



# Installation and Configuration Guide

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## Table of Contents

<b>1. Overview - Installation and Configuration</b> .....	<b>2</b>
<b>2. Steps - Installation and Configuration</b> .....	<b>4</b>
<b>3. Download the Installation Files</b> .....	<b>5</b>
<b>4. Run the MSI File</b> .....	<b>6</b>
<b>5. Installation</b> .....	<b>7</b>
5.1 Server-side Install.....	7
5.2 Server-side Install for Oracle On Demand (OOD) .....	10
5.3 Servlet Install (Release 12 Only) .....	12
<b>6. Configure the Workbook (post – install)</b> .....	<b>14</b>
6.1 Set up the List of Instances.....	14
6.2 Enter the License Key .....	16
6.3 Add Named Users .....	18
<b>7. Verify your Setup</b> .....	<b>21</b>
<b>8. Deinstall / Reinstall / Upgrades</b> .....	<b>23</b>

## 1. Overview - Installation and Configuration

The More4Apps Wizards use web-based XML to communicate with the server for all uploads and downloads (not SQL\*Net). The client-side installation consists only of the spreadsheet; no additional software apart from Microsoft Excel is required on the PC.

The server-side installation consists of two packages in the database that enables XML-based communications through the Self-Service Web server. For Release 12 there is also a Servlet installed.

The More4Apps Wizards are very secure as they utilize the existing Oracle Applications security and login mechanisms for user authentication and authorization. Users connect using their regular E-Business Suite usernames and passwords, single sign on (SSO) is supported.

### Key Features:

- Full integration with the Oracle Applications login and security functionality
- Respect for session timeout rules
- Single Sign On integration
- Supports non-APPS schemas i.e. Oracle On Demand (OOD)
- All versions of R11i and R12 supported

### Components:

- **Excel Spreadsheet**

For example BudgetWizard.xls which is deployed to each client PC.

- **Server packages**

The More4Apps Packages are installed into the APPS schema (or BOLINF schema for OOD). There is always the M4APS\_XML package for the core communication; and for each More4Apps Wizard installed there is a product-specific package (e.g. M4APS\_BUDGETWIZARD).

- **Application Settings**

When the wizard logs into an instance for the first time it will automatically create several Profile Options. Many of these are for internal use by the tools (e.g. to store the license key). Some tools have Profile Options used to enable/disable functionality. These profile options are documented in the product-specific online documentation. Other settings are sometimes required, such as ensuring the AMG framework for Oracle Projects is enabled for some of the PA tools.

- **Mid-Tier Servlet (R12 only)**

For Release 12 instances a mid-tier servlet is installed to facilitate communication between the spreadsheet and the database.

### XML Communication Technical Description:

The communication protocol between the spreadsheet and the E-Business database server is HTML and XML. The spreadsheet authenticates then communicates with the E-Business web tier in the background, in the same way that an end-user would in an Oracle Self-Service browser-based product such as Internet Time.

The spreadsheet makes HTML calls to the m4aps\_xml package via the 11i Apache plsql gateway, or the R12 servlet. Parameters are passed using the POST structure. The m4aps\_xml procedures do the following:

1. Verify the authentication of the calling spreadsheet by examining the E-Business cookie on the local PC. If the calling spreadsheet has not yet logged in then an error is returned to the spreadsheet and the E-Business login screen is presented to the user. (If SSO is enabled then the user is automatically forwarded to the SSO login screen). The user then logs in with their usual E-Business username/password and the local cookie is set. The cookie will expire if the user logs out or closes the spreadsheet, or if they are idle for a long period.
2. If the spreadsheet is authenticated then the procedure will generate the requested information in XML format and return it as a web response. If any errors occur then the error message is generated in XML format. The spreadsheet will listen for the XML response from the server and interpret the returned XML as appropriate.

**Licensing:**

The wizards by default will run in "Trial Version" mode which will have some restrictions. The number of records that can be uploaded or download in one session may be limited. Some functionality may be disabled. Once you purchase a license for the product you will be issued with a License Key. When the license key is entered the full functionality of the product will be available.

**Support:**

If you have any questions regarding the installation steps contact us via our website.  
<http://www.more4apps.com/request-technical-assistance/>

Refer to section: [Steps – Installation and Configuration](#)

## 2. Steps - Installation and Configuration

To install and configure the More4Apps Wizards you need to complete the following steps (click on the links to go to the relevant documentation):

1. [Download the Installation Files](#) (pre-install steps)
2. [Run the MSI File](#) (e.g. Customer\_Wizard\_9.9.99.msi)
3. [Installation](#) – these steps are typically undertaken by a DBA
  - a. [Server-side Install](#)
  - b. [Server-side Install for Oracle On Demand \(OOD Only\)](#)
  - c. [Servlet Install \(Release 12 Only\)](#)
4. [Configure the Workbook](#) (post-install steps)
  - a. [Set up the List of Instances](#)
  - b. [Enter the License Key](#)
  - c. [Add Named Users](#)
5. [Verify your Setup](#)

### **Support:**

If you have any questions regarding the installation steps contact us via our website.  
<http://www.more4apps.com/request-technical-assistance/>

### 3. Download the Installation Files

To download the installation files for a product, go to the following page on the More4Apps website...

<http://www.more4apps.com/downloads/>

Fill in the details and click on the 'Submit' button.

An email will be sent to you with links to both the 'Shared Installation Script' (a zip file) and the 'Product Installation File' (an MSI File):

- The '**Shared Installation Script**' is run once per instance and it is shared across all More4Apps Wizards. Save the install.zip (or R12install.zip) file into a local directory e.g. C:\More4Apps
- The '**Product Installation File**' is run once per instance and is specific to the product e.g. AP Invoice Wizard. Save the MSI file into a local directory e.g. C:\More4Apps

Refer to section: [Run the MSI File](#)

## 4. Run the MSI File

The downloaded *productname\_version.msi* file should be able to run on any modern PC.

1. Double-click on the MSI file, click on the 'Run' button.
2. 'InstallShield Wizard' will start up, click on the 'Next' button.
3. Read the terms and conditions, click on the appropriate radio button and click on the 'Next' button.
4. Click on the 'Next' button.
5. Choose a local destination folder where you would like the files saved to e.g. C:\More4Apps\product\_name. Click on 'Next'.

Once installed you should get the message 'InstallShield Wizard Completed'.

You should be able to see two files in the directory:

- *ProductName Wizard.xls*
- *Productcode\_Install.zip*

Before distributing the spreadsheet to users you will want to complete the 'Installation' and 'Configure the Workbook' steps.

We recommend that you keep a copy of the original version of the spreadsheet, so that you can revert back to it at a later date if need be. (However, you can also download the latest version of the product from our website at a later date).

The spreadsheet (\*.xls file) needs to be made available to each workstation that will be running the wizard. You could copy it into a local directory on the PC or store it within a network directory (i.e. on the LAN).

