Drinking From the Caffeine Firehose

We call SHODAN.

By Viss!

Prepared for Defcon 20

Thursday, July 12, 12
This is not just another shodan talk.

Today we turn shodan into a gateway drug.
What do people put on the internet?

Routers, switches, servers, printers..

Meh. seen it.

Show me something new!
What's on the internet that nobody is accounting for?

... is anybody actually checking?

Seriously, has anybody ever done this?
Apparently not!
A little editorial on policy....

If you can’t scan yourself freely, how do you determine your level of exposure? What’s the attack surface?
Before we begin..
Everything found here is PUBLIC
No credentials required
no "secure" systems.
This is all "free play".
Also, No systems were altered.

This was a READ ONLY Exercise.
Webcams!
Who watches the watchers?
Who watches the watchers?

Meeeeeeeee >:D
Scada gear on webcams!
Other stuff on webcams!
But most cameras are boring
This thing!
... (no idea)
A um.. “T-2000”! ..

... what's a T-2000?.. relion?
Its a hydrogen fuel cell.

**PRODUCTS & SOLUTIONS**

T-2000: 6kW Outdoor Configuration | T-2000: 8kW Outdoor Configuration
T-2000: 12kW Outdoor Configuration

**T-2000® 2kW PEM Fuel Cell**

The T-2000® fuel cell system is designed specifically for larger communications backup power loads within the wireless and wireline telecommunications, utility and government sectors. The T-2000® fuel cell uses ReliOn’s patented Modular Cartridge Technology® for hot-swappable high reliability, ease of maintenance and simplicity of design. Modular electronics cards enable scalability by providing flexible configuration from 600 Watts to a full 2,000 Watt capacity in one chassis. Or combine multiple T-2000® fuel cells to provide higher outputs for a variety of site requirements up to 12kW.

Click for specifications in English (197KB)
Click for specifications in Spanish (130KB)
Click for specifications in Portuguese (213KB)
Click for specifications in Chinese (595KB)

**Features:**

- Output: 0 to 2,000 Watts - 24 or 48 VDC nominal output
- 23” Rack Mountable (Indoors)
- Multiple Outdoor Configurations
- Remote Monitoring Capability
- Dimensions: 26”h x 21”w x 21.5”d (66cm x 53cm x 54.6cm)
Looks industrial!

Field Trial Prototype

- **Relion**’s modular cartridge approach normally operates with six cartridges connected to a common BUS. Each cartridge supplies a nominal power of 200W.

- In case a cartridge is damaged, the replacement procedure can be performed in a few seconds while the fuel cell continues to provide power to the load.

- **Figure 2** – **Relion**’s T-1000 hydrogen fuel cell
# DOE/DOD Back-Up Power Demonstration

<table>
<thead>
<tr>
<th>Site</th>
<th>kW Req’d</th>
<th>Buildings Backed-up</th>
<th>Fuel Cell Units Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aberdeen Proving Ground</td>
<td>15; 20; 8</td>
<td>Energy Management Building, Range Control and Coordination, DPW Conservation Branch</td>
<td>(3) IdaTech ElectraGen 5; Hydrogenics HyPM Rack 20; ReliOn T-2000 8kW</td>
</tr>
<tr>
<td>Fort Bragg</td>
<td>15</td>
<td>Training Range Control Building</td>
<td>(3) IdaTech ElectraGen 5</td>
</tr>
<tr>
<td>Picatinny Arsenal</td>
<td>10; 10; 10</td>
<td>Sewage Lift Pump</td>
<td>(2) IdaTech ElectraGen 5; (2) IdaTech ElectraGen 5</td>
</tr>
<tr>
<td>West Point</td>
<td>20; 20</td>
<td>Internet Switch, Internet Service and Telecom Closet</td>
<td>Altery FPS-20; Altery FPS-20</td>
</tr>
<tr>
<td>Cheyenne Mountain</td>
<td>24</td>
<td>911. Call Center</td>
<td>ReliOn T-2000 4kW, 8kW, 12kW</td>
</tr>
<tr>
<td>Fort Hood</td>
<td>9; 10</td>
<td>Wastewater Pretreatment Plant, Wastewater Pretreatment Plant</td>
<td>ReliOn T-2000 8kW, ReliOn T-1000 1.2 kW; Altery FPS - 10</td>
</tr>
<tr>
<td>Ohio Nat’l Guard</td>
<td>20; 20</td>
<td>Command Headquarters, Civil Support Administration</td>
<td>(4) IdaTech ElectraGen 5; (4) IdaTech ElectraGen 5</td>
</tr>
<tr>
<td>Marines 29 Palms</td>
<td>4</td>
<td>Internet Switch</td>
<td>ReliOn T-2000 4kW</td>
</tr>
</tbody>
</table>
This is how you use it

