

BIG APPLE BITES - IT

1. THERE'S AN APP FOR THAT!
2. A CYBER SPACE ODYSSEY: THE INTERNET OF THINGS
3. THE TOP 5 LIST: TRENDS IN LEGAL TECHNOLOGY
4. CYBERSECURITY TRAINING: NOT AN OXYMORON

Your connection
to knowledge, resources and networking

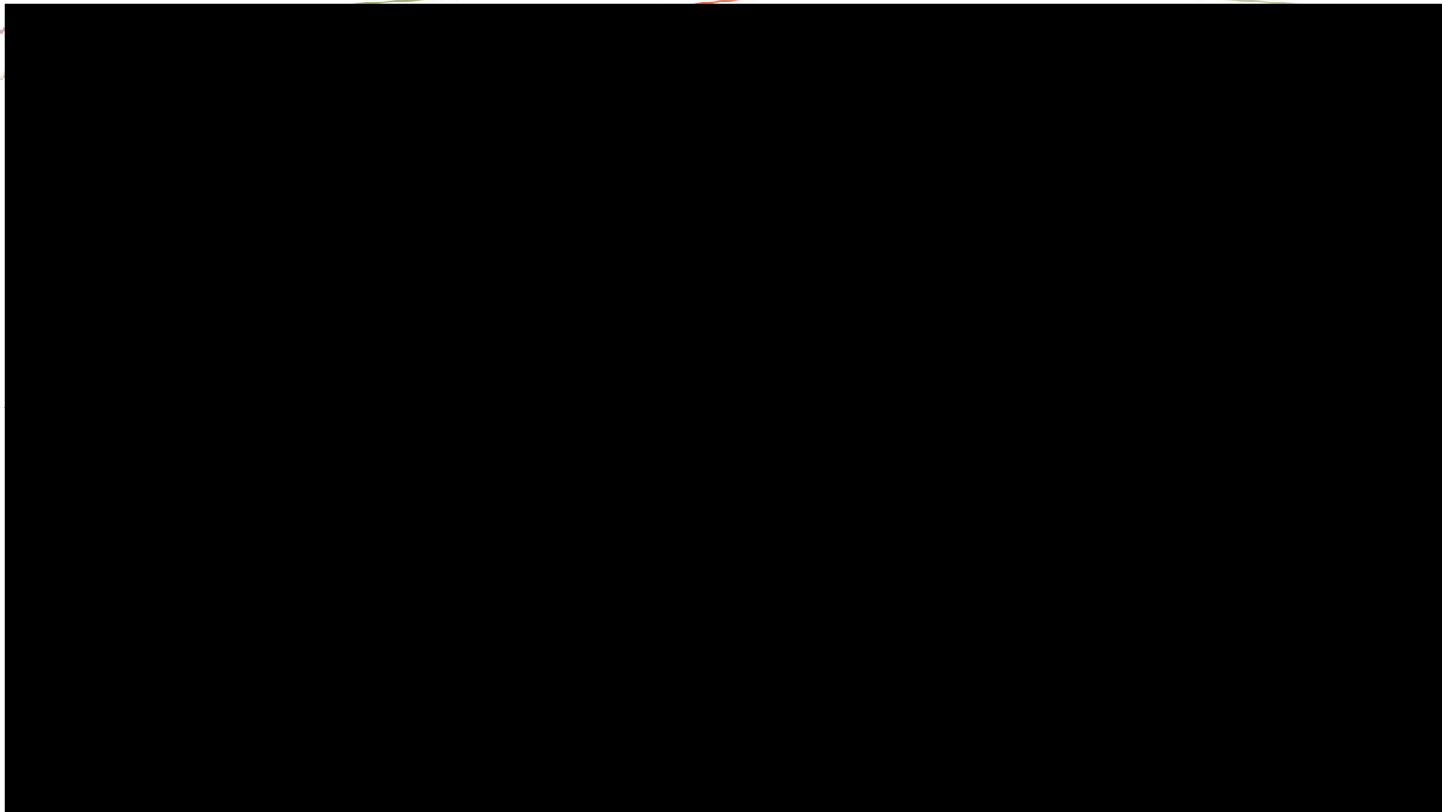




There's An App For That!

