

Developer QuickStart Guide

M-Business Anywhere®

Version 6.0



Purpose of this guide

This *Administrator Guide for M-Business Anywhere Server, Version 6.0* is provided to help a developer who is new to the M-Business Anywhere environment achieve the following objectives within 30-60 minutes:

- Install M-Business Server
- Install M-Business Client on a mobile device
- Set up a test user on M-Business Server
- Set up a test channel on M-Business Server that will deliver web content to the mobile device
- Sync the the mobile device with the M-Business Server to download and view the test channel content

When you are finished with this guide, you will be ready to concentrate on the design issues involved in getting your target web content to work the way you want it to on the mobile devices that you must support.

Location of other M-Business Anywhere documentation

In order for the cross references to other M-Business Anywhere documents to work properly as clickable links, all of the M-Business Anywhere documentation PDF files must be located in the same directory.

1. You may download the complete set of M-Business Anywhere documentation from:
http://www.ianywhere.com/developer/product_manuals/mbusiness_anywhere/
2. Under “Current Version,” click the **Complete doc set** link, then unzip the files into one directory.

What you need to continue

1. Make sure you have a workstation set up to use for testing.

This workstation may be the same host machine on which M-Business Server will be installed, or any other workstation that can connect to the host over a network.

Operating system - The workstation must have one of the following versions of Microsoft Windows:

- 98 SE
- 2000 Professional with Service Pack 4
- XP Professional
- XP Home

Browser - The workstation must have one of the following supported browsers:

- Internet Explorer 5.5
- Internet Explorer 6.0
- Firefox 1.0

Note

You will need to log in as an administrator on the workstation in order to install the M-Business Client software.

2. Make sure you have a mobile device set up to use for testing.

You need to have a mobile device with a cradle attached to the workstation from which you will access the M-Business Server Administrator Console and sync the device. If you are using a Windows XP workstation, the workstation itself can serve as the test device.

Palm requirements - Palm OS devices running version 4.x or 5.x of the Palm OS 2 MB free memory.

Pocket PC requirements - Pocket PC OS devices, including Pocket PC and Handheld PC devices, running version 3.0 and using ARM processors with 2 MB free memory.

Windows XP requirements - Windows XP Tablet Edition, or Windows XP Professional

Note

Before proceeding, the device should already be set up to sync at your desktop workstation. Palm devices sync via HotSync, Pocket PC devices sync via ActiveSync, and Windows XP devices sync directly via a network connection. If you have just received a new device, refer to the documentation that came with it to set it up correctly.

3. Make sure the Windows server on which you plan to install M-Business Server meets the following hardware and software requirements:
 - 2 GB RAM
 - Pentium 4 2.5 GHz or better CPU

- One of the following operating systems:
 - Windows 2000 Server with Service Pack 4
 - Windows 2003 Server with Service Pack 1
4. Make sure you have the admin user login info for the target server.

Installing the M-Business Anywhere server on Windows

Note If you are upgrading an existing M-Business Anywhere installation, or installing on a Unix platform, this guide does not cover those situations. See the *Administrator Guide for M-Business Anywhere Server* for instructions.

Follow the instructions below to perform a new installation of M-Business Server on a Windows machine. If you need more details on any of the steps, see the *Administrator Guide for M-Business Server*, “Installing M-Business Anywhere server on Windows” topic.

1. On the target server, log in to Windows as an administrator.
2. Determine the port numbers that are already in use on the machine.

Note The M-Business Server installer will use port number 80 by default. If port 80 is already in use, you will need to specify another port number which is *not* in use.

- Open a browser window on the server and enter this URL:
`http://localhost:80`
 - If a non-error page is displayed, it means that a web server on that machine is already using port 80 — try the URL above with different port numbers until you find one that is not in use, then make a note of that port number for later reference. Do *not* use port numbers 8091 or 8099 — these will automatically be used by the M-Business Server.
3. Download the M-Business Server installer.
 - Open a browser and navigate to <http://www.ianywhere.com/downloads/>
 - Click the **M-Business Anywhere Developer Edition** link.
 - Fill in the form for the evaluation download and read the license agreement.
 - Click the **Agree and Submit** button.
 - On the Download and Installation page, click the **click here** link in “To begin download process now, please click here” in the middle of the page.
 - On the M-Business Anywhere 6.0 for Windows Download page, click the **Download** button to the left of “M-Business Anywhere for Windows.”
 - Save the installer file, *MBAnywhereW.exe*, to a temporary location.