Refer to section: [Installation](#)

## 5. Installation

Prior to doing the installation you should have two zip Files:

- Shared Installation Zip File: install.zip or R12install.zip
- Product Installation Zip File: *productcode\_install.zip* (found within the MSI file)

If you do not have these files, refer to sections: [Download the Installation Files](#) and [Run the MSI file](#)

You will need to complete the Server-side Install steps. If you have Oracle Release 12 you will also need to complete the Servlet Install steps.

Refer to section: [Server-side Install](#)

Or for OOD: [Server-side Install for Oracle On Demand](#).

Refer to section: [Servlet Install](#) (*Release 12 Only*)

### 5.1 Server-side Install

Prior to doing the installation you should have two zip Files:

- Shared Installation Zip File: install.zip or R12install.zip
- Product Installation Zip File: *productcode\_install.zip* (found within the MSI file)

If you do not have these files, refer to sections: [Download the Installation Files](#) and [Run the MSI file](#)

These zip files contain scripts that will create More4Apps packages in your Oracle database and set up the More4Apps Profile options. These packages and profile options are necessary in order for the wizard to communicate with Oracle Applications.

The More4Apps packages start with 'M4APS\_' followed by the name of the wizard. The packages are wrapped (i.e. encrypted). The More4Apps Profile Options start with 'More4Apps:' followed by a short description of the profile option.

The install.sql (or R12\_install.sql) script within the Shared Installation Zip File will need to be run once per Oracle Applications instance / database. The package it creates (M4APPS\_XML) is shared across all More4Apps products on that instance and is used for the core XML communication and security framework.

The *code\_install.sql* script within the Product Installation Zip File is specific to a More4Apps Wizard and will need to be run once per Oracle Applications instance / database.

These scripts are not destructive and can be re-run if necessary.

**[Important Note: if you are an Oracle On Demand \(OOD\) customer refer to section Server-side Install for Oracle On Demand \(OOD\)](#)**

#### **Server-side Install Steps**

1. Extract the two zip files into sub-directories.

This can usually be done by right-clicking the filename and choosing 'Extract All...'

You will need to be able to access the \*.sql, \*.pks, \*.pkb, \*.plbs and \*.plbb files from SQL\*Plus.

2. Connect to SQL\*Plus as the APPS user and run **install.sql** (or R12\_install.sql for Release 12).

Example:

### Start SQL\*Plus

```
C:\temp\m4appsxml>sqlplus apps@tornado
SQL*Plus: Release 8.0.6.0.0 - Production on Sat Aug 1 08:59:48 2009
(c) Copyright 1999 Oracle Corporation. All rights reserved.
Enter password:
```

### Enter the password for apps

### Run install.sql

```
Connected to:
Oracle9i Enterprise Edition Release 9.2.0.5.0 - Production
With the Partitioning, OLAP and Oracle Data Mining options
JServer Release 9.2.0.5.0 - Production

SQL> @install.sql_

=====

More4Apps - install.sql

This script installs or upgrades the XML connectivity framework
for the More4Apps spreadsheet wizards. It is re-runnable
and is non-destructive.

Press Ctrl-C to quit, or Return to continue: _
```

### Press 'Enter'

```
Is this an Oracle On Demand site? (Y/N) [N]:
```

**Type 'N'** If you are an Oracle On Demand site you should be following instructions in section below "Server-side Install for Oracle On Demand".

```
Is this an Oracle On Demand site? (Y/N) [N]:n
Creating synonym to XSU.....
Synonym exists already so was not overwritten
Synonym created.
DOC> Insert into FND_ENABLED_PLSQL if running as APPS
DOC>*****/
Creating packages.....

Package created

Press ENTER to continue...
_
```

**Press 'Enter'**

You have successfully installed the M4APS\_XML package.

3. Connect to SQL\*Plus as the **APPS** user  
and run **productcode\_install.sql** e.g. IW\_install.sql for Item Wizard

Example:

**Start SQL\*Plus**

```
C:\temp\m4appsxml>sqlplus apps@tornado
SQL*Plus: Release 8.0.6.0.0 - Production on Sat Aug 1 08:59:48 2009
(c) Copyright 1999 Oracle Corporation. All rights reserved.
Enter password:
```

**Enter the password for apps**

**Run productcode\_install.sql (e.g. IW\_install.sql)**

```
Connected to:
Oracle9i Enterprise Edition Release 9.2.0.5.0 - Production
With the Partitioning, OLAP and Oracle Data Mining options
JServer Release 9.2.0.5.0 - Production

SQL> @iw_install
=====

More4Apps - iw_install.sql

This script installs or upgrades the M4APS_ITEMWIZARD package
for the More4Apps Item Wizard product. It is re-runnable
however you must backup your copy of M4APS_ITEMWIZARDCUSTOM
package body if you have modified it.

Press Ctrl-C to quit or Return to continue:
```

**Press 'Enter'**

```
Is this an Oracle On Demand site? (Y/N) [N]:
```

**Type 'N'** If you are an Oracle On Demand site you should be following instructions in section below "Server-side Install for Oracle On Demand".

```
Creating Item Wizard packages.....
M4APS_ITEMWIZARD package created
M4APS_ITEMWIZARDCUSTOM Package created
Creating incompatibility between item and catalog interface concurrent programs
Bind variable "MESG" not declared.
Bind variable "MESG" not declared.
Press ENTER to continue...
```

Don't worry about the "MESG not declared" message.

**Press 'Enter'**

You have successfully installed the Product-specific package.

If you are on Release 12 of Oracle E-Business Suite, you now need to do the Servlet Install, otherwise continue with the 'Configure the Workbook' steps.

Refer to section: [Servlet Install](#) (Release 12 Only)

Refer to section: [Configure the Workbook](#)

## 5.2 Server-side Install for Oracle On Demand (OOD)

***These instructions are only relevant if you are an Oracle On Demand (OOD) customer.***

Prior to doing the installation you should have two zip Files:

- Shared Installation Zip File: `install.zip` or `R12install.zip`
- Product Installation Zip File(s): `productcode_install.zip` (found within the MSI file)

If you do not have these files, refer to sections: [Download the Installation Files](#) and [Run the MSI file](#)

These zip files contain scripts that will create More4Apps packages in your Oracle database and set up the More4Apps Profile options. These packages and profile options are necessary in order for the wizard to communicate with Oracle Applications.

The More4Apps packages start with 'M4APS\_' followed by the name of the wizard. The packages are wrapped (i.e. encrypted). The More4Apps Profile Options start with 'More4Apps:' followed by a short description of the profile option.

The `install.sql` (or `R12_install.sql`) script within the Shared Installation Zip File will need to be run once per Oracle Applications instance / database. The package it creates (M4APPS\_XML) is shared across all More4Apps products on that instance and is used for the core XML communication and security framework.

The `code_install.sql` script within the Product Installation Zip File is specific to a More4Apps Wizard and will need to be run once per Oracle Applications instance / database.

These scripts are not destructive and can be re-run if necessary.

