

## UltraSite32 Network Installation Guidelines

This technical bulletin provides instructions to support users who wish to install UltraSite32 on a LAN or WAN, with multiple client machines using a shared database from a network server. It also covers how to update UltraSite32 to a new version on an existing network installation, and how to convert databases from old stand-alone copies of UltraSite32 for use with UltraSite32 Network.

### Overview

There are two ways UltraSite32 can be installed and used in the field: stand-alone, and network. To best describe how a network installation operates, it is best to describe both methods of installation and compare the two.

#### Stand-Alone vs. Network Installation

The most common way UltraSite is used is in a **stand-alone installation**. A stand-alone configuration consists of a single PC that interacts with one or more CPC-controlled sites through a modem, a direct connection, or an Ethernet network connection. During stand-alone operation, UltraSite32 interacts with other controllers by building a **database** on the PC. This database stores the updated information from the controllers and allows UltraSite to present this data to you on the screen and through reports.

Stand-alone installations are useful for single users who are connecting to CPC sites remotely to troubleshoot or to update or upgrade controllers.

**Network installations** are used when a site has multiple PCs running UltraSite32 that require constant data updates from the CPC controllers. In a network installation, a single PC, designated as the “server,” houses a single database that is used by all connected on-site PCs (called “clients”). All clients read from and write to the database on this server. As a result, all client PCs share the same site data. No matter which client PC is used, the user will be able to view real-time status and perform other UltraSite32 functions (such as resetting alarms, performing manual overrides, etc.).

A common example of a network install would be in a store with multiple touchscreen computers running UltraSite32 (usually one in each major department). These touchscreen clients allow floor managers to look at the current status of their site and respond to any alarms that might occur that concern their department. UltraSite32 Network allows all clients to share the same site information.

### The Network Installation Process

UltraSite32 is ordered and distributed as either “UltraSite32 Stand Alone” or “UltraSite32 Network.” The UltraSite32 Network installation diskettes are required in order to install UltraSite32 to a network server. Do not install the UltraSite32 Stand Alone diskettes on any PC that is going to be a client or a server on your PC network.

The network installation process consists of two major steps:

- Install UltraSite32 to the PC that will act as the server.
- For each client machine, run the installation program from the server to install UltraSite32 on the client.

### **Installing UltraSite32 on the Server (Windows 95/98/NT)**

1. Put the UltraSite32 Network Installation diskette #1 in drive A: on the server PC.
2. Left-click the Start button on your Windows toolbar, and select “Run...” from the Start Menu.
3. In the “Open” field of the Run dialog box, type A:\setup.exe
4. When the “Welcome” dialog box appears, close all applications that are currently open on the server PC. When finished, click the Next button.
5. The Choose Destination Location dialog box allows you to specify what directory will hold the UltraSite32 program files and database. The default directory is C:\Program Files\USDBServ. If you want to choose a different directory for installation, click Browse. When finished, click the Next button.

### ***Important!***

*The installation directory you choose must be a shared directory accessible from any machine on the network. The directory's security settings must allow read/write access to all users. If you aren't sure if your directory is shared and read/writable, consult your network administrator.*

6. In the Check Setup Information box, verify the directory shown is the one you wish to install to. Press “Next” to begin installation.
7. UltraSite will begin copying files from the floppy to the destination directory. From time to time, UltraSite will prompt you to insert a different diskette into drive A:.
8. When UltraSite32 is finished copying files to the server, a notice will appear saying the computer will have to be rebooted. Remove the disk from drive A: and press OK. Installation of UltraSite32 Network to the server is complete.

### **Installing UltraSite32 on a Client Machine**

Client machines do NOT use the UltraSite32 installation diskettes. Once the network server has UltraSite32 installed, clients must run the installation program across the network from the server's UltraSite32 program directory. Running the installation program from the server automatically links the client's version of UltraSite32 to the common database on the server.

