





Devstaff Meetup #9



Internet of Things
Or:
How I Learned to Stop Worrying and
Love the Toaster



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- IT Support - SysAdmin (in the before time)
- Also dealt with critical infrastructure - airports
- ISO/IEC 27001:2013 Lead Auditor
- Implementing ISO27k

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Internet of Things

2010: “things” > people

2015: estimated 25 billion

2020: estimated 50 billion

Security Risks

- Enabling unauthorized access and misuse of personal information
- Facilitating attacks on other systems
- Creating safety risks

Privacy Risks

Collection of sensitive personal information

- ◆ Financial account numbers
- ◆ Health information
- ◆ Habits
- ◆ Locations
- ◆ “You name it, we got it”

VTech - InnoTab 3

November 2015

4,854,209 parents' accounts

6,368,509 related children profiles

https://www.vtech.com/en/press_release/2016/faq-about-cyber-attack-on-vtech-learning-lodge/



Account Settings

Parent Account Settings

Parent Account Settings | Manage My VTech Toys | Manage Kid Connect | Redeem Codes

* Parent's First Name: * Last Name:

* Password: * Confirm Password:

* Secret Question: * Your Answer:

Learning Lodge™ Display Language:

* Country:

Address:

City: * State: * Zip Code:

Yes, I would like to receive emails about the latest news from VTech® including new products and special offers. ☒

VTech

- Names
- Dates of birth
- Email addresses
- Usernames
- Family members' names
- Genders
- Home addresses
- IP addresses
- Passwords
- Security Q&A
- Headshots
- Chat activity



Hello, Barbie!

“Interactive Doll” capable of listening to a child and responding via voice, in a similar way to Apple’s Siri, Google’s Now and Microsoft’s Cortana.

- The doll’s system information
- Account information
- Stored audio files
- Access to the microphone
- Access WiFi... pivot!



Shodan.io

Choose a country

SEARCH RANDOM

Like Tweet

WEB CAMERAS 1,054

CAMERA INFO




IP address: 128.8.139.242
Country: United States
Latitude: 38.98669999999999
Longitude: -76.5137
City: Annapolis
Hostnames: 128-8-139-242.umd.edu
Added on: 27-04-2010


Go LIVE

Like Tweet

CAMERA TIMELAPSE

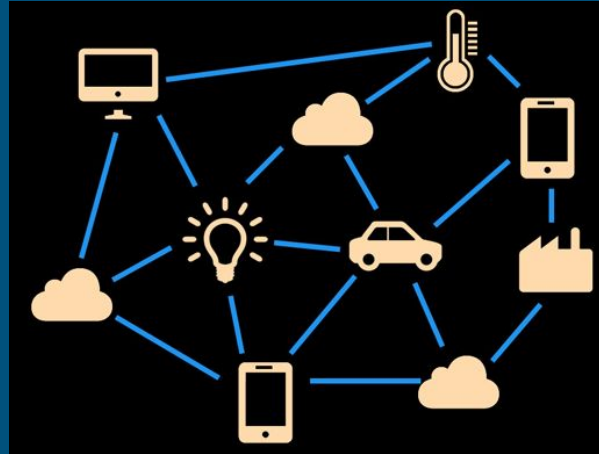
16:00 UTC





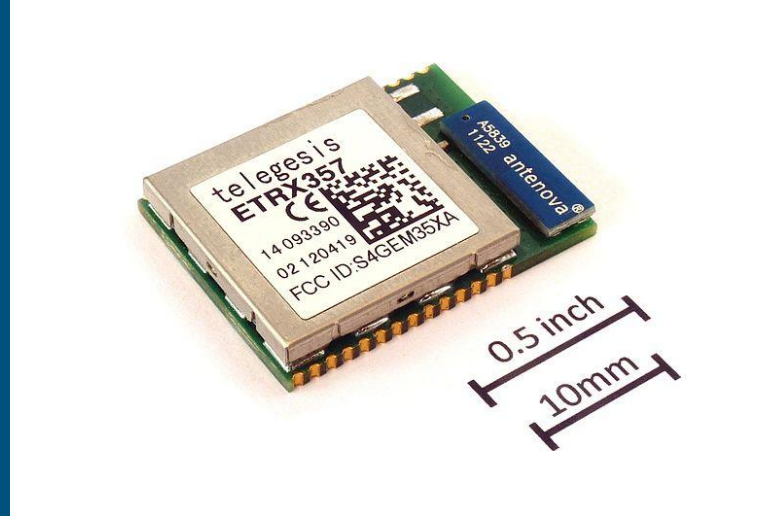
ZigBee

- Remote Control
- Input Devices
- Home Automation
- Building Automation
- Health Care
- Telecom Services
- Retail Services
- Smart Energy



ZigBee

- Toshiba
- Philips
- Huawei
- Sony
- Siemens
- Samsung
- Motorola



Chrysler - Fiat

“Remember, Andy, no matter what happens, don’t panic.”