Fig 3-Typical Back-up Power

UTILITY FEED

AC TRANSFER SWITCH

METERED DISCONNECT

AC DISTRIBUTION PANEL

RECTIFIER

DC BUS

LOAD

Backup Run Time Determined by Size/Capacity of Battery Bank

OPTIONAL GENERATOR

BATTERY BANK

LOAD
So where do you find these things?
Security is a joke.
Wind farms!
More hvac/lighting
Power meters?

Meter Information

- **Meter Name:** <Name>
- **Meter Tag:** 514 Lights Meter
- **Panel Description:** <Description>
- **Panel Location:** <Location>
- **Model:** E5002
  - 3 Phase 120/208/240 Volts
  - 200 Amps
  - CT Opening 1.2" x 1.3"

Meter Data

- **Energy Consumption:** 9761.66 kWh
- **Demand (power):** 27.62 kW
  - Current, A: 47.04 A
  - Current, B: 43.85 A
  - Current, C: 43.85 A
- **Demand (power), A:** 0.00 kW
- **Demand (power), B:** 0.00 kW
- **Demand (power), C:** 0.00 kW
- **Frequency (from A):** 59.95 Hz
- **Reactive Power:** 27.14 kVAr
- **Apparent Power:** 38.27 kVA
- **Power Factor, A:** 0.71
- **Power Factor, B:** 0.00
- **Power Factor, C:** 0.00
- **Voltage, line to line:** 129.23 V
- **Voltage, line to neutral:** 0.00 V
- **Voltage, A to B:** 47.95 V
- **Voltage, A to C:** 47.95 V
- **Voltage, B to C:** 47.95 V
- **Voltage, A to neutral:** 0.00 V
- **Voltage, B to neutral:** 0.00 V
- **Voltage, C to neutral:** 0.00 V

Dynamic Time Plots

- **Electric Demand (kW):**
  - 10:00: 0.00 kW
  - 5:00: 0.00 kW
  - 0:00: 0.00 kW
  - -5:00: 0.00 kW
  - -10:00: 0.00 kW
  - 14-May-12 5:55 PM PDT
  - 14-May-12 5:57 PM PDT
  - 14-May-12 5:59 PM PDT

- **Reactive Power (kVAR) / Apparent Power (kVA):**
  - 40.00
  - 30.00
  - 20.00
  - 10.00
  - 0.00
  - -10.00
  - -20.00
  - -30.00
  - -40.00
  - 14-May-12 5:55 PM PDT
  - 14-May-12 5:57 PM PDT
  - 14-May-12 5:59 PM PDT

- **Average Current (Amps):**
  - 47.04
  - 43.85
  - 43.85
  - 14-May-12 5:55 PM PDT
  - 14-May-12 5:57 PM PDT
  - 14-May-12 5:59 PM PDT
Private residences?!
... trending data?
Solar System Monitoring