### Note

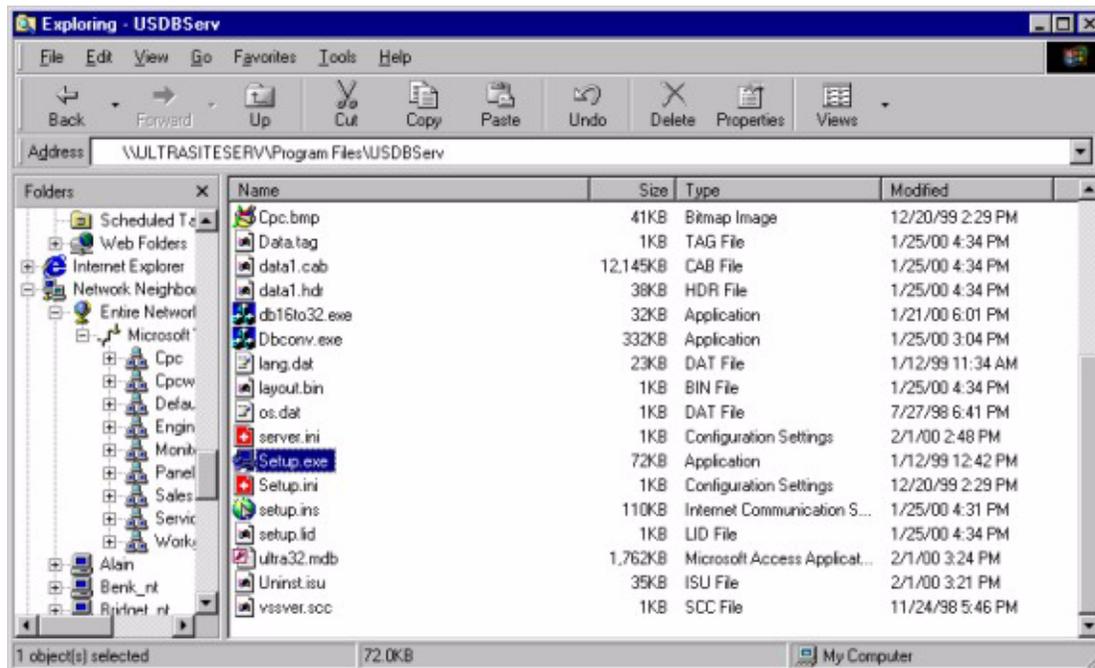
*If you are trying to upgrade an existing version of UltraSite32 client, do not follow these instructions. Refer to “Upgrading a Client After the Server Has Been Updated” on page 8 for instructions.*

1. Log on to the client PC (if necessary).
2. Using Windows Explorer, click on ‘Network Neighborhood’ and locate the server machine name on the network tree.
3. Double-click the machine name, and locate the folder on the server to which UltraSite32 was installed (usually C:\Program Files\USDBserver, unless changed during server installation). When you find this folder, double-click it so that its contents are shown in the right pane of the Windows Explorer window.

### Note

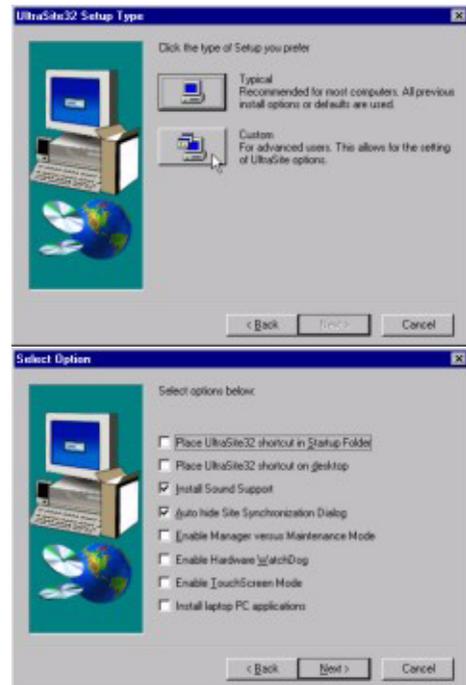
*If the server’s UltraSite32 directory is not visible, it might be because the server’s drive or directory is not set up as ‘shared’ on the network. Consult your network administrator for help with setting up sharing.*

4. Locate the file or icon labeled setup .exe. Double-click this icon to begin UltraSite32 client installation.



5. When the “Welcome” dialog box appears, close all applications that are currently open on the server PC. When finished, click the Next button.

