# System Shock: The Shodan computer search engine

I'm Viss. I do security research.

I've presented at:
Defcon/BlackHat/ToorCon(s)/
BSides/BarCamp/OWASP/
HITB



# Time for some RESPECT.

I am here because of someone elses misfortune.

It's great for me, but horrible for them.

I just want to acknowledge that.

#### Credentials:

- Aaaaahahahahahahaha
- HHAHAHAhahahAHAhaha!
- omg rofl lolz hahaha seriously
- ·I can't seriously do this slide with a straight face
- I read an nmap book once
- I totally stole this idea from zfasel and I owe him booze for it.
- my CISSP code of ethics mandates I report you

# Who here has NOT heard of Shodan?

# Who here knows what TCP Banners are?

# Any python coders in here?

You guys are gonna love this:D

# Shodan is like google but for tcp banners.

It also has a python API

You can bridge that API to tools

... like metasploit. Or armitage and cortana

Or you can just screenshot the entire net

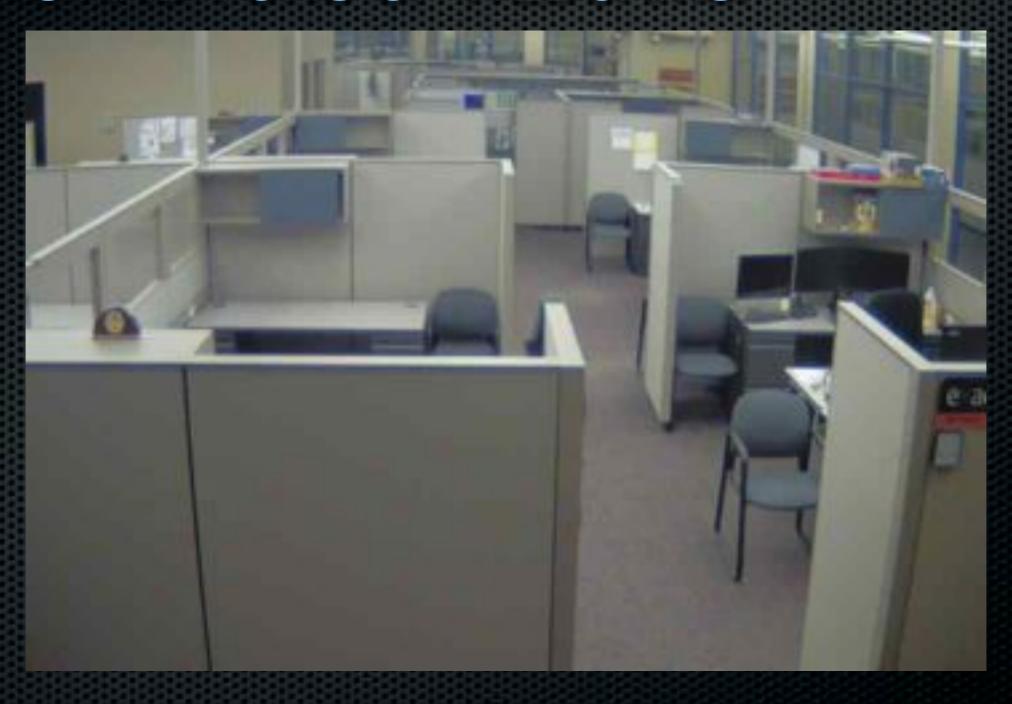
# Find an interesting query.

Believe me - there is enough absurdity on the internet - its VERY EASY TO FIND.

2-3 steps of refinement = goldmines

## My first forray into this:

TONS AND TONS OF WEBCAMS.



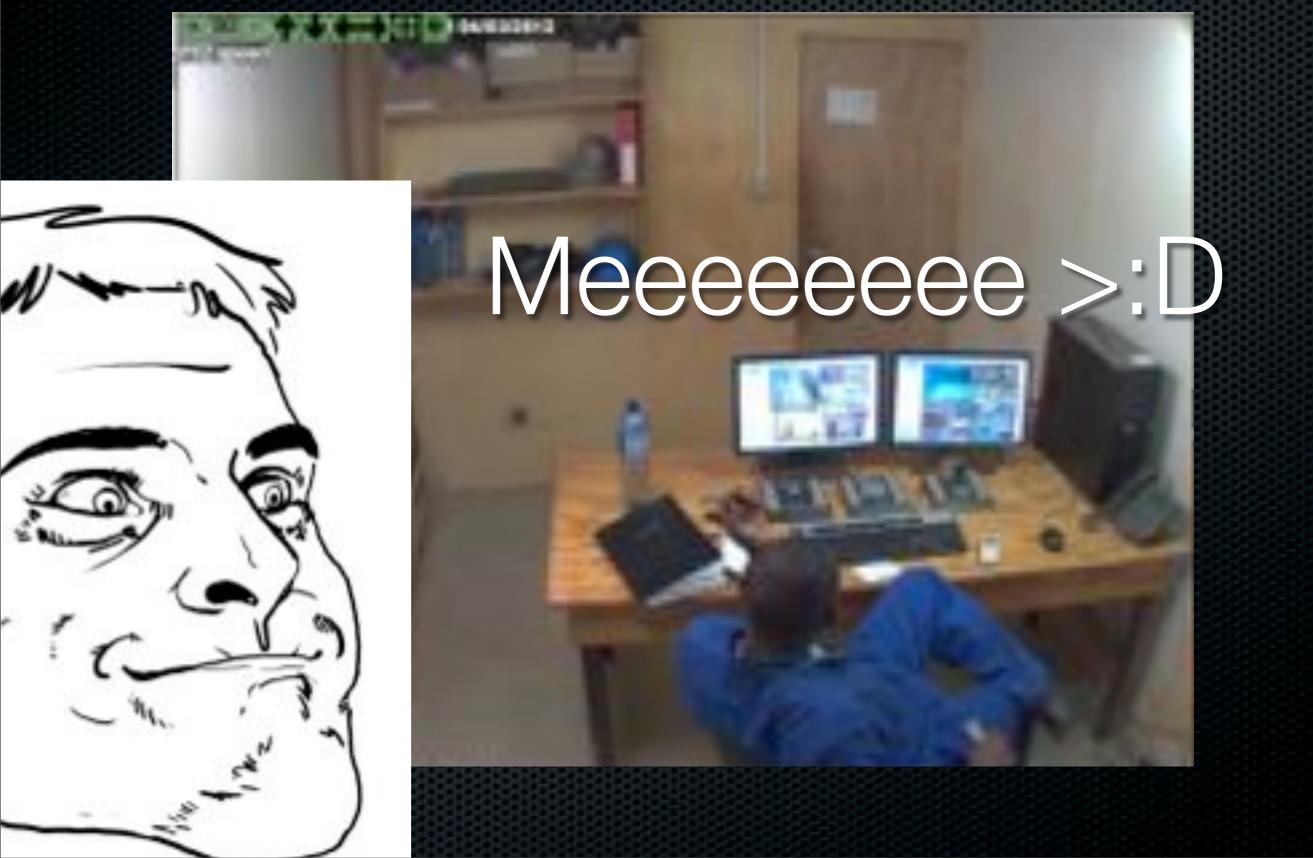
#### Webcams! .. speaking of goldmines..



#### Who watches the watchers?

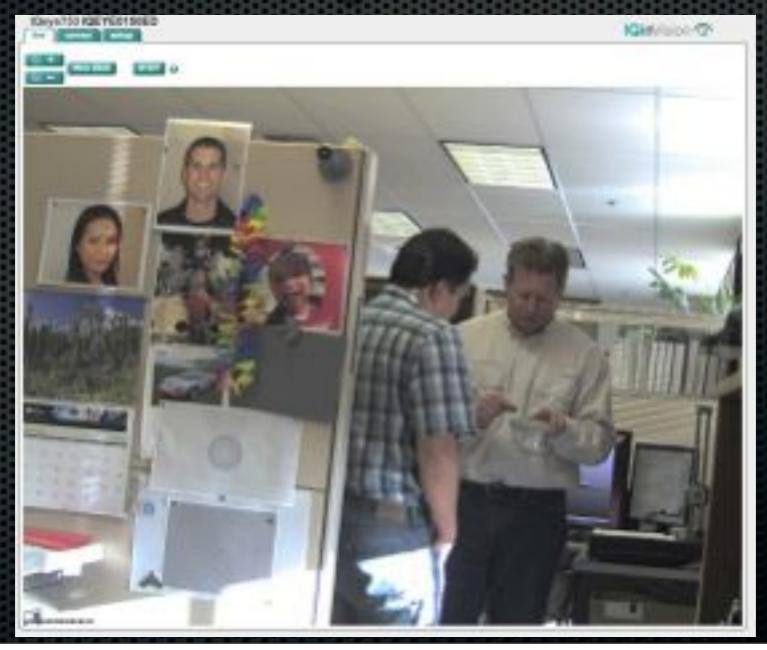


#### Who watches the watchers?



#### Now for more meta

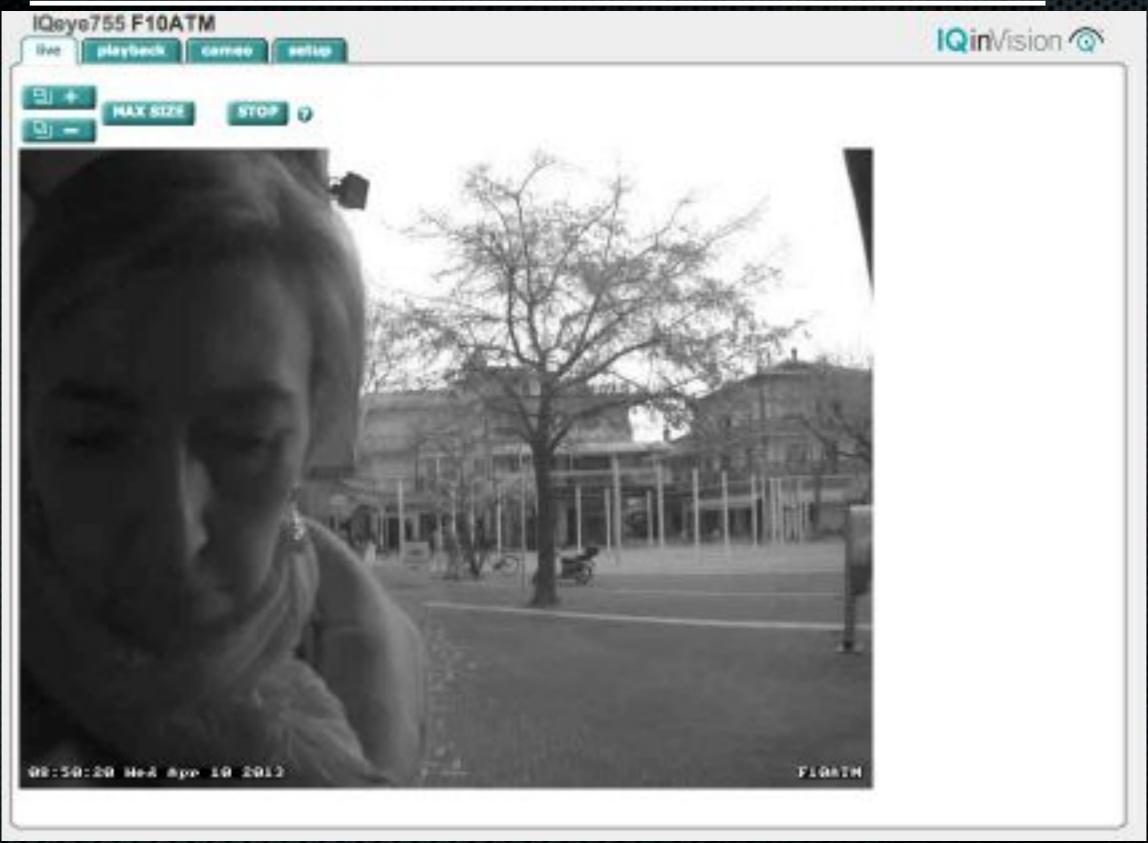
a camera in the business that makes the cameras, watching people MAKE THE CAMERAS I'm watching them with



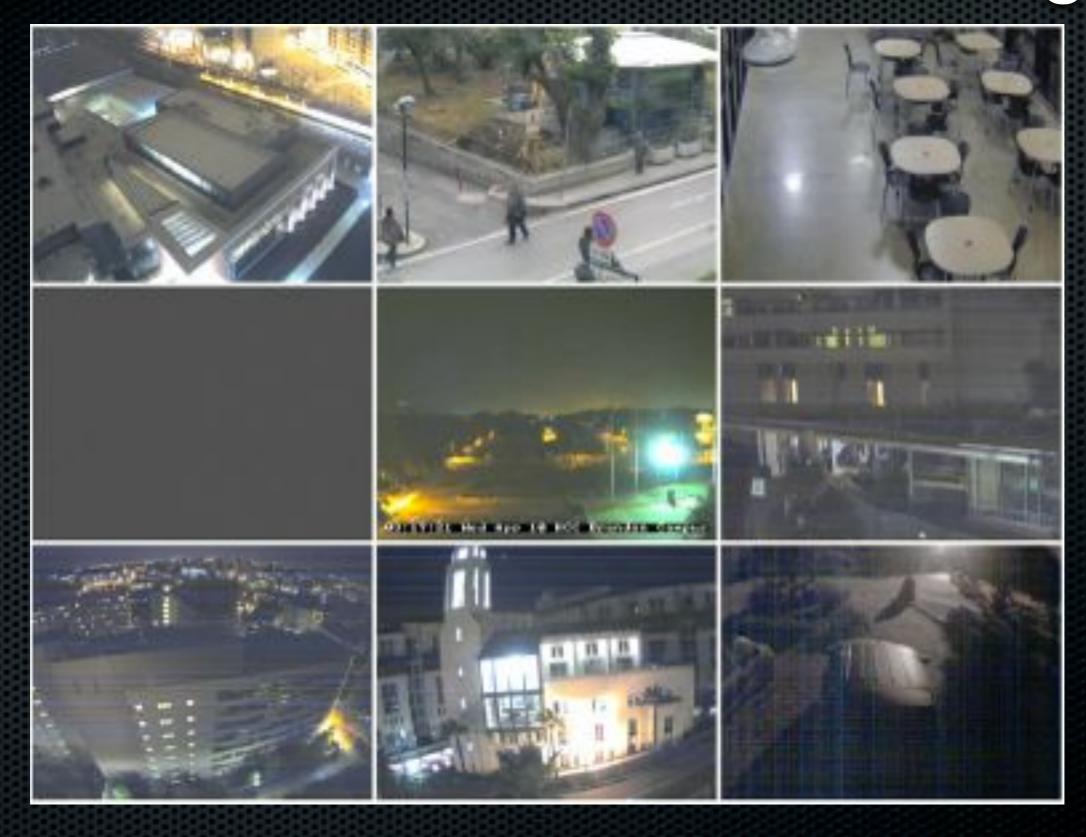
#### Scada gear on webcams!



### Other stuff on webcams!



#### But most cameras are boring



#### This thing!

```
(no idea)
                                                     (c) 2000 Relion Inc.
T-2000 CC User Interface
                                 L063M
                            Uper None 1
                            Proseword 1
    Unit Mone 1
                                              Umit Date |
                                                         04/17/12
Unit Location |
                                              Unit Time 1
                                                          23135153
                                            Chose's S/N I
 Modor Alorso I
 Minor Albeno I
                                         Controller Wer | 02.02.03
   ACO SCOTAGO | OFF DIDO
                                               FFGA Vet 1 01.01.03
Souten Status | STANDBY
                                          Comm Cord Ver 1 62.62.63
 Re (10n)
 15913 E. ELDITE AVE
 Spokane, WA 99216
 Tell +1-509-228-6500
 24 Hour Support: +1-866-661-8828
 technipporterelion-inc.com
SYSTEM MESSAGES: Alpho Text, TAB-Mext Field, Enter-Select, ESC-Abondon
```

#### A um.. "T-2000"!...

... whats a T-2000?.. relion?

```
T-2000 CC User Interface | LOGIN
                                                     (c) 2000 Relion Inc.
                             Upertione 1
                             Processorid 1
    Unit None |
                                               Unit Date | DM/17/12
Unit Location |
                                                Unit Time 1 23:35:53
 Motor Algeno i 0.
                                              Choseis S/N I
 Minor Albeno 1 1
                                           Controller Ver | 02,02,03
   ACO SCOTAGO | OFF DIDO
                                                 FF0A Vet 1 01.01.03
                                            Does Dord Ver 1 62,82,63
System Status | STAMBEY
 Re (10n)
 15913 E. ELDITE AVE
 Spokane, WA 99216
 Tell +1-509-228-6500
 24 Hour Support: +1-866-661-8628
 technipportérelion-inc.com
SYSTEM MESSAGES: Alpho Text, TAB-Mext Field, Enter-Select, ESC-Abondon
```

#### Its a hydrogen fuel cell.



Products.

E-200

E-1100

E-1100v

E-2500

T-1000

T-2000

Telecom.

Government

Off-Grid

Transportation

Utility.

Certifications

Tax Incentives

#### PRODUCTS & SOLUTIONS

T-2000 | T-2000: 2kW Outdoor Configuration | T-2000: 4kW Gutdoor Configuration

T-2000: \$4W Outdoor Configuration | T-2000: \$4W Outdoor Configuration

T-2000: 12kW Outdoor Configuration

#### T-2000@ 2kW PEM Fuel Cell

The T-20006 fuel cell system is designed specifically for larger communications backup power loads within the wireless and wireline telecommunications, utility and government sectors. The T-2000ds fuel cell uses ReilOn'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-2000ds fuel cells to provide higher outputs for a variety of site requirements up to 12kW.