Chrysler - Fiat


- Radio/Media player
- Engine
- Steering (but only in reverse)
- Brakes



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FLESHLIGHT



For Him



For Couples



For Her

Interactive Pleasure Products for Long Distance Relationships

KIROO presents the latest in smart technology for online intimacy. Our revolutionary online communication system enables you and a partner to do more than just see and hear each other. It allows you to *feel each other's touch*, from anywhere in the world. Connect to anyone, anytime using KIROO's tasteful and discreet "teledildonic" devices, and take your sex life to new heights.

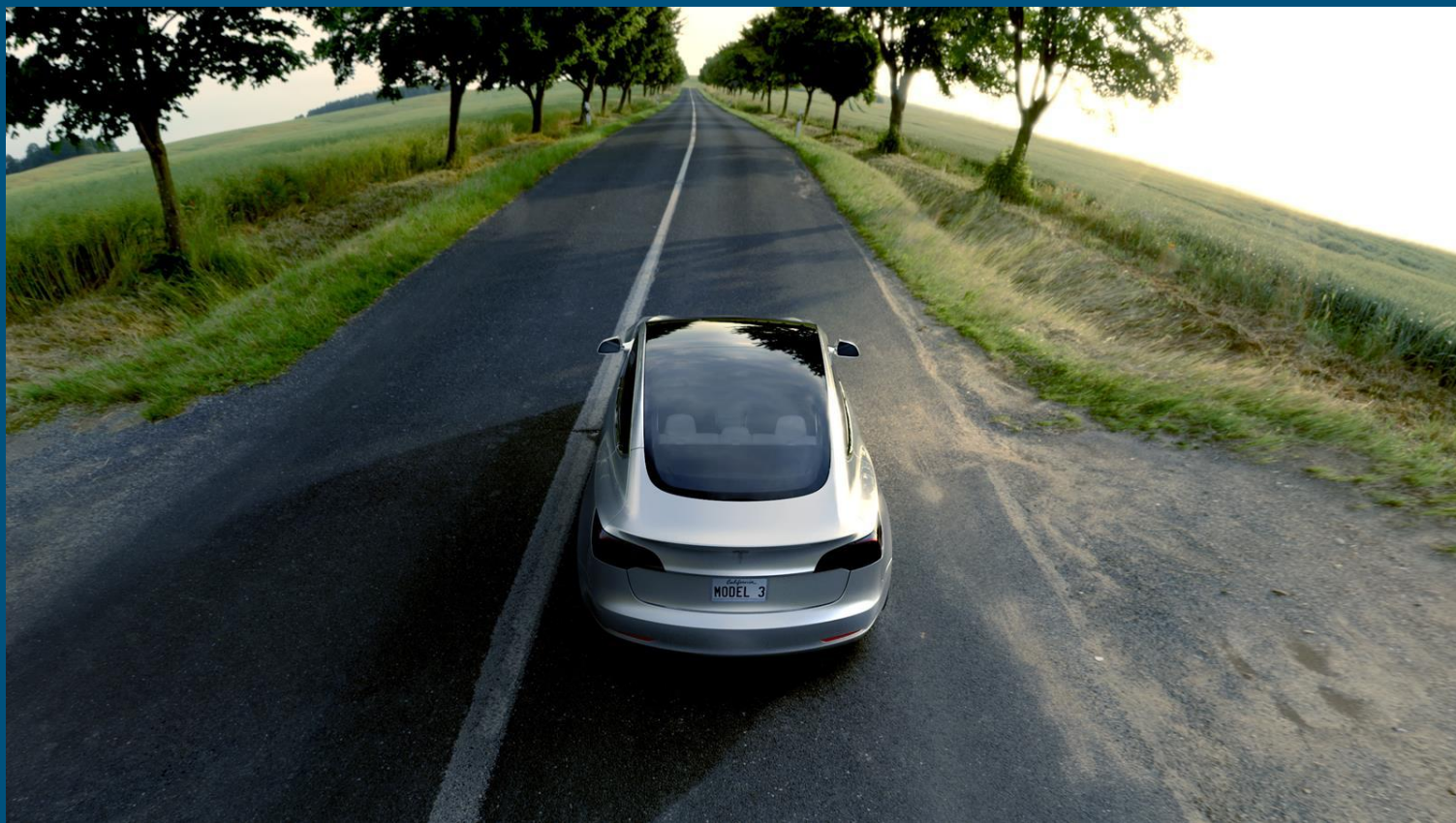
[DISCOVER WHAT SEX TECH CAN DO FOR YOU >](#)

Starring:













YOUR COMPUTER HAS BEEN LOCKED!