- The Choose Destination Location dialog box allows you to specify what directory will hold the UltraSite32 program files and database. The default directory is C:\Program Files\UltraSite32. If you want to choose a different directory for installation, click Browse. When finished, click the Next button.
- The UltraSite32 Setup Type dialog box gives you the option of either a “Typical” or a “Custom” installation. Click the “Custom” button.



- The Setup Option box gives you a list of check boxes. To enable any of the features shown in this dialog box, put a check in the appropriate box. The options are:

**Place UltraSite32 shortcut in Startup Folder.** This option will cause UltraSite32 to start automatically when the client PC is started up. This setting should be checked for touchscreen PCs or other computers that remain always connected to the UltraSite32 network server.

**Place UltraSite32 shortcut on desktop.** This option places a shortcut on your desktop for easier launching of UltraSite32.

**Install sound support.** If the client PC is equipped with a sound card, you may select this option to enable audible system messages.

**Auto-hide Site Synchronization Dialog.** Because site synchronization can sometimes be a lengthy process, this option keeps the dialog box from appearing on the screen during site synchronization.

**Enable Manager versus Maintenance Mode.** When this option is checked, UltraSite32 will allow you to turn on “manager mode” for certain lower security access levels on this client PC. Manager mode works with custom floorplan screens and features an enhanced interface designed to allow floor managers easier access to status information and alarms. If this option is checked, you will have to choose which access levels will use “Manager” and which levels will use normal UltraSite, or “Maintenance,” mode (see step 9).

**Enable Hardware Watchdog.** If you have a Panel PC 120/140 touchscreen, or if your client PC has an Applied Digital WDTB peripheral board, check this box if you want to reboot the client computer in the unlikely event of software lock-up. You will have to specify what type of watchdog hardware is present on the client PC (see step 10). You may also have to configure your touchscreen or your watchdog hardware to enable rebooting; consult the manufacturer’s instructions for more information.

**Enable Touchscreen Mode.** Check this box if the client PC is a touchscreen.

**Install laptop PC applications.** Check this box if the client PC is a laptop or notebook computer. This option installs special applications that allow local database copying and stand-alone editing.

Click “Next” when all desired options are checked.

9. If you enabled “Manager versus Maintenance Mode” in the previous step, you must select the dividing line between the Manager Mode access levels and the Maintenance Mode access levels. The level you select in this dialog box AND all levels higher than the selected level will be the Maintenance Mode access levels (meaning all who log in at that access level will operate in Maintenance Mode). All levels lower than the selected level will be Manager Mode access levels. When you have selected the desired level, click “Next.”



10. If you checked the “Enable Hardware Watchdog” box in step 8, the Select Hardware Watchdog Type dialog box will appear. Select the type of hardware used by the client PC. If none of the devices match the description of your watchdog hardware, chances are you do not have hardware compatible with UltraSite32; click the Disable Hardware Watchdog feature. When finished, click “Next.”



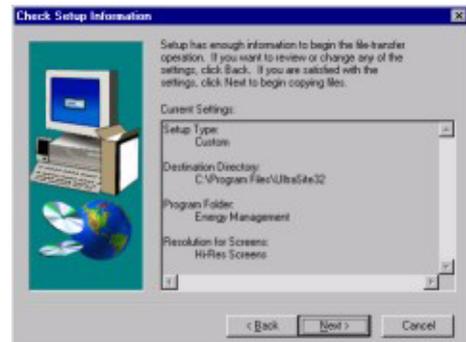
11. In the Select Resolution for Screens dialog box, choose the desired display resolution. The default value is automatically predetermined by UltraSite32 based on your Windows display settings. If UltraSite32 has chosen “Low” resolution for the client PC, do not change the resolution to “High” unless you’re absolutely sure the client PC’s display can operate at that resolution. Click “Next” when the desired resolution is selected.



12. Choose a Program Folder to install the UltraSite32 shortcuts to. The default is “Energy Management.”



13. Verify the Setup Type, Destination Directory, Program Folder, and Screen Resolution are correct in the Check Setup Information dialog box. If correct, click Next to begin installation. If one or more settings need to be changed, you may use the Back button to scroll backwards through the installation process.