Click for specifications in English [1976B]

Click for specifications in Spanish (130KB)

Click for specifications in Portuguese [213KB] Click for specifications in Chinese (995KB)

#### Features:

- + Dutput: 0 to 2,000 Watts 24 or 48 VDC nominal output
- 23 " Rack Mountable (Indoors)
- + Multiple Outdoor Configurations
- Remote Monitoring Capability
- + Dimensions: 26"h s 21"w x 21.5 "d (66cm s 53cm x 54.6cm).
- Fuel: Industrial Grade Hydrogen

#### Applications:

Wireless Telecommunications

WIMAX, Backhaul applications, Microwave, Fiber, Cellular/PCS, GSPVCDMA.

#### 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









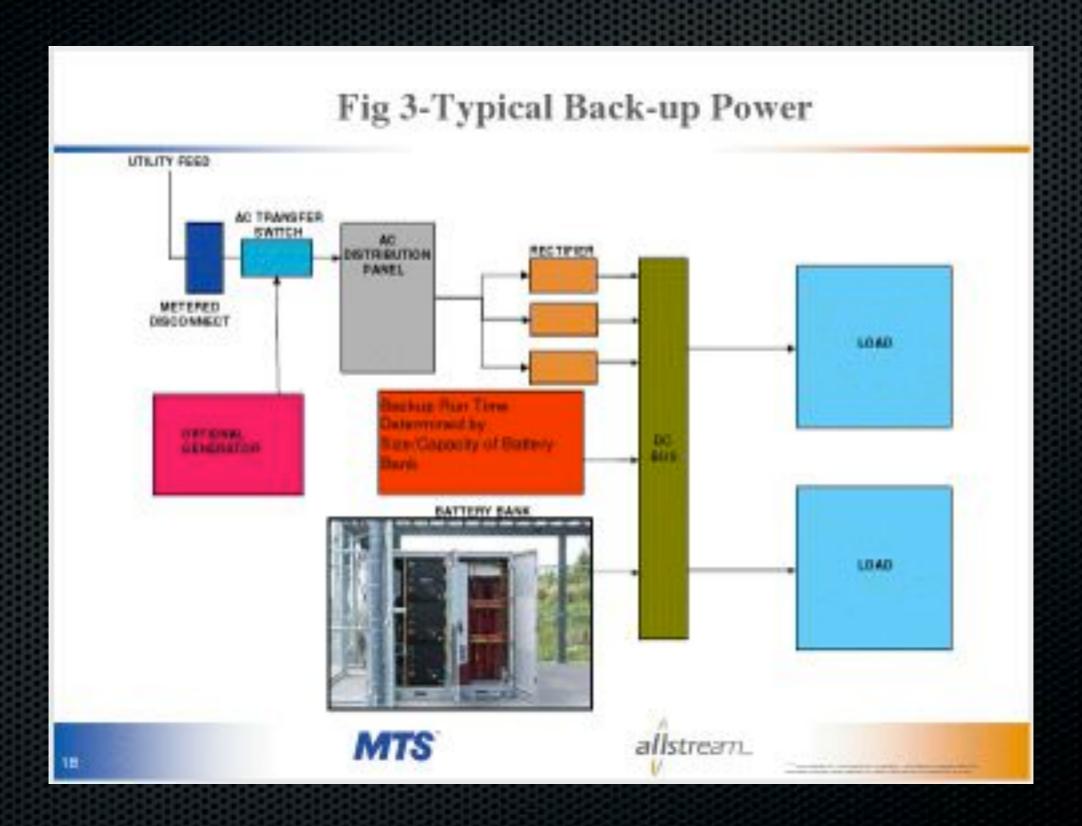
17

#### Gets used a lot in .mil...

#### DOE/DOD Back-Up Power Demonstration

Site	kW Regis	Buildings Backed-up	Fuel Cell Units Used
Aberdeen Proving Ground	15; 20; 8	Energy Management Building, Range Control and Coordination, DPW Conservation Branch	(3) IdaTech ElectraGen 5; Hyrogenics HyPM Rack 20; Reli0n T-2000 8kW
Fort Bragg	15	Training Range Control Building	(3) IdaTech ElectraGen 5
Picutinny Amenul	10; 10	Sewage Lift Fump Sewage Lift Fump	(2) IdaTech ElectraGen 5; (2) IdaTech ElectraGen 5
West Point	20; 20	Internet Switch Internet Service and Telecom Closet	Altergy FPS-20; Altergy FPS-20
Cheyenne Mountain	24	911 Call Center	Relion T-2000 4kW, 8kW, 12kW
Fort Hood	9; 10	Wastewater Pretreatment Plant, Wastewater Pretreatment Plant	Relition T-2000 BikW, Relition T-1000 1.2 kW; Altergy FPS - 10
Ohio Nat'l Guard	20; 20	Command Headquarters, Civil Support Administration	(4) IdaTech ElectraGen 5; (4) IdaTech ElectraGen 5
Marines 29 Palms	4	Internet Switch	Relition T-2000 4kW

#### This is how you use it

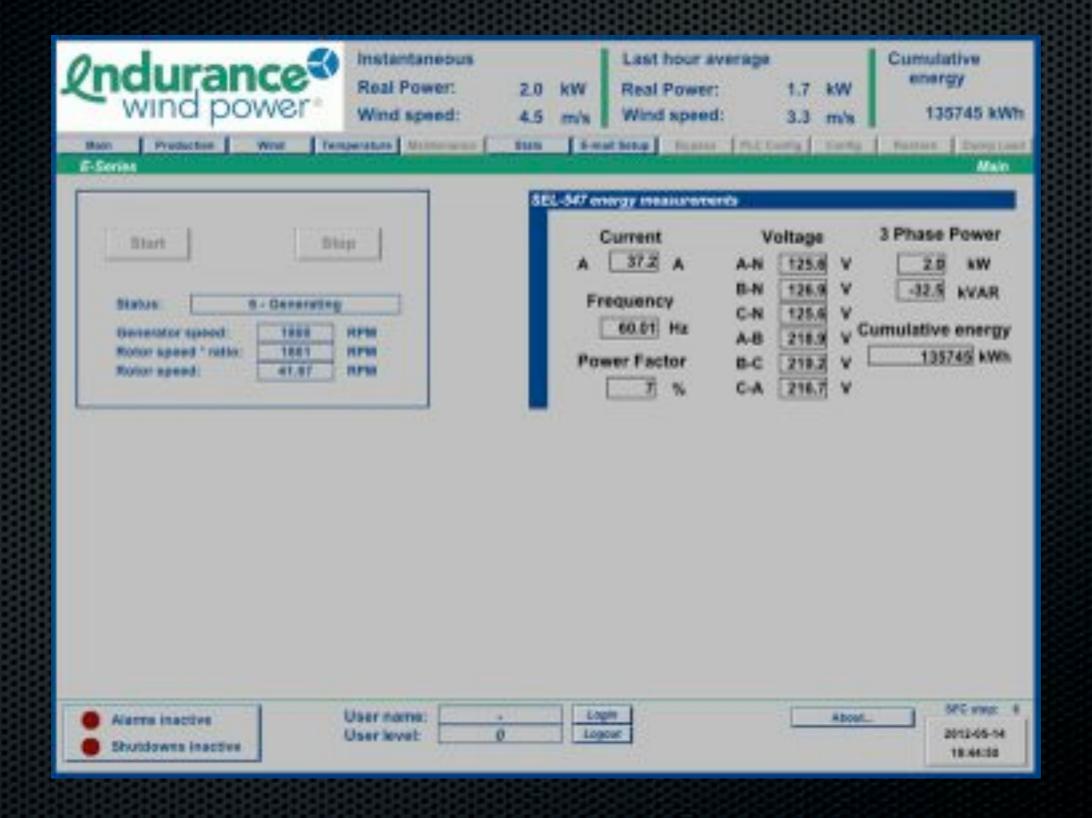


So where do you find these things in meatspace?

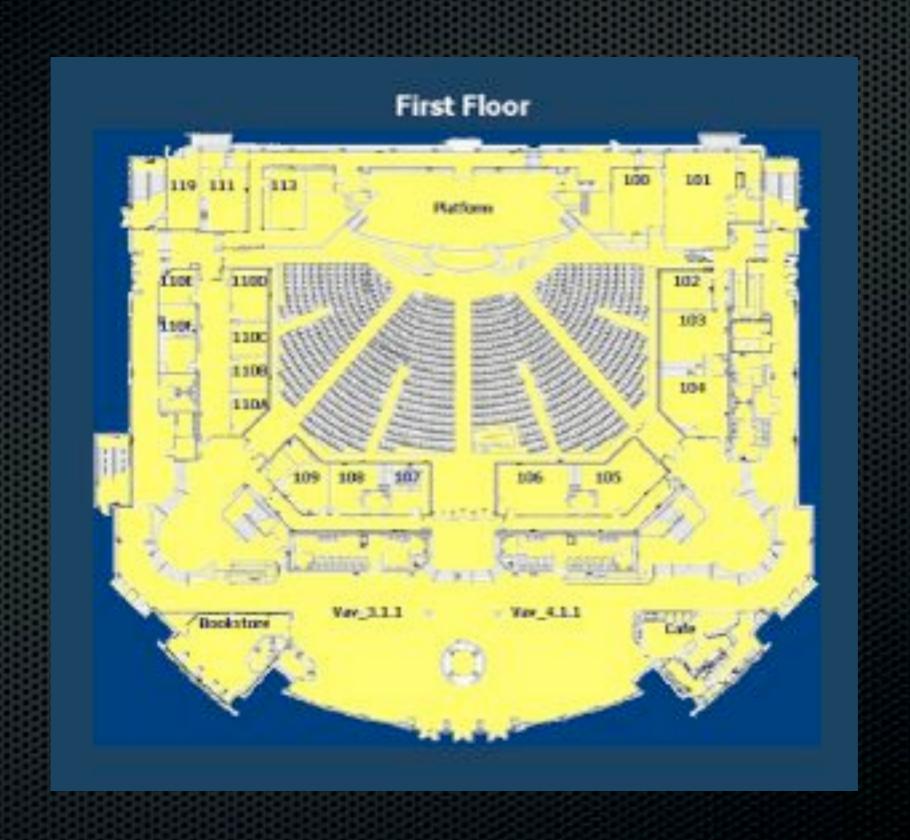
## Oh..



#### Wind farms!



### Lighting, HVAC, Alarms



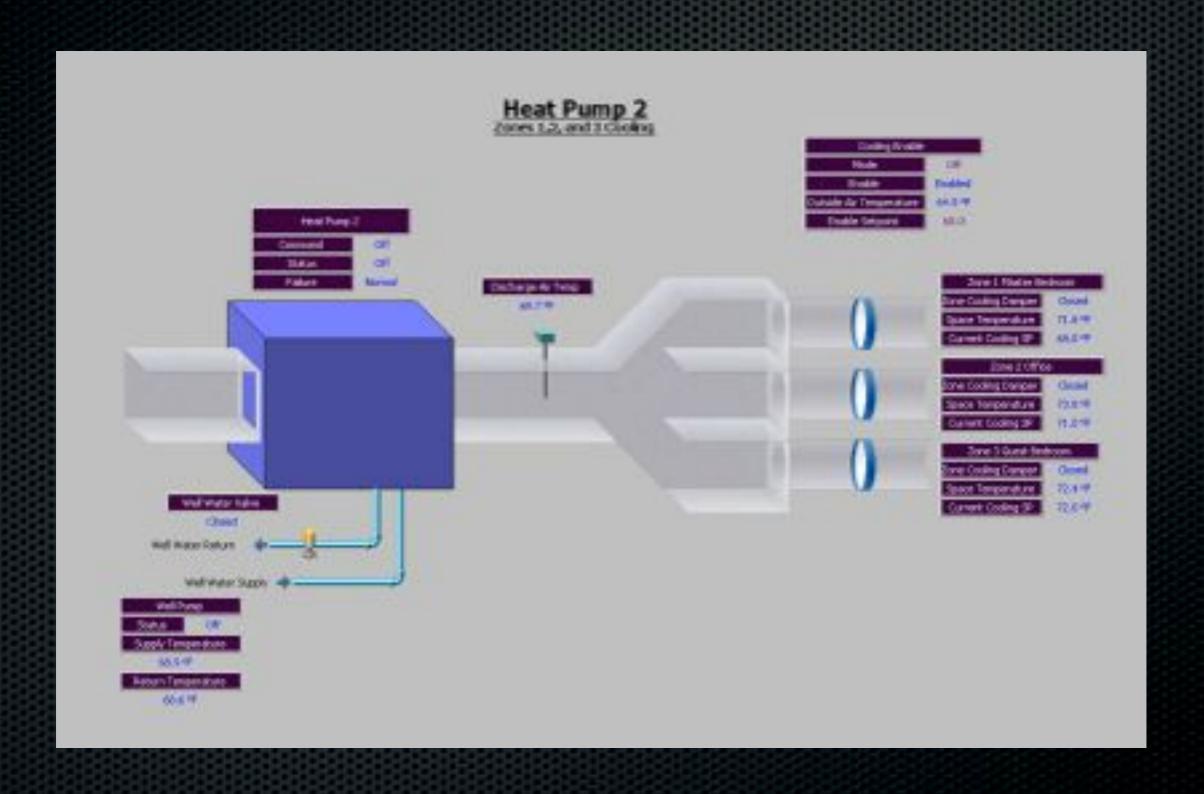
### More hvac/lighting



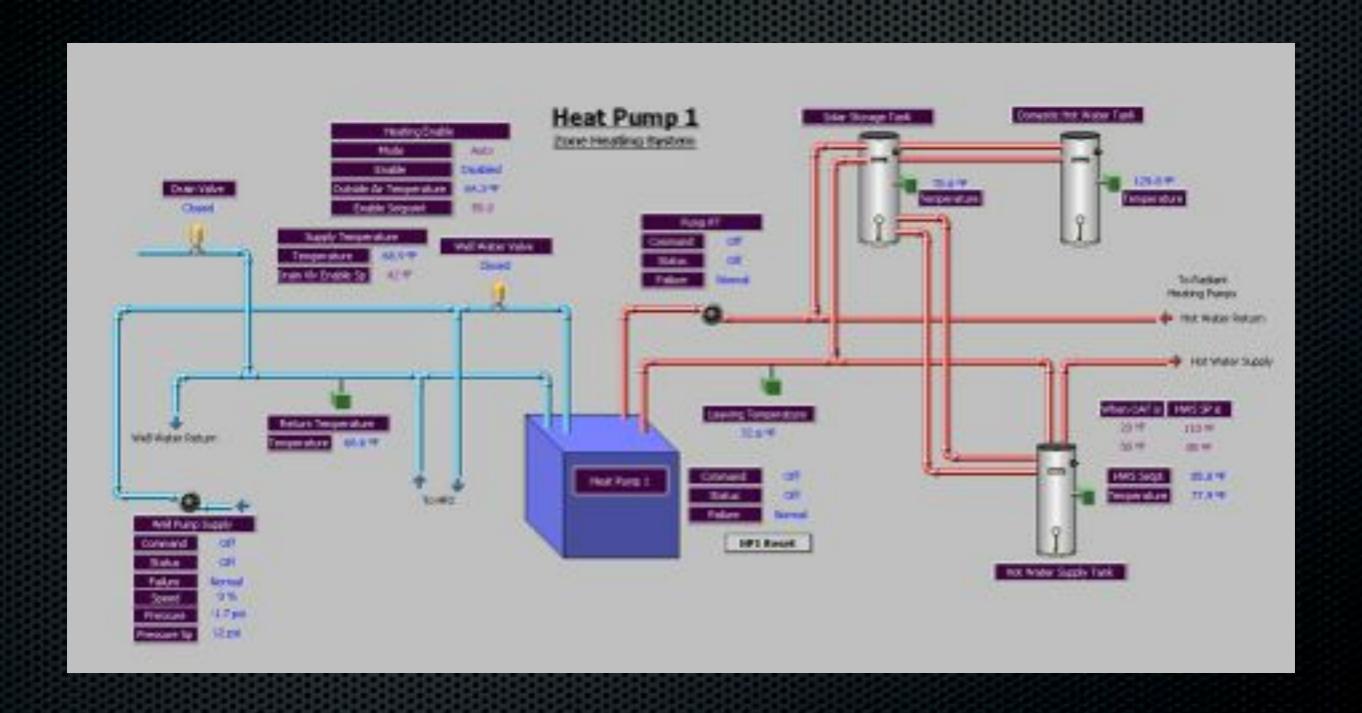
#### Power meters?



