

Setup: Time Sync Setup Instructions

Xtreme supports two methods for time sync of the PC clock, including:

1. a time sync closure (from a satellite receiver) or
2. Automatic Time Sync Using the Internet.

The recommended procedure for Digilink Xtreme is to use Windows XP's own web based built in time sync. This is atomic time and is the most accurate possible. (See "Windows Time Sync Procedure", below.) If you have not connected your PC to a broadband Internet connection, the alternative it to use the satellite receiver provided Time Sync (i.e. using an ID closure or other time sync closure). This sets the PC's system clock to the exact minute and second of the sync time.

Manual References:

- Pages: 2-6b #h), 10-1 #4
- Bridge Manual, Page 14-10, Item E3

Time Sync by Satellite Closure

In order to use satellite time sync, you will need to;

- a) wire the satellite receiver's appropriate closure to the special Time Sync pin on the Bridge, and
- b) set the Time Sync option in the Xtreme software Setup screen.

Connection to Satellite Receiver:

To connect a time sync closure, see the Bridge Manual, page 14-10, item "e) Record Logic". As noted, it is necessary to wire a momentary closure from Pin #3 to ground on the Record Logic connector. If you are using the Legal ID pin on your satellite receiver for both legal ID and time sync, make sure to wire the sat logic connector's (ID) pin and to the Record Logic time sync pin.

For assistance in wiring, if needed,
please contact factory support for the Arrakis Bridge at (970)461-0730 #316.

Time Sync Software Setup

To enable closure based time sync in Xtreme.exe,

- a) select Menu,
- b) Select Setup,
- c) Select the Time Sync option.
(If the Time Sync option is already enabled (a check mark is displayed beside the option if it is currently selected), you will need to clear the current setting, then click to enable it again.)

A window will open

- d) Enter in the Sync time as MM:SS, where
MM can be any of the following 4 minutes in the hour: 00, 29, 30, or 59.
SS can be any second from 00-59
The closure must be received within in the minute entered.
The actual time adjustment is implemented 90 seconds later.

Note: The 00, 29, 30 and 59 minute sync time options are all supported in versions 1.0.5 and higher. Only the 59 minute sync time option is supported in versions prior to 1.0.5 (May, 2005).

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Windows Time Sync Procedure

How to set up time sync auto in Windows XP:

- 1) Double (left) click on time in sys tray
 - 2) Click (left) on Internet time
 - 3) Click (left) to enable "automatically synchronize with an internet time server".
A check mark should be displayed beside "automatically synchronize with an internet time server".
 - 4) Click (left) on "update now" to test.
A confirmation message will appear below the update now button confirming if the time sync is or is not working.
 - 5) Open Xtreme's Setup Screen (Menu/Setup).
 - 6) Make sure that the option for Time Sync is not checked.
(This is only for satellite closure sync.)
If it is currently enabled (checked) , click (left) on it to disable.
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Changing How Frequently Windows Performs A Time Sync

By default, Windows XP will perform an Internet Time Sync once per week. The following procedure will allow you to change this to once per hour.

This procedure requires that you change the system registry. Therefore, it is strongly recommended that :
a) before proceeding you create a System Restore Point, and
b) you create a backup of your Registry as noted below.

1) Start the Registry Editor Program

- Click on the START button
- Click on RUN
- Enter> regedit
(this opens up the registry editor)

2) Backup the Registry before proceeding further

- For instructions,
 - click on Help,
 - then Help Topics,
 - then the Index tab, and
 - type "backing"

3) Open each of the following folders:

- HKEY_LOCAL_MACHINE
- SYSTEM
- CurrentControlSet
- Services
- w32time
- TimeProviders
- NtpClient

4) Edit the Time Sync Interval Setting

- Look at panel on the right side of window
- Double click on SpecialPollInterval
(This opens the Edit DWORD Value Box.)
- Click on the Decimal option
(This displays the Time update interval in seconds.
The default value is 60480... the number of seconds in a week.)
- Change the value from 60480 to 3600 (The # of seconds in an hour)
- Click on the OK button
- Close the Registry Editor by clicking on the X button in the top right corner.

5) Confirm that your changes have been accurate

- Open the Windows Date and Time Properties window by double clicking on the time displayed in the SysTray (bottom right corner of the XP Task Bar.)
- Select the Internet Time tab.
- Check that the "Next Synchronization:" will occur in 1 hour.
If not, restart windows and check again.