



Mobile On the Go (OTG) Server

Installation Guide

© Paramount Technologies, Inc.
1374 East West Maple Road
Walled Lake, MI 48390-3765

Phone 248.960.0909 • Fax 248.960.1919

www.ParamountWorkPlace.com

WorkPlace On the Go Server Installation Guide

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Overview

The WorkPlace On-The-Go Server (OTGS) functions as an intermediate between the iOS and Android Mobile devices and the core WorkPlace Business Intelligence and Data. The OTGS is designed to be placed on the DMZ for external internet access by the mobile devices.

Communication Architecture

The Android / iOS mobile devices perform all communication via the OTG Server which has a direct link to the local WorkPlace application to retrieve and process data.



Web Server System Requirements

Component	Requirements	Notes
Operating System	<ul style="list-style-type: none">• Microsoft Windows 10• Microsoft Windows 8• Microsoft Windows 2012• Microsoft Windows 7• Microsoft Windows XP• Microsoft Windows Vista• Microsoft Windows 2008 R2• Microsoft Windows 2008• Microsoft Windows 2003 (all editions)	It is recommended that the Web Server is not the same machine as the SQL Server. 32 and 64 bit is supported

Component	Requirements	Notes
Windows Internet Information Services (IIS)	IIS 6.0 or greater	
.NET Runtime	Version 4.5.2	.NET Runtime version is included with WorkPlace.

Installation

The OTGS application is downloadable from the Paramount Customer Area and will have a file name such as WPOTGS_12.00.00.00.zip. The zip file includes the entire OTGS application which will be setup and configured on a Windows IIS server with Microsoft.NET 4.0 installed. Following are step by step instructions on setting up and configuring the OTGS application within Microsoft Internet Information Services.

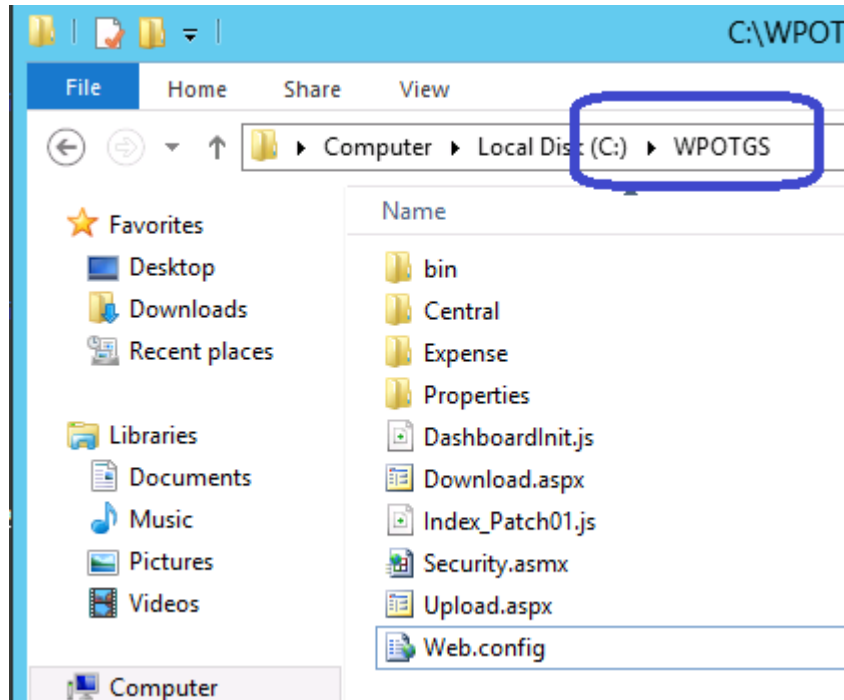
Creating the IIS Virtual Directory/Application

This step is required for a first time installation; it may be skipped when upgrading. An OTGS virtual directory must be configured for each WorkPlace virtual folder configured in the environment. Typical installations will have one OTGS virtual folder tied to one WorkPlace virtual folder. Mobile devices only allow for connection to one OTGS application at a time.

The Installation Steps below include screens shots from Windows Server 2012. Although the screens may differ slightly, similar setup screens are available for all supported Windows Server and Workstation platforms.