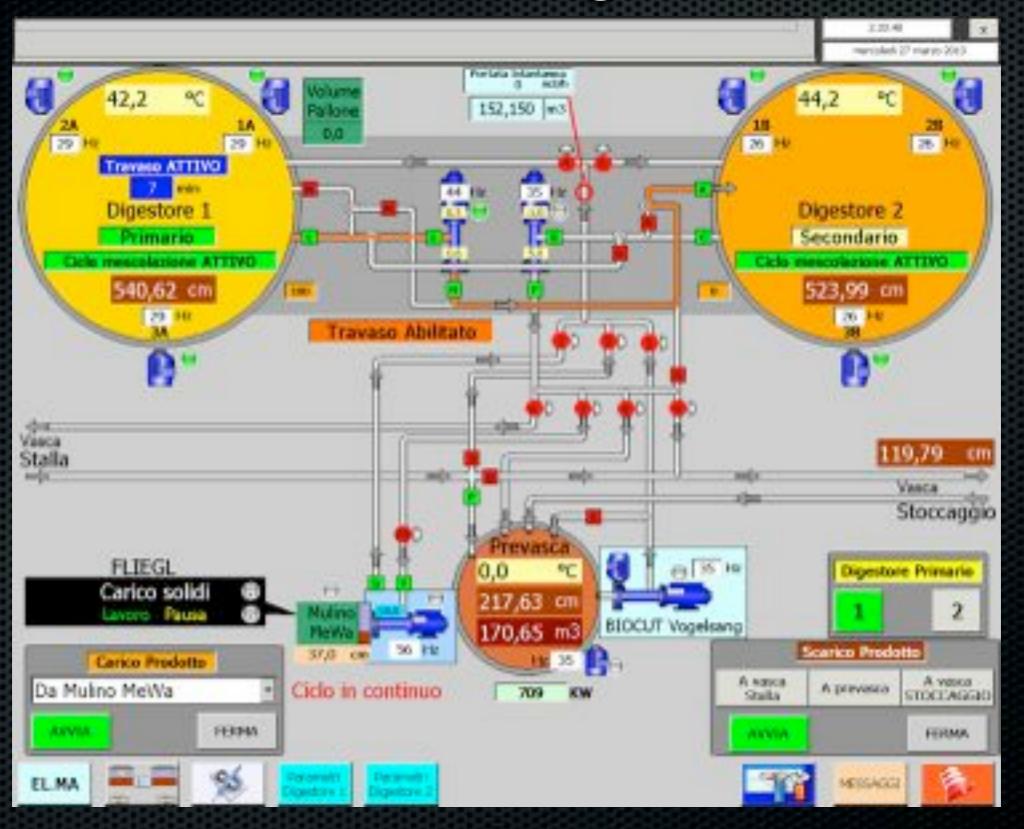
### Heat pumps



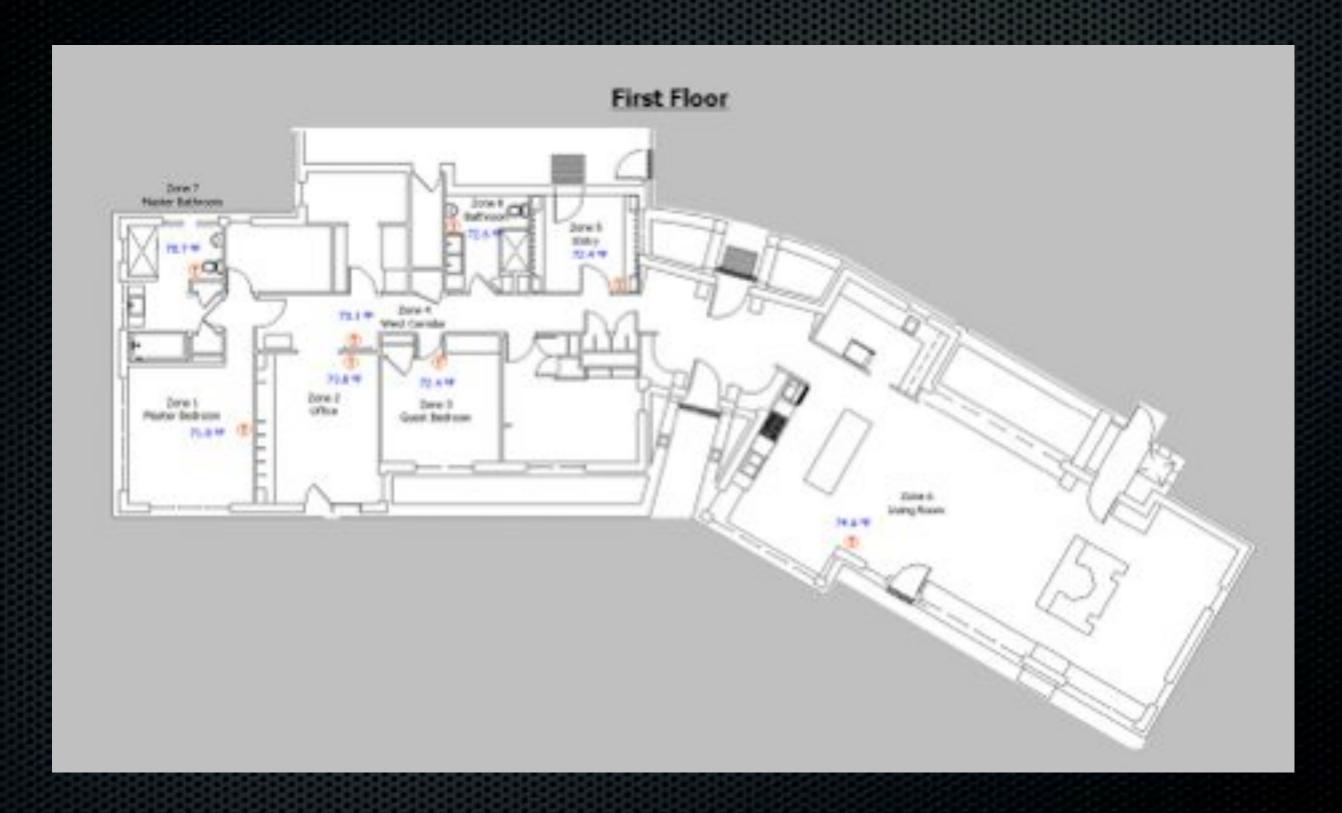
#### Bigger heat pumps



#### REALLY REALLY big heat pumps



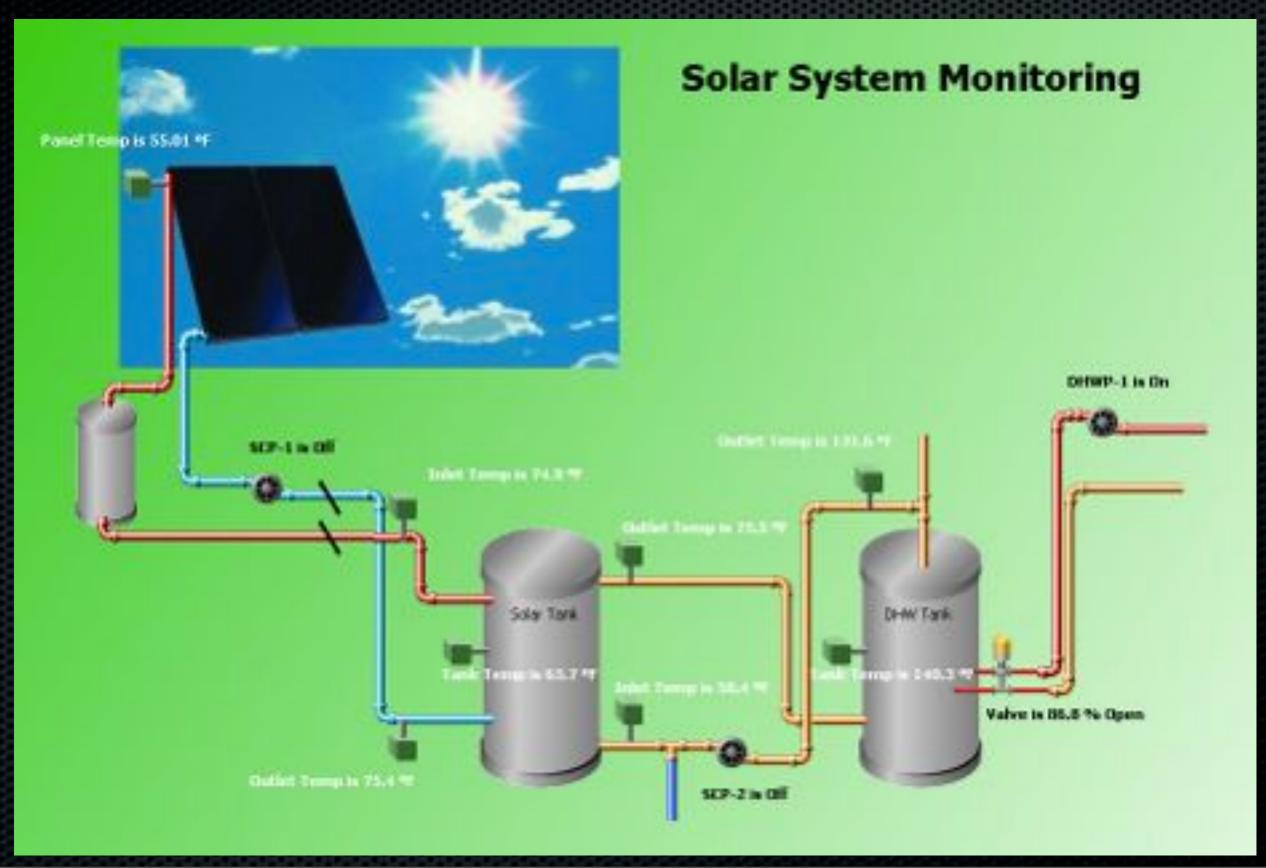
#### Private residences?!



### ... with trending data?!



#### Water heaters

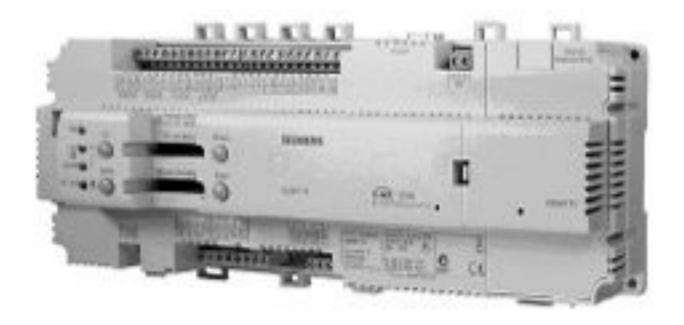


#### Familiar displays!



#### Larger industrial systems

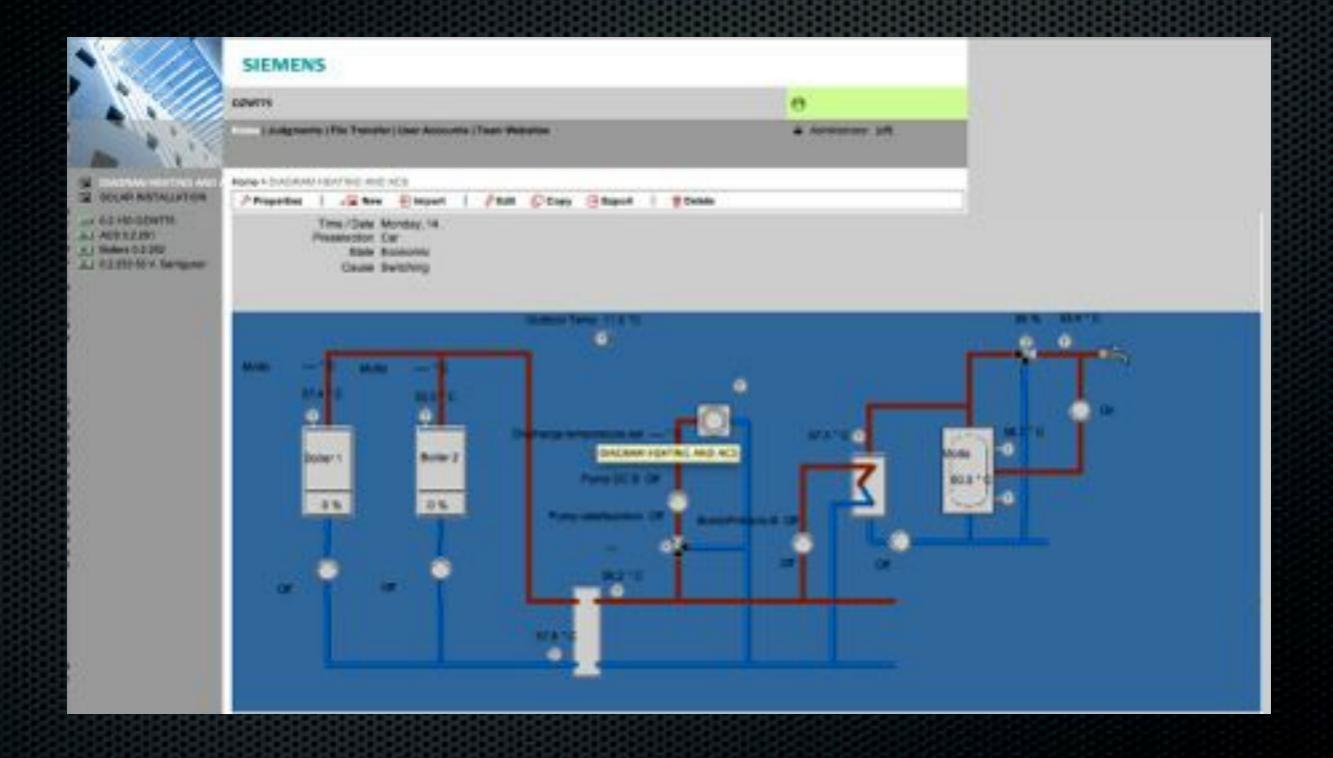
#### SIEMENS



Synco<sup>TM</sup>
Central communication unit OZW775 V2.0
with integrated web server function
Commissioning instructions



## Contents under presure



# Overall, security is a joke.

# Overall, security is a joke.

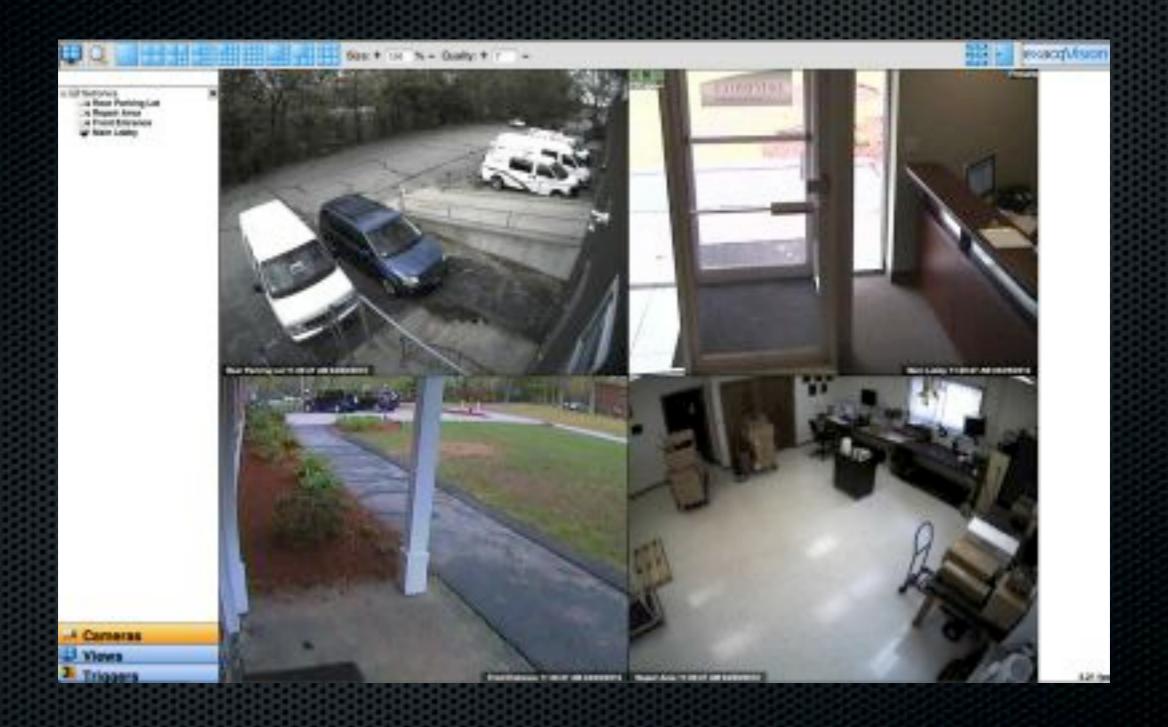
So what can one do with these sorts of findings?

It's like a fountain of information disclosure.

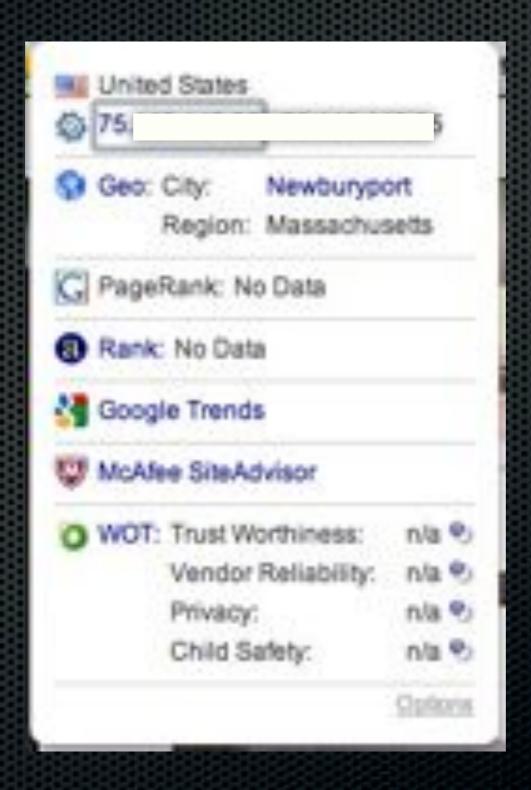
Level One:

Simple recon

## What details can we see?



## Quick observations..



# We've got their scent!



# They smell all the way to google maps!



Level Two:

Interactions

### DISCLAIMER:

I didn't have any idea this happened until someone showed me a gallery of screencaps...