Useful Apps For Everyone

Your connection
to knowledge, resources and networking



The App Evolution



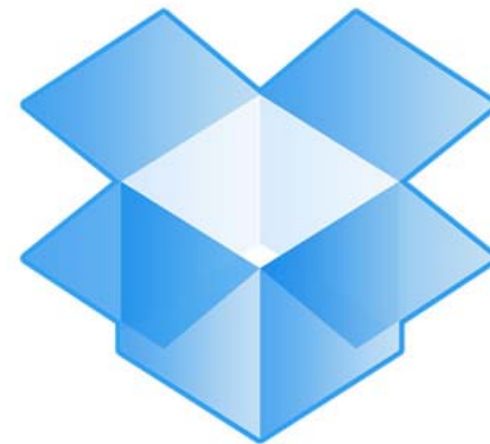
- Abbreviation for “Application”
- Modern take on the word software or application
- Three main types of apps: desktop, mobile and web
- Free and Paid
- Categories



Dropbox



- File hosting service
- File transferring service
- Basic Free: 2gb
- Plus Not Free: 1tb



Dropbox

Waze



- GPS navigation
- Community-driven
- Collects map data, travel times and traffic information
- Traffic accidents, police car, emergency work
- Free



LinkedIn



- Business and employment-oriented networking
- Professional networking, not social
- Post jobs, seek jobs
- Basic Free, Premium Not Free



Hootsuite



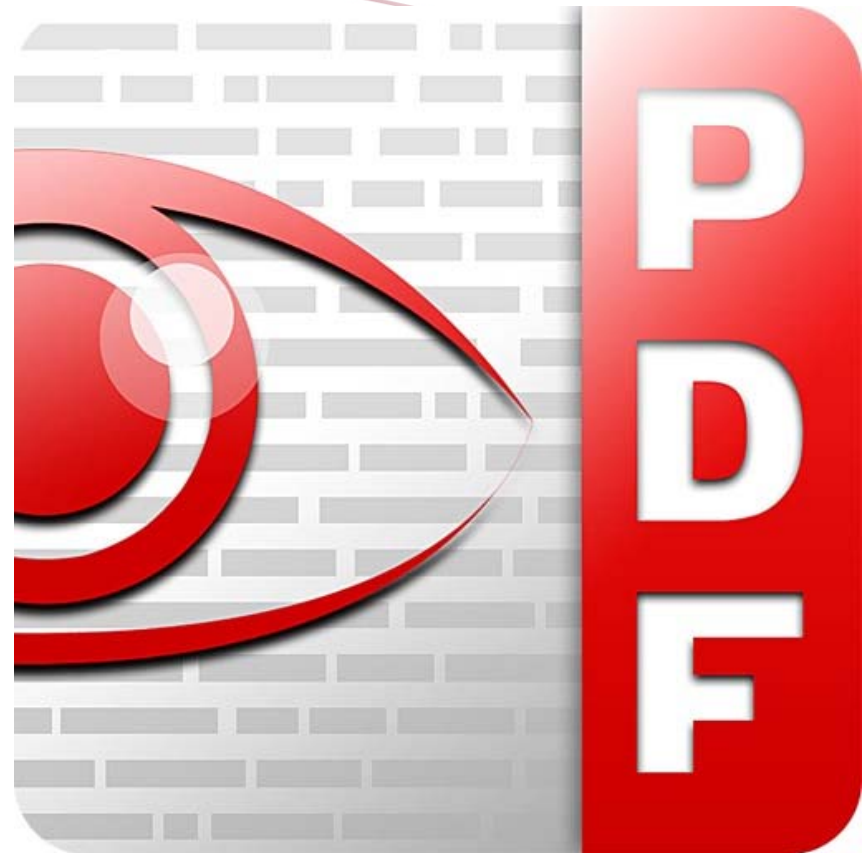
- Platform for managing social media (twitter, facebook, Instagram, linkedin, etc.)
- Dashboard interface
- Not Free



PDF Expert



- PDF editing app for iPhone, iPad and Mac
- Read, annotate, edit, sign
- Not Free



ScannerPro



- Scan paper documents into PDFs
- Scan receipts, checks, agreements, books, etc.
- Not Free



Quizlet



- Study application
- Study via flashcards, games and tests
- Free

The Quizlet logo is displayed in a white, serif font with a slight shadow effect, centered within a solid dark blue rectangular background.