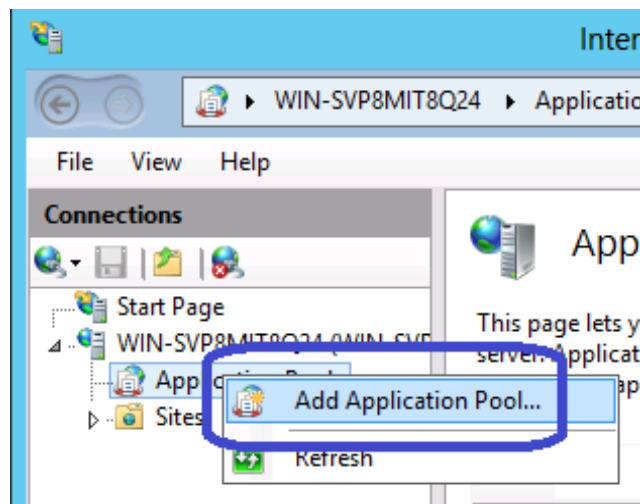
Step 1 – Extract OTGS Application to Web Server

Once the OTGS application is downloaded from the customer area it needs to be extracted into a folder on the web server. For this example the files have been placed into the C:\WPOTGS folder.

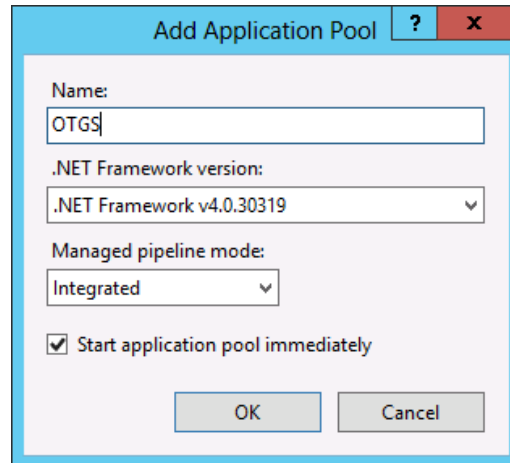


Step 2 – Create the Application Pool

Open the Internet Information Services (IIS) by navigating to Control Panel → Administrative Tools → Internet Information Services (IIS) Manager. Once open, right mouse click on Applications Pools and select “Add Application Pool...”

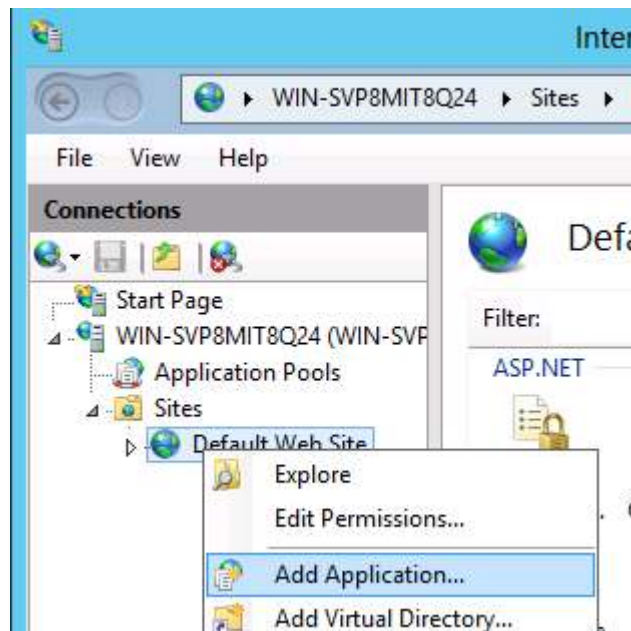


On the Add Application Pool screen enter a name for the pool such as “OTGS”, select .NET Framework v4.x.xxxxx (.NET 4.0), accept the rest of the defaults and click OK.

