TECHNICAL TIPS

PRODUCT: **BioLock+ Standalone**

Subject: **Time/date setting**

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Revision: **3**

Standalone BioLocks use their internal time/date settings for correctly logging various events (such as finger verifications, log-ins etc).

If the time is not set when powered up, then the Biolock+ will start its internal clock from January 1st, 1970.

The time and date setting can be manual, whereby the current time and date is entered by an administrator logging into the built-in web-server.

However if the device is connected to a network, then the Network Time Protocol (**'NTP'**) may be used to automatically update the BioLock's time and date. The NTP system is an Internet standard, more information about which is available from http://www.ntp.org/. To use it, your BioLock must be connected to a network with Internet access, specifically via UDP port 123. The BioLock must also have the correct Gateway setting in its Configuration web page.

NTP servers are generally free to use, you should select one that is in your local timezone/state. Their time is generated ultimately from atomic clocks, so should be easily adequate for typical uses. It is important to enter the "resolved" IP address of an NTP server (it will be in the form or numbers like 123.321.231.132), not an alphabetic string such as www.pool.ntpserver.org.

For updating time/dates on a device that is not connected to the Internet, it is possible to get a standard Windows XP PC to act as an NTP server (so that the internal PC clock becomes the NTP time). For details, see the Microsoft website http://support.microsoft.com/kb/314054 although some amount of Windows technical knowledge may be required.

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Note that if a BioLock is factory-reset, the time/network/NTP settings will be lost and need to be entered again.

Note that public NTP timeservers may not always be available and should the specified server not be available when the BioLock powers up then the BioLock time setting will be incorrect until the BioLock reaches the NTP server during one of its scheduled updates (every 2 hours). In any time-critical application, the administrator should login to the BioLock after a power cycle to ensure that the time has indeed been updated.

FURTHER INFORMATION:

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Bio Recognition Systems Pty Ltd is a 100% Australian owned and operated hardware and software developer and manufacturer. Located in Lane Cove, Sydney, Bio Recognition Systems Pty Ltd began by offering its customers software and hardware solutions in 1999. Its leading edge BioMetric technology harnesses the power of the newest technology in fingerprint recognition.