

# 1 Requirements

## Software version requirements

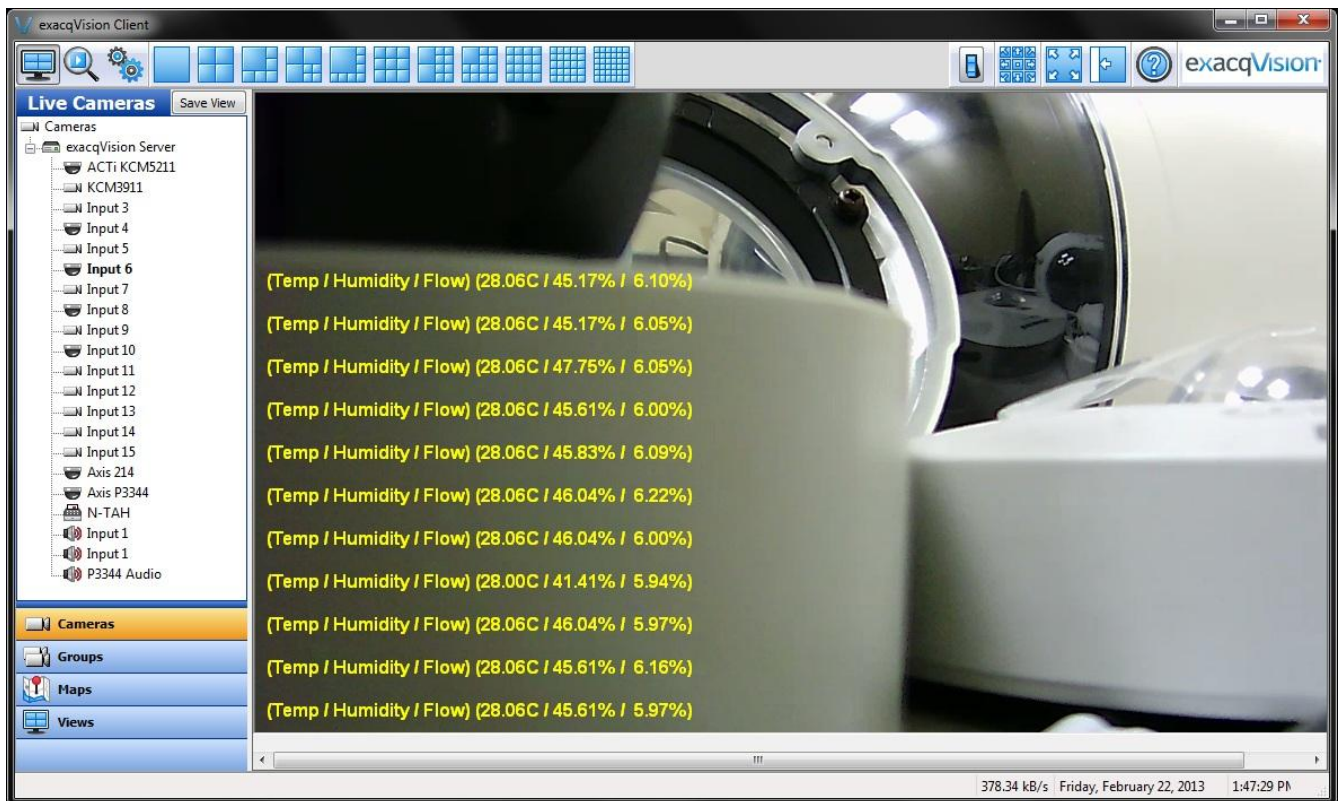
- exacqVision Client version 5.3.7 or greater
- exacqVision Server version 5.3.11 or greater
- AFI N-TAH unit with firmware 1.01

This document assumes that the N-TAH unit is being integrated with an existing exacqVision system with at least one camera configured.

