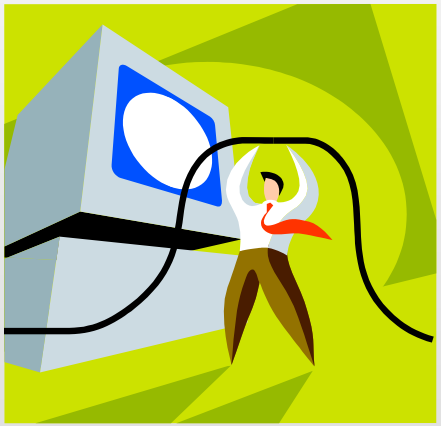
CLAREITY™ SECURITY LLC
Kansas City

SAFEMLS® Solutions



“PROTECTING MLS DATA AND CONSUMER PRIVACY”

Clareity Security LLC

MLS Bad Behavior (Why)

- Teenage son of a REALTOR®
- The local newspaper
- Potential real estate buyer
- Team-sharing of MLS services
- Appraisal company in Georgia
- Disgruntled administrative assistants

The common thread:
The user of the MLS ID wasn't the Owner of the MLS ID

Craigslist Posting (San Diego)

MLS SANDICOR APPRAISER REAL ESTATE

Reply to: comm-245314799@craigslist.org
Date: 2006-12-06, 10:32PM PST

NEED SOMEONE ELSE TO JOIN IN WITH ME AND 2 OTHERS TO PAY LESS FOR THE SAN DIEGO MLS.

IF YOUR NOT FAMILIAR WITH THE PRICE, IT'S [redacted] FOR THE YEAR FOR ONE PERSON. WITH 4 PEOPLE, IT'S [redacted] EACH. A LOT BETTER OF A DEAL.

EVERYBODY WINS.

FEEL FREE TO EMAIL ME.

Location: ORANGE COUNTY
It's NOT ok to contact this poster with services or other commercial interests

©2007 Clareity Security, LLC. All Rights Reserved.

Clareity Security LLC

Security – What are we Protecting?

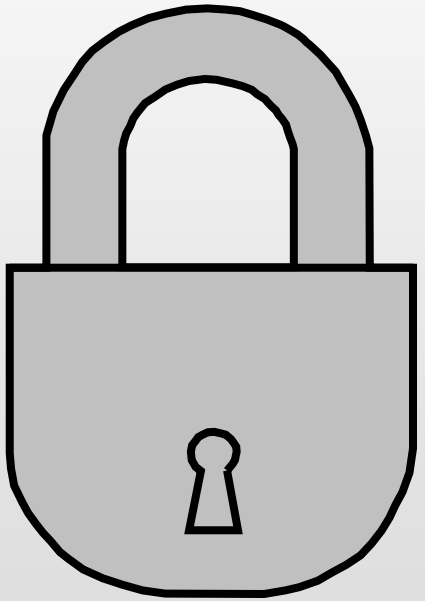
- **MLS DATABASE**
- **MLS servers and software (IP)**
- **3rd party data and IP**
- ***MEMBERSHIP & ACCOUNTING DATA***
- ***PRIVATE CONSUMER DATA***
- ***SENSITIVE SHOWING INSTRUCTIONS***
- ***Ability to conduct business***

Clarity Security LLC

The password risk

Passwords are Weak Because…

- Only one-factor authentication
- Easily hacked, stolen, borrowed, guessed or sniffed
- Borrowed passwords can easily propagate
- Difficult to remember and ***manage properly***
- Human nature makes passwords inherently weak



Clareity Security LLC

The Password Policy Dilemma

- I.T. can make you change your password every 30, 60, or 90 days
- Require complex passwords – oA16I8@CeC
- This increases forgotten passwords and help desk calls
- Users often circumvent these policies
  - Like by writing passwords down on Post-Its!!
- Defense Dept password policy is 30 pages long

Clareity Security LLC

What Security Have We Used?

- 90 – day password change
- Preventive multiple member log-in
- Complex Passwords

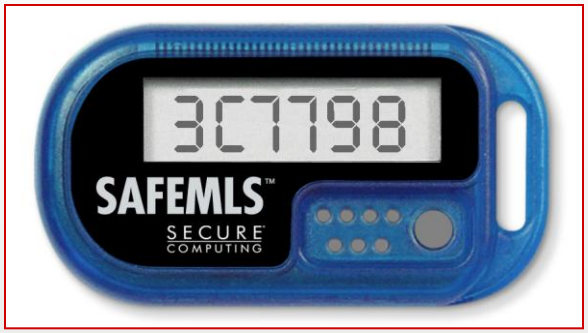
- These options were somewhat successful.