### Server-side Install Steps for Oracle On Demand (OOD)

1. Extract the Product and Infrastructure zip files into sub-directories.

This can usually be done by right-clicking the filename and choosing 'Extract All...'. You will need to be able to access the files (\*.sql, \*.pks, \*.pkb, \*.plbs and \*.plbb) from SQL\*Plus.

2. Run the script to generate grants for the BOLINF schema and extra synonyms for the APPS Schema.

Before opening sqlplus please set the LOCAL (or TWO\_TASK on Unix/Linux) environment variable on the command line.

```
set LOCAL=server:port/sid
```

Two examples:

```
> set LOCAL=tornado.more4apps.com:1555/vis9
> set LOCAL=tornado
```

Connect to SQL\*Plus as the **APPS** user and run **OOD\_prepare.sql** (from the Shared Installation Zip File). You will be prompted for the BOLINF password.

> sqlplus apps/appspw

SQL> @c:\directory\ood\_prepare.sql

...

BOLINF password:

3. Connect to SQL\*Plus as the **BOLINF** user and run **install.sql** or **R12\_install.sql** (from the Shared Installation Zip File). This installs the core XML communications and security framework within the package M4A\_XML. This is shared across all more4apps products.
4. Connect to SQL\*Plus as the **BOLINF** user and run **productcode\_install.sql** e.g. IW\_install.sql (from the Product Installation Zip File). Repeat this step for each product you are installing e.g. Project Wizard, Budget Wizard, AP Invoice Wizard.

If you are on Release 12 of Oracle E-Business Suite, you now need to do the Servlet Install, otherwise continue with the 'Configure the Workbook' steps.

Refer to section: [Servlet Install](#) (Release 12 Only)

Refer to section: [Configure the Workbook](#)

### 5.3 Servlet Install (Release 12 Only)

Release 12 customers please follow these steps to install the communication servlet in the mid tier. To enable the servlet we modify the server configuration files by implementing a fully supported Autoconfig customization, as documented in Metalink Note 387859.1.

This servlet is not required in Release 11i.

Attention Windows Users: this document uses UNIX syntax when specifying directories and operating system commands. Substitute the appropriate Windows syntax where applicable.

If you have multiple mid-tier servers then you must repeat these steps on each server.

#### 1. Unzip m4aServlet.jar

Copy the file m4aServlet.jar to the mid-tier server and unzip in \$JAVA\_TOP.  
This will install the java classes in directory \$JAVA\_TOP/com/more4apps/r12/servlet.

```
cd $JAVA_TOP  
unzip -q m4aServlet.jar
```

Note: if you get prompted about replacing the META-MIF/MANIFEST.MF, you can answer N or Y (it makes no difference in this scenario).

#### 2. Unzip Intermedia jar files

We make use of intermedia classes but these classes are not included in the mid-tier classpath. To make these classes available, do the following:

```
cd $JAVA_TOP  
unzip -qu $ORACLE_HOME/ord/jlib/ordim.jar  
unzip -qu $ORACLE_HOME/ord/jlib/ordhttp.jar
```

#### 3. Edit Autoconfig Template

Navigate to the template directory.

```
cd $FND_TOP/admin/template
```

Create the "custom" directory if it does not already exist.

```
mkdir custom
```

If the file orion\_web\_xml\_1013.tmp does not already exist in the "custom" directory then copy it in. Be careful not to overwrite an existing copy of this file or you may lose pre-existing customizations.

```
cp orion_web_xml_1013.tmp custom
```

Move into the custom directory and edit the custom template file.

```
cd custom  
vi orion_web_xml_1013.tmp
```

Paste the following lines just before the TCF alias (approximately line 162).

```
<servlet>  
<servlet-name>m4aServlet</servlet-name>  
<servlet-class>com.more4apps.r12.servlet.XmlServlet</servlet-class>  
</servlet>
```

Paste the following lines just before the TCF aliases (approximately line 950).

```
<servlet-mapping>  
<servlet-name>m4aServlet</servlet-name>  
<url-pattern>/m4aServlet/*</url-pattern>  
</servlet-mapping>
```

4. Run Autoconfig

Run Autoconfig as described in Note [387859.1](#)

```
cd $ADMIN_SCRIPTS_HOME  
adautoCfg.sh
```

5. Bounce Apache

```
adapctl.sh stop  
adoacorectl.sh stop  
adoacorectl.sh start  
adapctl.sh start
```

6. Test the Servlet

To test whether the servlet has been installed correctly, first get the value of profile option "Apps Servlet Agent".

Then enter the following URL in your browser:

```
<<value of profile option>>/m4aServlet/hello
```

The full URL will look something like this:

```
http://tornado.more4apps.com:8000/OA_HTML/m4aServlet/hello
```

If the servlet has been installed correctly a simple information page will render.

Refer to section: [Configure the Workbook](#)

## 6. Configure the Workbook (post – install)

Once the installation is complete you need to configure the workbook.

First set up the List of Instances, this will enable you to connect and communicate with the Oracle database.

If you have a License Key you will need to enter the License Key and Named Users. If you do not have a License Key you will operate the wizard in trial mode and will have limited functionality.

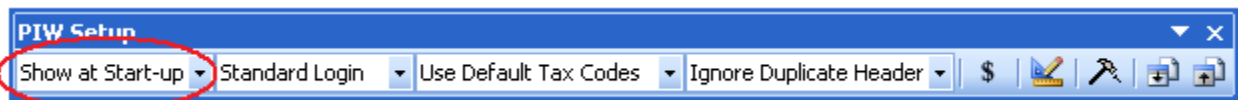
Refer to section: [Set up the List of Instances](#)


Refer to section: [Enter the License Key](#)

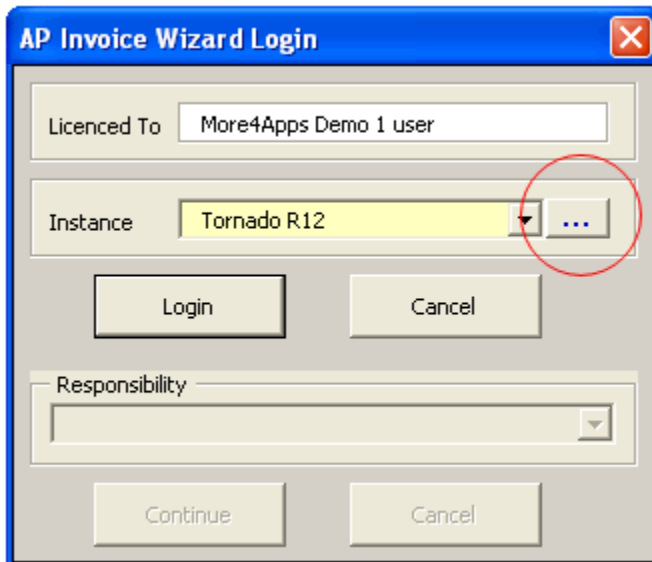
Refer to section: [Add Named Users](#)