# Simple social engineering

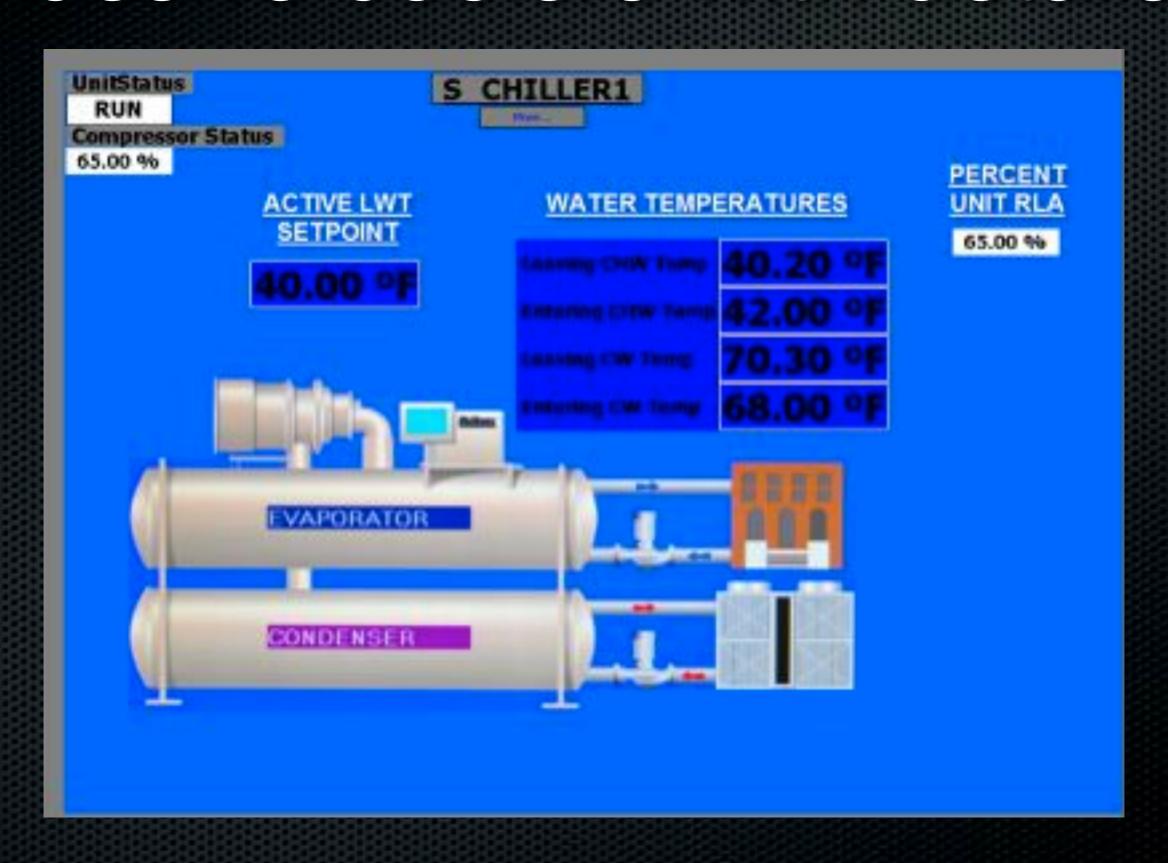




# Massive coolers



## Massive coolers with details!



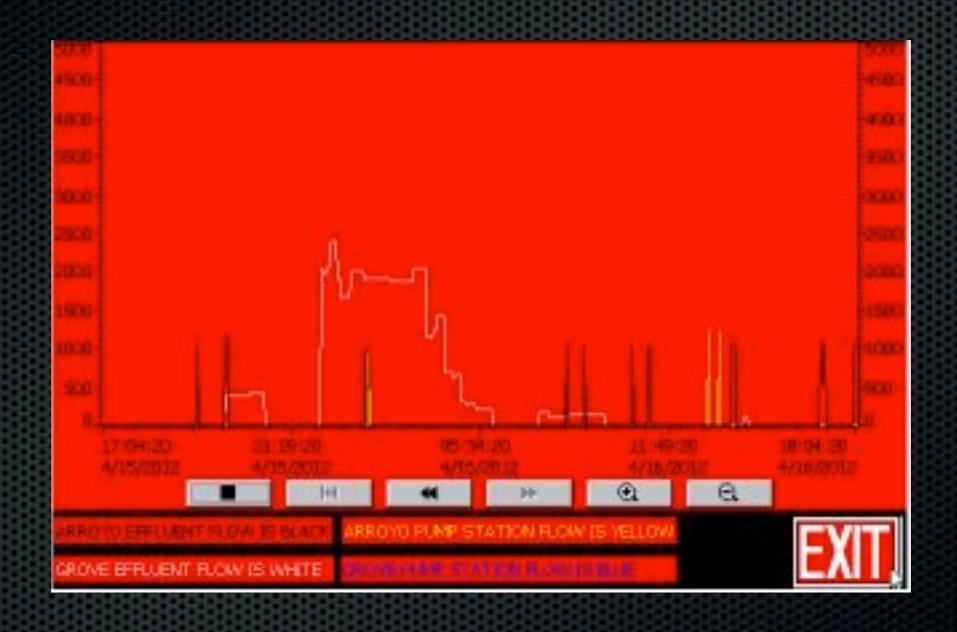
# Some scada keeps logs!

13-Apr-12 7:16:15 AM MDT	fex	1	Opened: 165 <- 0 :: WbApplet [guest] @ Owner-PC
13-Apr-12 7:23:07 AM MDT	fax	1	Opened: 166 <- 0 :: WbApplet [admin] @ Denniss-MacBook-Pro.local
13-Apr-12 7:24:40 AM MDT	fax	1	Opened: 167 <- 0 :: WbApplet [admin] @ Denniss-MacBook-Pro.local
13-Apr-12 7:25:19 AM MDT	fax	1	Closed: 166 <- 0 :: WbApplet [admin] @ Denniss-MacBook-Pro.local
13-Apr-12 7:28:09 AM MDT	fox	1	Closed: 167 <- 0 :: WbApplet [admin] @ Denniss-MacBook-Pro.local
13-Apr-12 7:31:53 AM MDT	fax	1	Closed: 165 <- 0 :: WbApplet [guest] @ Owner-PC
13-Apr-12 7:31:54 AM MDT	fox	1	Opened: 168 <- 1 :: WbApplet [guest] @ Owner-PC
13-Apr-12 7:56:51 AM MDT	fax	1	Closed: 168 <- 1 :: WbApplet [guest] @ Owner-PC
13-Apr-12 9:19:37 AM MDT	fax	1	Opened: 169 <- 0 :: WbApplet [admin] @ Denniss-MacBook-Pro.local
13-Apr-12 9:22:55 AM MDT	fax	1	Closed: 169 <- 0 :: WbApplet [admin] @ Denniss-MacBook-Pro.local
13-Apr-12 9:24:02 AM MDT	sys	1	Saving station
13-Apr-12 9:24:04 AM MDT	history.db	1	Saved history archive (494ms)

# Massive power/UPS gear.



# VNC Touchpanels



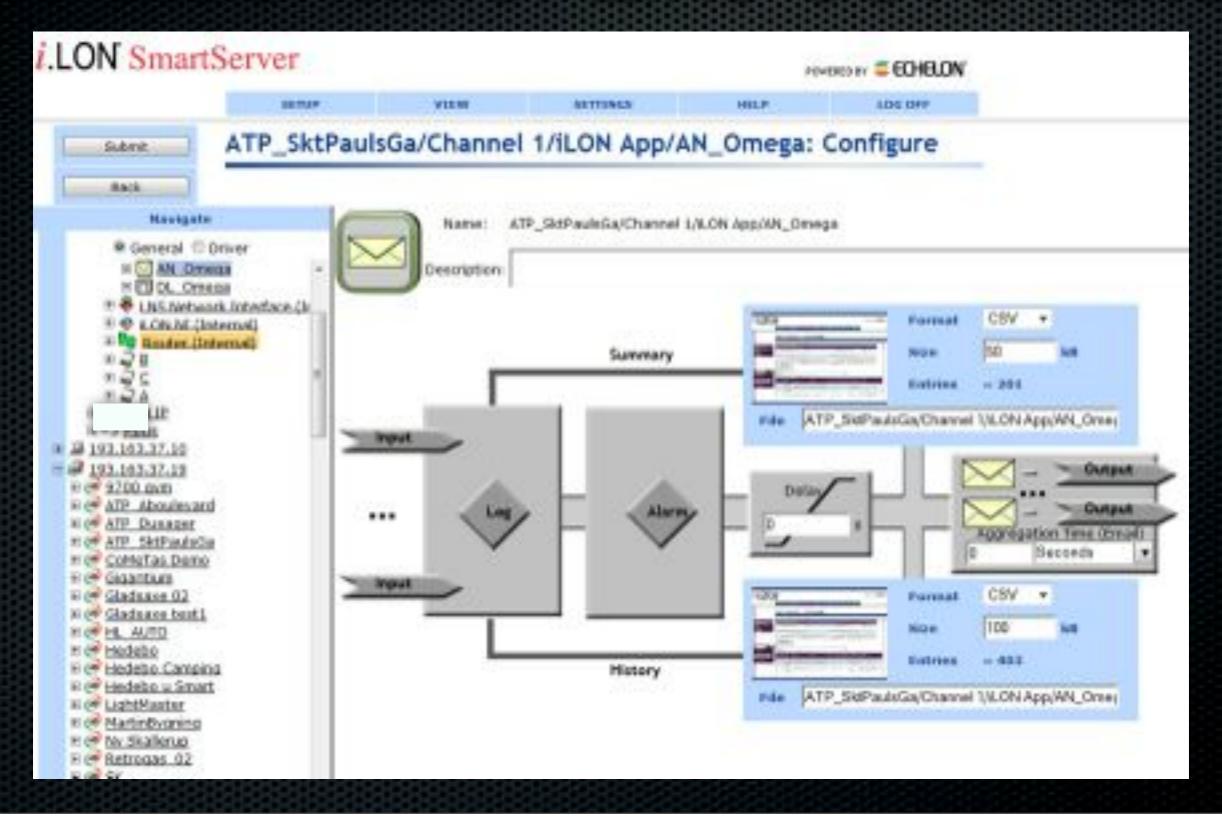
## Level Three:

Stuff that can be abused and is actually kind of scary

# Lonworks devices



## Its stackable! Like devo hats!





Idræts - og Kulturcenter

forside

GIGANTIUM

presentation

nyheder

arrangementer

anvendelse

referencer

#### Presentation

Storhal

Isarena

Is traning

Ice skating on private

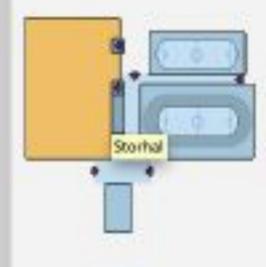
Isarrangement for companies / individuals

Sports hall

Foyer

Meeting Rooms

Outdoor



#### Storhal



Great Hall is a heated limbrashuehal, with more than 6,000 square meters of DINapproved 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.



#### Contenta

Hedebo Strendcamping Camp Information

Location Map

Cabin Rental

Camper Rental

Activities.

Sights

Atmosphere Pictures

Directions

Hedebo Classic MC

Season Room Rates

Offers

Prices

Query:

Links

#### Site info



Hedebo Strandcamping.

Frederikshavnevej 108 9,300 Smby Tel 98461449

Fax 98401313 Email the s lba

Open: 30.03. - 09.09.

LON 10 \* 30 '54,7308 \*

LAT 57 \* 21 '20.2752 \*



Short. Route



Features

#### 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 sunbattre 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.



#### Colendar

26-05-2012 Flee at Hedebo

➤ Reas more

More events





#### Sæby Svømmebad



Discount Appointment Adults: DKK 30 Childrent £ 16 Wellness: 45 kr.





### Skallerup Klit





365 dejlige dage

☐ | HOLIDAY HOMES & PRICES | ACTIVITIES | WELLNESS | FOOD & DRINKS | TOURIST GUIDE | CONFERENCE | FAQ |



Booking
Offers
Brochures
Herwitetter
Gift certificates
Activity summary

WHAT TO SE AND DO I



CONTACT US D

Phone: 0045 9924 8400 Info@skallerup.dk

HOW TO FIND US III



HOLIDAY HOMES & PRICES

Prices 2012

- Lavpriskalender 2012
- Worth knowing
- Have a REAL holfday...

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.

Amoking is prohibited in all holiday accomodations and pets are not permitted in the £4 and £2 apartments.





Classic cottage A4 Number of people: 4

Info

Prices

能







Classic cottage A6 Number of people: 6 + 2

I Info

Prices







BOOK

Sna 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?

# What about phones?

Phones indexed by shodan!



# 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?

2070 Diognostics Acceptance Test Coltrons Version 2.1 DAMEERI

URMS: DAT/dot

DO NOT USE WHILE CONTROLLER IS SEING USED FOR TRAFFIC CONTROL OR SERIOUS DANAGE, INCHEY OR DEATH MAY DECLER !!!

Forming!
Shutting off controller while running the flosh senory test may corrupt files, or other data on the flosh drive

\*\*\* DAT form Hers \*\*\*

- 1) Processor
- 2) Front Ponel
- 3) Field 1/0
- 4) Asymc Ports
- 5) Sync Ports
- 5) Hoden Tests
- 7) Utility functions:
- B) Fun Continuous
- 9) Configure Standard Tests

# AUTOPLATE. Not red-light cameras.. something else

```
Escape cherenter in "" .
POTO explication Apr 80 JBBS 89:42:23
PSTZ Seriol Number: 5996
pcb:1, vers:83, rel::86, build:885
PAR: 120M @ 120M EFFOR: 502M
Flex expediities 880F
    Commerce Firmworks: 4,34
       262 epid veru: 13
    AMPR enabled for: USA New York & surrounding , 2262
    Operating system: C EDEELTINE 3.3
aprom image checknam; 1486
     opplication cres 3e57
 current config are: ably
reference config are; shift

    Iratalied options: BECROBSE

* ... Boxic VES with no sucarity
* ... USA Licenseplate recognition
* PIPS Technology AUTOPLATE (ta) license plote recognition
* VES - (violation enforcement system)
SOTTAN
Avoitable Commonds are:
        nyutan
        potrive.
        client
        44
        1000
        bep
        MES
```

# PIPS: The company that makes autoplate.



## PIPS:

## want license plates?



# DakTronics.



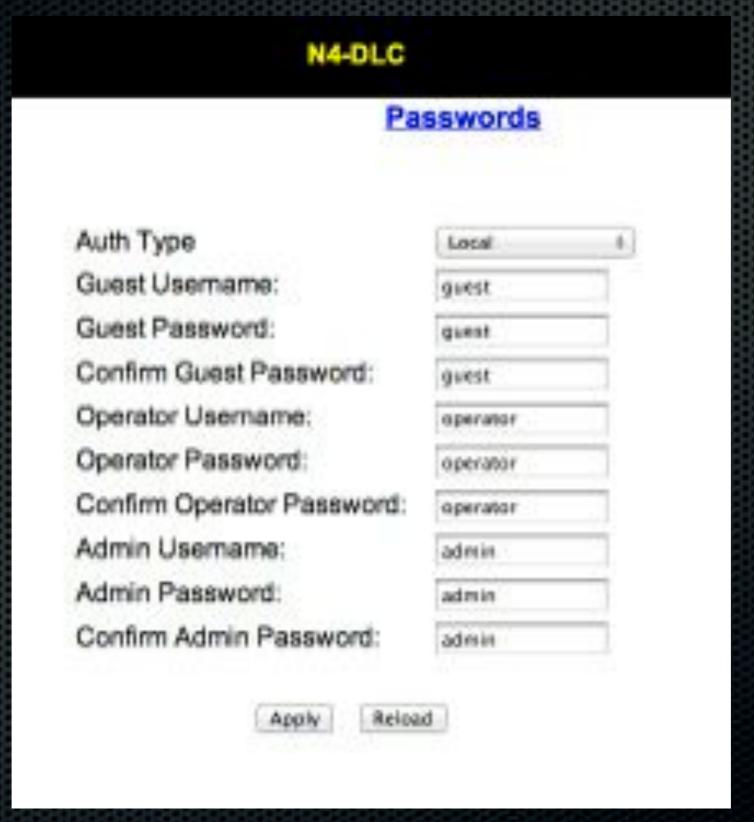
# DakTronics.



