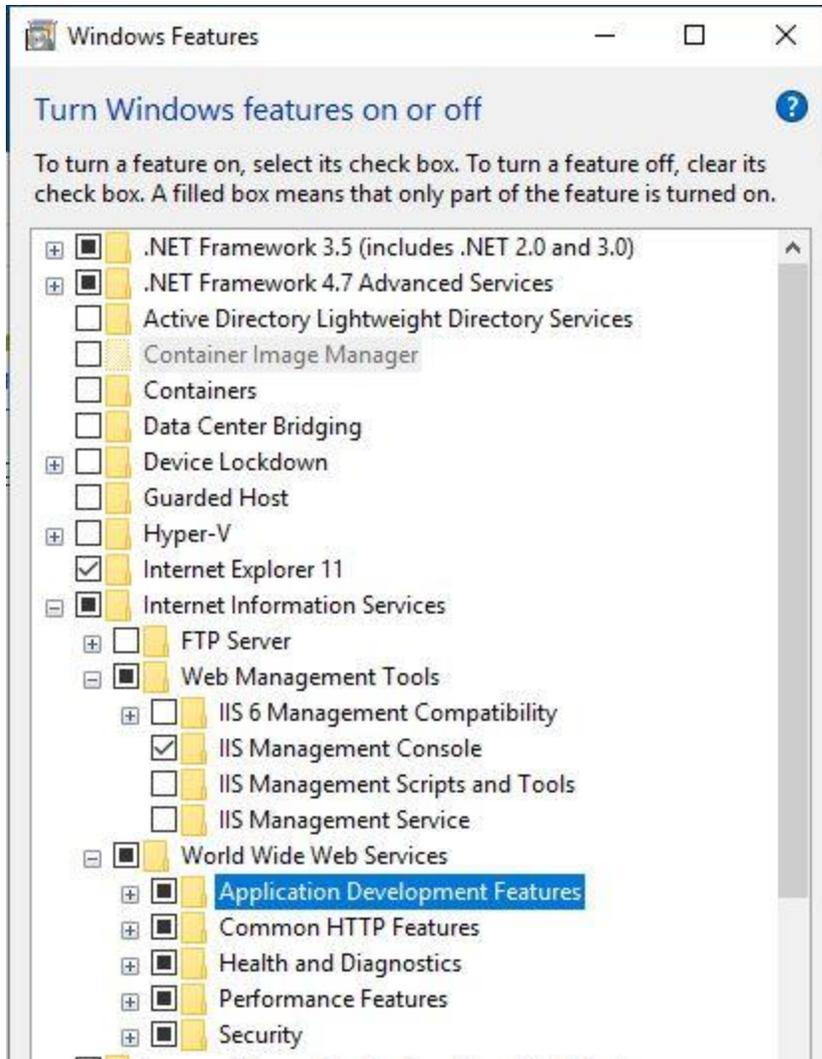
Requirements

- The Tool Tracking System (TTS) is configured to use SQL Server as the database, and the SQL Server database is up and running.
- A Windows Server 2008 R2 or greater running Internet Information Services (IIS) 7.5 is available. (Other servers / versions of IIS may work, but have not been tested).
- The ASP.NET feature of IIS must be installed.
- The Microsoft .Net Framework version 4 is installed on the web server.

Enabling IIS & .NET Features

Installing IIS and enabling the ASP.NET Features must be completed before installing the GigaTrak Web Service.

1. Open the Windows Control Panel on the Server IIS will be installed on.
2. Next, go to Programs and Features. Choose  this will display a list of features that can be enabled on your Windows Server.
3. Find the Check Box titled as Internet Information Services. Check the Box to Enable. Expand the Web Management Tools and Check IIS Management Console. Check ASP.NET 3.5 and 4.7 to install the ASP.NET Components on the Server.



Web Portal Installation

1. Create a new folder on the web server to the web application files. (For example, **D:\Data\Web\TTS**)
2. Copy the contents of the provided .zip file (or subfolder) to the new folder.
3. Edit the web.config file with Notepad.
 - a. Edit the line in the <connectionStrings> section with the values for your SQL Server database connection.
 - i. Change the Data Source=pts3 parameter to your SQL Server, such as Data Source=**YOURSERVER**. If you are using a named instance, add it with a backslash, such as Data Source=**YOURSERVER\INSTANCE**.

- ii. Change the Initial Catalog=win_tts_web parameter to your database name, such as Initial Catalog=**win_tts**.
- b. Edit the lines in the <mailSettings> section with the values for your SMTP server. (This is currently used only for emailing application error reports back to GigaTrak Support.)
- i. Change the from="sender@gigatrak.com" parameter to an email account on your server capable of sending email from the web server, such as from="**sender@yourcompany.com**".
 - ii. Change the network parameters to the values for your SMTP server, such as host="**yourserver**". Some servers may require a username/password, SSL, etc.