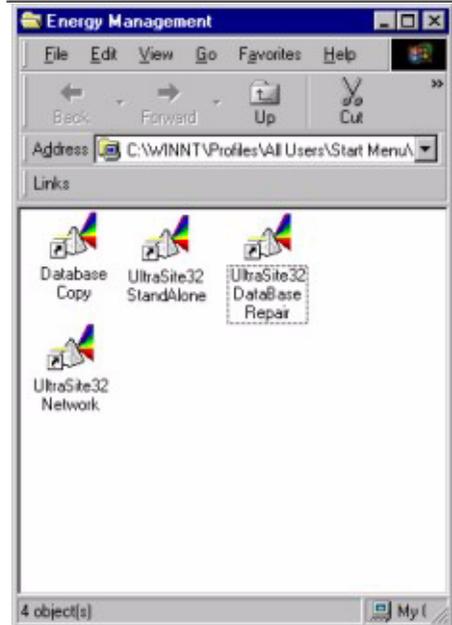
14. UltraSite32 will begin copying the necessary files to the client PC. When finished, UltraSite32 will create the program folder and insert the following shortcuts:

**UltraSite32 Network.** Select this option to start UltraSite using the network server's database.

**UltraSite32 Database Repair.** This shortcut is used by trained personnel to repair damaged UltraSite32 databases.

**Database Copy (Laptops Only).** This shortcut copies the database from the server to the client's local hard drive. This allows laptop users to use UltraSite32 in stand-alone mode while traveling.

**UltraSite32 StandAlone (Laptops Only).** This shortcut starts UltraSite32 using the database on the client's local hard drive. UltraSite32 will run in stand-alone mode only if you've copied the ultra32.mdb database from the server to your laptop (use the Database Copy utility to do this).



Setup of UltraSite32 Network is now complete.

## Upgrading an Existing UltraSite32 Network Installation

Upgrading a network installation of UltraSite32 is fast and easy. All client copies of UltraSite32 automatically upgrade themselves to the latest revision whenever the server is upgraded. Therefore, all you need to do is install the new UltraSite32 version on the server.

### Upgrading a Server to a Newer Version of UltraSite32

1. Close UltraSite32 on the server and on all UltraSite32 client programs running on all client PCs. Simply logging out of UltraSite is not enough; you must make sure UltraSite32 is completely closed. If you aren't sure, look at your Windows Taskbar. If you see an UltraSite32 icon on the taskbar, you haven't properly closed UltraSite32.

2. Insert the first diskette of the UltraSite32 Network installation diskettes into the server's A: drive. Follow the steps outlined in "Installing UltraSite32 on the Server (Windows 95/98/NT)" on page 3.
3. At one point during the upgrade process, UltraSite32 will ask if you wish to write over the existing database. Select "No." DO NOT SELECT "YES" unless you want all data from your database to be deleted, including logs, alarms, reports, and site/unit configuration information.



### **Upgrading a Client After the Server Has Been Updated**

1. Log on to the client PC (if necessary) and open UltraSite32 Network.
2. UltraSite32 should automatically detect that the server has been upgraded to a newer version. Follow the prompts to update the client to the latest version. Refer to "Installing UltraSite32 on a Client Machine" on page 3 for installation instructions.
3. During the installation process, when UltraSite32 asks whether you want a Typical or Custom installation, choose "Typical." UltraSite32 remembers the installation options you chose when you first installed UltraSite32 on the client PC, and it will enable these options automatically when you choose "Typical."



### **Installing UltraSite32 Network Using a Database from a Stand-Alone Version of UltraSite**

If you have previously used a stand-alone PC running UltraSite or UltraSite32 to interact with the CPC site controllers, you may wish to carry over the database from the stand-alone UltraSite version to use on the UltraSite32 Network server.

Before you attempt a data carry-over, you must perform the following steps:

1. Log in to the PC whose database you wish to carry over to the server, and open UltraSite.
2. In the main toolbar at the top of the screen, select Help > About UltraSite.
3. In the About UltraSite box that appears, look at the UltraSite version number. This number will tell you whether the PC is using UltraSite32 (32-bit) or UltraSite (16-bit).