- The Board of Directors & Broker Leadership wanted Sandicor to find a more effective solution.

Board of Directors & Broker Leadership

- Sandicor implements decisions and polices as directed by the BOD
- The BOD is composed of reps from each of the five Association owners
- The decided 2 step authentication process has valid successful results with several MLS’

The Solution: SAFEMLS®



- Similar Technology
  - Automated Teller Machine
  - Sentrilock Lockboxes
- Strong Authentication
  - Combining something you know with something you have in your possession
  - You can't have one without the other

Clarity Security LLC

Who uses these products?

Secure remote access for 60,000+ users

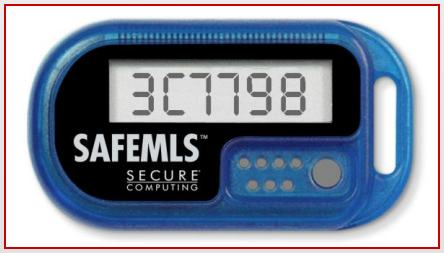
Authenticate $90B in cash management transactions daily for 1.2M+ users

Authenticate 30,000 employees from any location using multiple access methods.

Secure remote access for 40,000 users.

Authenticate 80,000 remote users, suppliers and business partners

Key Tokens/FOB History



- SCUR - NASDAQ
- Over 20 years experience
- DOD, NSA
- Dept of the US Navy
  - Torture test
  - Extreme weather
  - Dashboard
  - Washing machine
  - 5 year warranty
  - Battery life- 9 years

Silver vs. Alpine

Big vs. Small

Silver

Description: The original authenticator, the SAFEMLS® blue token, is convenient and easy to use. The slim line device measures about 1" X 2" and easily attaches to a key chain for quick access. Just press the small gray button to obtain a password!

Is it for you? The characters on the display window are large and easy to read. This token displays both letters and numbers.

Alpine

Description: Newly released hardware token. This new token is a slightly smaller form factor with a convenient carbiner clip for easy attachment to lanyards or key chains. Like the blue token, simply press the gray button to obtain a password!

Is it for you? The display area on this token has a magnified password display window. Password display is slightly smaller than the silver token and displays only numeric characters.

SAFEMLS Token Enrollment Process

You must register your Token

ONE TIME

Clarity Security LLC

1. Go to www.sandicor.com

Click on Tempo 5 Icon

2. Click on
Register your Security Token

Follow this step first before you log in

Clarity Security LLC

SafeMLS® Enrollment Agreement

Step 1:

Please enter your User ID#:

This is the same as you currently use to login to the Sandicor Tempo 5 system.

Step 2:

SANDICOR TEMPO MLS END-USER LICENSE AGREEMENT

This End-User License Agreement ("EULA") is a binding agreement between you ("You" or "Subscriber" or "Participant" or "Assistant") and SANDICOR, Inc., a California Corporation ("SANDICOR"). You are permitted access to the SANDICOR Tempo MLS System only by virtue of your assent to the terms of this EULA. If you decline to assent to the terms of this EULA, your use of the SANDICOR Tempo MLS System will terminate immediately.

SafeMLS® Enrollment Agreement Printer Friendly

Step 3:

I Agree

Clareity Security LLC

SAFEMLS® Enrollment

Step 1:

Your MLS Login ID: test111

This is the same login ID as you currently use to login to the MLS system.

Step 2:

Secret Questions (used to verify identity for lost/broken token replacement)

What is your birth city?

What is your birth year?

What is your mother's middle name?

Step 3:

Please enter your SAFEMLS® token's serial number:

Please re-enter your SAFEMLS® token's serial number:

Your SAFEMLS® Token serial number is on the back of the token device.

Step 4:

Please select a 4 digit PIN code:

Confirm your PIN code:

We recommend a code that you will easily remember such as your ATM or lockbox PIN code.

Step 5:

Enroll Token

Clareity Security LLC

Successful Enrollment!