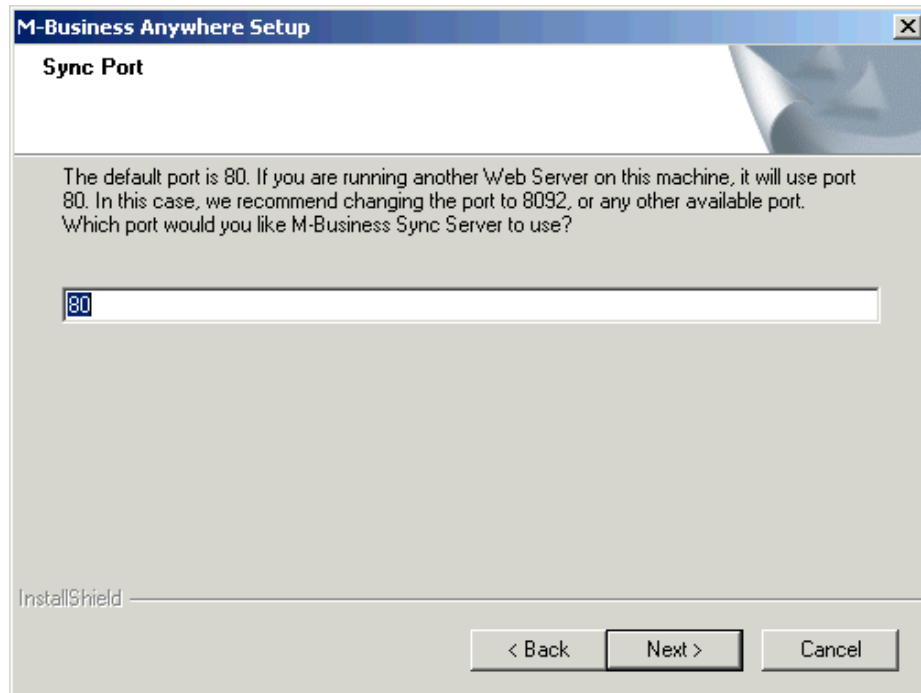
Note Your license number will be sent to you at the email address you supply in this step. You can start the installer immediately, but you will not be able to complete the installation until you have received your license number.

4. Run the M-Business Server installer.
 - Open the folder where you just saved the installer and double-click the *MBAnywhereW.exe* file to start the InstallShield Wizard.
 - After the Extracting Files panel completes, enter your server license number in the M-Business Anywhere Setup window that appears.
Get this from the email sent to the email address you gave in step 3 above.

- Accept the defaults on the rest of the panels until you reach the Sync Port panel. Here is the sequence you will see:
 - Server Functionality
 - Welcome
 - License Agreement
 - Choose Destination Location
 - Wireless Access SRP Key
 - User Friendly Server Name
 - Host Name

The Sync Port panel is now displayed:

Figure 1-1
Sync Port panel



Caution

If port 80 is already in use on the target machine, enter another port number which is *not* in use on the Sync Port panel.

- Click **Next** on the Sync Port panel to start the M-Business Anywhere setup process.

Note

On the InstallShield Wizard Complete panel, you can choose to restart your computer later, but you will not be able to continue with the steps that follow until you restart.

5. Verify that the installation was successful.

- Restart the machine.
- In a browser, navigate to `http://localhost:8091`.

If the M-Business Anywhere login page appears, the install was successful — continue.

If the login page does *not* appear, start over with step 1 above.

After you have verified that the install was successful, go on with the next section, “Setting up a mobile device, test user, and test channel” (page 7).