Panel Temp is 55.01 °F

SCP-1 is Off

Inlet Temp is 74.9 °F

Tank Temp is 65.7 °F

Outlet Temp is 75.4 °F

SCP-2 is Off

Outlet Temp is 75.5 °F

Outlet Temp is 131.6 °F

Tank Temp is 140.3 °F

Valve is 86.8 % Open

DHWP-1 is On
Familiar displays!
Some more power systems

<table>
<thead>
<tr>
<th>Serial</th>
<th>SystemID</th>
<th>Installationstatus</th>
<th>Status</th>
<th>Meter groups</th>
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<tbody>
<tr>
<td>LGZ12931286</td>
<td>049895210935</td>
<td>INSTALLED</td>
<td>REG</td>
<td>ALL, FLEX</td>
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<td>049895144252</td>
<td>INSTALLED</td>
<td>REG</td>
<td>ALL, FLEX</td>
</tr>
</tbody>
</table>
Larger industrial systems

Synco™
Central communication unit OZW775 V2.0
with integrated web server function
Commissioning instructions
So I found a BUNCH of stuff.

But what if anything is actually actionable?
Well, OSINT is fashionable...

Let's flex that muscle :D
Level One:

Simple recon
Quick observations..

- United States
  - Geo: City: Newburyport
  - Region: Massachusetts
  - PageRank: No Data
  - Rank: No Data
  - Google Trends
  - McAfee SiteAdvisor
    - WOT: Trust Worthiness: n/a
    - Vendor Reliability: n/a
    - Privacy: n/a
    - Child Safety: n/a

Thursday, July 12, 12
What details can we see?
Leaking data in meatspace
Company name leads to address
Level Two:
Interactions
DISCLAIMER:

I didn’t have any idea this happened until someone showed me a gallery of screencaps...
Level Three:

Remember the movie
Live Free or Die Hard?
Yeah, it's kinda like that.
Timothy Olyphant did it with a Semi filled with millions of dollars of expensive equipment and a black ops team?
Though this depiction
Was an insanely successful
Social Engineering campaign, overall.
Except, I’m not shooting down helicopters with cars.
Massive coolers

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>OUTSIDE AIR TEMP</td>
<td>72.73 °F</td>
</tr>
<tr>
<td>LOW SPACE TEMP</td>
<td>44.38 °F</td>
</tr>
<tr>
<td>HIGH SPACE TEMP</td>
<td>44.38 °F</td>
</tr>
<tr>
<td>AVERAGE SPACE TEMP</td>
<td>44.38 °F</td>
</tr>
<tr>
<td>NETEMP</td>
<td>44.38 °F</td>
</tr>
<tr>
<td>SWTEMP</td>
<td>44.38 °F</td>
</tr>
<tr>
<td>NWTEMP</td>
<td>43.87 °F</td>
</tr>
<tr>
<td>SCTEMP</td>
<td>44.64 °F</td>
</tr>
</tbody>
</table>

LeadChillerSelect : South Chiller

<table>
<thead>
<tr>
<th>ChWR Loop Temp.</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>N_CHILLER2</td>
<td>41.80 °F</td>
</tr>
<tr>
<td>Leaving CHW Temp.</td>
<td>41.86 °F</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ChWR Loop Temp.</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>S_CHILLER1</td>
<td>40.48 °F</td>
</tr>
<tr>
<td>Leaving CHW Temp.</td>
<td>40.48 °F</td>
</tr>
</tbody>
</table>

**Active CHW Delta Temp.**

<table>
<thead>
<tr>
<th>View EVAPI to EVAPI8</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIEW_EVAPI1</td>
</tr>
<tr>
<td>VIEW_EVAPI2</td>
</tr>
<tr>
<td>VIEW_EVAPI3</td>
</tr>
<tr>
<td>VIEW_EVAPI4</td>
</tr>
<tr>
<td>VIEW_EVAPI5</td>
</tr>
<tr>
<td>VIEW_EVAPI6</td>
</tr>
<tr>
<td>VIEW_EVAPI7</td>
</tr>
<tr>
<td>VIEW_EVAPI8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>VIEW EVAP9 to EVAP14</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIEW_EVAP9</td>
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<tr>
<td>VIEW_EVAP10</td>
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<tr>
<td>VIEW_EVAP11</td>
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<tr>
<td>VIEW_EVAP12</td>
</tr>
<tr>
<td>VIEW_EVAP13</td>
</tr>
<tr>
<td>VIEW_EVAP14</td>
</tr>
</tbody>
</table>