Clareity Security LLC

How to Use your SAFEMLS Token

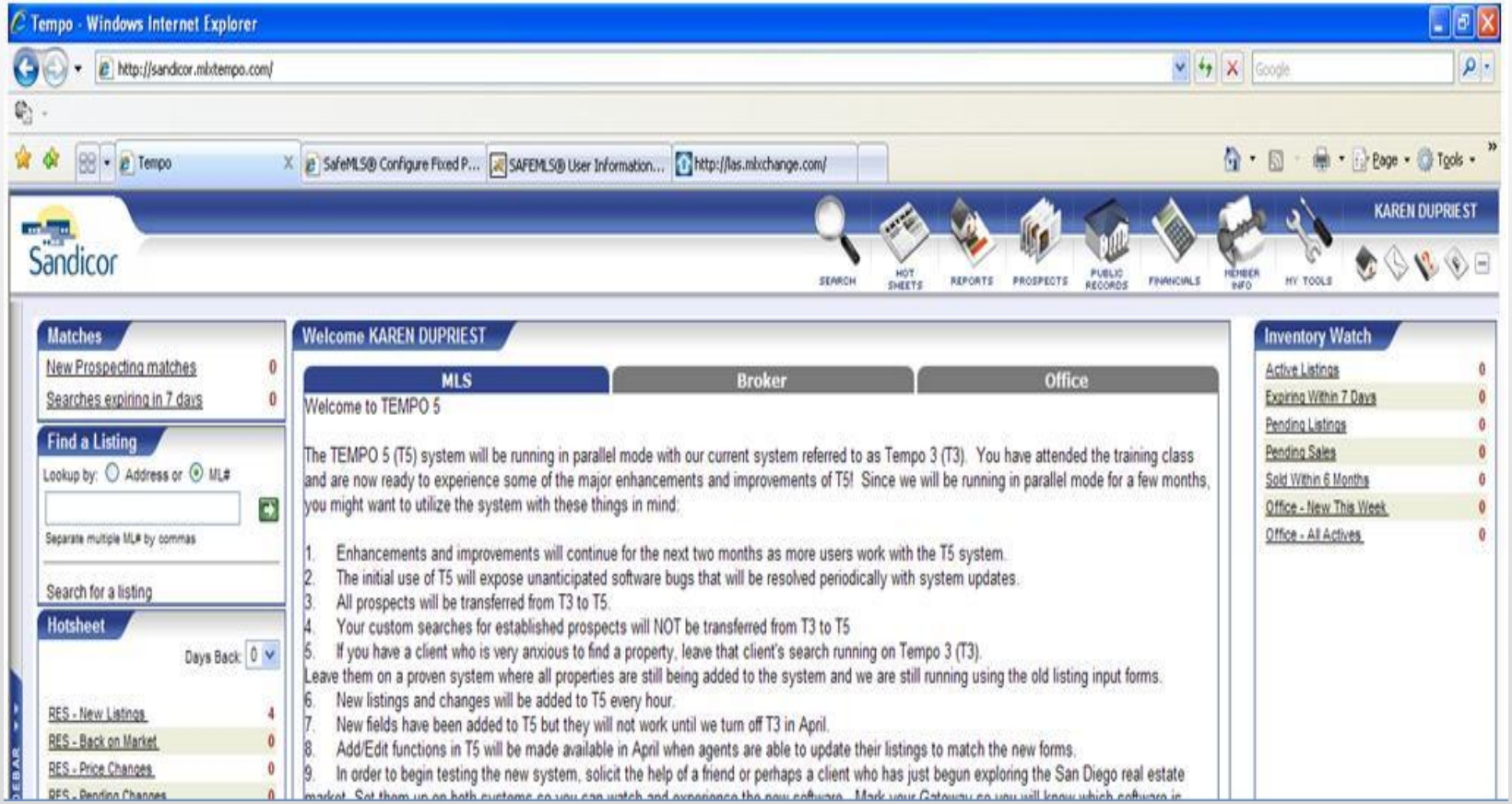
Log-in Using the Token/FOB.

Press the gray button to receive a SafeMLS Password

Clarity Security LLC

Success!