### 6.1 Set up the List of Instances

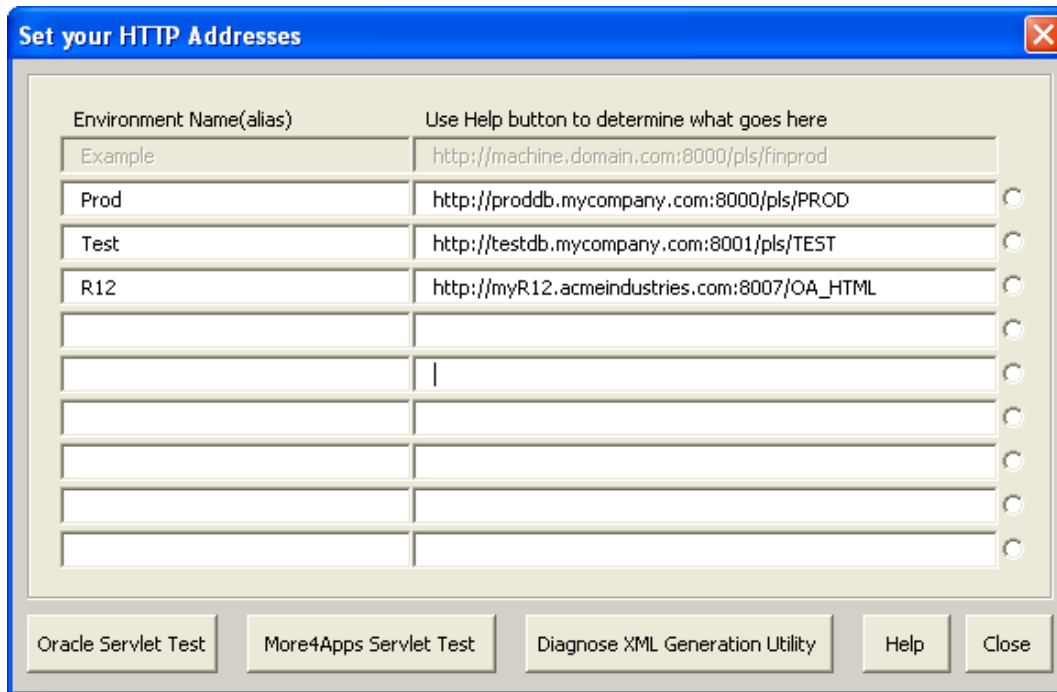
1. Open the Wizard spreadsheet.
2. To edit the list of instances, the display option on the Setup toolbar must be set to "Show at Start-up".



3. Click on the 'About this Program' icon  on the product toolbar and the login page will open.



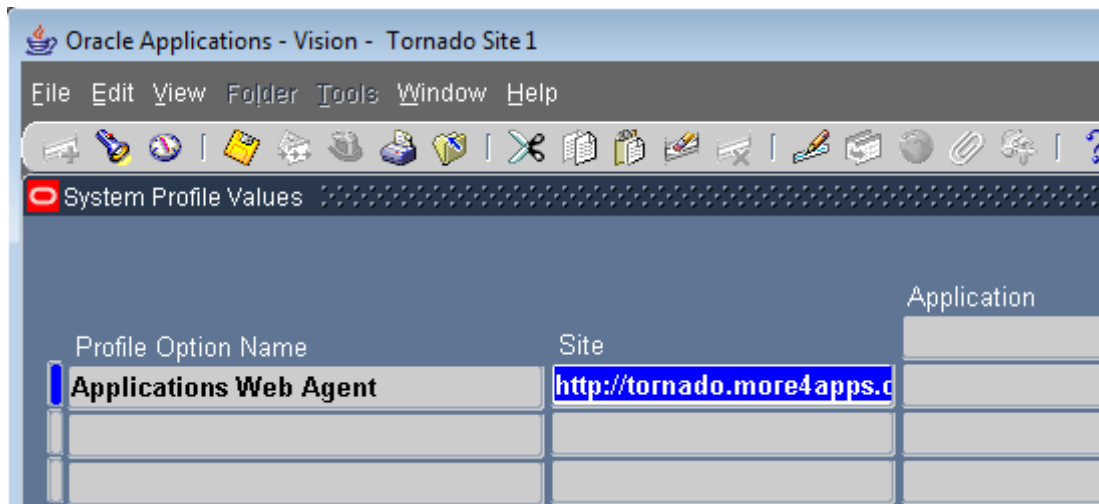
4. Click on the Instance [...] button to open the Configuration form.



5. Enter an environment name that describes the database you are connecting to (this will display in the Instance List on the login page).
6. Enter a URL...

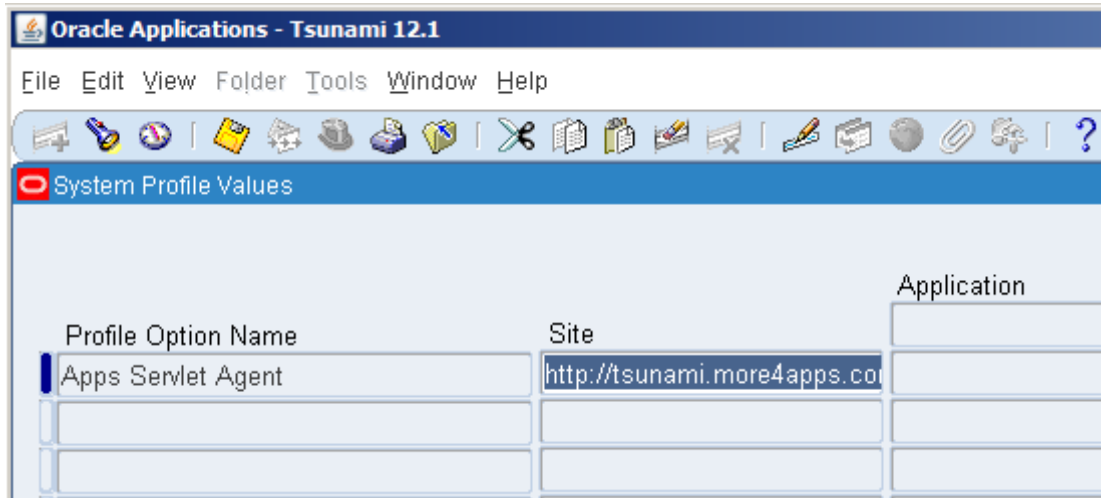
### Release 11i

To find the URL for Release 11i instances, login in to Oracle e-Business Suite as a System Administrator and find the 'Applications Web Agent' profile option at the site level. Copy and paste this value into the Configuration form.



### Release 12

To find the URL for Release 12 instances, login in to Oracle e-Business Suite as a System Administrator and find the 'Apps Servlet Agent' profile option at the site level. Copy and paste this value into the Configuration form.



Repeat for each instance/database that you need to connect to. Then click on 'Close'.

The settings above are stored in the workbook, so the workbook MUST be saved or any setup you do here will be lost.