# 2 Configuration

## Overview

The AFI N-TAH network-attached environment monitor does not require installation of any extra software to work with the exacqVision system. However, the exacqVision system must be configured to accept the serial data from the N-TAH unit. The result could be similar to this:

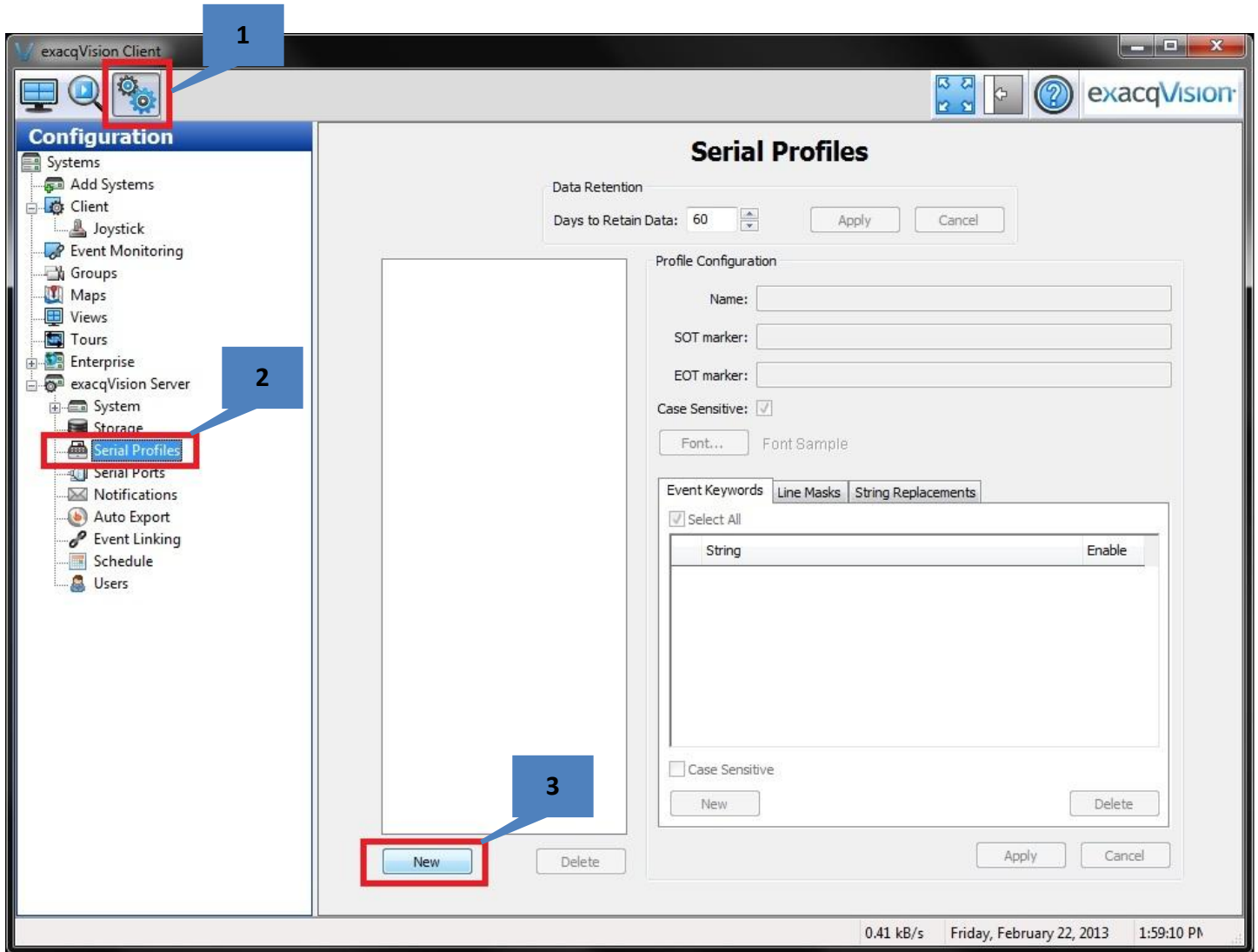


The following instructions are separated into two parts, one for the server and one for the client. All configuration is performed using the exacqVision Client application.