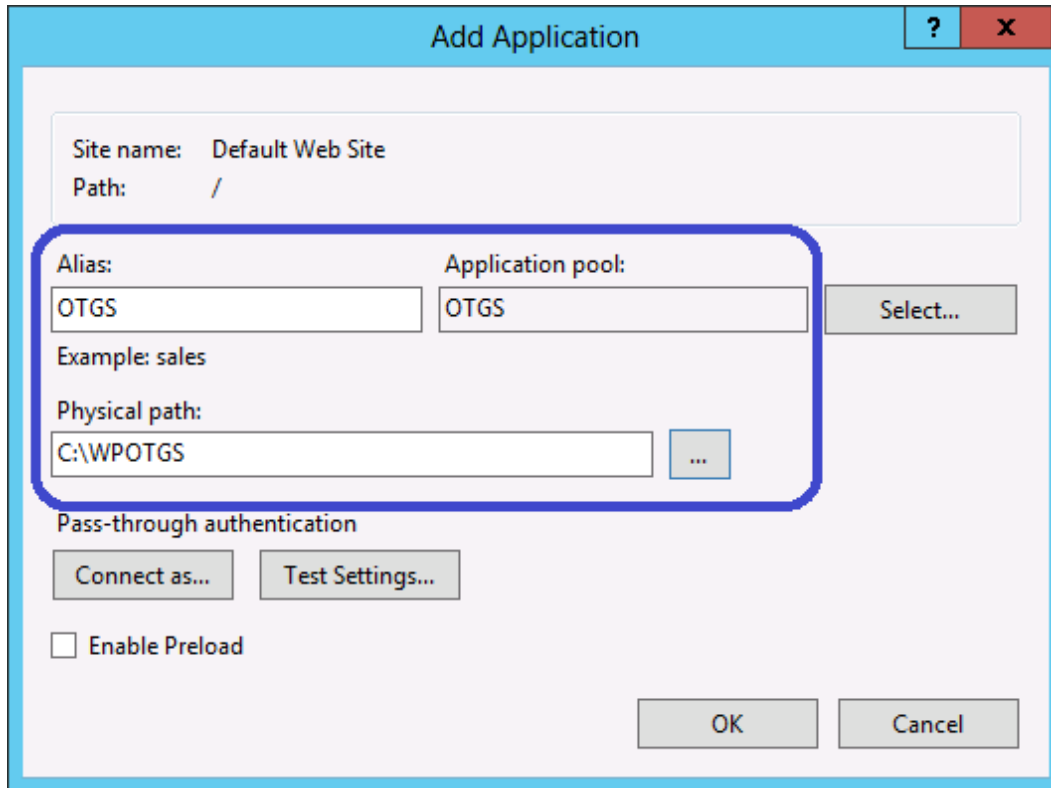


Step 3 – Create the Web Application

Now that the Application Pool is created we need to create the Application for the OTGS and tie it to this newly created Application Pool. To create the Application right mouse click on the Web Site that is to contain the Application, in this example we are putting it on the Default Web Site. Select “Add Application...”



Now from the “Add Application” screen enter the alias to use such as “OTGS”, select the Application Pool we setup in Step 2, now select the physical path where we extracted the WPOTGS zip file to in Step 1. Once done click OK.



Configuring the On-The-Go Server

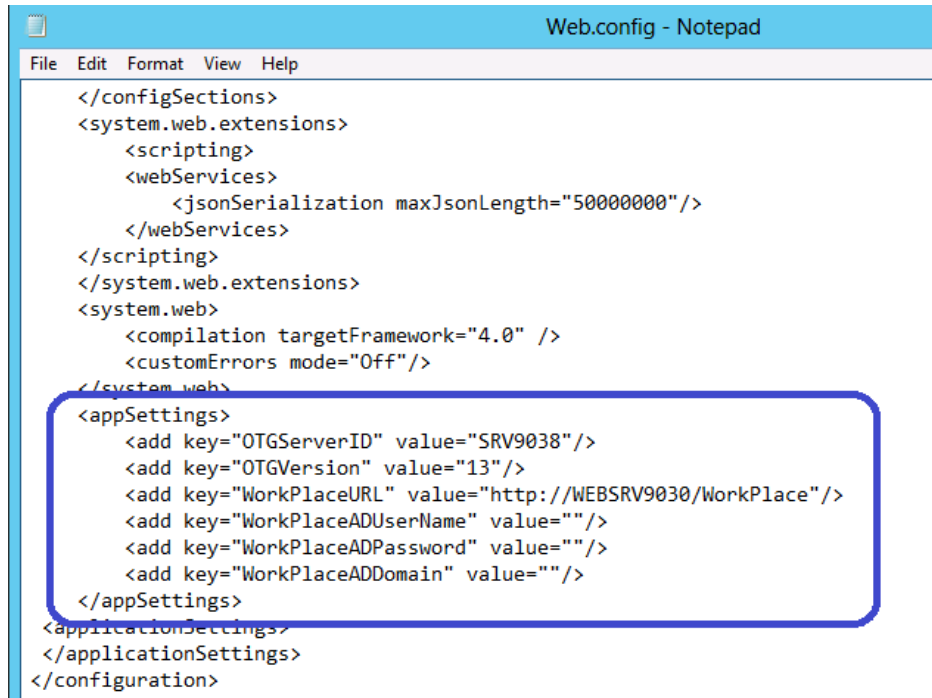
Now that the OTGS application is setup in IIS it's now time to configure the OTGS web.config file.

Step 4 – Edit the OTGS web.config

The web.config is stored in the root of the extracted OTGS application that was performed in step 1. Open this file in a text editor such as notepad. Once open, set the following keys based on your WorkPlace configuration.