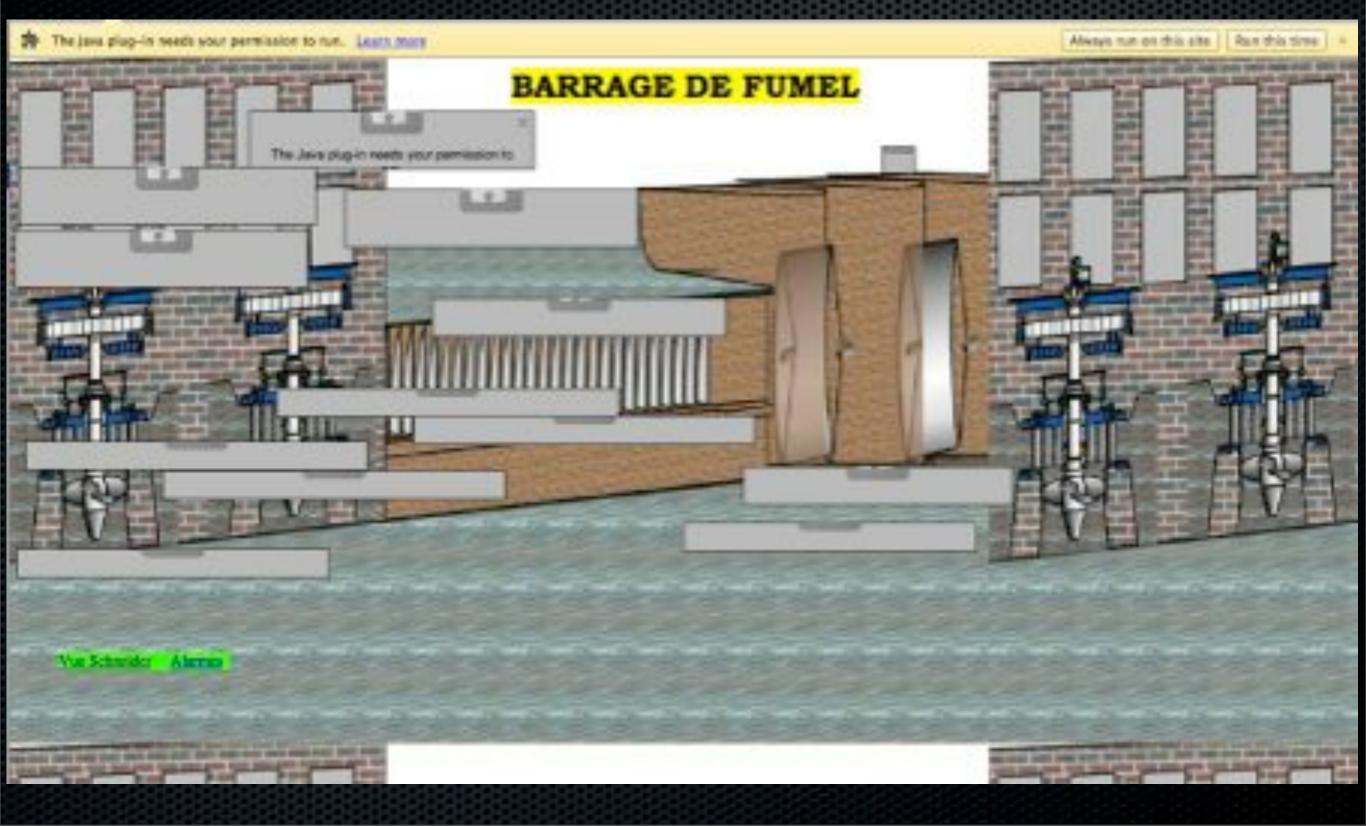
# Ruggedcom!

Pa	Passwords		
Auth Type	Local	- 4	
Guest Usemame:	quest		
Guest Password:	*****		
Confirm Guest Password:	*****		
Operator Username:	aperator		
Operator Password:			
Confirm Operator Password:	*******		
Admin Usemame:	admin		
Admin Password:	*****		
Confirm Admin Password:	*****		

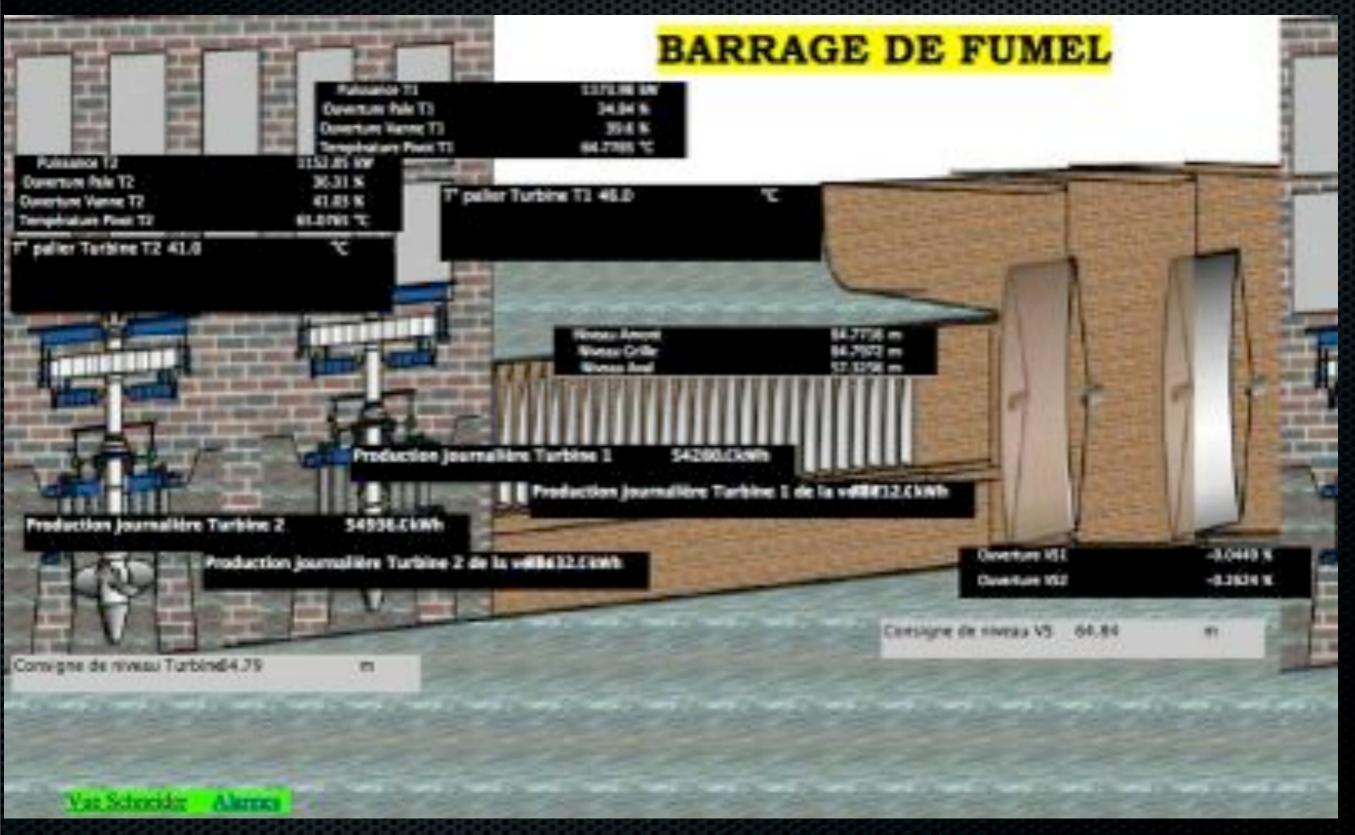
# Ruggedcom!



# Malware on safari?



### kW?.. wat.



POSTED ON 22/01/2008 8:59

ADD A COMMENT

#### Dam Fumel residents want assurances

A MEETING WAS HELD YESTERDAY IN FUMEL THE FLOCOS LAST FRIDAY, IN THE PRESENCE OF ALL PARTIES AND RESIDENTS.

C ow to live next to a dam. Delicate question which rested on Friday when the waters of the dam Fumel began to rise. Quickly. Very quickly. Too fast for riparian ffoles. At that point one of them even got up to 50 inches of water in his house. Some seniors even had "the fear of their lives when some electrical appliances began to crack." How to live next to a dam if you do not know what can happen. Yesterday, a meeting was organized in Fumel in the presence of all the authorities to take stock of the situation. And very soon, it seems that the appearance of criminal acts Friday has passed. This confirmed that the building manager Philippe Gronchi for "energy Fumel": "We fully recognize our responsibility and of course we will draw the consequences. This dam is an old building which dates from 1943, bought the company in 2005 Sogetec. We have already achieved more than 14 million euro investment and probe this issue, because it is a problem of probe will be resolved as soon as possible. "In the audience, listening but we are still angry. "Before, it never happened. There, that's three that we suffer floods in 9 years. You understand that we are tired all the more that we are not and never prevents as soon as the water rises, it is we who call the fire department. In addition, there are many older people who live in fear. We would like this to stop, "said a local resident.

#### an alarm float

Philippe Gronchi speaks again: "We had a second warning that Sunday has confirmed that this was a concern of the probe. Of course, we will soon be remedied this problem by doubling the particular probe. In the meantime, there will be someone who will be present to manage the flow. " Later, an alarm float should be installed at Condat to prevent rising waters. And the head of the DRIRE adds: "In the past, there was an agreement that was signed between EDF and the factory. At each rising waters, signaling was performed. It might be good to update this agreement. " But certainly the rising water was normally regulated in recent years without automatic warning from the factory.

Another point discussed during the meeting last night, the insurance. Again, residents were reassured by the firm that provides the dam. Damage will be covered only necessary that such residents concerned make a declaration to their insurance as soon as possible, which will then return. And the mayor of Fumel, Jean-Louis Costes, also ask that the insurance can pay more quickly damaged equipment.

Lourent Michel Lasserre with Moure.

#### I put that on twitter.

A day later DHS called my cellphone.

Also, that UI was built in frontpage.

### YES, FRONTPAGE.

ONSCADA

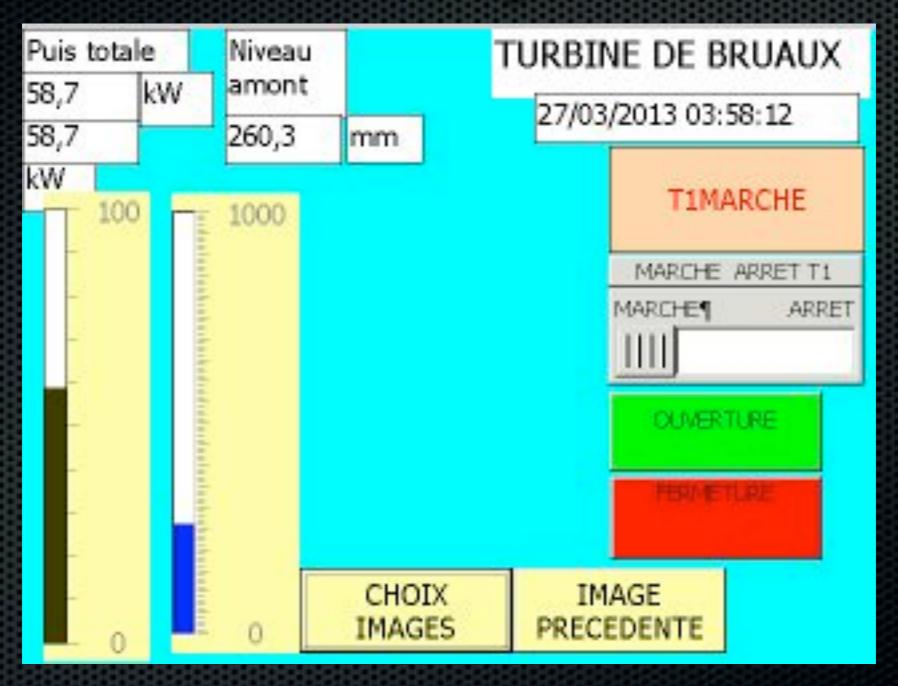
## SOMEONE

## NIERNEtkale kalsiknbflkajbe gkbja



# You'd think they'd LEARN.

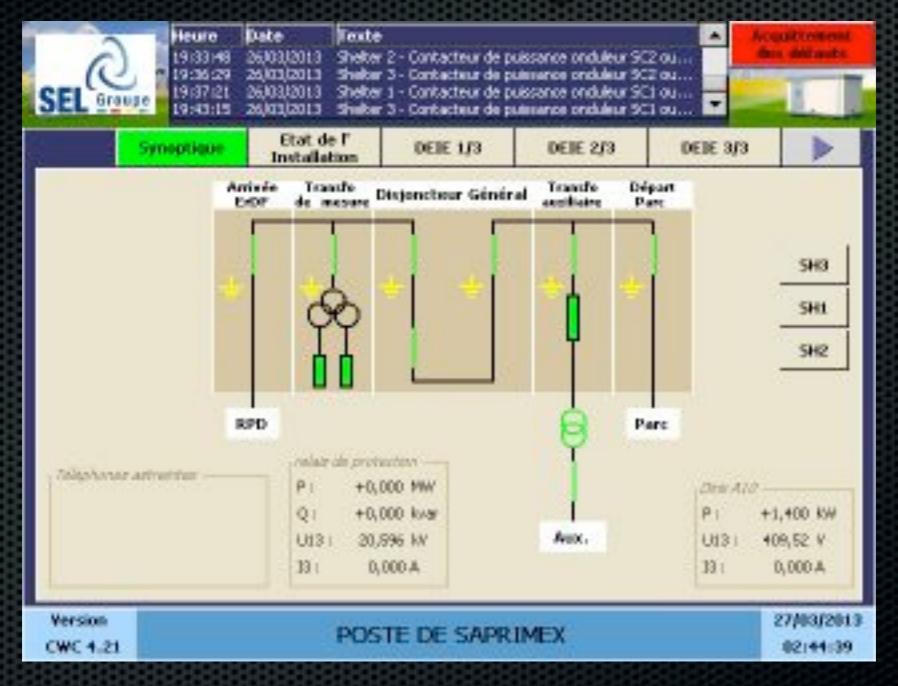
#### .. but they dont.



#### ... they really dont.



#### .. they really dont.



### Satellite systems



### NAS storage arrays



### "LaserWash" Car Wash Systems

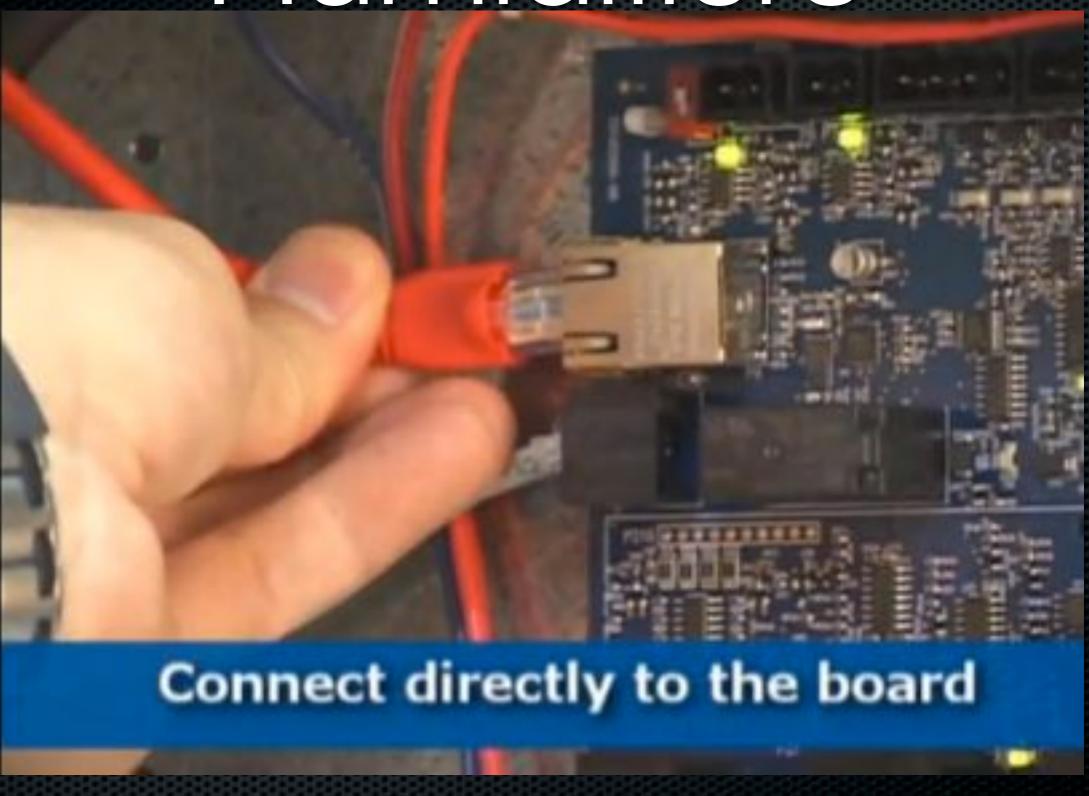
Abort/Recovery Options
Door Settings
Dryer Settings
Freeze Protection
Installed Options
Machine Dimensions
Machine Offsets
Timers
Water and Chemical