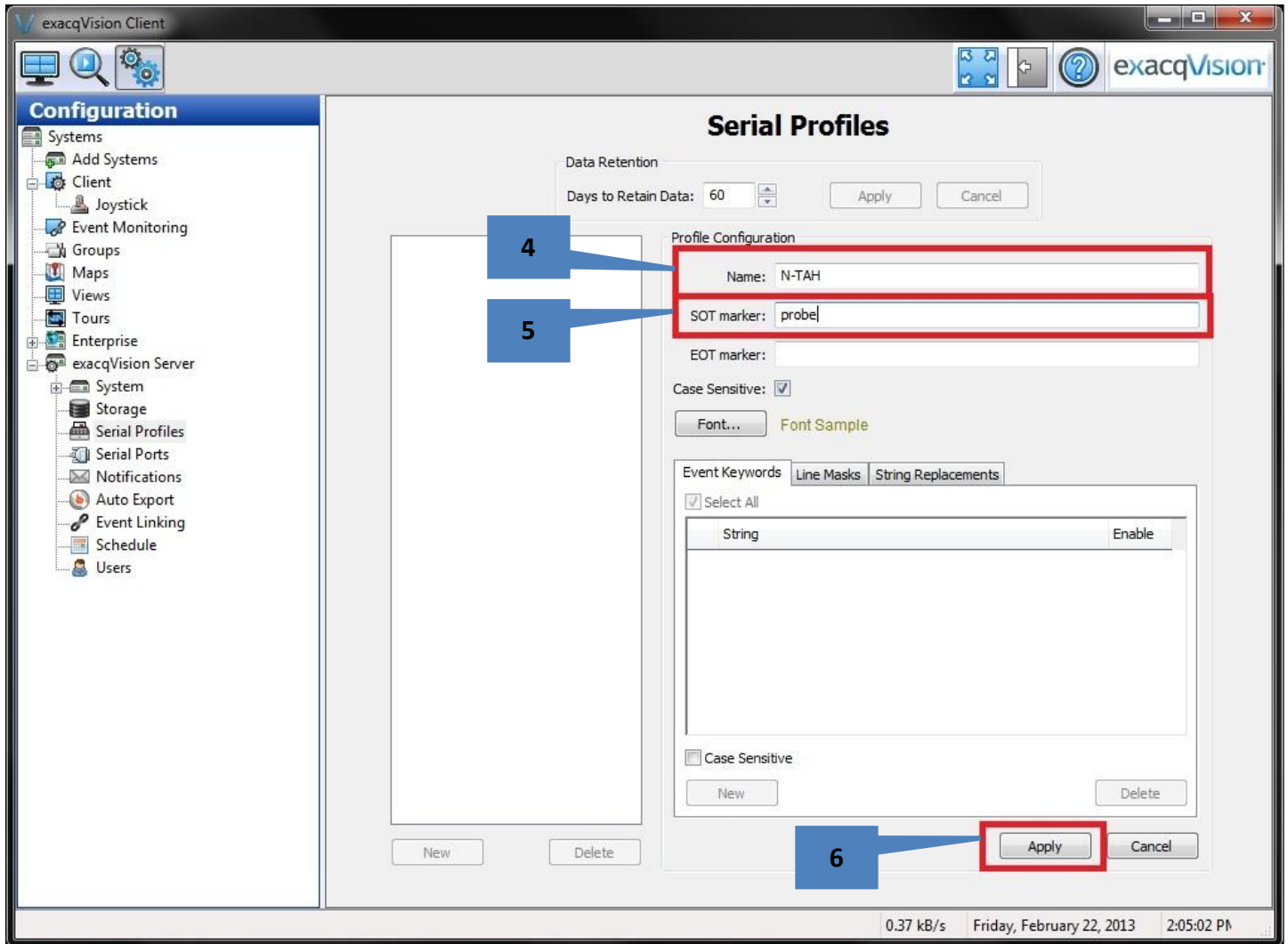
**Server**

To configure exacqVision Server, complete the following steps:

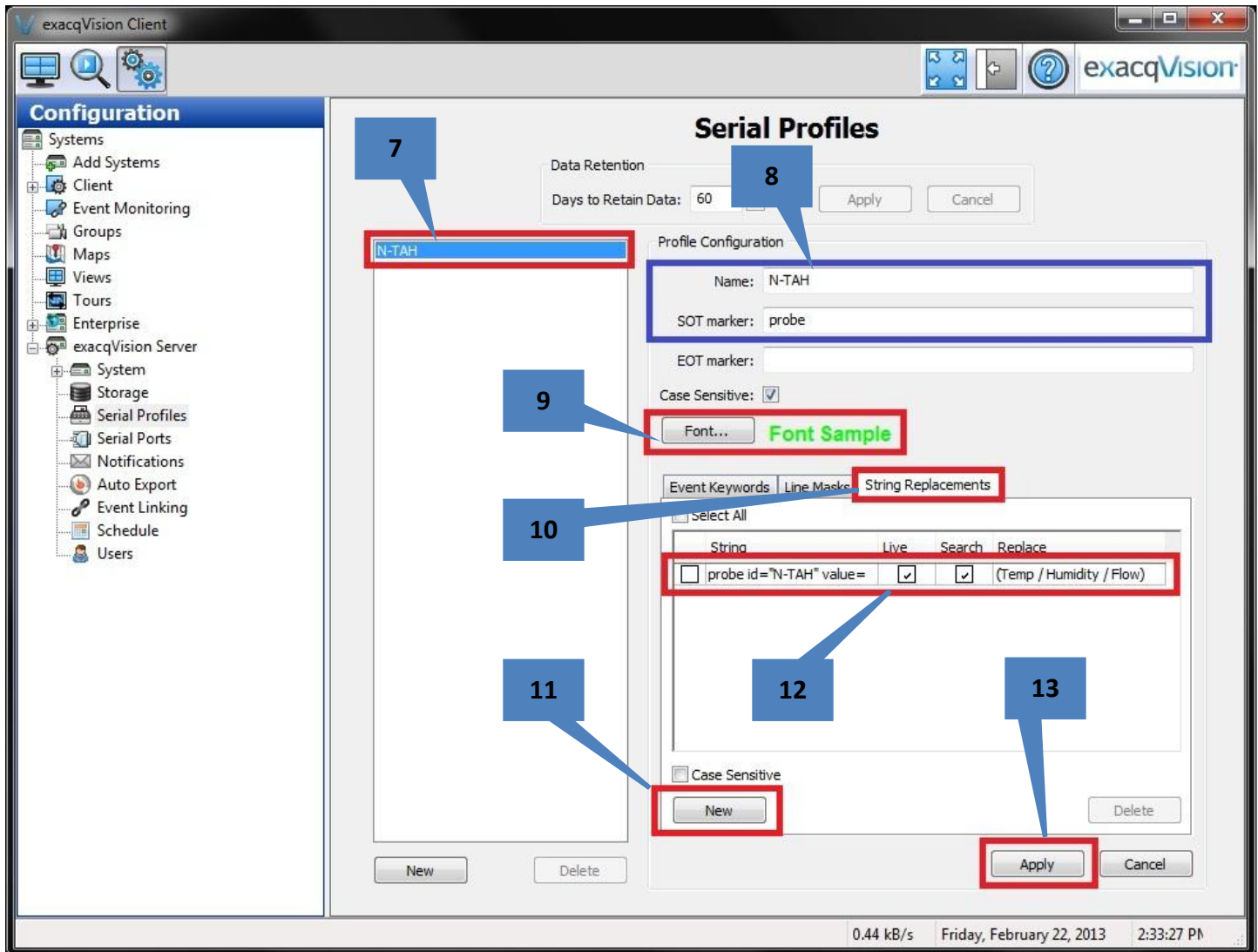
1. In exacqVision Client, click the Config (Setup) Page button.
2. Select Serial Profile from the tree, under the exacqVision Server.
3. Click New.



4. Enter a name for this serial profile. In this example, the name is “N-TAH.”
5. Enter an SOT (Start of Transaction) marker. This marker identifies the start of the desired data within a serial data string. The SOT marker is inclusive, meaning it will show up as part of the data. In this example, exacqVision will start the transaction when the word “probe” appears in the serial string.
6. Click Apply.