If the version number shown is 2.0 or above, the PC is running UltraSite32 — refer to "Copying Over a Database from UltraSite32 Stand-Alone to a Network Server" on page 9. Otherwise, the PC is running the 16-bit version — refer to "Copying Over a Database from UltraSite 16-bit to a Network Server" on page 9.

4. If the About UltraSite box shows the Database Location, write this path down for future reference. You will need this information to find and copy the path later.

### **Copying Over a Database from UltraSite32 Stand-Alone to a Network Server**

1. Install UltraSite32 Network to the PC that will be the network server (refer to “Installing UltraSite32 on the Server (Windows 95/98/NT)” on page 3), **but do not click “OK” when UltraSite32 tells you to reboot your machine.**

#### *Note*

*If the network server and the PC that holds the database are the same machine, don't worry; the database will not be copied over when the network server software is installed.*

2. On the PC that holds the database, open Windows Explorer, and follow the Database Location path you wrote down from the About UltraSite dialog box (usually C:\Program Files\UltraSite32). Locate the file `ultra32.mdb`.
3. Copy `ultra32.mdb` from the PC to the UltraSite32 working directory on the server machine (usually C:\Program Files\USDBServ). If Windows Explorer asks you if you want to overwrite the existing `ultra32.mdb`, select “Yes.”
4. Return to the UltraSite32 installation screen on the server PC, and press the “OK” button to reboot.

Your UltraSite32 Network installation will now use the database from your old copy of UltraSite32.

### **Copying Over a Database from UltraSite 16-bit to a Network Server**

The process of using a database from a 16-bit version of UltraSite is trickier than using a database from an old copy of UltraSite32. The database used by UltraSite 16-bit, called `ultra.mdb`, must be converted to a 32-bit database before UltraSite32 will be able to use it.

1. If an UltraSite32 Network server has not yet been set up, install UltraSite32 Network to your server PC (refer to “Installing UltraSite32 on the Server (Windows 95/98/NT)” on page 3), **but do not click “OK” when UltraSite32 tells you to reboot your machine.**
2. Open Windows Explorer on the PC that has the UltraSite 16-bit version. Locate the UltraSite working folder (usually C:\Program Files\UltraSite, or C:\Ultra). Double-click this folder to display its contents in Windows Explorer.
3. Copy the file `ultra.mdb` from the PC with UltraSite 16 bit to a temporary directory on the server PC. You may want to create a special directory on the server (such as C:\ultratemp) to hold the 16-bit database. You can delete the directory and the database when finished with the conversion.
4. On the server PC, click the “Start” button in Windows 95, and choose the “Run” option.

5. In the Run dialog box, click the "Browse" button, and locate the UltraSite32 Network server working folder (usually C:\Program Files\USDBServ). In this folder, locate the file named db16to32. Click this file name to highlight it, and then press OK. If done correctly, the file name and path of db16to32 should be displayed in the Open field.
6. Click once on the Open field to highlight the path name, and then click again to make a text editing cursor appear. Add the following text to the end of the path and file name:

-s<path of folder that holds the 16-bit database>

-d<path of UltraSite32 Network server working folder>

For example, if you put ultra.mdb in C:\ultratemp, and your UltraSite32 Network server directory is C:\Program Files\USDBServ, you would add the following text to the Open field:

-sC:\ultratemp -dC:\Program Files\USDBServ

Do not put any spaces between the -s and the pathname, or the -d and the pathname.

7. When finished, the text in the Run dialog box should look something like this (although the pathnames for your particular installation may be different):

```
"C:\Program Files\USDBServ\db16to32.exe" -sC:\ultratemp -dC:\Program Files\USDBServ
```

Click the OK button to begin database conversion. When finished, UltraSite32 will have converted the 16-bit database to a 32-bit database and copied it to the UltraSite32 Network server directory.

8. On the server PC, return to the installation screen and press OK to reboot the computer.

Your UltraSite32 Network installation will now use the database from your old copy of UltraSite 16-bit.