#### Humidifiers



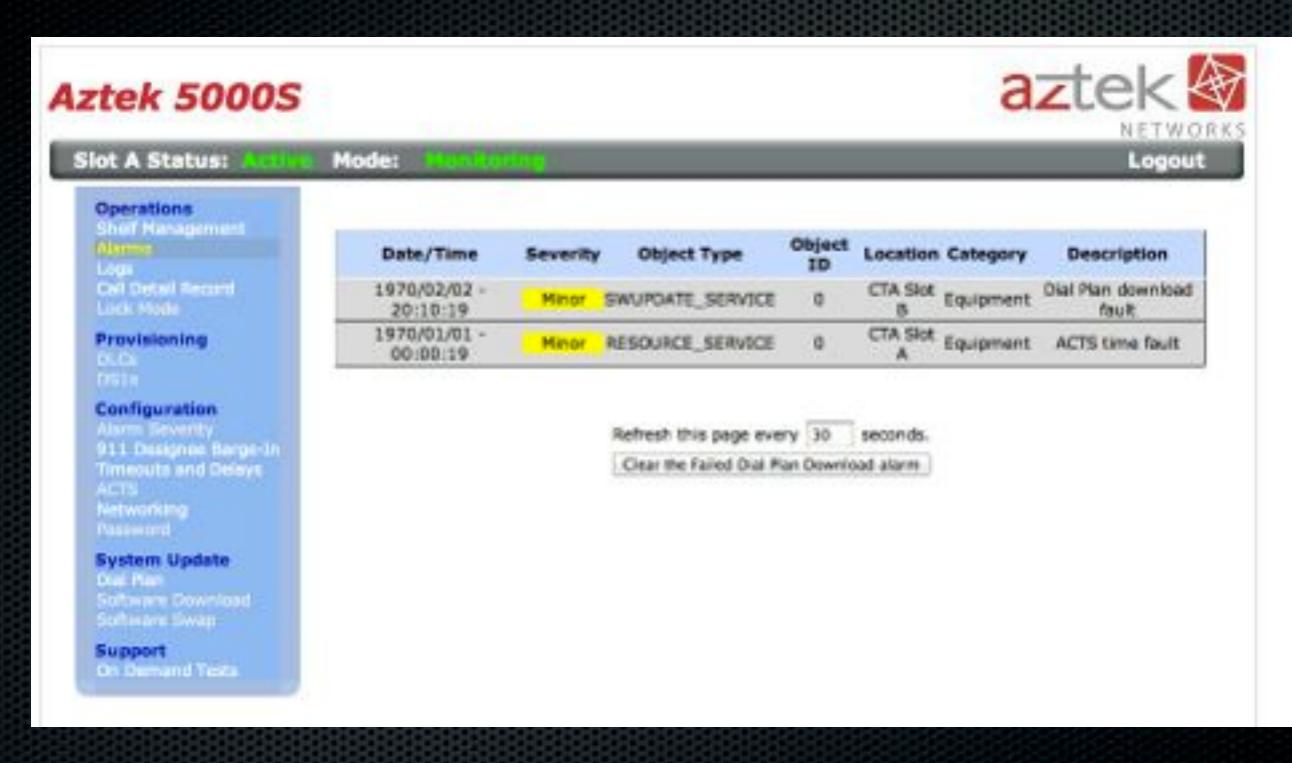
### Humidifiers



### Emergency Telco gear



### Emergency Telco gear



#### wait what?

```
// 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.nmartins.com)
// 1997--- 2001-
// Log of changes:
        10 Aug 01 - Support for Setscape 6
17 Feb 98 - Fix initialization flashing problem with Netscape
        27 Jan 98 - Root folder starts open; support for OSBTENTLINKS;
11
                    make the ftiens a je file
// Definition of class Folder
```

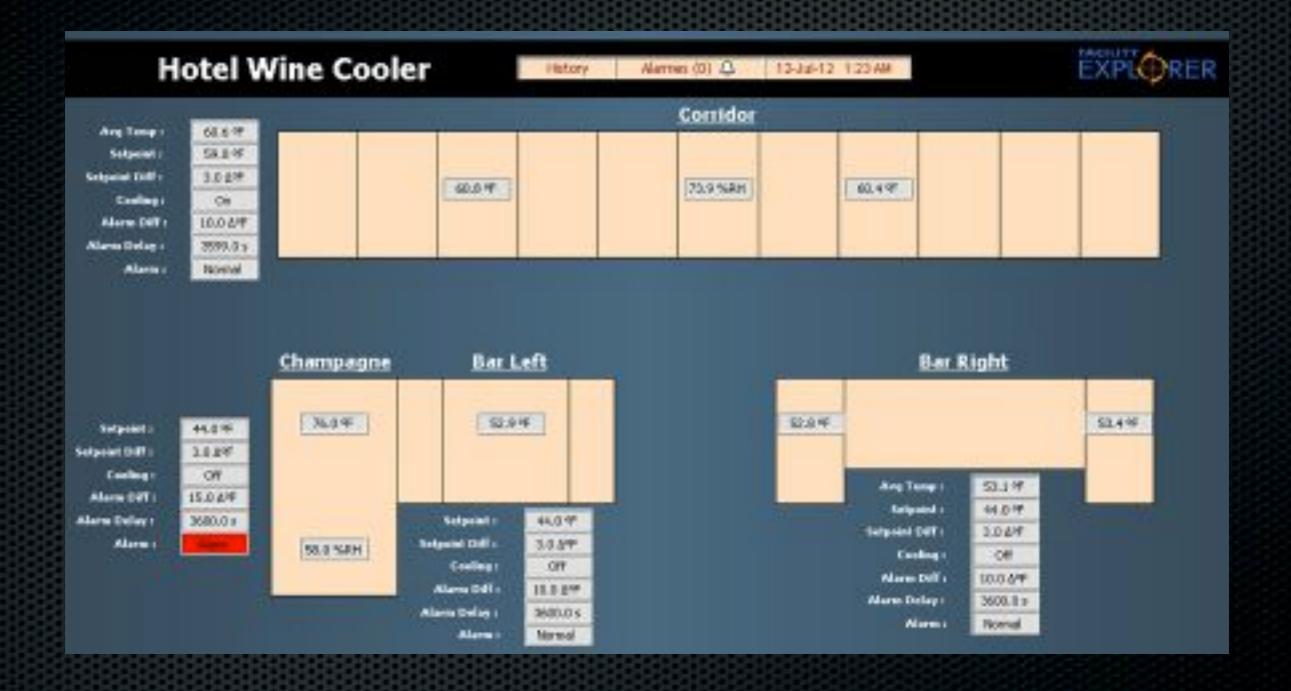
### ...speakers?

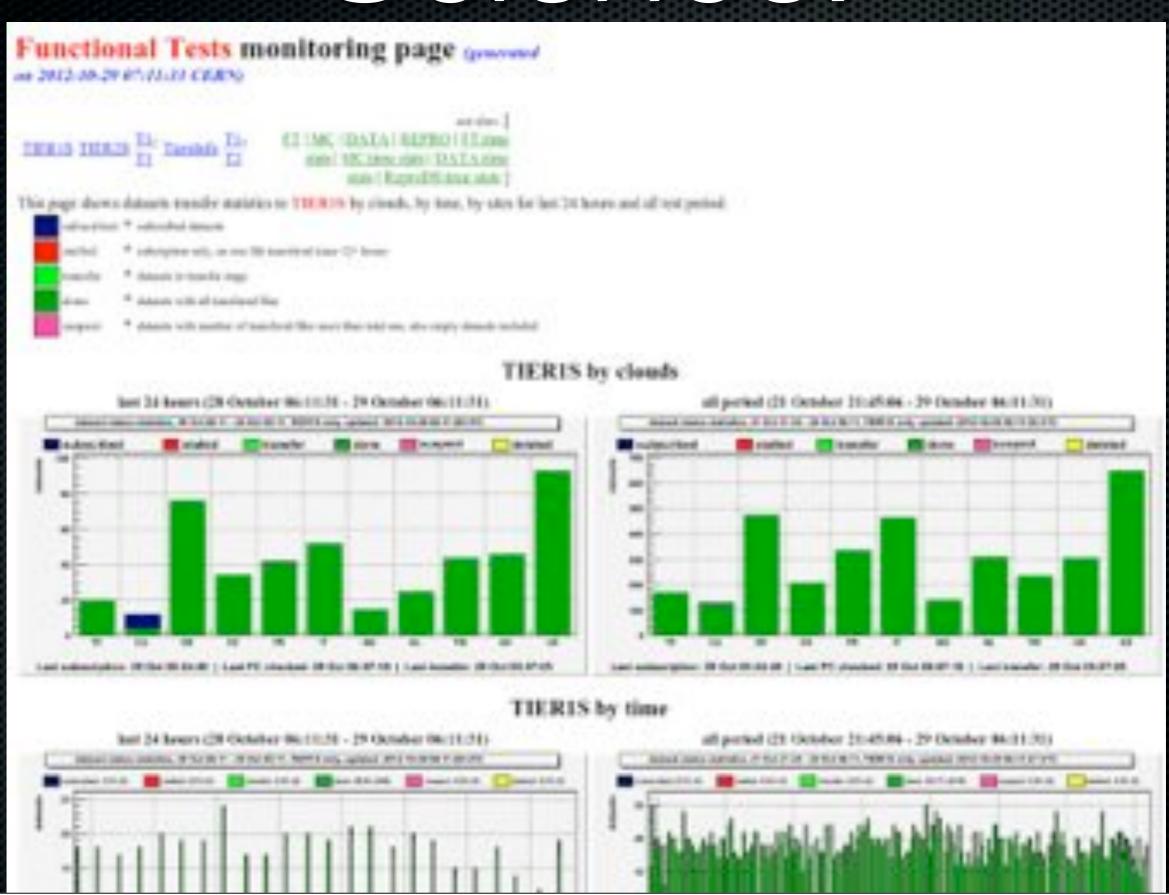


### A massive wine cooler

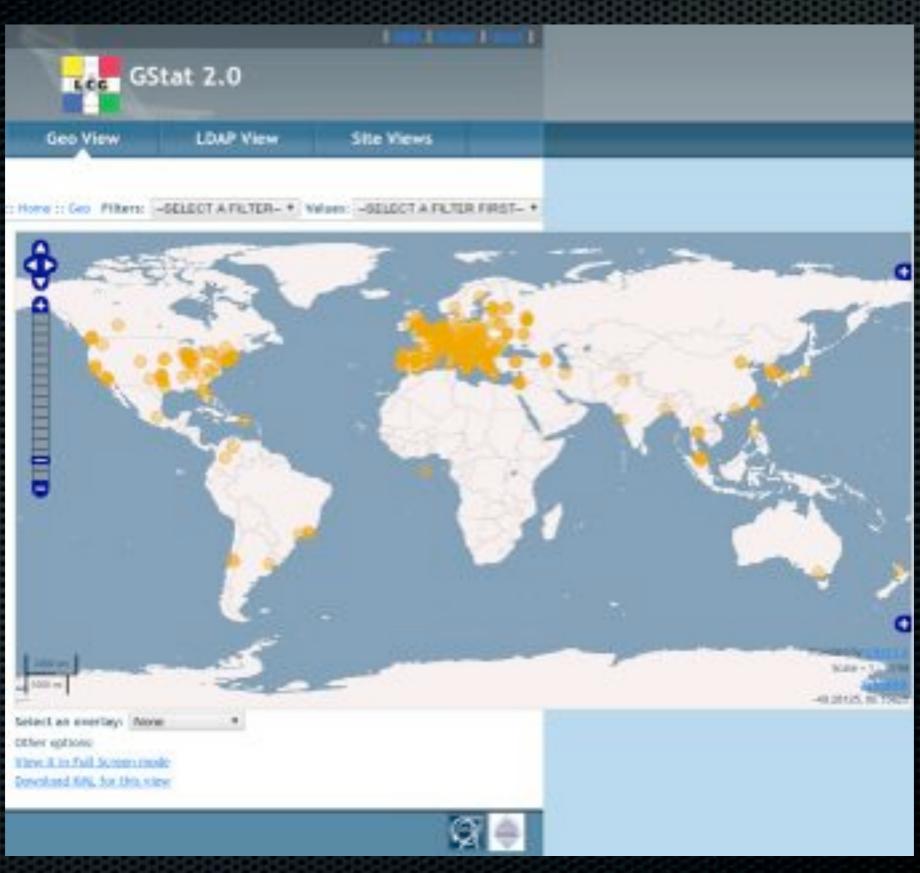
Station •	A Root To Desgra Nebworks	Root [4] Dentre Noberte 47 NZ Neberte 19 1-8107-02 🐨 Points					
* Navigation	Detabase						
- 2 74.101.125.141 (Mark_Hotel_Wine_	Name	Long Name	Тури	Dut	Network Point Type	Netwo	
E Device Netverla	Tenp Chanpagne	T3	Nuneric Point	76.0 F (sk)	Analog Data Roat	1	
E Can NZ Nativork	<ul> <li>Hundity Champagne</li> </ul>	HS	Numeric Point	50.3 %RH (dd)	Analog Data Ploat	4	
E 1-P1007-01	Setpoint Temp Champagne	9013	Numeric Writable	44.0 % (overridden) @ 8	Analog Cata Float	17	
Points	O Diff Temp Champagns	DETTS	Numeric Writishie	3.0 AFF (overredden) (D 8	Analog Data Ploat	18	
E 1-F1007-02	Alam Off Chargagre	Reference@witTJAvg	Nuneric Writable	15.0 AF (overridder) Ø8	Analog Data Float	20	
<b>●</b> 2555	Alarm Delay Champagna	DelayTereAlT2vg	Numeric Writable	3500,0 x (ak) (0 daf	Analog Data Most	21	
(a) Nagara Network	Cooling Champagne	943	Enum Point	Off (66)	Binary Data	1	
Schedule Manager	Alerti Chierpagne		Bookean Point	Alarm (alarm, unad/adAlarm)	Binary Data	3	
Link Manager	Avg Tenp Bar Right	Aug14	Numeric Point	53.0 年 (44)	Analog Cata Float	5	
Point Groups	Temp Ser Right Left	744	Nurseric Point	52.7 P (ak)	Analog Data Plast	2	
Global Point Extension Manager	Tenip Bar Right Right	748	Nuneric Point	53.2 F 666	Analog Data Roat	3	
Alerti Coracie	Setpoint Temp Bar Right	3p14	Numeric Writable	44.0 T (al.) (p.daf	Analog Data Float	22	
Point Histories Administration	ORTHANT3Avp	OfficenT3Mg	Nuneric Writable	2.0 F (ol) @ def	Analog Data Float	19	
# En Piles	O Diff Temp Ser Right	Def14	Numeric Writishie	3.0 GP (overridden) @ 8	Analog Data Float	23	
Custom Control	Alam Diff Bar Right	ReferenceShiftT4	Nuneric Writable	10.0 &°F (ok) @ def	Analog Data Float	24	
+ A AlerraService	O Défidient14	Dfff4am14	Numeric Writable	2.0 T (old 10 def	Analog Data Float	25	
EraBervice	Alerin Delay Bar Right	Alambelay14	Numeric Writable	3600.0 s (old @ def	Analog Data Float	26	
Email: Decipient	Cooling Bar Right	594	Enum Point	Off-fold	Binary Data	2	
Cutgotrg/count	Alarm Bar Right		Boolean Point	Normal (ok)-	Binary Data	5	
* A History Container Wew	O Alem	Alem	Enum Point	Alarm (ok)	Binary Date	4	
Point Extrension Defaults	OffsetT3	OffsetT3	Numeric Writable	0.0 F (ok) @ def	Analog Data Float	13	
Ba BackupService	Offset74A	Offset16A	Numeric Writishie	0.0 T (sk) 10 def	Analog Data Ploat	14	
A there	Offset14B	OffsetT4B	Numeric Writable	0.0 % (sk) @ def	Analog Cata Roat	15	
⑤ Time Sync	Offsett0	Offsett0	Numeric Writable	0.0 % (ak) (p) def	Analog Data Ploat	16	
Platform	Remote/tslueAlt	RenoteNtske4/t	Numeric Writable	0.0 % (3.6) @ def	Analog Data Roat	16	
₩ Web Service	O Remotes/whenAIZ	RemoteValueACI	Nament Writishin	OUT (ak) O del	Analog Data Plost	+	
Serial Port Configuration	RevoteVske433	Renote/toke483	Numeric Writishle	0.0 F (5.8) @ def	Analog Ceta Roat	8	
Dialup Configuration	Day of the	- Constituted theme	A SHALL				