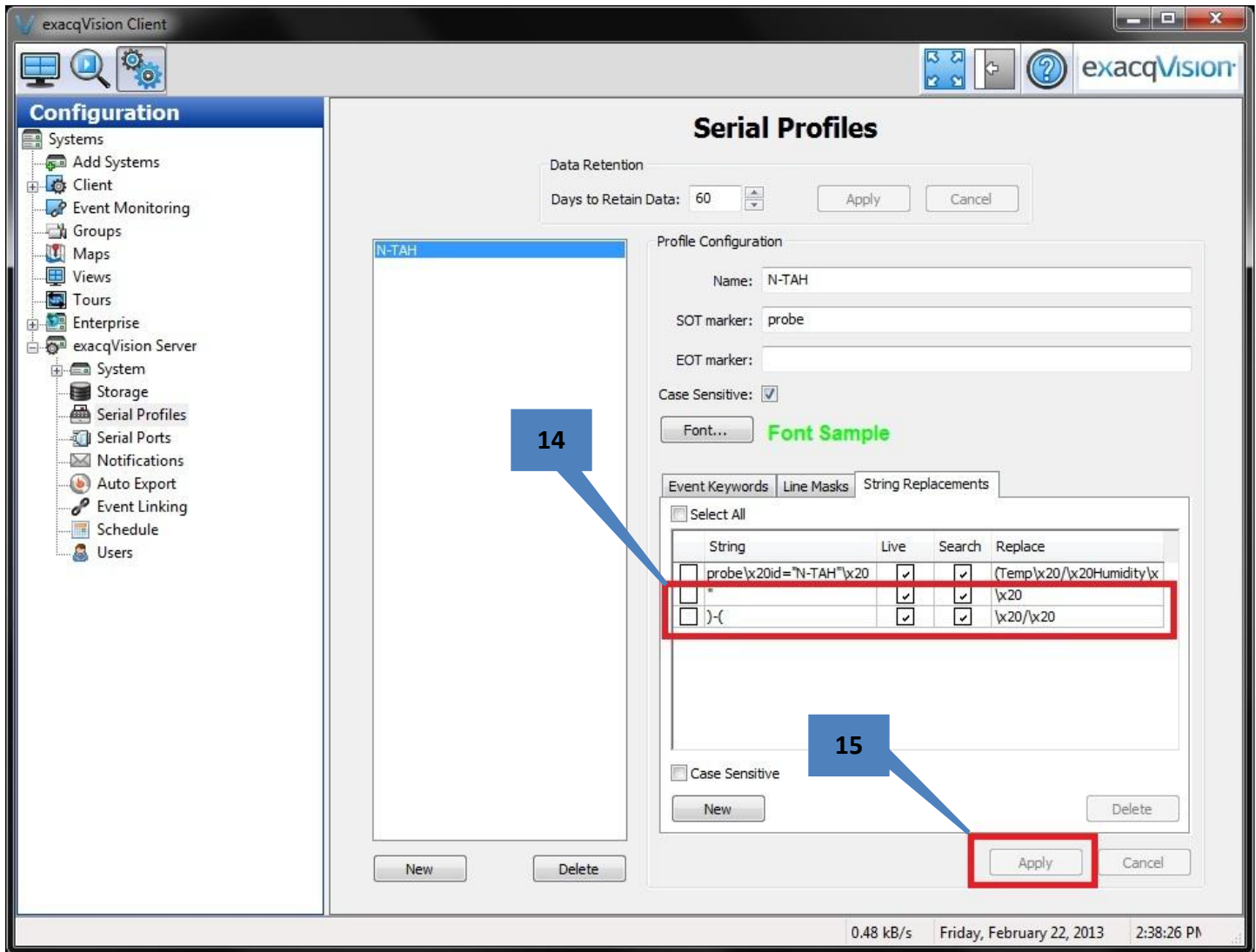
7. N-TAH is now displayed in the list of serial profiles. Select it from the list.
8. Verify that the Name and SOT Marker entries are correct
9. Click FONT to select a font that will be easily readable in highly variable camera backgrounds.
10. Select the String Replacements tab.
11. Click New.
12. Enter the string that exacqVision needs to identify in the serial data; this string will be replaced with the desired text entered in the Replace column. In this example, the text **probe id="N-TAH" value=** sent by the N-TAH unit in XML will be replaced by **(Temp / Humidity / Flow)**. Select both the Live and Search checkboxes.
13. Click Apply