**To find out how to copy your instance list between workbooks refer to [Common User Instructions: Copy Instances between Workbooks](#)**

Refer to section: [Enter the License Key](#)

Refer to section: [Add Named Users](#)

Refer to section: [Verify your Setup](#)

## 6.2 Enter the License Key

Every More4Apps product requires a license key to fully enable it. The license key contains the name of the licensee, a code to identify the product, an expiry date (only relevant for short-term or conversion keys), and a number indicating the number of "Named" users allowed. When a short term key expires the tool simply reverts back to trial mode with limited functionality.

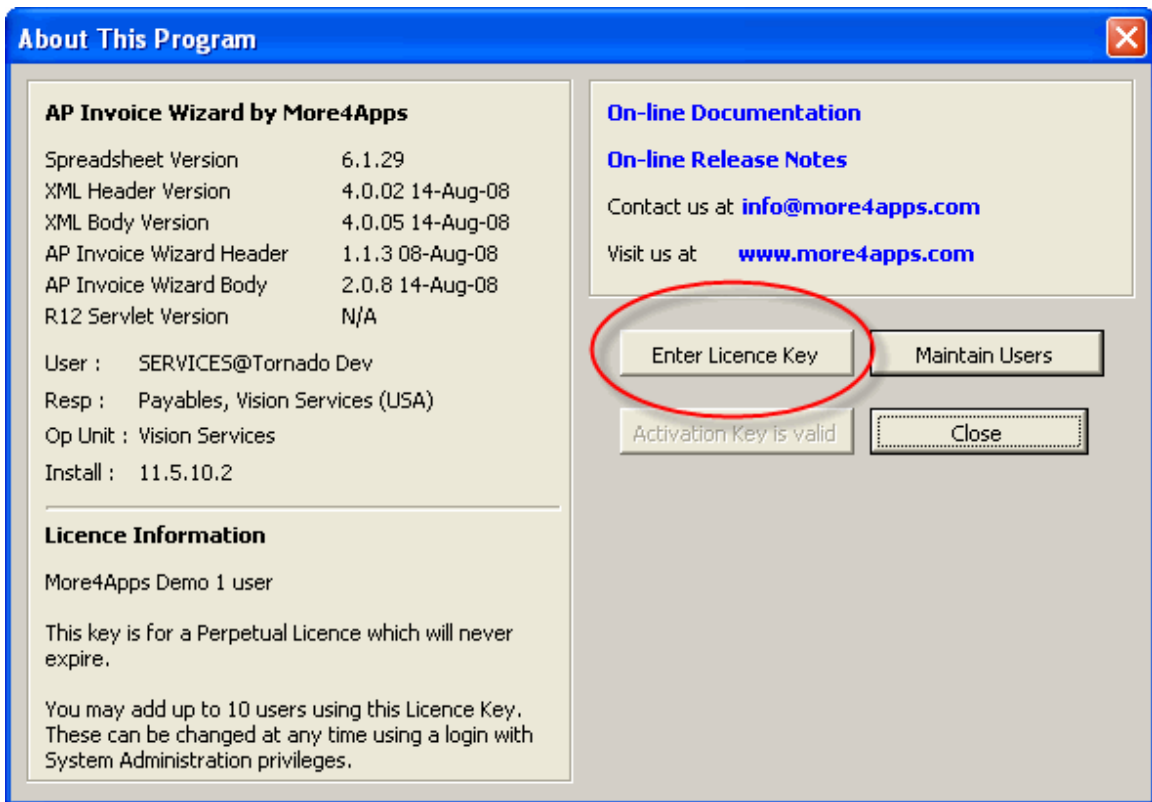
Initially the Wizard will be running in trial mode. To remove the trial constraint you must enter the License Key you have purchased.

The steps to enter the License Key are as follows:

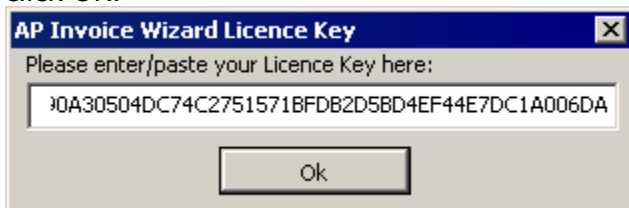
1. Open the Wizard spreadsheet.
2. Click on the 'About this Program' icon on the Product Toolbar.



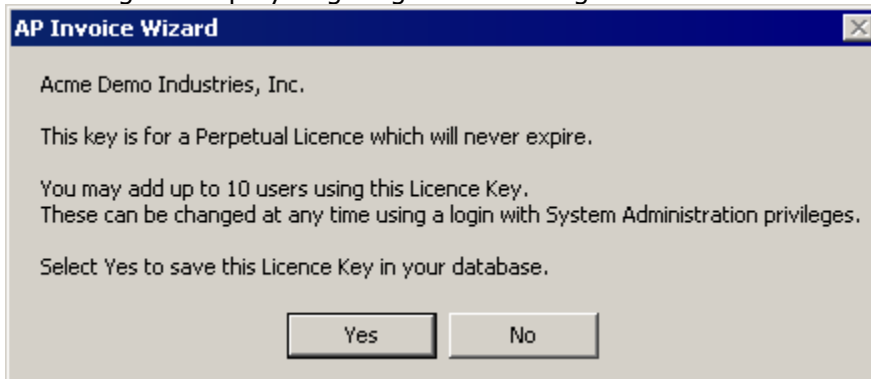
3. Log in by selecting an instance, entering a username and password and choosing a responsibility. (You must have already completed the steps to set up the List of Instances).
4. Click on the 'Enter License Key' button



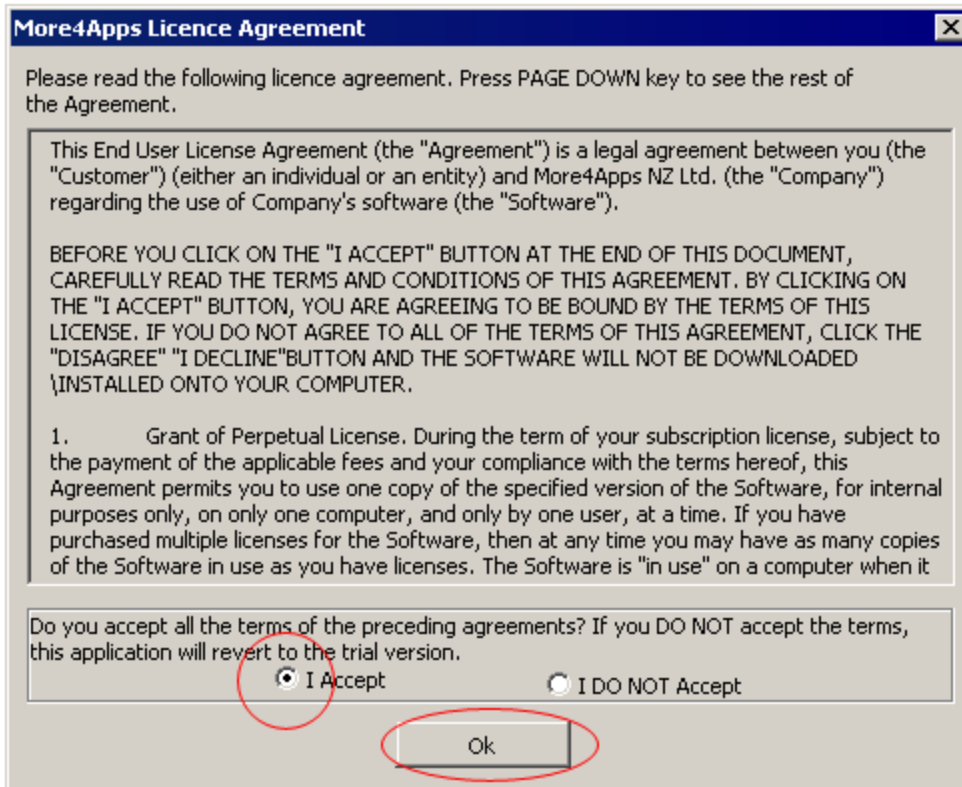
5. A License Key input box is displayed. Paste your License Key into the input box and then click OK.