**EVAP DEFROST SCHEDULES...**
Massive coolers with details!

**Unit Status**
- **S Chiller1**
- **RUN**

**Compressor Status**
- **65.00 %**

**Active LWT Setpoint**
- **40.00 °F**

**Water Temperatures**
- Leaving CHW Temp: **40.20 °F**
- Entering CHW Temp: **42.00 °F**
- Leaving CW Temp: **70.30 °F**
- Entering CW Temp: **68.00 °F**

**Percent Unit RLA**
- **65.00 %**
Some scada keeps logs!

<table>
<thead>
<tr>
<th>Date/Time</th>
<th>User</th>
<th>Type</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-Apr-12 7:16:15 AM MDT</td>
<td>fox</td>
<td>1</td>
<td>Opened: 165 &lt;- 0 :: WbApplet [guest] @ Owner-PC</td>
</tr>
<tr>
<td>13-Apr-12 7:23:07 AM MDT</td>
<td>fox</td>
<td>1</td>
<td>Opened: 166 &lt;- 0 :: WbApplet [admin] @ Denniss-MacBook-Pro.local</td>
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<tr>
<td>13-Apr-12 7:24:40 AM MDT</td>
<td>fox</td>
<td>1</td>
<td>Opened: 167 &lt;- 0 :: WbApplet [admin] @ Denniss-MacBook-Pro.local</td>
</tr>
<tr>
<td>13-Apr-12 7:25:19 AM MDT</td>
<td>fox</td>
<td>1</td>
<td>Closed: 166 &lt;- 0 :: WbApplet [admin] @ Denniss-MacBook-Pro.local</td>
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<td>fox</td>
<td>1</td>
<td>Closed: 167 &lt;- 0 :: WbApplet [admin] @ Denniss-MacBook-Pro.local</td>
</tr>
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<td>fox</td>
<td>1</td>
<td>Closed: 165 &lt;- 0 :: WbApplet [guest] @ Owner-PC</td>
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<td>13-Apr-12 7:31:54 AM MDT</td>
<td>fox</td>
<td>1</td>
<td>Opened: 168 &lt;- 1 :: WbApplet [guest] @ Owner-PC</td>
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<tr>
<td>13-Apr-12 7:56:51 AM MDT</td>
<td>fox</td>
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<td>Closed: 168 &lt;- 1 :: WbApplet [guest] @ Owner-PC</td>
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<tr>
<td>13-Apr-12 9:24:02 AM MDT</td>
<td>sys</td>
<td>1</td>
<td>Saving station...</td>
</tr>
<tr>
<td>13-Apr-12 9:24:04 AM MDT</td>
<td>history.db</td>
<td>1</td>
<td>Saved history archive (494ms)</td>
</tr>
</tbody>
</table>
Massive power/UPS gear.
VNC Touchpanels

Thursday, July 12, 12
Okay okay.. Its a little Freaky, but it's no “firesale”...
Meet i.lon.

i.LON SmartServer

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NOTE: Use 'logout' or Escape Character to exit

Carver> ??
Its stackable! Like devo hats!
Storhal

Great Hall is a heated limtræsbuehal, with more than 6,000 square meters of DIN-approved sport linoleum brand BoFlex and a further 3,000 square meters of concrete floor. Great Hall is based on a flexible system of props, mobile telescopic grandstands and other facilities that make the hall suitable for virtually all types of events.
MAX. 1000 PERSONER
SYMBOL OG SIGNATUREFORKLARING
- Vandflydt sløgevinde
- Flugtvej/nedgang
- Ophængningssted for plan
- Betjenningssted for regventilation
- Alarmtryk (ekstern)
- Automatisk branddør lukker
- Automatisk brandalarm

GIGANTIUM
IDRETS- OG KULTURCENTER
AALBORG ØST
OLYMPIAPARKEN
9220 AALBORG ØST
Flugtvejplan nr. 25 - Idretshal
Mål 1 : 200
Welcome to Hedebo Strandcamping

Directly by the child-friendly sandy beach with blue flag
Our place has something for you if you bring your boat, want to fish like to swim, want to surf, want to sunbathe on the beach, loves long walks in nature or perhaps just want to sit on the bench down at havbakken and enjoy the view above sea level.