14. Add two more entries to the String Replacements tab as shown in the figure below:

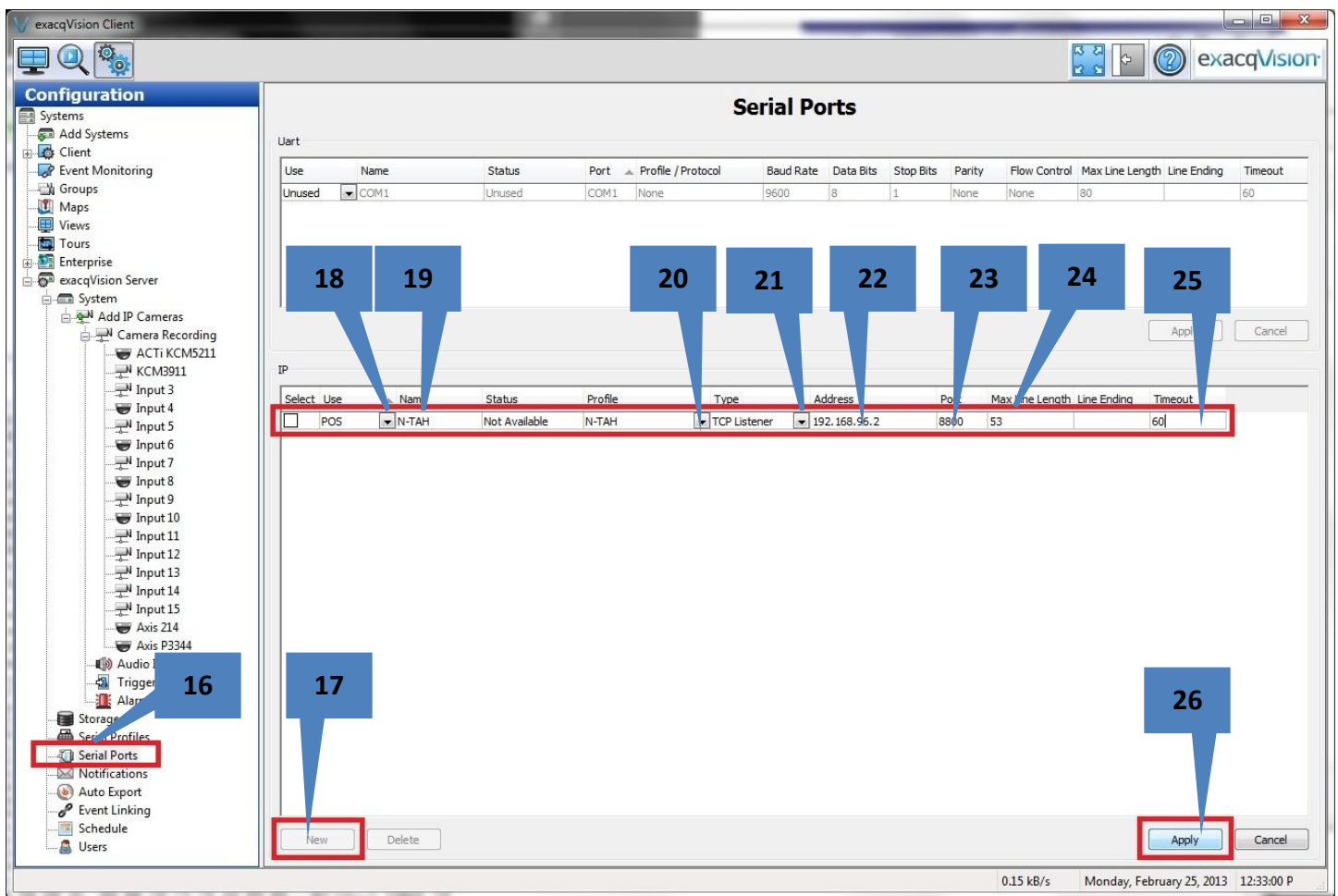
- a quotation mark in the String column and \x20 (a space in ASCII characters) in the Replace column.
- )-( in the String column and \x20/\x20 in the Replace column.