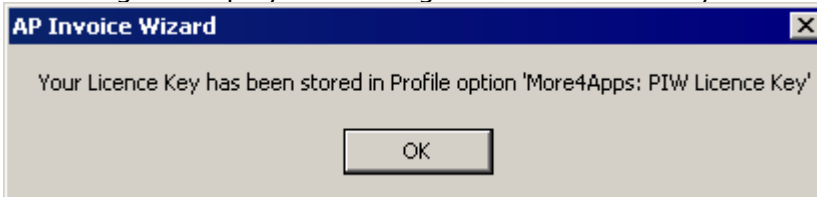
6. A message is displayed giving details in regard to the entered license key. Click Yes.



7. A License Agreement is displayed. To activate the Wizard accept the terms by clicking in the 'I Accept' radio button and then click OK.



8. A message is displayed advising that the License key has been stored. Click OK.



Your Wizard has been fully enabled and the trial version constraint is removed.

Refer to section: [Set up the List of Instances](#)

Refer to section: [Add Named Users](#)

### 6.3 Add Named Users

In most cases you will be issued a Named User License Key which limits the number of users for this product. You will need to enter the Named Users (instructions below).

You do not need to enter a named user in the following scenarios:

- If you do not have a license key at all and are just trialing the product. The wizard will limit the number of records you can upload/download and you will not need to enter a named user.
- If you have a trial key or a short term key. You will be able to use full functionality for a limited period of time and will not need to enter a named user.
- If your company has purchased a site-wide license key. You will be able to use full functionality and will not need to enter a named user.

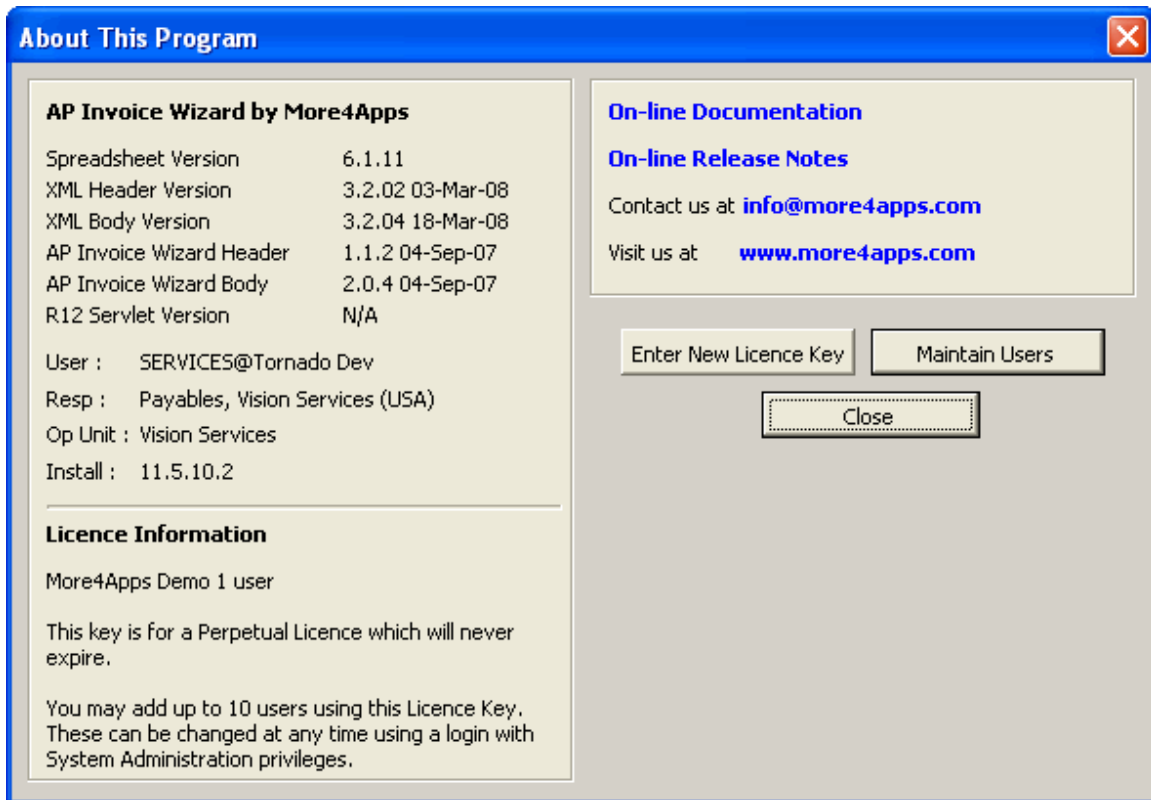
The steps to add Named Users are as follows:

1. Open the Wizard spreadsheet.

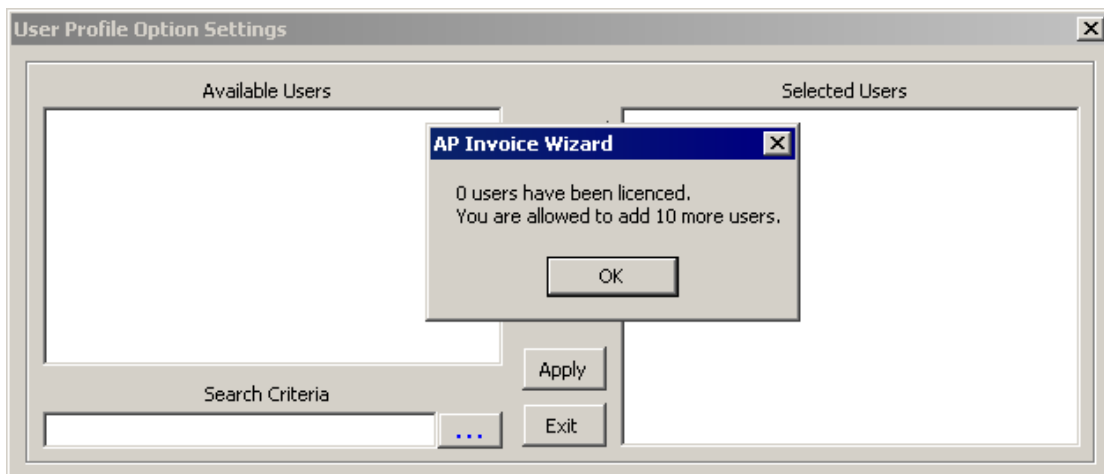
2. Click on the 'About this Program' icon in the Wizard Toolbar