Sæby Svømmebad
Discount Appointment:
Adults: DKK 30
Children: £ 16
Wellness: 45 kr
Skallerup offers over 262 stylish year-end holiday cottages, divided into 8 different types. You can always find a place to stay here that suits your wishes and needs and can serve as the perfect setting for a delightful holiday - right close to the beautiful nature and crashing North Sea.

Smoking is prohibited in all holiday accommodations and pets are not permitted in the E4 and E2 apartments.

Classic cottages

Classic cottage A4
Number of people: 4

Info

Prices

Classic cottage A6
Number of people: 6 + 2

Info

Prices

Spa cottage
So I can control the:
- power, lights, hvac
- ice skating rink, garage doors
- water pressure and boilers

Of something like 36 businesses
all in one town?
Getting a little closer, eh?
Econolite Stoplights.

Escape character is '^['.

OS-9/68K V3.3 Econolite 2070-1B(68360) 2002 TEES Erratum 2 - 68300 12/05/24 04:24:21

User name?: Who?

URMS: DAT/dat
2070
Diagnostics Acceptance Test
Caltrans Version 2.1

DANGER!
DO NOT USE WHILE CONTROLLER IS BEING USED FOR TRAFFIC CONTROL OR SERIOUS DAMAGE, INJURY OR DEATH MAY OCCUR !!!

Warning!
Shutting off controller while running the flash memory test may corrupt files, or other data on the flash drive

*** DAT Main Menu ***
1) Processor
2) Front Panel
3) Field I/O
4) Async Ports
5) Sync Ports
6) Modem Tests
7) Utility Functions
8) Run Continuous
9) Configure Standard Tests
These are red light cameras.
The ones that ticket you.
DakTronics.
Red light cameras, road signs and stoplights.

Check.
How about some current events?

Ruggedcom?

Other stuff thats fun?
N4-DLC

Passwords

Auth Type
Guest Username: guest
Guest Password: 
Confirm Guest Password: 
Operator Username: operator
Operator Password: 
Confirm Operator Password: 
Admin Username: admin
Admin Password: 
Confirm Admin Password: 

Apply  Reload
N4-DLC

Passwords

Auth Type
Local

Guest Username:
guest

Guest Password:
guest

Confirm Guest Password:
guest

Operator Username:
operator

Operator Password:
operator

Confirm Operator Password:
operator

Admin Username:
admin

Admin Password:
admin

Confirm Admin Password:
admin

Apply    Reload
Does this look like malware?
Now it looks .. "better"?.. I guess? :\
I put that on twitter.

A day later DHS called my cellphone.
Satellite systems

IP Routing Statistics

- Total IP Packets from Satellite: 130031194
- Total IP Packets from Ethernet: 2190042
- Total IGMP Packets Received: 0
- IP Options Packets Received: 552

IP Routing Statistics - Dropped - Automatically Updates Every 10 Seconds

- TTL Expired - Dropped: 43
- Bad Hdr ChkSum - Dropped: 260
- No Route - Dropped: 1
- No ARP Entry - Dropped: 100
- Bad Buffer Length - Dropped: 4
- Bad IP Version - Dropped: 5
NAS storage arrays
"LaserWash"
Car Wash Systems

Abort/Recovery Options
Door Settings
Dryer Settings
Freeze Protection
Installed Options
Machine Dimensions
Machine Offsets
Timers
Water and Chemical
Massive Humidifiers

WED JUL 11 2012 22:28:31 GMT-0700 (PDT)

View all humidifier settings below. Some settings can be changed here. Go to the Setup tab to change settings that cannot be changed from this page.

