LOGIC BEACH, Inc.
Instruments designed with the User in mind

SOFTWARE RELEASE NOTES

Product: IntelliLogger Firmware, Version 1.17.4.1

Release Date: 7-31-2009

FIRMWARE COMPATIBITLITY:

This firmware release is compatible with HyperWare-II versions containing '**17**' as the second digit in the HyperWare-II version number.

Note: It is always recommended to update IntelliLogger firmware and HyperWare-II to the latest version if possible.

MODIFICATIONS CONTAINED IN THIS CODE SET:

A modification was made to allow the IntelliLogger's sampling rate, if set to approximately 100 milliseconds or faster, to slow to approximately 100 to 200 milliseconds during certain network tasks (FTP, email, and web server) so that they will execute as expected. Previously, the faster, sub 100 millisecond net scan periods could slow or interrupt those network tasks.

A bug was fixed where in some circumstances, requesting a session STOP from HyperWare-II could result in inconstant enable/stop states reported from the Hyperware front panel graphic, the IntelliLogger status dialog, and the IntelliLogger's LCD, and in more unusual circumstances, could result in Hyperware-II blocking execution of some of the IntelliLogger's functions.

The method for synchronizing data storage with network operations was updated so there is no reduction of the sample count when sending frequent email messages or performing frequent FTP transfers. The old method used could result in a noticeably smaller sample count during these operations.

Program nets including an FTP icon will no longer perform an FTP operation immediately upon session start. This would result in a data file containing a single sample and was more of an annoyance for customers than a problem. The first FTP operation will now be delayed until the first icon trigger.

The FTP task was updated to make it more robust in systems using unreliable message transport methods such as cellular modems.

Modifications to the system that logs data and stores it to Compact Flash (CF) memory were made to make it more robust during situations where the IntelliLogger is encountering frequent power failures. There should be no data loss when logging to a Logic Beach specified industrial-grade CF card or internal memory. Previously, the IntelliLogger's error correction algorithms would occasionally need to be invoked to correct data storage problems due to power failure. In some cases the problems could result in garbled or unreadable data. Most problems regarding this issue occurred with consumer-grade CF cards, the use of which is not advised in a system that is subject to power failures during a logging session. Consumer-grade CF cards have unreliable performance, which would cause data storage errors much more frequently.

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