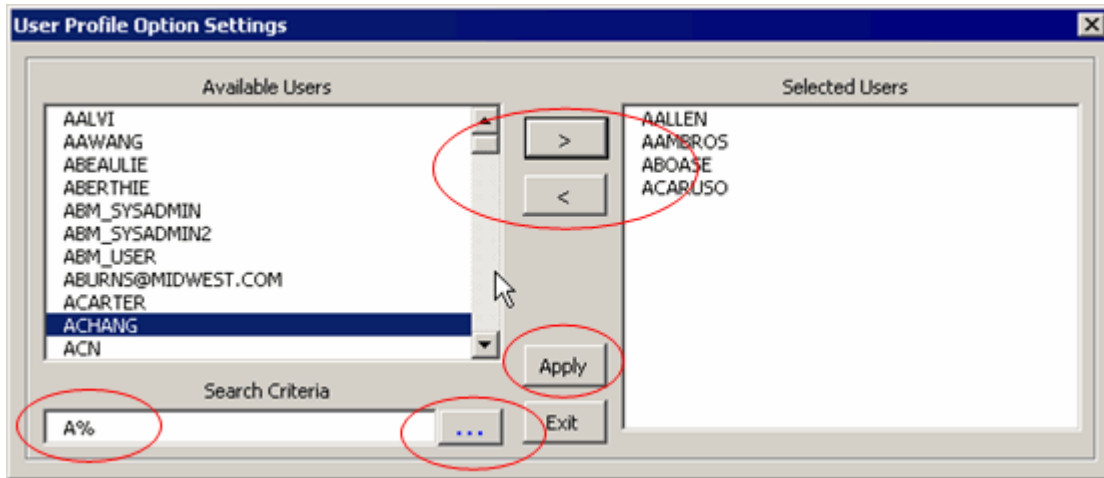
3. Log in by selecting an instance, entering a username and password and choosing a **System Administration** responsibility. (You must have already completed the steps to set up the List of Instances).
4. Click 'Maintain Users'.



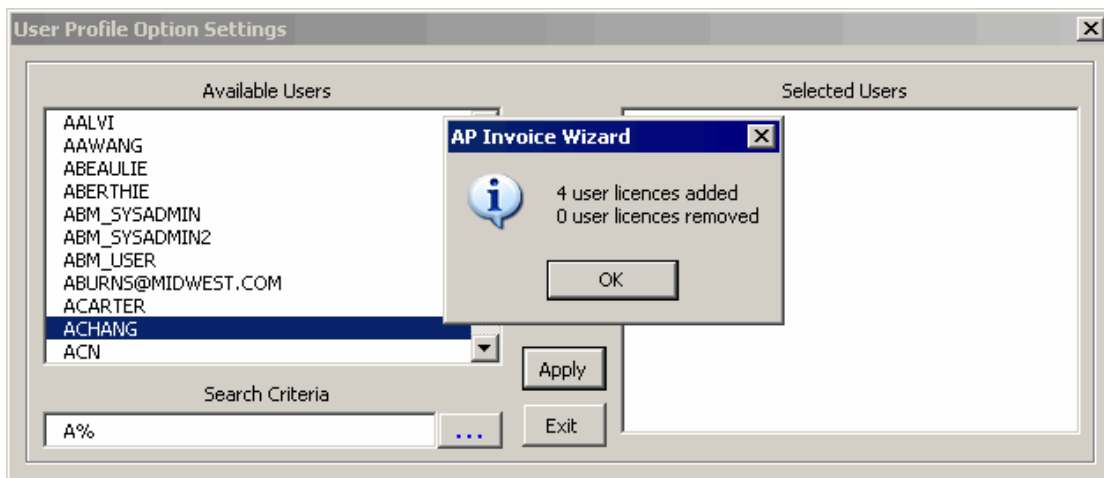
5. A message is displayed indicating how many licenses have been used and how many more users can be added. Click OK.



6. Enter a search criteria into the Search Criteria input box and click on [...] to search for users. The results will appear in the 'Available Users' box. Use the Add button to move users into the Selected Users window. Click the 'Apply' button.



7. A message is displayed indicating the modifications. In this case four users have been added. Click OK. These four users will now be able to use the Wizard.
8. Click Exit to leave this form which will log you out of the Wizard.



Refer to section: [Set up the List of Instances](#)  
Refer to section: [Enter the License Key](#)

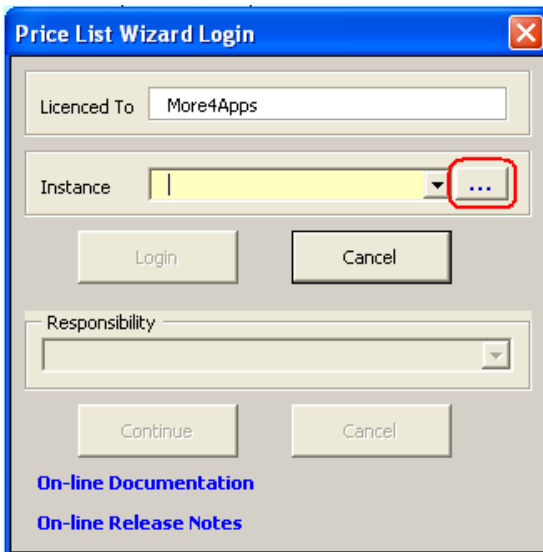
## 7. Verify your Setup

There are some steps that you can perform to check that your installation has been successful.

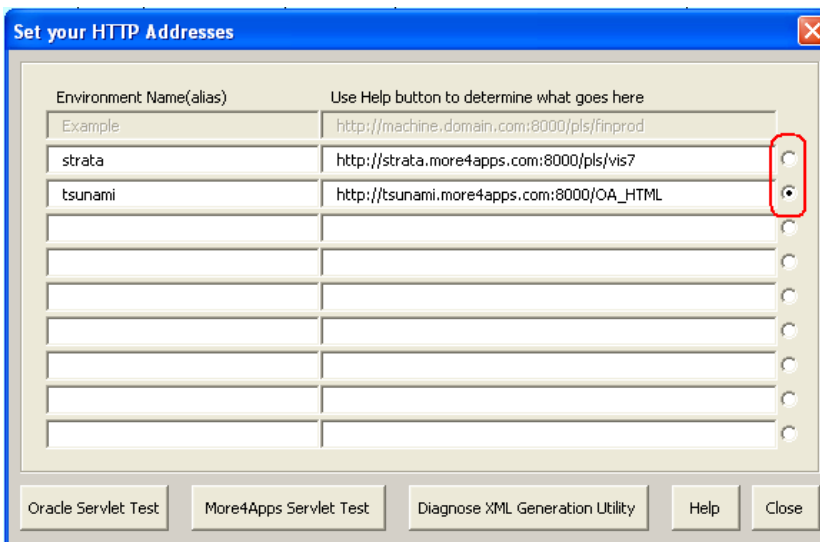
1. Open the Wizard spreadsheet.
2. Click on the 'About this Program' icon on the Product Toolbar.