TANK STATUS:
- Run Mode: Auto
- Input signal: 4.5 VDC
- Steam output: 44.8%
- Steam production: 8 lbs/hr
- Duct HL switch: Closed
- Tank temperature: 218°F
- Tank temp signal: 1745 Ohms
- DI low water switch: Water
- Fill valve: Open
- Drain valve: Closed
- Airflow switch: Flow
- Interlock switch: Closed
- H2O until service: 1163 lbs

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Massive Humidifiers

Connect directly to the board
Emergency Telco gear

**5000S ESA Switch**

Aztek Networks’ 5000S ESA switch is the first and only purpose-built true emergency stand-alone switching device that is fully redundant, field cabinet ready and truly capable of seamless interoperability with any open-standard GR-303 access element or host switch.

The Aztek 5000S continuously monitors the signal between a host switch and an access device such as a DLC, BLC or MSAP, and becomes the active switching element only if the signaling link between the host switch and the access device becomes inactive.
## Emergency Telco Gear

### Aztek 5000S

#### Slot A Status: Active  Mode: Monitoring

<table>
<thead>
<tr>
<th>Date/Time</th>
<th>Severity</th>
<th>Object Type</th>
<th>Object ID</th>
<th>Location</th>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1970/02/02 - 20:10:19</td>
<td>Minor</td>
<td>SWUPDATE_SERVICE</td>
<td>0</td>
<td>CTA Slot B</td>
<td>Equipment</td>
<td>Dial Plan download fault</td>
</tr>
<tr>
<td>1970/01/01 - 00:00:19</td>
<td>Minor</td>
<td>RESOURCE_SERVICE</td>
<td>0</td>
<td>CTA Slot A</td>
<td>Equipment</td>
<td>ACTS time fault</td>
</tr>
</tbody>
</table>

Refresh this page every **30** seconds.

Clear the Failed Dial Plan Download alarm

---

Thursday, July 12, 12
// You are free to copy the "Folder-Tree" script as long as you
// keep this copyright notice:
// Script found in: http://www.geocities.com/marcelino_martins/foldertree.html
// Author: Marcelino Alves Martins (http://www.mmartins.com)

// Log of changes:
// 10 Aug 01 - Support for Netscape 6
// 17 Feb 98 - Fix initialization flashing problem with Netscape
// 27 Jan 98 - Root folder starts open; support for USETEXTLINKS;
// make the ftien4 a js file

// Definition of class Folder
// *****************************************************
.. speakers?

QSA 500 D
2-way active system; bi-amping
A massive wine cooler
A massive wine cooler

Hotel Wine Cooler

- Avg Temp: 60.8°F
- Setpoint: 59.0°F
- Setpoint Diff: 3.0°F
- Cooling: On
- Alarm Diff: 10.0°F
- Alarm Delay: 3599.0 s
- Alarm: Normal

Corridor

- 60.8°F
- 73.0%RH
- 50.4°F

Champagne

- 76.0°F
- 58.0%RH
- Setpoint: 44.0°F
- Setpoint Diff: 3.0°F
- Cooling: Off
- Alarm Diff: 13.0°F
- Alarm Delay: 3600.0 s
- Alarm: Alarm

Bar Left

- 52.5°F

Bar Right

- 52.6°F
- Setpoint: 44.0°F
- Setpoint Diff: 3.0°F
- Cooling: Off
- Alarm Diff: 10.0°F
- Alarm Delay: 3600.0 s
- Alarm: Normal
Thinking longer term..
Remember the trending?
Since scanning the whole internet is getting easier, we can take measurements!
How about some Measurable Results?
Remember that Webcam Stuff I did Back in January?
Lots of public TrendNet Cameras?
Original Blogpost: Jan 10
My blogpost: Jan 24 (560 cameras)
BBC Article: Feb 7
A retest: April 3 (464 cameras)
US Media picks it up: mid April
Second Retest: May 24 (465 cameras)
Third Retest: July 12 (490 cameras)
It scales.
I’m working on it..
Wanna stalk me?

atenlabs.com/blog

@viss