Setting up a mobile device, test user, and test channel

1. If the test device is an XP Tablet, proceed to step 3.
2. If the test device is Palm or Pocket PC, verify that the device is able to synchronize with your desktop workstation.

Palm devices sync via HotSync and Pocket PC devices sync via ActiveSync. Refer to the documentation that came with the device for detailed instructions.

Once you have verified that the test device is able to synchronize, leave the device in its cradle.

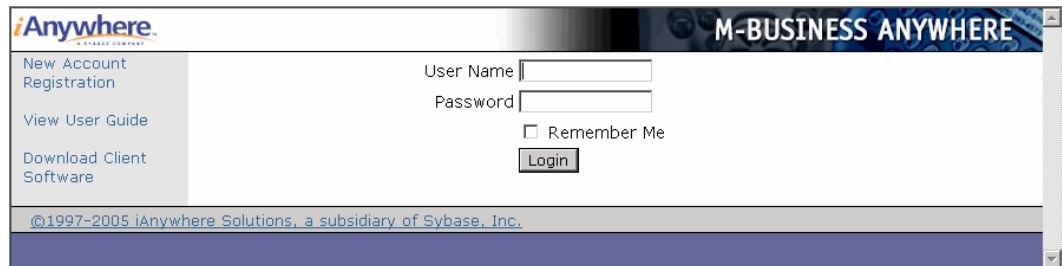
Caution

Do not proceed until you are able to synchronize your device.

3. Open the M-Business Server Administrator Console.

Navigate in your web browser to **http://localhost:8091**.

Figure 1-2
Download Client
Software link on
login screen



4. Click the **New Account Registration** link, at the top.
The Language Preference screen appears (“Step 1 of 7”).
5. Click the language that you want, then click **Next**.
The device Operating System screen appears (“Step 2 of 7”).
6. Click the device operating system that you want, then click **Next**.
The Download screen appears (“Step 3 of 7”).
7. Click the link, **Click here to save the M-Business Client Software to your hard disk**.
The File Download dialog appears.
8. Click **Save** to save the program to disk.
The Save As dialog appears.
9. Select a folder into which the program file will be saved, then click **Save**.
A Download dialog will show you the progress of the file transfer and display the message “Download Complete” when the file is copied into the folder you selected.
10. Click **Open** to start the InstallShield Wizard.
11. Follow the instructions on the screen to install M-Business Client on your desktop computer.

Note

12. Click **OK** when you see the screen display a message telling you that the M-Business Client will be installed to your device the next time you synchronize.

M-Business Client also installs M-Business Connect on your desktop and mobile device. M-Business Connect enables M-Business Client to communicate with M-Business Server.

13. Return to your browser window where the Download screen (“Step 3 of 7”) is still displayed.
14. In the Download screen (“Step 3 of 7”) in your browser, click **Next**.
- The Install screen (“Step 4 of 7”) appears.
15. If you ran the installer file by clicking the Open button in the Download dialog, you can ignore this screen and just click **Next**.

If you closed the Download dialog without running the installer file, follow the directions on the Install screen (“Step 4 of 7”) and click **Next** after you are finished.

The Register screen (“Step 5 of 7”) appears.

Figure 1-3
Register screen

The screenshot shows a web browser window titled "M-BUSINESS ANYWHERE". The main content area is titled "New Account Registration". It features a "Cancel" button on the left. The text reads: "Please create a User account. Checking 'Remember Me' will allow you to access your M-Business Enterprise settings without logging in first. Step 5 of 7." Below this are five input fields: "User Name", "First Name", "Last Name", "Password", and "Confirm Password". A "Remember Me" checkbox is located below the "Confirm Password" field. A "Next >" button is positioned at the bottom right of the form area. The footer of the page contains the text: "@1997-2005 iAnywhere Solutions, a subsidiary of Sybase, Inc."