DATABASE CONNECTION EXAMPLE

```
<connectionStrings>
<!-- '*** client must modify connectionString settings ***-->
<add name="win_tts" connectionString="Data Source= INSTANCE\DATABASENAME;
Initial Catalog=win_tts;
User Id=tts_user;
Password=gigatools;
MultipleActiveResultSets=True;"
providerName="System.Data.SqlClient" />
</connectionStrings>
```

SMTP MAIL EXAMPLE

```
<system.net>
<mailSettings>
<!-- '*** client must modify smtp/network settings ***-->
<smtp deliveryMethod="Network" from="sender@gigatrak.com">
<network host="ServerName" userName="USER" password="PASSWORD" enableSsl="false" />
</smtp>
</mailSettings>
</system.net>
```

- c. Save and Close the file.
4. Open the IIS Manager. Expand the server, right-click Application Pools, and click Add Application Pool.

* App Pools, Aliases, and Virtual Directories will need to run as a privileged account. The Login user can be changed through Advanced Settings

- a. Enter a Name, such as **TTSAppPool**.
 - b. Change the .NET Framework version to .Net Framework v4.
 - c. Leave the Managed pipeline mode at Integrated.
 - d. Leave start immediately checked.
 - e. Click OK.
5. Back on the tree on the left, expand Sites, right-click Default Web Site, and click Add Application. (Other web sites may be used, or new one created, but is again beyond the scope of this document).
- a. Enter an Alias. (For example, **tts**). This will become part of the URL that the employees will use to access the application (For example, **http://yourserver/tts**)
 - b. Select the Application pool created in step 5 (**TTSAppPool**).
 - c. Select the Physical path to the folder that was created in step 1. (For example, **D:\Data\Web\TTS**)
 - d. Click OK.
6. Again, back on the tree on the left, right-click the new application (**tts**), and click Add Virtual Directory.
- a. Enter the alias **tool_images**.
 - b. Select the Physical path to the folder that contains all of the tool images. This is the folder that the main Tool Tracking System PC application points to. By default, this is **C:\GigaTrak\Tool Tracking System\Images**. This may or may not be on the same physical server, or the same path.
 - c. Click OK.
 - d. *Additional note:* The Mobile Web Portal application creates larger thumbnail images of the tool images as needed. Therefore, you must ensure that the application pool identity has read and write access to this folder.
7. Again, back on the tree on the left, right-click the new application (**tts**), and click Add Virtual Directory.
- a. Enter the alias **tool_docs**.
 - b. Select the Physical path to the folder that contains all of the tool documents. This is the folder that the main Tool Tracking System PC application points to. By default, this is **C:\GigaTrak\Tool Tracking System\Docs**. This may or may not be on the same physical server, or the same path.
 - c. Click OK.
 - d. *Additional note:* The Device Application creates Documents in this folder from the application as needed. Therefore, you must ensure that the application pool identity has read and write access to this folder.

8. Test the application on the web server by opening Internet Explorer, and typing **http://localhost/tts** in the address bar. If everything is working, you'll be prompted with the GigaTrak logo and a login & password prompt. (Try to login as ADMIN with a password of ADMINUSER. If a Web Site License has been purchased, the website content will be displayed. If not, the error should read Missing License. Any authentication error please see the troubleshooting section on the last page.)
9. Assuming the web application works from the server itself, then test from a local area network workstation (<http://yourserver/tts>).
10. Finally, if the web server is Internet facing, test from an external client (<http://yourdomain.com/tts>).
11. If you experience any error messages, see the troubleshooting steps on the next page.
12. If you are user the device application, the device service will be available at (<http://YourHostName/tts/Mobile.asmx>)

TROUBLESHOOTING

Error / Symptom	HTTP Error 500.19 - Internal Server Error The requested page cannot be accessed because the related configuration data for the page is invalid.
Cause	The installation of Internet Information Services (IIS) may be incomplete.
Resolution	Make sure to install Internet Information Services / World Wide Web Services / Application Development Features / ASP.NET. This will automatically check several other options as well.

Error / Symptom	HTTP Error 500.21 - Internal Server Error Handler "PageHandlerFactory-Integrated" has a bad module "ManagedPipelineHandler" in its module list
Cause	The Microsoft .Net Framework version 4 may have been installed BEFORE Internet Information Services (IIS).
Resolution	Run the following command from an elevated Command Prompt (right-click, Run as administrator): <code>%windir%\Microsoft.NET\Framework64\v4.0.30319\aspnet_regiis.exe -i</code>

Error / Symptom	I see the GigaTrak logo, and I attempt to login, but nothing seems to happen.
Cause	An error is being generated when attempting to connect to the SQL Server database. Unfortunately, the actual error message isn't displayed in some cases.
Resolution	Verify the SQL Server database connection settings in the web.config file. Oftentimes, it simply hasn't been updated/saved, or there has been a typo. If correct, attempt to verify connectivity from the IIS Server to the SQL Server. If unable to resolve, please contact GigaTrak support.