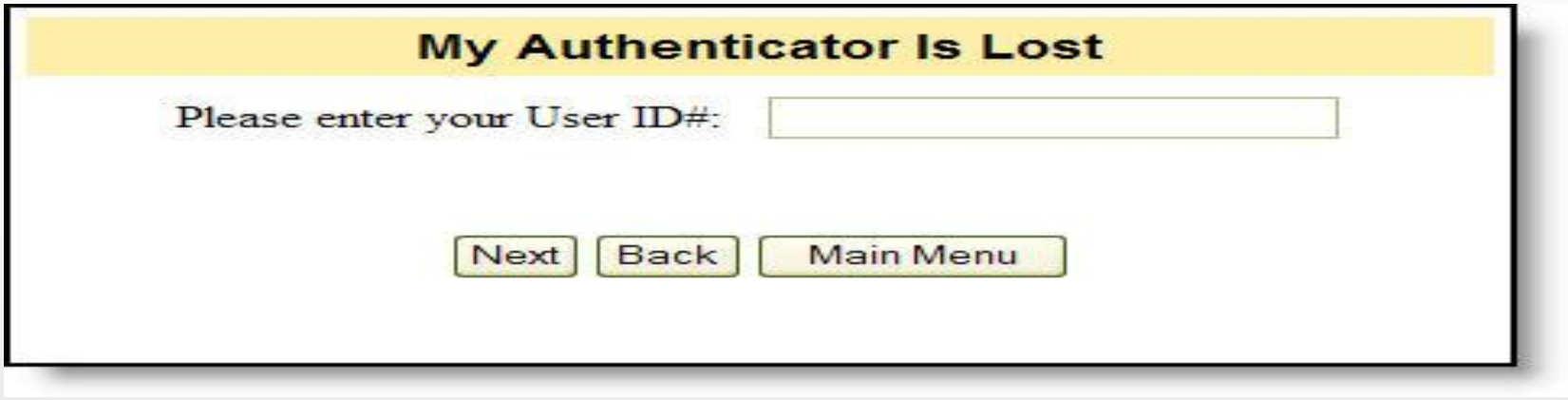
Welcome to Tempo 5!



Lost or Broken Token?

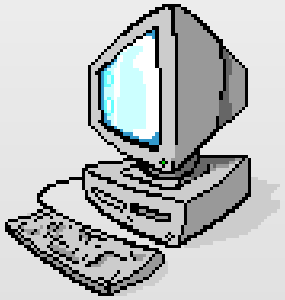
Clarity Security LLC

Fill out Form



Confirmation Page

- Temporary Password Confirmation
  - Screen will display which email sent to
  - Email address on file with Association



  - Temp password only good for up to 4 days
  - Temp password deactivates Token/FOB
  - Can only use temp password 3 times a year

Contact Your Service Center

- Contact your local Association:
  - To receive new Token/FOB
  - To reactivate found Token/FOB

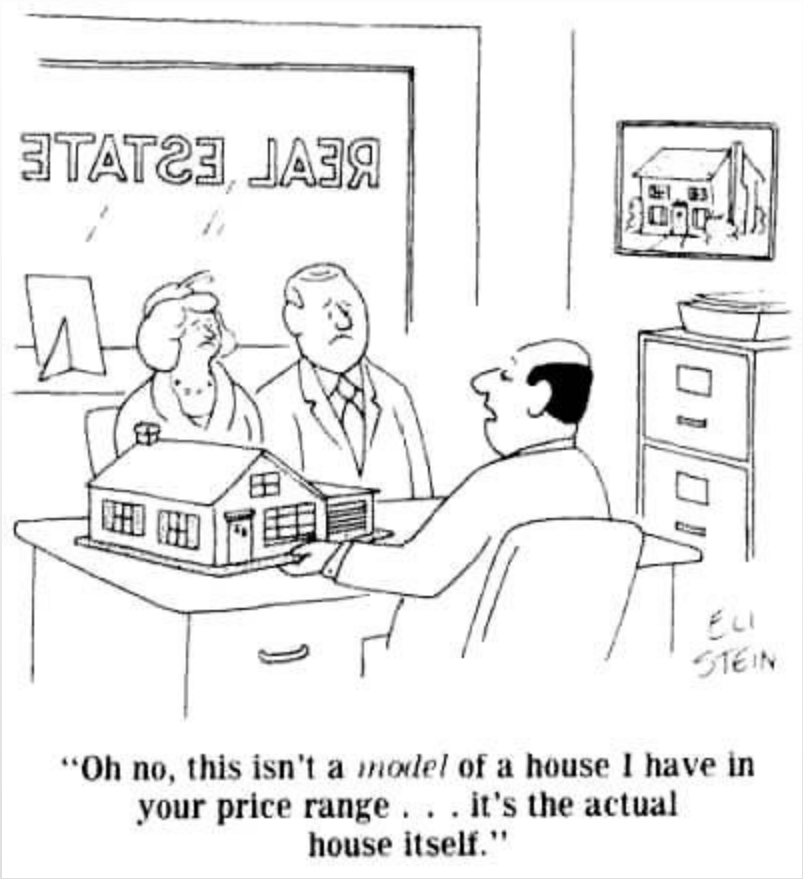
Clareity Tech Support

- www.sandicor.com
  - SafeMLS Token User Guide
  - Click Here for Information on SafeMLS

- Call Sandicor Tech Support
  - (858) 622-6200

- Email Sandicor Tech Support
  - HelpDesk@sandicor.com

Clareity Security LLC



"Oh no, this isn't a *model* of a house I have in your price range . . . it's the actual house itself."