15. Click Apply.

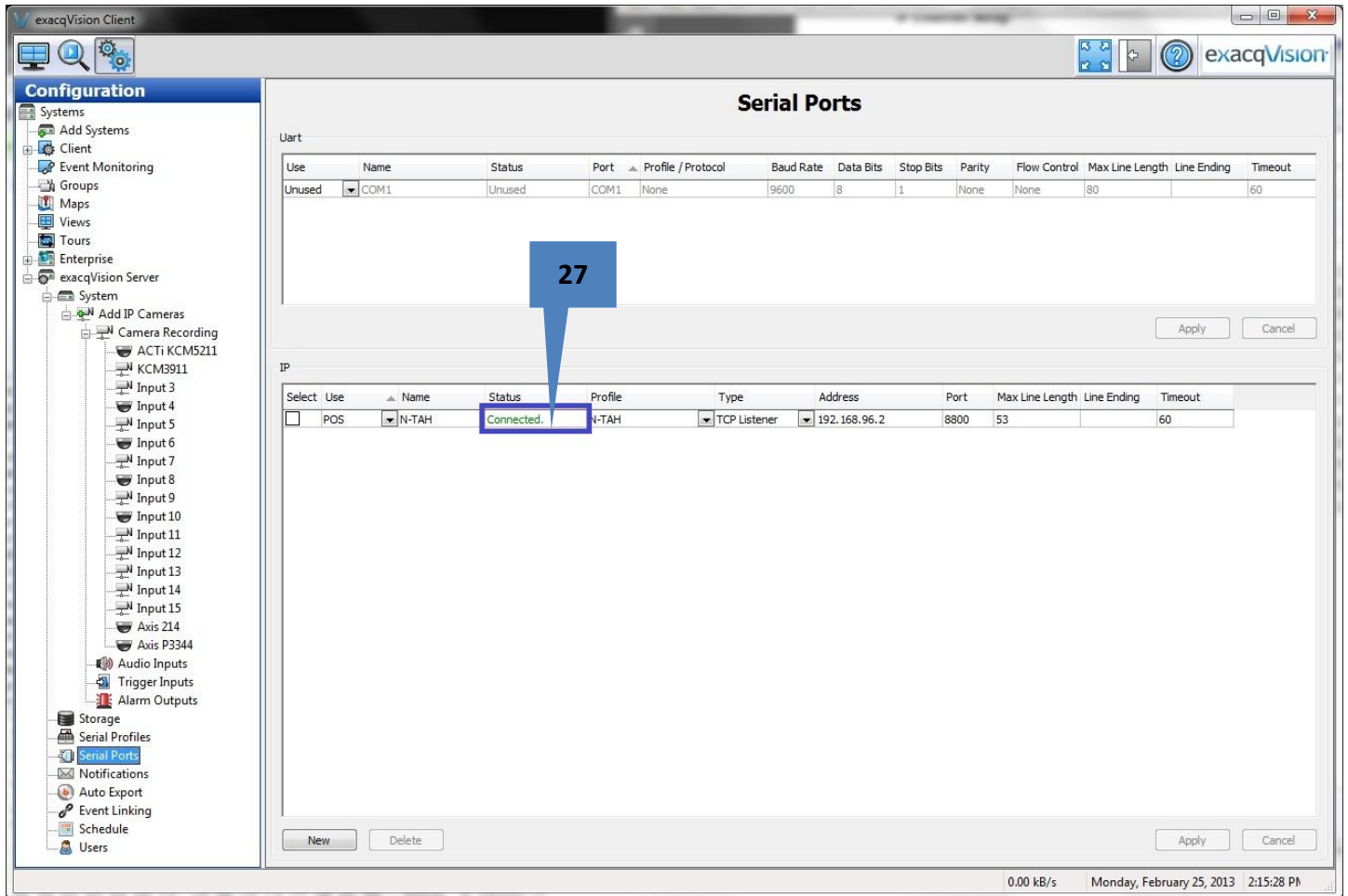




16. Select Serial Ports from the tree.
17. Click New.
18. Select POS (Point of Sale) from the drop-down list.
19. Type a descriptive name here. "N-TAH" is used in this example.
20. Choose the previously created profile from the Profile drop-down list. This will link this serial port definition with the serial profile.
21. Select TCP Listener from the Type drop-down list.
22. Enter the IP address of the N-TAH unit.
23. Enter the Port. The N-TAH unit is set to transmit periodically on port 8800.
24. Enter 53 for Max Line Length. This means that 53 characters (starting with the SOT marker defined in the Serial Profile setup) will be passed.
25. Enter 60 for Timeout.
26. Click Apply.