#### A massive wine cooler

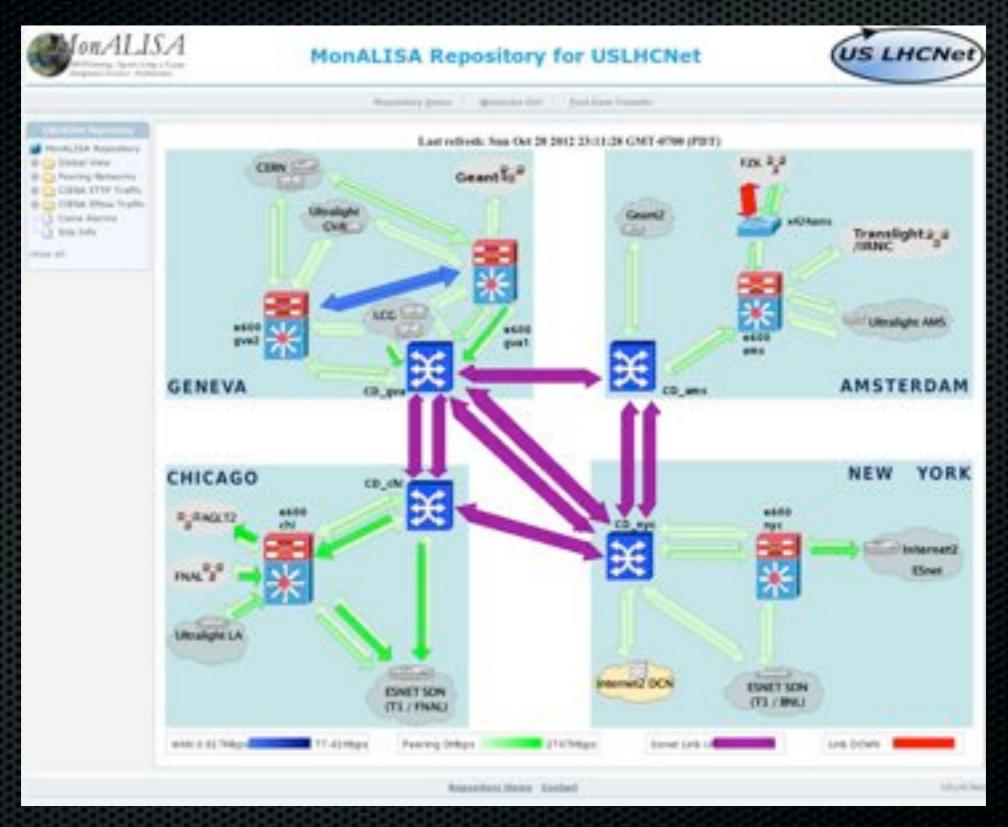


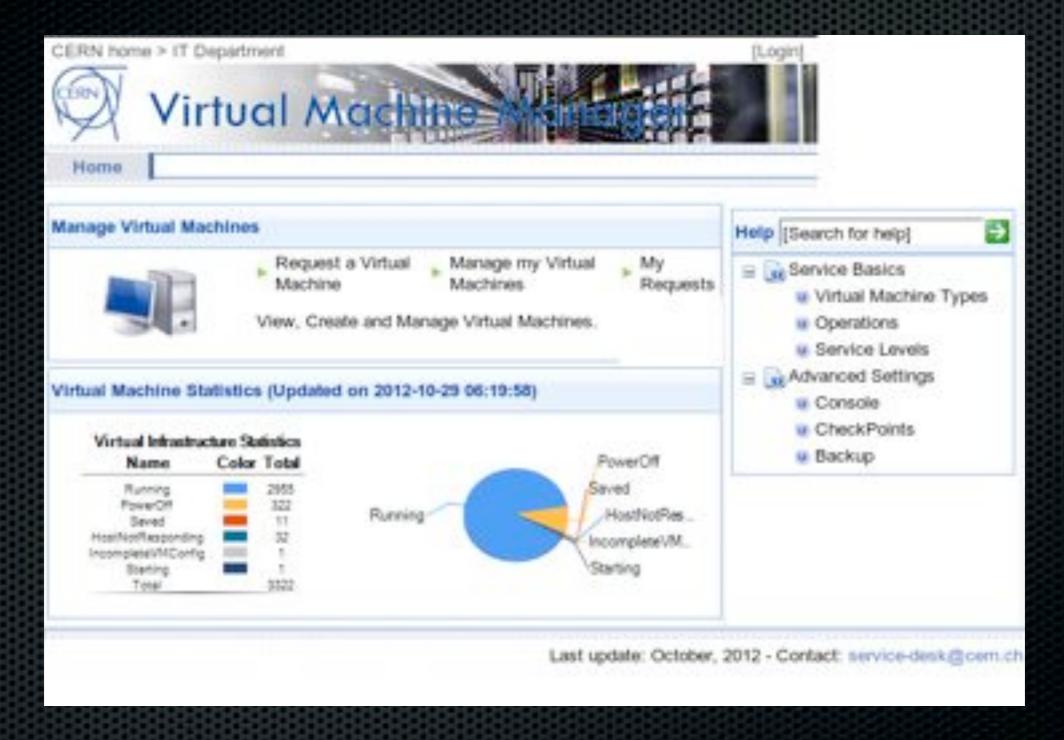


## Sciencel







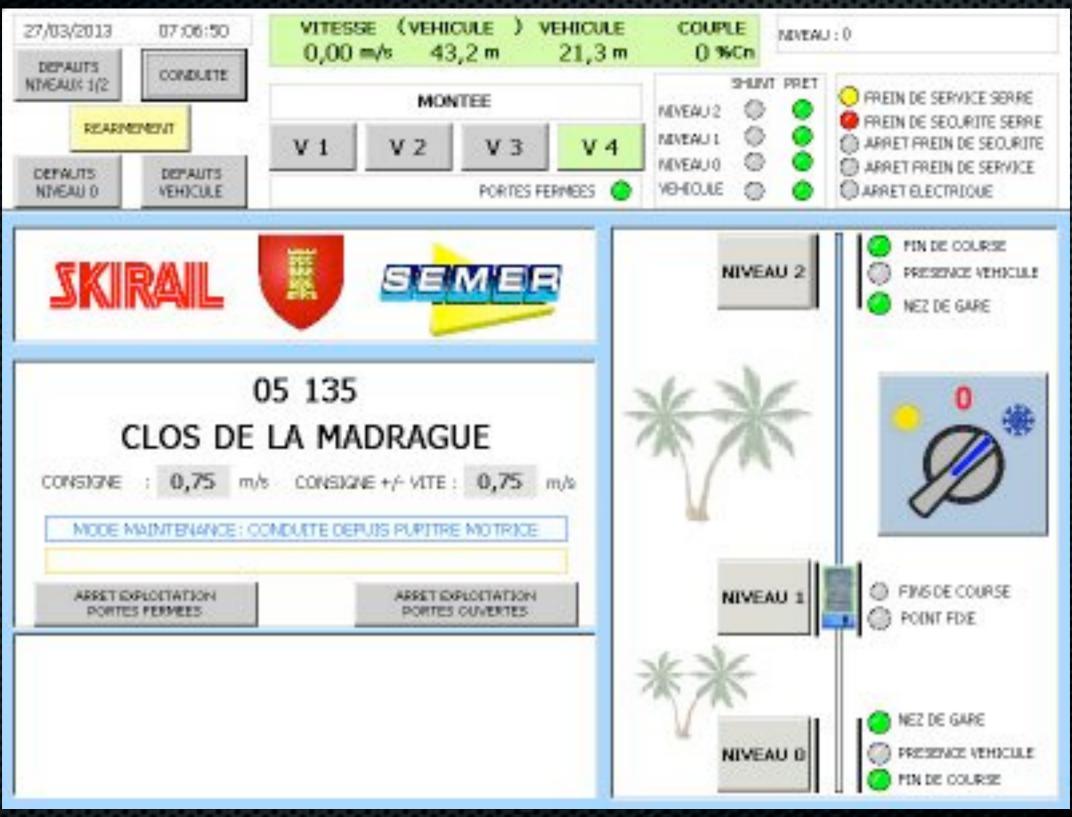




# Almost all of those are offline now.

#### THANK YOU CERN :D

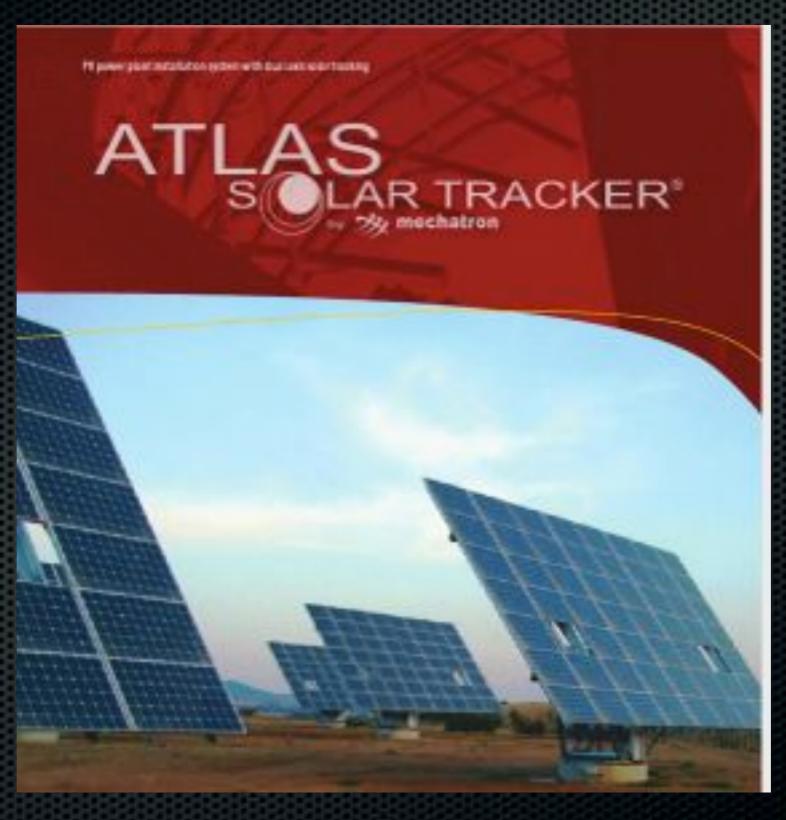
### Ski trip, anyone?



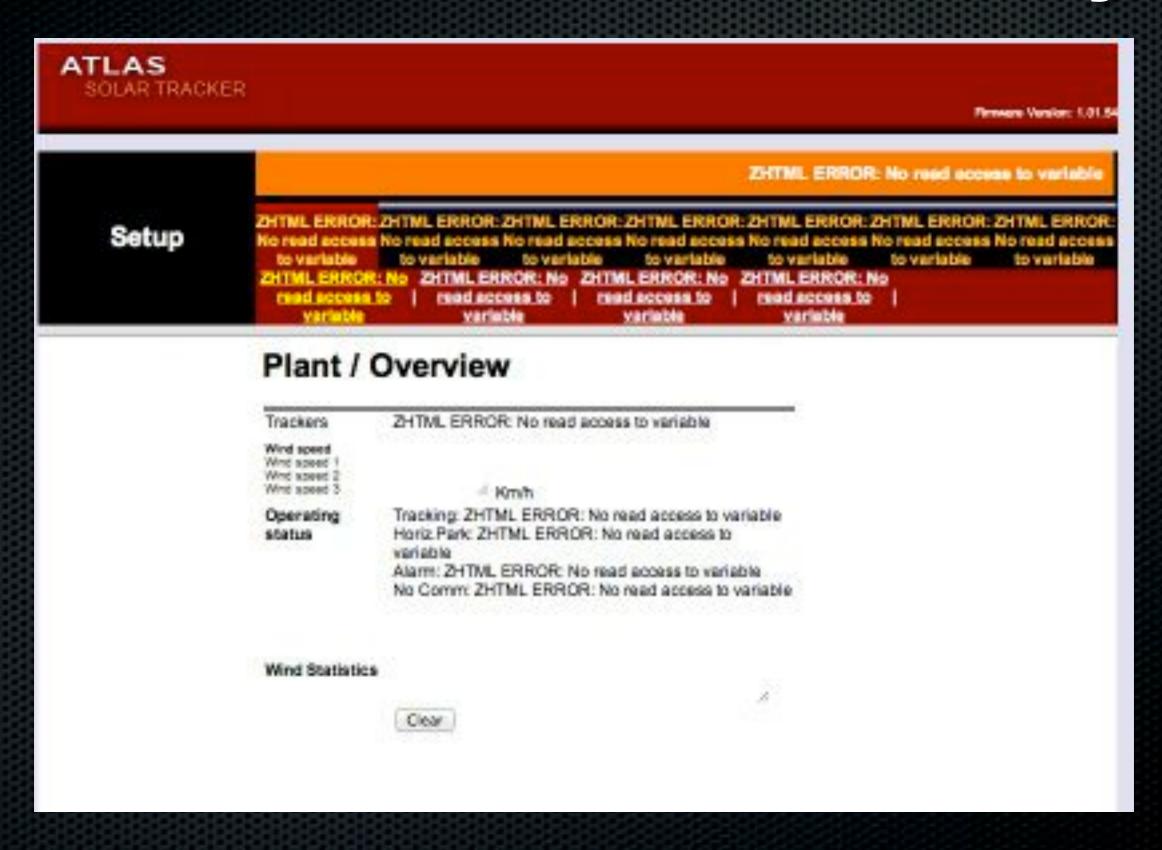
## Massive solar arrays



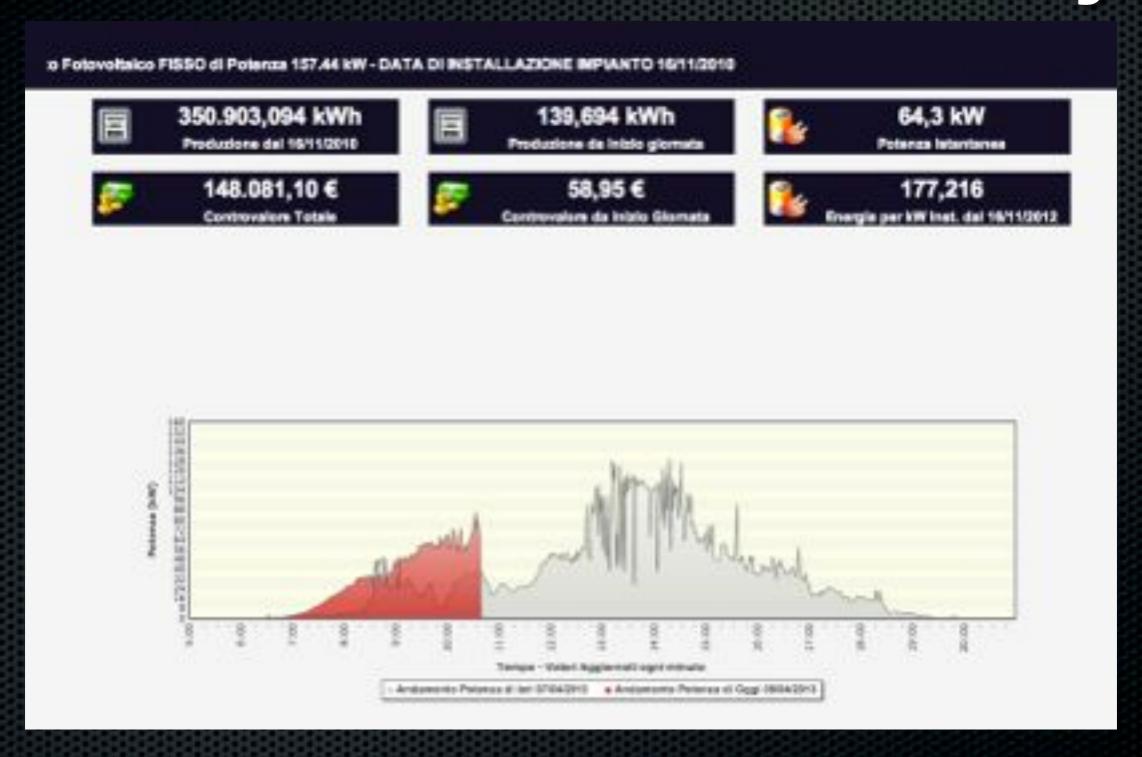
## Vlassive solar arrays



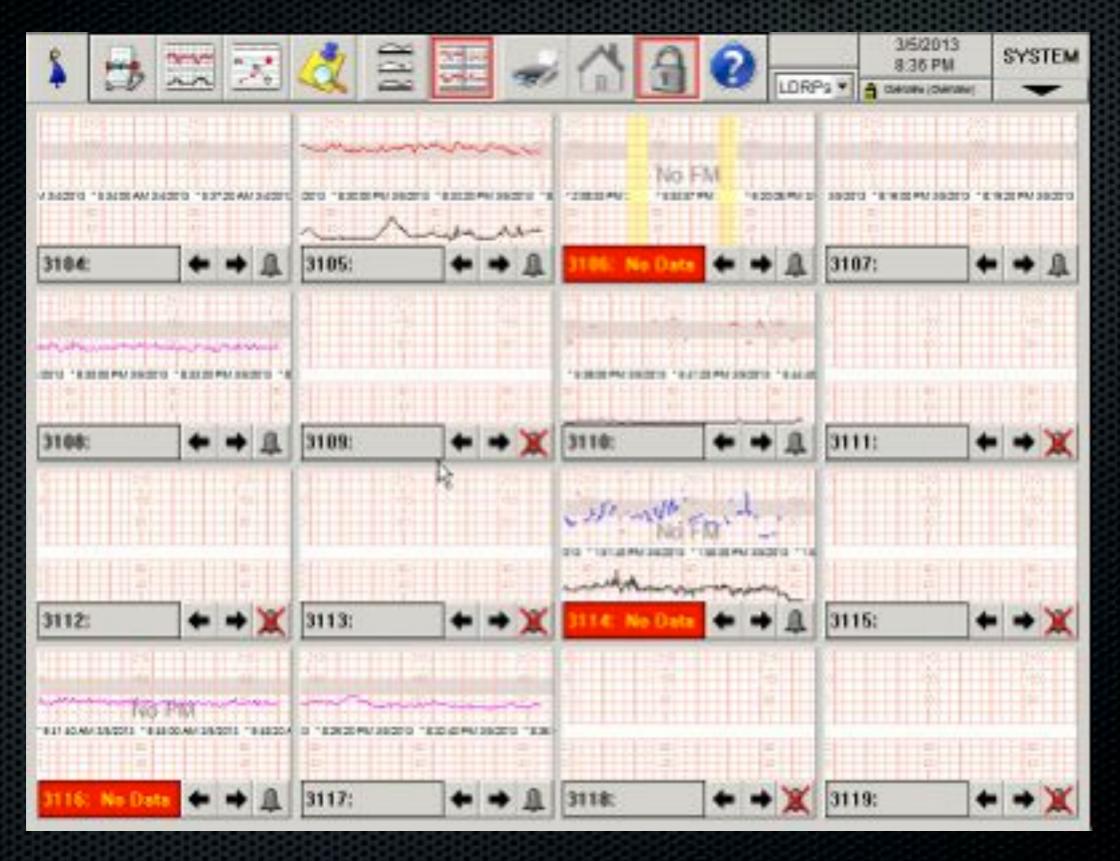
### Massive solar arrays



## Massive solar arrays



#### TraceVue



#### Home Automation





#### :: TR-49 Series Images (click thurchrall for larger Image). Key Features: Supports 802.11a/g modes OFDM Technologies Configurable in Point-to-Point, Access Point or Client modes Quality of Service (QoS) Dual Powered Bihemet Ports Web-based administration interface Robust Routing Security (WEP, WPA, MAC Authentication) Turneling Protocol Support Configuration LEDs (if in Access Point mode) Alignment LEDs (if in Client Adapter mode) SNMP. Latest firmwere releases have support for 5, 10 & 20 MHz channel bandwidths. Includes: PoE, Boot-cover, Mounting Kit (Dual Sthernet Boot Cover Optional)

#### Overview:

Tranzeo Wireless Technologies has received FCC approval on the TR-49 Series of product which is designed specifically for Homeland Security use in the 4.9 GHz frequency band. This spectrum has been allocated by the Federal Communications Commission for the exclusive use of Municipal, State and Federal Agencies.