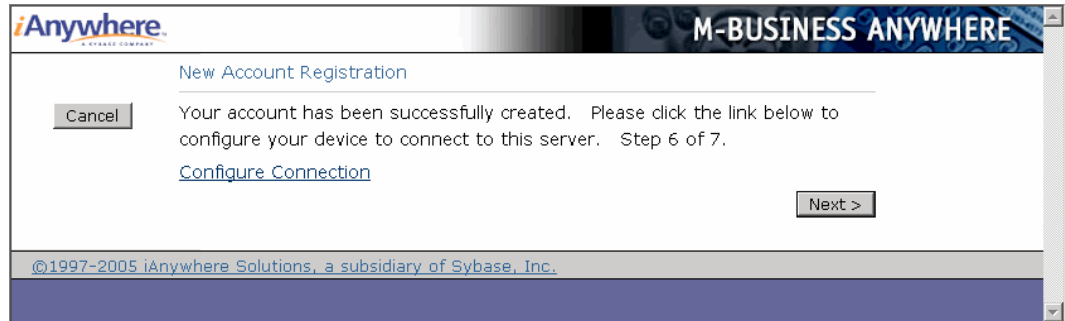
16. Enter your information in the **Username**, **First Name**, **Last Name**, **Password**, and **Confirm Password** fields.

If you do not want to re-enter your user name and password every time you access your account, select the **Remember me** checkbox.

17. Click **Next**.

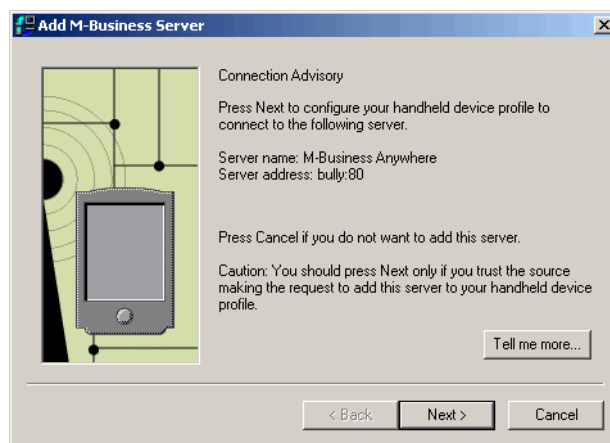
The Configure screen (“Step 6 of 7”) appears. You should see a message saying that your account has been successfully added to the server. If you do not see this message, contact your system administrator.

Figure 1-4
Configure screen



18. In the Configure screen in your browser, click **Configure Connection**.
The Add M-Business Server dialog appears.

Figure 1-5
Add Server dialog



19. Click **Next**, then follow the directions on the following screens to configure your mobile device's connection to the server.
20. When you return to the Configure screen in your browser, click **Next**.
The Channel List for User... page appears.

Figure 1-6
Create a Channel for
User form

iAnywhere M-BUSINESS ANYWHERE

Create a Channel for User: psmith

Title

Location

Channel Size Limit KB

Link Depth

Include Images

Color Depth

Follow Offsite Links

Sync Only

Refresh Only Once
 Every Sync
 Only once every hours(s) only on weekdays
 Daily
 : AM PM
on days:
 Monday Tuesday Wednesday Thursday
 Friday Saturday Sunday

Create a new User Channel by editing the fields above and clicking Create. (Title and Location are required.)

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21. On the **Create a Channel for User** form, fill in these fields as follows:
 - for **Title**, enter **Google Test**
 - for **Location**, enter **http://www.google.com**
22. Click the **View** button to be sure the URL works.
23. Close the browser window opened by the View button.
24. If Google did not display, fix the URL and click the View button again.
25. Click the **Create** button at the bottom of the form to create the channel.

Testing your device/user/channel setup

1. Sync your test device.

See the documentation that came with your device for instructions.

2. If your test device is *not* a Windows XP device, sync again.

On all platforms *except* Windows XP, the first sync simply installs the M-Business Client on the device. The second sync downloads the test channel content — the Google home page.

