

# Firebird T-Sync

Keep your PC clock inline with the rest of the world!

Firebird T-Sync is a 32-bit Windows95/98/NT4 Internet (Winsock) application which will connect any time server and return it's time value. It compares this value to your PC clock and displays the difference. You can synchronize your PC Clock to this time and even continuously check it to make sure your clock is always correct. Firebird T-Sync even supports command line arguments for total hands free usage.

Included with Firebird T-Sync is a collection of time servers from all over the world which you can modify and grow if you wish.

Firebird T-Sync is a completely free fully functional application. What's the catch? Well it carries a small non-imposing advertisement. In return we can offer you fully supported feature rich software. We'd like to know what you think of this approach.

## **Requirements:**

Firebird T-Sync requires either Windows 95, 98 or NT4. If you using NT4 then you must have Service Pack 3 installed. Other requirements include internet access.

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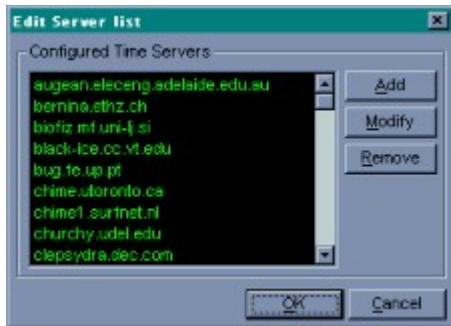
## Configuring and Using Firebird T-Sync

Firebird T-Sync comes complete with a list of servers, all you have to do is select the one you wish to use.



### Options and commands:

- **Automatically Update System Clock**  
Choose this option if you want to synchronize your PC-Clock with the selected server. Firebird T-Sync will automatically make the change, if required.
- **Automatically Check ....**  
If you have selected to Automatically Update the system clock then you can choose to get Firebird T-Sync to update your system clock at a set interval. The interval is in minutes and the range is 1 to 30 minutes. If you have selected this option then you can minimize it and Firebird T-Sync will do the rest.
- **Check Now!**  
Once you have selected a server you can check the time difference (if any) by clicking this button. If you have chosen to Automatically Check then this button will say Start. If you click this then Firebird T-Sync will begin checking at the decided interval. The button caption will then change to Stop. Click it in this state will cause it to drop out of the Auto check loop.
- **Comparison Details**  
This area shows the data received from the selected server and the local time settings. Any errors that occur will also be shown here.



### Edit Server List

If you wish to maintain the list of servers then click here. It will present the following dialog:

Add, remove or modify the list as you wish. To save the settings just click OK otherwise click cancel.

- **Help**  
Brings up this information
- **Close**  
Use this command to shut down Firebird T-Sync. All settings will be saved including any modifications you have made to the server list.

### Usage:

Once you have selected and understand the various options just make your selections / choose your options and click either Check Now! Or Start.

### Possible errors:

- **Unable to connect to host:**  
If a server is unavailable at the time of checking or if you are not online you will get an error saying that Firebird T-Sync was unable to connect to the host. To work around this make sure that you are online and / or choose a valid server.
- **The time is out by one hour or more:**  
If the time appears to be wrong (typically by one hour) then make sure that your Time Zone settings (including Day Light saving options) are correct in Control Panel. Time servers report time in the UTC/GMT (Greenwich Mean Time) format.

## Command Line Usage

Firebird T-Sync can be run from the command line to automatically update your clock without the need for user intervention. The available commands are:

- **UpdateAndSync**  
Use this when you do not require any feedback, just a straight clock update. The Optional Parameter =timeserver address. See below for an example.
- **UpdateAndReport**  
Use this when you do require feedback such as time difference. The Optional Parameter =timeserver address. See below for an example.

By creating a shortcut to Firebird T-Sync with the either of the keywords, *UpdateAndSync* or *UpdateAndReport* on the shortcut command line and then placing shortcut in your Start folder, the application will in the background automatically attempt to connect to the time server and update your PC clock every time you start Win95/98/NT4. After updating the clock, the application will then exit. Here is an example shortcut:

```
C:\Program Files\Firebird\T-Sync\fbtsync.exe UpdateAndSync=tick.mit.edu
```

This will start Firebird T-Sync and tell it to automatically update the system clock using tick.mit.edu as the time server. Firebird T-Sync can also be run without specifying a time server. When this is the case the first time server on the configured server list will be used. Here is an example shortcut:

```
C:\Program Files\Firebird\T-Sync\fbtsync.exe UpdateAndSync
```

Alternatively you could use the UpdateAndReport command. Firebird T-Sync will then report the difference between the configured time server and your PC clock before closing. Usage is exactly the same as UpdateAndSync.

If you'd like to have this application update your clock automatically, but not every time you start Win95 and you have the Win95 Plus! Pack installed, use the System Agent application to schedule when to run Firebird T-Sync, with either command line parameter. If you do not specify one then it will launch in normal mode.

## Introduction

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## Technical Support

### Technical Support & Wish List

If you have any problems or have found any bugs then please do tell me about them. Also if there's any feature you'd like to see included then also forward it to me.

When requesting support please include as much information about your system as possible.

### Contact Information

Website address: Firebird Software <http://www.firebird.net/Alive.html>

Email: [support@firebird.net](mailto:support@firebird.net)

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