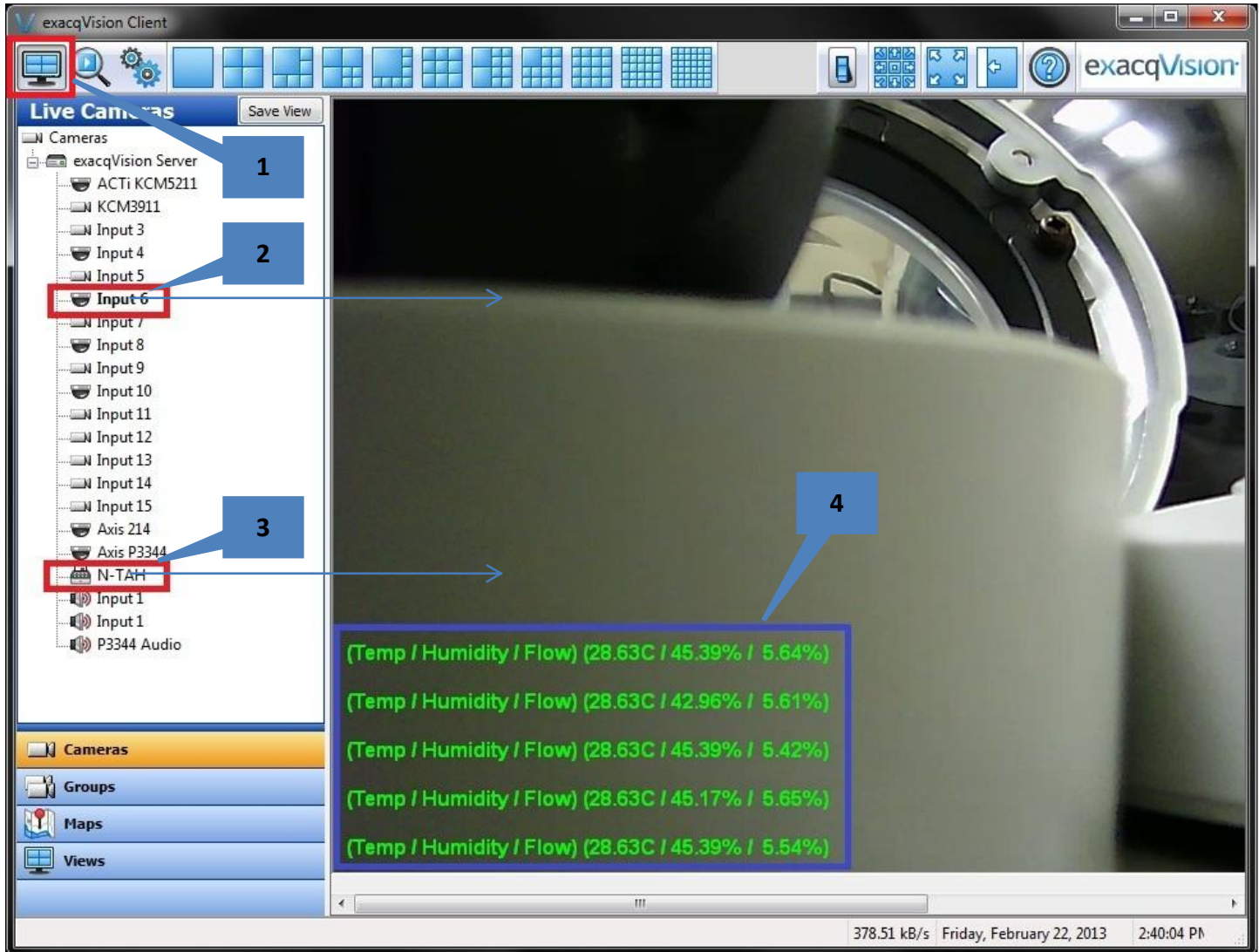
27. Verify that the Status changes from “Not Connected” to “Connecting” to “Connected.” This process could take several minutes.



Client

To configure the client, complete the following steps:

1. In exacqVision Client, click the Live Page button.
2. Click and drag any camera into one of the live video window.
3. Click and drag the N-TAH entry into the same video window.
4. Verify that the serial data is overlaid onto the camera live view. This data should look similar to the example below. If necessary, you can change the font on the Serial Profile page for easier viewing.



About Key Words

Using key word matching on the Serial Profiles page and event linking, you can configure actions such as recording from a certain camera if temperature, air flow, or humidity reaches certain values. To do this, enter key words sent by the N-TAH unit in clear text: "normal", "warning," or "alarm." See the *exacqVision User Manual* for more information about configuring key words.