3. Start up the M-Business Client on the device.

Palm OS:

- tap the **Applications** silk-screen icon



- tap the **M-Business Client** icon



M-Business

Pocket PC OS:

- tap **Start|Programs**
- tap the **M-Business Client** icon



Windows XP:

- tap or click **Start|Programs**
- tap or click the **M-Business Client** icon



4. Make sure the device is offline.

Depending on your device and connection type, your device may be online after syncing. In order to see how the M-Business Client handles offline form submissions in the steps below, your test device must be offline:

Palm OS:

- tap the **iAnywhere** page title to open the menus
- on the **Channels** menu, tap **Work Offline**

Pocket PC OS:

- tap the **Tools** menu, then tap **Work Offline** (if greyed out, device is already offline)

Windows XP:

- tap or click the **File** menu, then tap or click **Work Offline**

5. Under **Personal Channels**, tap the **Google Test** link to display your channel.

Figure 1-7
Google Test link on
device



6. Look in the Forms Manager.

Now that the test channel is properly synchronized to your device, we'll demonstrate a simple offline form submission. We'll use the Forms Manager on the device to view an empty forms queue, a forms queue with pending forms, and finally the successful results of our form submission. First view the empty forms queue:

- **Palm OS** - Tap the **Google Search** page title to open the menus, then on the **Channels** menu, tap **Forms Manager**.
- **Pocket PC OS** - Tap the **View** menu at the lower left, then tap **Forms Manager**.
- **Windows XP** - Tap the **View** menu at the top, then tap **Forms Manager**.

The Forms Manager opens, displaying a message beginning, "You have no pending form submissions..."

7. Perform a search.

- Tap the **Back** button to return to the Google Search page.
- Tap in the text field immediately above the Google Search button.
- Type **w3c** as the search term.
- Tap the **Google Search** button.

A message is displayed indicating that "your submission... will be sent during the next Synchronization."

- Tap **OK** to acknowledge the message and return to the Google Search page.

8. Perform another search.

- Tap in the text field immediately above the Google Search button.
- Type **ieee** as the search term.
- Tap the **Google Search** button.
- Tap **OK** to acknowledge the message.

9. Look in the Forms Manager again.

- **Palm OS** - Tap the **Google Search** page title to open the menus, then on the **Channels** menu, tap **Forms Manager**.
- **Pocket PC OS** - Tap the **View** menu at the lower left, then tap **Forms Manager**.
- **Windows XP** - Tap or click the **View** menu at the top, then tap **Forms Manager**.

The Forms Manager opens, this time displaying one entry for each search form you just submitted. The “pending” status indicates that these forms have been submitted offline on the device, but have not yet been submitted to the server in a sync.

10. Sync your test device.

There are several different ways to sync your device. In order to ensure that your device remains in offline mode, use the method listed below for your platform:

- **Palm OS** - Sync the device through HotSync; see the documentation that came with the device for instructions.
- **Pocket PC OS** - Sync the device through ActiveSync. Typically you just place the device in the cradle; see the documentation that came with the device for instructions.
- **Windows XP** - In the M-Business Client on the device, tap or click the **File** menu at the top, then tap **Sync**.

When the sync is complete, the M-Business Client on the device automatically returns to its home page.

11. Look in the Forms Manager again.

- **Palm OS** - Tap the **Google Search** page title to open the menus, then on the **Channels** menu, tap **Forms Manager**.
- **Pocket PC OS** - Tap the **View** menu at the lower left, then tap **Forms Manager**.
- **Windows XP** - Tap or click the **View** menu at the top, then tap **Forms Manager**.

The Forms Manager opens, still displaying one entry for each search form you submitted, but this time the “success” status indicates that these are the response forms returned by the server.

12. View your search results pages.

- Tap the **success** link to display the search results for that form.
- Tap the **Back** button to return to the Forms Manager to view the other search results page.

Note

Tapping any link on one of your search results pages will get a “Page not available” message. If you get this message now, tap the **Back** button to return to the Forms Manager.

Next steps

After the test/demo channel sync is successful, to create an application or mobilize an existing desktop web application, continue with the *Introduction to M-Business Anywhere*, “Mobile application design guidelines” chapter.