Shepard Test Stand - Bug # 157: Time Stamp Bit Size Wrong On Arduino and Client

Status:	Feedback	**Priority:**	High
Author:	Jeremy Wright	**Category:**	
Created:	08/13/2013	**Assignee:**	Jeremy Wright
Updated:	01/06/2014	**Due date:**	
Subject:	Time Stamp Bit Size Wrong On Arduino and Client		

Description

On the client side (laptop) we have been reading the time stamp (via the millis function) as a signed integer. According to the documentation, we should be treating that value as an unsigned long, giving us up to 50 days before it rolls over.

http://arduino.cc/en/Reference/millis

To do this we'll have to account for the fact that a long on the Arduino is 32 bits. Currently we're only sending 16 bits over the wire to the client. Sending 32 bits will slow the data rate down slightly, but I'm not sure yet by how much.

History

09/12/2013 01:56 pm - Christopher Sigman

- Status changed from New to In Progress

I updated the Java code last night to account for this. Since the Arduino Wiring code has been updated as well, I think this issue should be moved to "feedback" for testing.

09/12/2013 08:44 pm - Jeremy Wright

- Status changed from In Progress to Feedback

Moved to feedback status per Chris' suggestion.

01/06/2014 01:51 pm - Jeremy Wright

- Target version changed from v1.1 Shepard Test Stand - Prototype to v1.0 Shepard Test Stand - Prototype

01/06/2014 01:54 pm - Jeremy Wright

- Target version changed from v1.0 Shepard Test Stand - Prototype to v2.0 Shepard Test Stand - Prototype