Tranzeo Wireless Technologies products in this spectrum allow for the rapid deployment of Wireless Networks facilitating such varied uses as Video Conferencing; rapid internet and database access to vital data such as maps, building layouts, medical files and missing person images; Voice over IP (VoIP) communication; and audio/video surveillance.

These product lines represent a monumental shift in Tranzeo's product offerings, as all previous products operated on unlicensed frequencies.

```
SMMFV2-MIB::symDessr.8 = STRIMG: Trongen TR49Rt, DS 6.5.8(1824), FM TR49-5.8.7Rt
. 4.9GHz, 19dBi int. onterno
SMFFV2-MID::symbbjectID.8 = DID: SMFFV2-SMI::enterprises.24575
DISMAN-EVENT-RIB::symlpTimeInstance - Timeticks: (29875895) 3 days, 18:59:16.95
SMFPV2-MIB::sysCorkect.B = STRIMG: Corkect.
SMFFY2-N15::sysMome.8 = STRING:
                                            Sets 155
SMMFYZ-MID: : mymLocot.ion.D = STRIMS: Locot.ion
SMFV2-MID::sysServices.D = INTEGER: IS
IP-NIB::: (Manber, D = IMTERER: 3
3F-MID:::Firsher.1 = IMTEGER: 1
3F-MIB;;ifIrelest,2 = IMTERER; 2
1F-MIB:::flrdex.3 = 1MTEDER: 3
IF-MID:::/fbencr.1 = STRING: M:F:DBC.11n
1f-Min;; (fDescr.2 - STRIMS; Etherneth
IF-MIE:: if Descr. 3 - STRIME: Ethernet1
IF-MIB::::fType.1 = IMTEGER: ::eee68211(71)
IF-MID:: if Type . 2 = INTELER: ethernetConocci(6)
1F-MIB::ifType.3 = IMTEDER: ethernetEssoci(t)
IF-MID:::: if Mt.u.1 = INTEGER: 1588
Æ
```

#### ... a fishery?



#### HAYMANS FISHERIES RIOT

List

Input



#### ... a fishery?



#### I'm in your scadas..



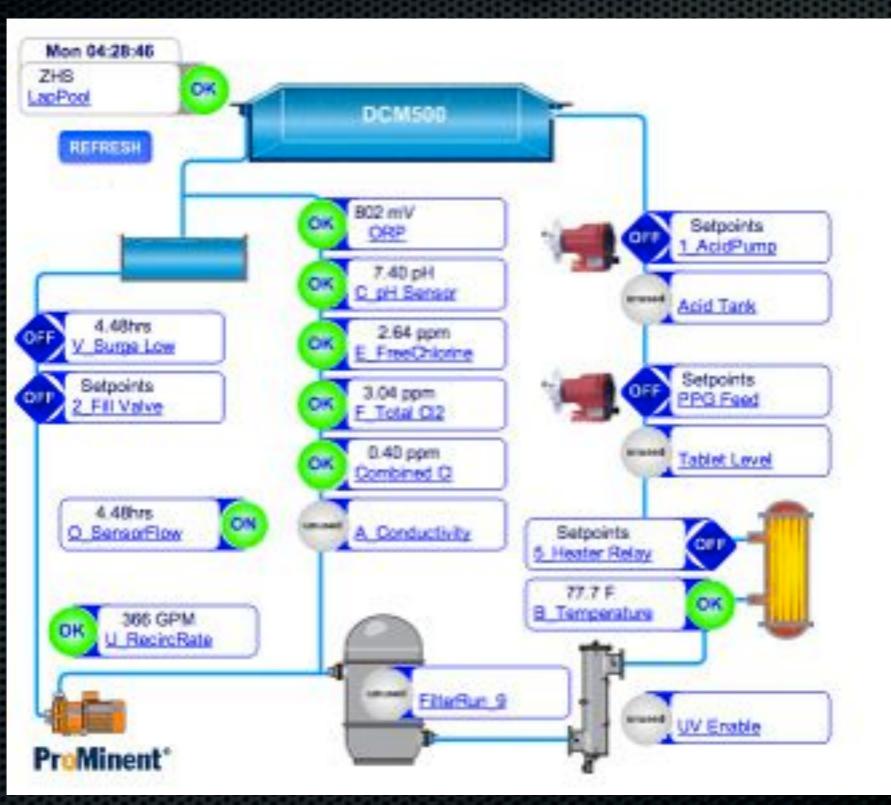
#### Wait, no, lobster chillmode



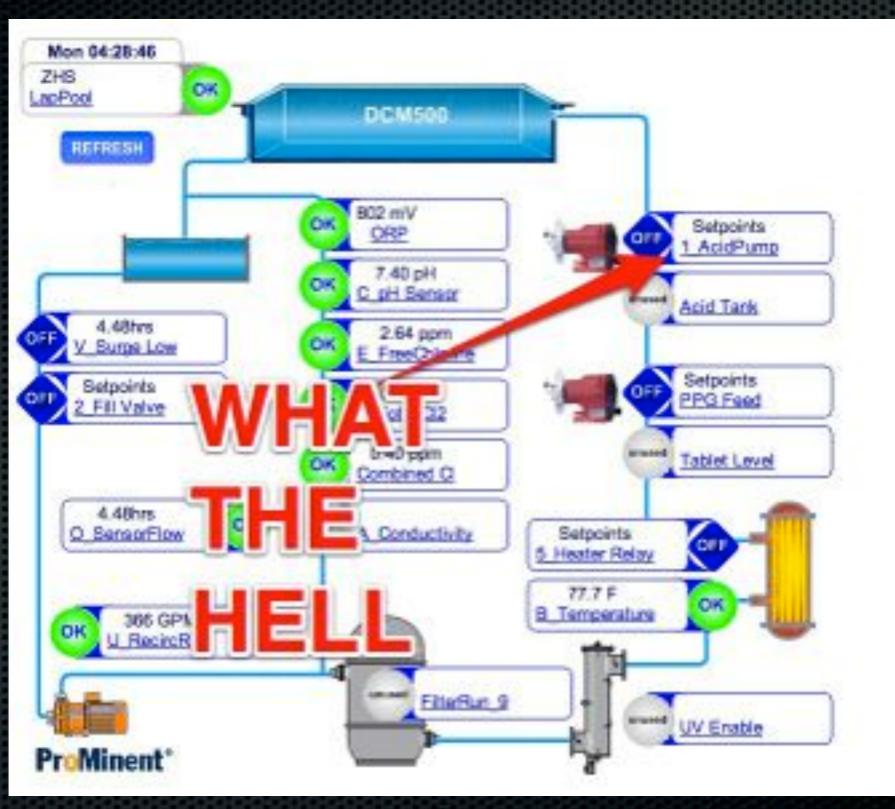
#### Cant forget the champagne!



### Swimming pools!



### Swimming pools!



#### Swimming pools!



#### ... really? An acid pump?

Installation Guide

ProMinent® DCM 200 series

Aquatic Water Quality Controller

## ... really? An acid pump?





#### so 80s style horror flick scenario



(these are actually defcon goons in a pile..)

### so jason vorhees shows up...



## But his victims are soup.



## He's gonna be PISSED.



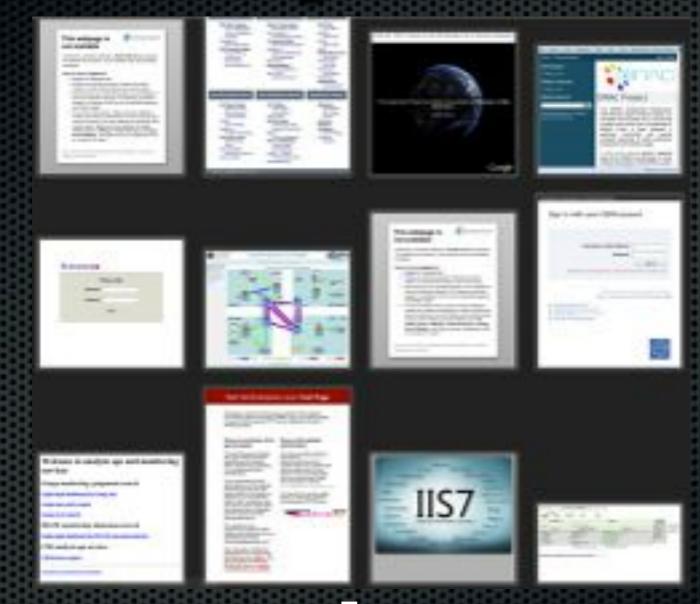
# So, Say you find stuff on your banjo dinosaur knitting adventure

A lot of stuff.
50,000+ results...wat do?

h/t @travisgoodspeed

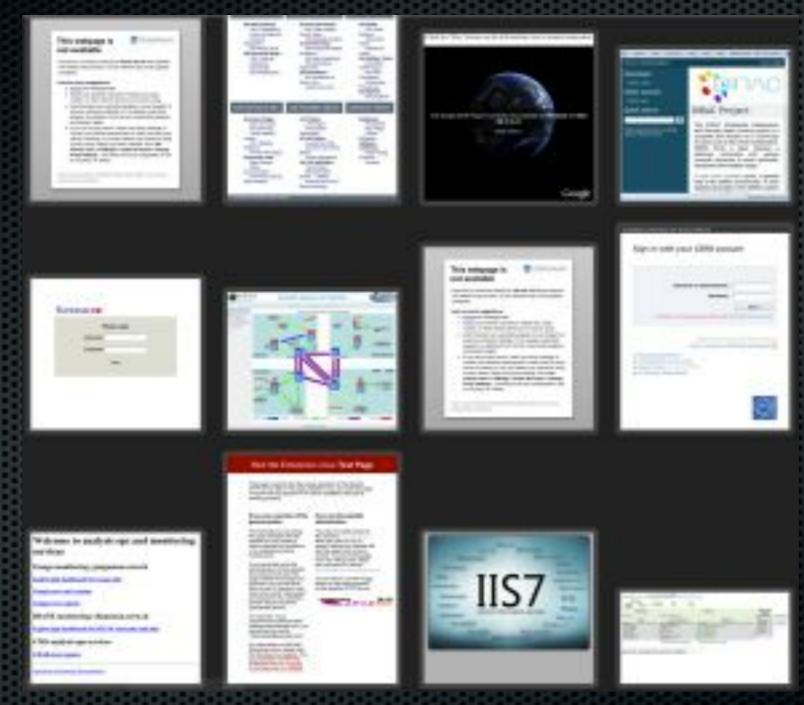
# Screenshot All THE THINGS!

#### 50k sites by hand sucks



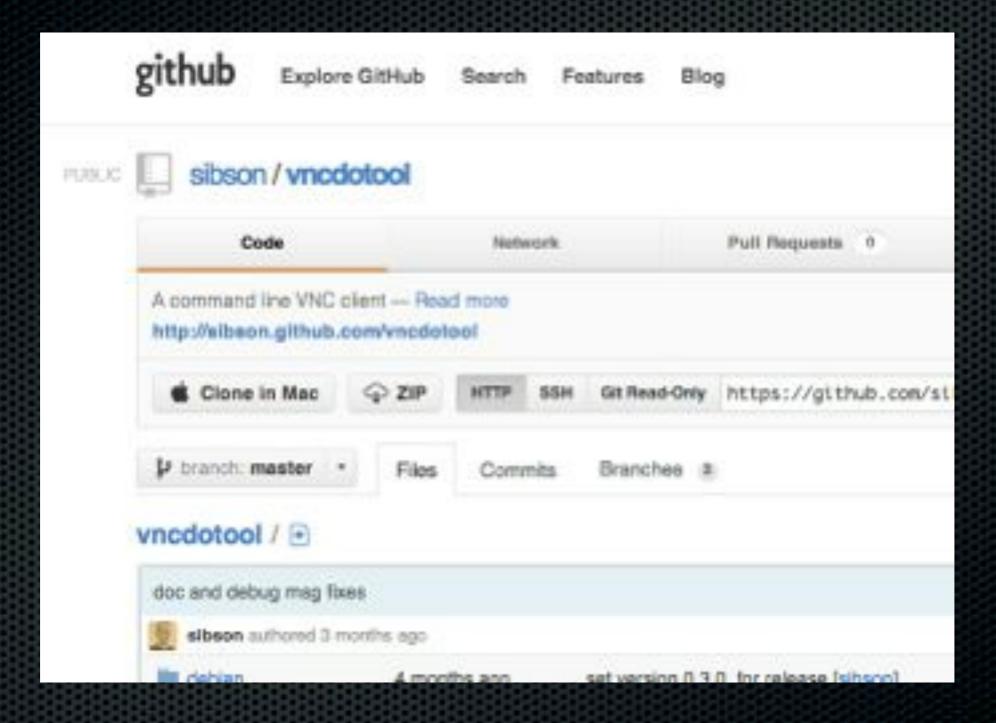
## screenshots are WAY faster! :D

#### I had help too



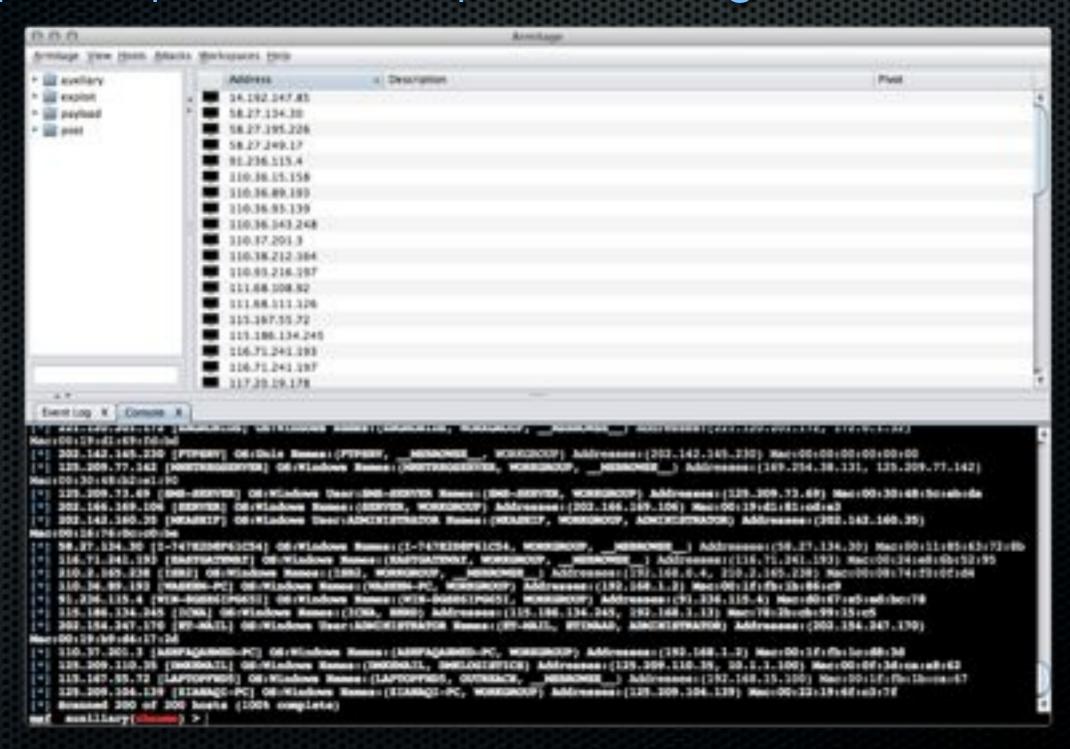
https://github.com/PaulMcMillan/eagleeye2

#### you can do this with vnc



#### Maybe you want to pwn

Pipe output to metasploit/armitage/teamserver!



## The best defense is a good offense, right?

Run this stuff on yourself. The attackers already do.

#### Spot outliers.

Does your staff setup EC2 instances without approval from the business? Other sites?

What else is connected to the internet, with YOUR COMPANIES NAME on it, that you don't know about?

Who actually LIKES random, unknown liability?

#### Some cool new features:

You can search by::::

org:

city:

country:

state:

net:

# You guys are awesome Thank you for letting me rant!

github.com/Viss/Eagleeye

github.com/PaulMcMillan/eagleeye2

Twitter: @Viss atenlabs.com