Key	Value
OTGServerID	<p>Unique ID to identify the OTG Server environment. If using multiple OTG servers that point to the same WorkPlace instance then this value should be the same on all OTG servers. An example of when this value would be different would be when multiple WorkPlace instances are being hosted which would be common when setting up a test environment to perform user acceptance testing on.</p> <p><i>What does this value actually do?</i> This value is retrieved and stored on the mobile device when it connects to the OTGS, the mobile device always knows the last OTGS</p>

Key	Value
	<p>it talked to. When the mobile device connects in the future it always compares the last OTGServerID with the one that is being reported to it when it connects. If the values are different then the mobile device will get a message indicating the change and upon acceptance the mobile device will have all its local records cleared out and full synchronization of WorkPlace data will be sent to it, essentially reinitializing the device.</p>
OTGVersion	<p>Version of the OTG server. This value is updated for each release.</p> <p><i>What does this value actually do?</i></p> <p>This value is similar to the OTGServerID whereas it is retrieved and stored on the mobile device every time it connects. During the connection when the mobile device detects a difference in this value from its previous value the OTGS will resend the mobile application code to do the device and restart the application which will position the user to the default mobile dashboard. This is typical for new OTGS upgrades where new modules and functionality have been added to the mobile applications. <i>Note:</i> This refresh will NOT remove any local data on the device.</p>
WorkPlaceURL	URL to access the WorkPlace application
WorkPlaceADUserName	<p>Active Directory User Name.</p> <p>This value is only necessary if WorkPlace is running under Active Directory/NT Authentication.</p>
WorkPlaceADPassword	<p>Active Directory Password.</p> <p>This value is only necessary if WorkPlace is running under Active Directory/NT Authentication.</p>
WorkPlaceADDmain	<p>Active Directory Domain.</p> <p>This value is only necessary if WorkPlace is running under Active Directory/NT Authentication.</p>



```
Web.config - Notepad
File Edit Format View Help
</configSections>
<system.web.extensions>
  <scripting>
  <webServices>
    <jsonSerialization maxJsonLength="50000000" />
  </webServices>
</scripting>
</system.web.extensions>
<system.web>
  <compilation targetFramework="4.0" />
  <customErrors mode="Off" />
</system.web>
<appSettings>
  <add key="OTGServerID" value="SRV9038" />
  <add key="OTGVersion" value="13" />
  <add key="WorkPlaceURL" value="http://WEBSRV9030/WorkPlace" />
  <add key="WorkPlaceADUserName" value="" />
  <add key="WorkPlaceADPassword" value="" />
  <add key="WorkPlaceADDomain" value="" />
</appSettings>
</applicationSettings>
</applicationSettings>
</configuration>
```

Configuring WorkPlace for OTGS Access

Step 5 – Configure the WorkPlace Shared User Account

To facilitate database access from the OTG server, WorkPlace utilizes the shared user configuration options of the web.config (see the WorkPlace Installation Guide for more details). If WorkPlace is already setup to use the Shared Account then no further setup is required. The two WorkPlace authentication modes where the shared account would not be already setup would be the “NT” and “SQL” authentication modes.

Step 6 – Configure the WorkPlace Language User Access

WorkPlace uses the Language User configuration that is setup in the web.config to return messages back to the mobile user.

Setup Excerpt from the Language Section of the WorkPlace Installation Guide

1. Configure a SQL user account that will be used to access the Language Resource tables.
2. Set the Default Database of the SQL user account to be one of the companies that WorkPlace is installed against. This is important as the Default Database on the Language User Account tells WorkPlace where the Language Resource tables are.
3. Give the SQL user account permission to the PTIMaster and to the Company database. Within each of these databases give the user access to the PTIWorkPlaceLanguageAccess role.
4. Specify the SQL Language user name and password in the web.config

```
<add key="LanguageUserName" value="WPLangUser" />
```

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```
<add key="LanguagePassword" value="pass@word1"/>
```

5. The default language used by WorkPlace can be specified in the "Language" section of the web.config.

```
<add key="Language" value="English"/>
```

Finished

Step 7 – Configure Mobile Device

After the OTGS is installed and configured the mobile device will be able to connect and access WorkPlace. Enter the OTGS URL in the Settings page of the WorkPlace Mobile application. Refer to the WorkPlace Mobile User Guide for more information in regards to mobile functionality, setup and configuration.

Home WORKPLACE

WorkPlace OTG Server URL

http://192.168.1.10/OTGS

User Name

jsmith

Mobile PIN

.....

Connect

V12.0.3-9_13