3. Click on the Instance [...] button to open the Configuration Form.

A screenshot of the 'Price List Wizard Login' dialog box. The title bar reads 'Price List Wizard Login'. The dialog contains a 'Licenced To' field with the value 'More4Apps'. Below it is an 'Instance' dropdown menu with a red circle around the [...] button. There are 'Login' and 'Cancel' buttons. At the bottom, there is a 'Responsibility' field, 'Continue' and 'Cancel' buttons, and links for 'On-line Documentation' and 'On-line Release Notes'.

4. The following form will appear. Select the instance which you want to verify as shown below.

A screenshot of the 'Set your HTTP Addresses' dialog box. The title bar reads 'Set your HTTP Addresses'. The dialog contains a table with two columns: 'Environment Name(alias)' and 'Use Help button to determine what goes here'. The table has three rows: 'Example' with 'http://machine.domain.com:8000/pls/finprod', 'strata' with 'http://strata.more4apps.com:8000/pls/vis7', and 'tsunami' with 'http://tsunami.more4apps.com:8000/OA\_HTML'. The radio button for the 'tsunami' instance is circled in red. At the bottom, there are buttons for 'Oracle Servlet Test', 'More4Apps Servlet Test', 'Diagnose XML Generation Utility', 'Help', and 'Close'.

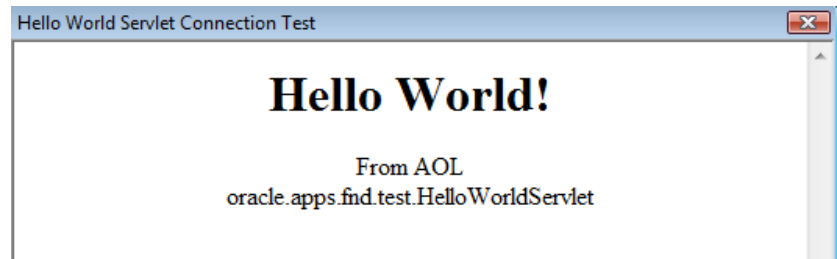
5. Diagnostics can be performed as follows:

Use the radio button (right-hand side) to select the instance you want to test.

There are the following diagnostic buttons available:

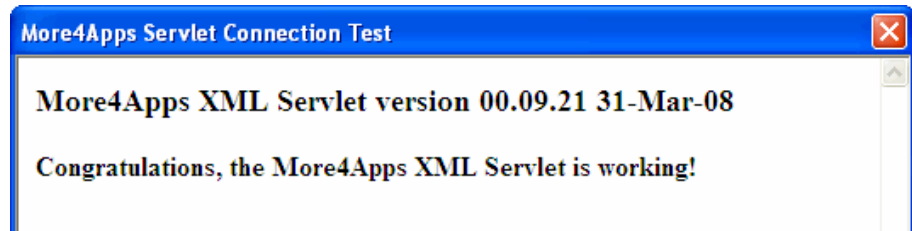
**Oracle Servlet Test:**

Click this button to test the basic webserver connectivity and that your URL is correct. This should work whether the More4Apps servlet is installed or not.



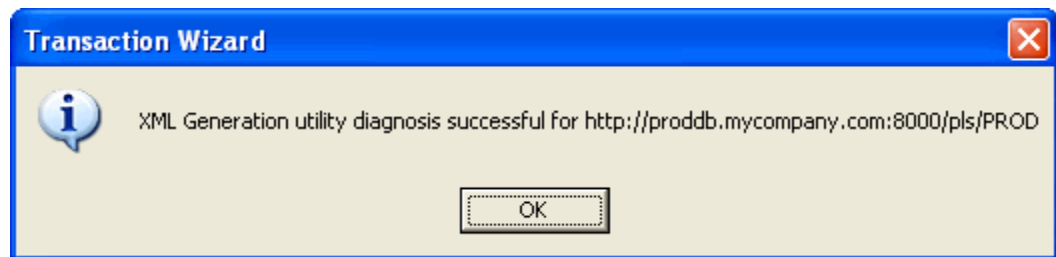
**More4Apps Servlet Test:  
(Release 12 Only)**

Click this button to test that the More4Apps Servlet was installed.



**Diagnose XML Gen Utility:  
(Release 11i Only)**

Click this button to test access to the M4APS\_XML package. You will only get this message successfully AFTER the install.sql script has been run.



**Support**

If you have any questions regarding the installation steps, contact us via our website.  
<http://www.more4apps.com/request-technical-assistance/>

## 8. Deinstall / Reinstall / Upgrades

### Deinstallation from Server

The More4Apps products consist of a central framework in the APPS schema used by all products, and product-specific code for each product.

To deinstall a Product (e.g. Budget Wizard) but leave the framework installed, do the following in the APPS (or BOLINF) schema:

- Drop the M4APS package(s) created by the <product>\_install.sql script (e.g. BW\_install.sql).

To completely deinstall the More4apps Products *including* the XML framework do the following in the APPS (or BOLINF) schema:

- Drop all packages beginning with M4APS and the synonym M4APS\_XMLQUERY
- Run the following:  
delete from fnd\_enabled\_plsql  
where plsql\_name='M4APS\_XML';
- If you are on R12 then you can remove the servlet configuration by deleting \$FND\_TOP/admin/template/custom/orion\_web\_xml\_1013.tmp and running Autoconfig. You can remove the servlet java classes by deleting directory \$JAVA\_TOP/com/more4apps, however there is no harm done by leaving them in place.

To remove Profile Options:

- There is no automated mechanism in Oracle e-Business Suite for complete removal of Profile Options. To disable the Profile Options created by the More4Apps products, query them up in the "Profile Options" screen of the "Application Developer" responsibility (they all start with "More4Apps%") and disable them at all levels. When not used by More4Apps products the Profile Options are benign and will not affect the standard functionality of your Oracle e-Business Suite.

### Reinstallation and Upgrades

The installation scripts can all be re-run. If you mistakenly removed a package (e.g. the framework package M4APS\_XML) or you want to upgrade to a newer version then run the install or <product>\_install.sql in the APPS (or BOLINF) schema.

To upgrade the R12 servlet, simply follow steps "Unzip m4aServlet.jar" and "Bounce Apache" from the servlet installation steps above. There is no need to redo the Autoconfig steps.

### Support

If you have any questions regarding the installation / de-installation steps, contact us via our website. <http://www.more4apps.com/request-technical-assistance/>