This operating system is locked due to the violation of the federal laws of the United States of America! [Article 1, Section 8, Clause 8; Article 202; Article 210 of the Criminal Code of U.S.A. provides for a deprivation of liberty for four to twelve years.]

Following violations were detected:
Your IP address was used to visit websites containing pornography, child pornography, zoophilia and child abuse. Your computer also contains video files with pornographic content, elements of violence and child pornography! Spam-messages with terrorist motives were also sent from your computer.

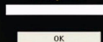
This computer lock is aimed to stop your illegal activity.

To unlock the computer you are obliged to pay a fine of \$200.

You have 72 hours to pay the fine, otherwise you will be arrested.

You must pay the fine through

To pay the fine, you should enter the digits resulting code, which is located on the back of your in the payment form and press OK (If you have several codes, enter them one after the other and press OK).



Cryptolocker

Your personal files are encrypted!



Private key will be destroyed on
10/9/2013
4:25 PM

Time left
95 : 56 : 35

Your important files encryption produced on this computer! photos, videos, documents, etc. There is a complete list of encrypted files, and you can personally verify this.

Encryption was produced using a unique public key **RSA-2048** generated for this computer. To decrypt files you need to obtain the private key.

The single copy of the private key, which will allow you to decrypt the files, located on a secret server on the Internet; the server will destroy the key after a time specified in the window. After that, nobody and never will be able to restore files...

To obtain the private key for this computer, which will automatically decrypt files, you need to pay 300 USD / 300 EUR / similar amount in another currency.

Click «Next» to select the method of payment and the currency.

Any attempt to remove or damage this software will lead to the immediate destruction of the private key by server.

Next >>



NSA INTERNET SURVEILLANCE PROGRAM
PRISM
COMPUTER CRIME PROSECUTION SECTION



YOUR COMPUTER HAS BEEN LOCKED!

Your computer has been locked due to suspicion of illegal content downloading and distribution.

The illegal content (414 MB of photo and video files) was automatically classified as child pornographic material.

The downloading and distribution of illegal content, in whole or in part,

violates following U.S. Federal Laws:

18 U.S.C. § 2252 Sexual exploitation of children (production of child pornography)

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Any individual who violates, or attempts to violate, or complicit to violate mentioned laws shall be sentenced to a mandatory term of imprisonment from 5 years to 10 years and shall be fined up to \$250,000.

Collected technical data

Your IP address: [REDACTED]
Your host name: [REDACTED]
Source or intermediary sites: [REDACTED]
Location: [REDACTED]

All incoming files from your computer were transmitted to a special server and shall be used for investigation and prosecution of computer crime.

Your case can be classified as occasional/unmotivated, according to 17 (U.S. Code) §512

Thus it may be closed without prosecution.

Your computer will be unlocked automatically.

In order to resolve the situation in an above-mentioned way you should pay a fine of \$300



Exchange your cash for a MoneyPak voucher and use your voucher code in the form below:

Code: 1 2 3 4 5 6 7 8 9 0 SUBMIT

Status: Waiting for payment

Permissible lock on 10/9/2013 4:41 pm GMT

File is encrypted

This file can be decrypted using the program DirtyDeCrypt.exe

Press CTRL+ALT+D to run DirtyDeCrypt.exe

OR

Check the paths:

C:\Program Files\Dirty\DirtyDeCrypt.exe

C:\Program Files (x86)\Dirty\DirtyDeCrypt.exe

C:\Users\[YOUR USER]\AppData\Roaming\Dirty\DirtyDeCrypt.exe

C:\Documents and Settings\[YOUR USER]\Application Data\Dirty\DirtyDeCrypt.exe

C:\Documents and Settings\[YOUR USER]\Local Settings\Application Data\Dirty\DirtyDeCrypt.exe



International Cyber Security
Protection Alliance



Voucher NO / PIN

1 2 3 4 5 6 7 8 9 0

Pay

paySafeCard
kash



Where can I
buy PaySafeCard?



WARNING! Your computer has been locked and all your data were encrypted!

Your computer has been locked and all your files were encrypted.

Reason: violation of Law

Possible violations are described below

Give me
all your
money

The End

Lafteris