Microsoft Word



- Word processor
- See track changes
- Not Free



Zello



- Push-to-talk walkie-talkie over cell phone networks
- Became a popular method for communications between rescuers and people stranded following Hurricane Harvey in Texas
- Free



The Skimm



- Daily email newsletter on popular news
- Short, simple and easy-to-read
- Not Free



theSkimm

SimplyE



- The New York Public Library's free e-reader app
- Borrow e-books
- Over 300,000 e-books
- Free with Library Card



Merriam-Webster



- Dictionary
- Voice search
- Word of the day
- Example sentences
- Free



Remind



- Communicate with teachers, students, parents quickly
- Free



2. A SPACE ODYSSEY: THE INTERNET OF THINGS

SIMPLICITY TO OUR PERSONAL LIVES
AND **HAVOC** TO OUR PROFESSIONAL ONES

DOUGLAS GIBSON, DIRECTOR OF INFORMATION
CHAFFETZ LINDSEY LLP

Your connection
to knowledge, resources and networking



*In the [21st] century, **planet earth will don an electronic skin.***

*It will use the Internet as a scaffold to support and **transmit its sensations.***

Neil Gross

The what



What it is

What it can do for you personally

And professionally



Physical Place

+

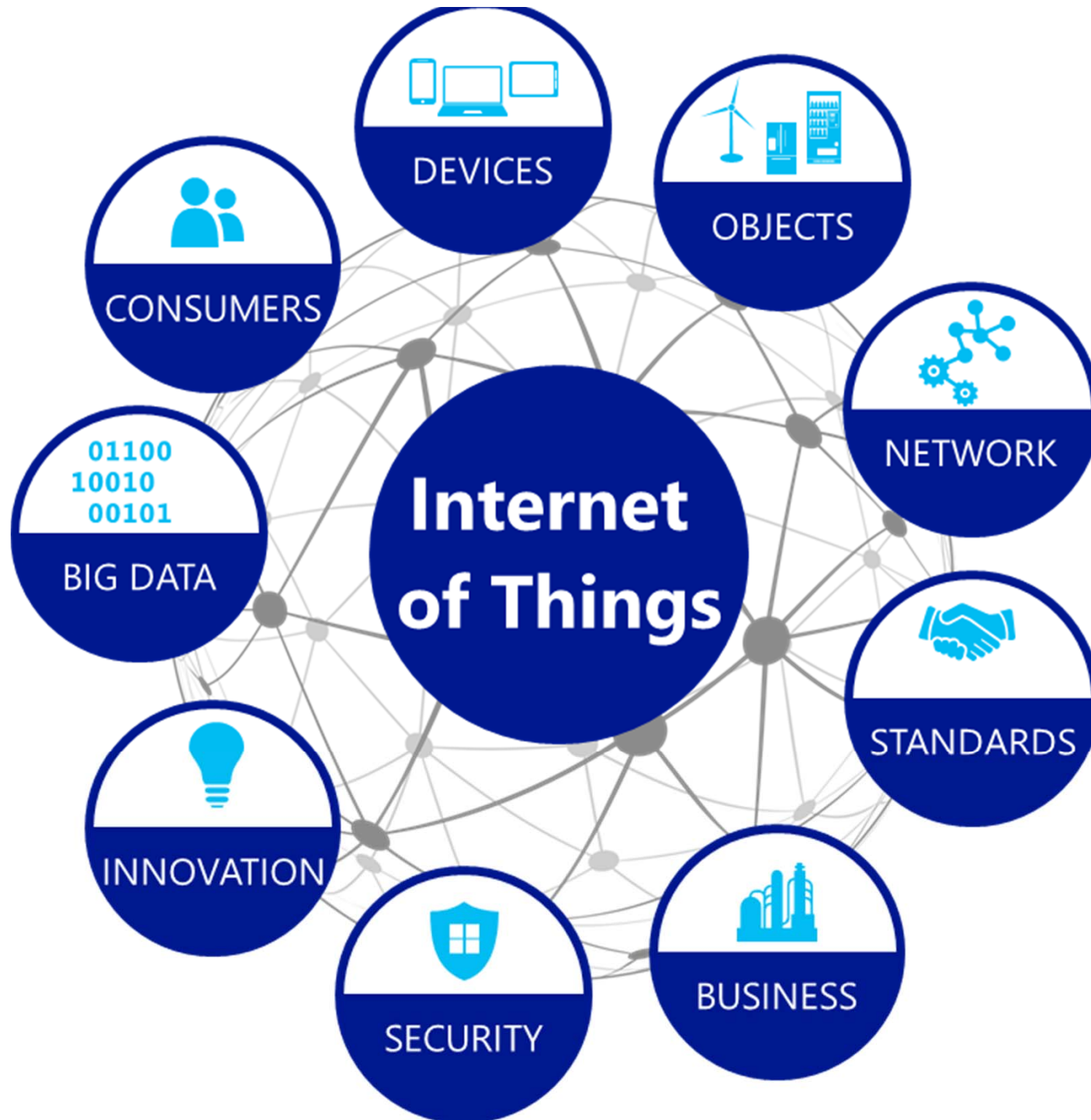
Sensor / Controller / Actuator

+

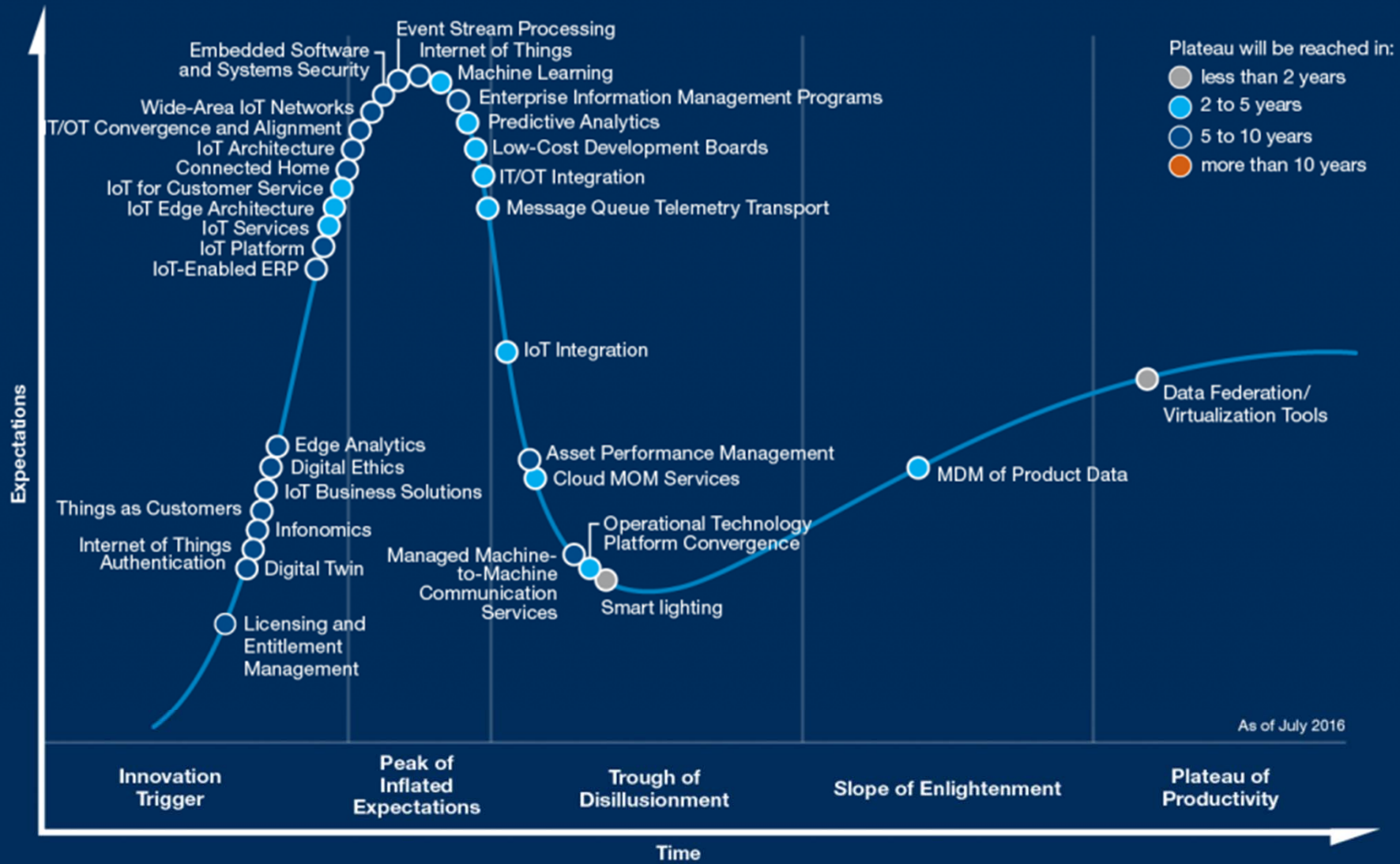
Internet

=

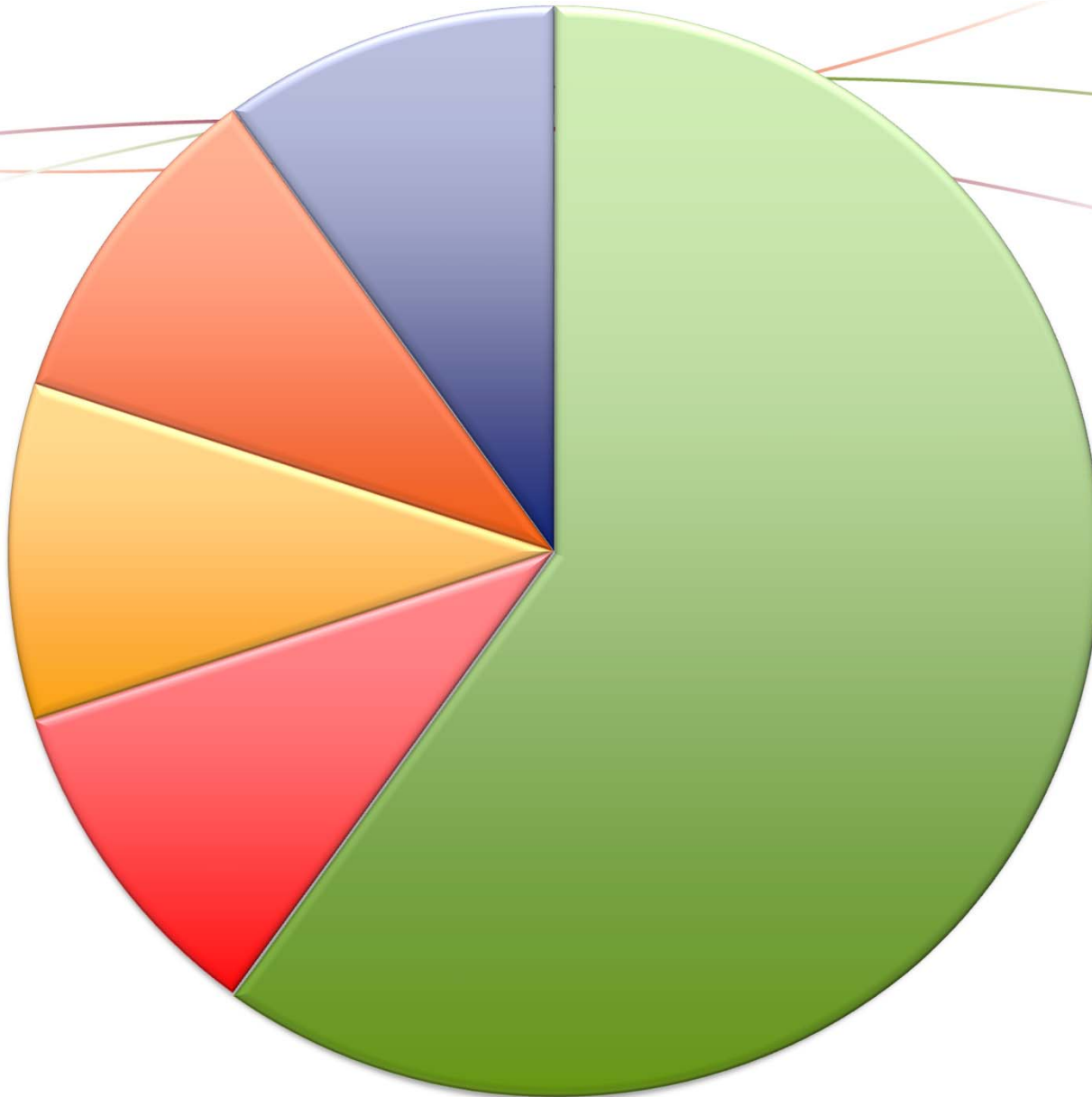
Internet of Things



Gartner Hype Cycle for the Internet of Things, 2016

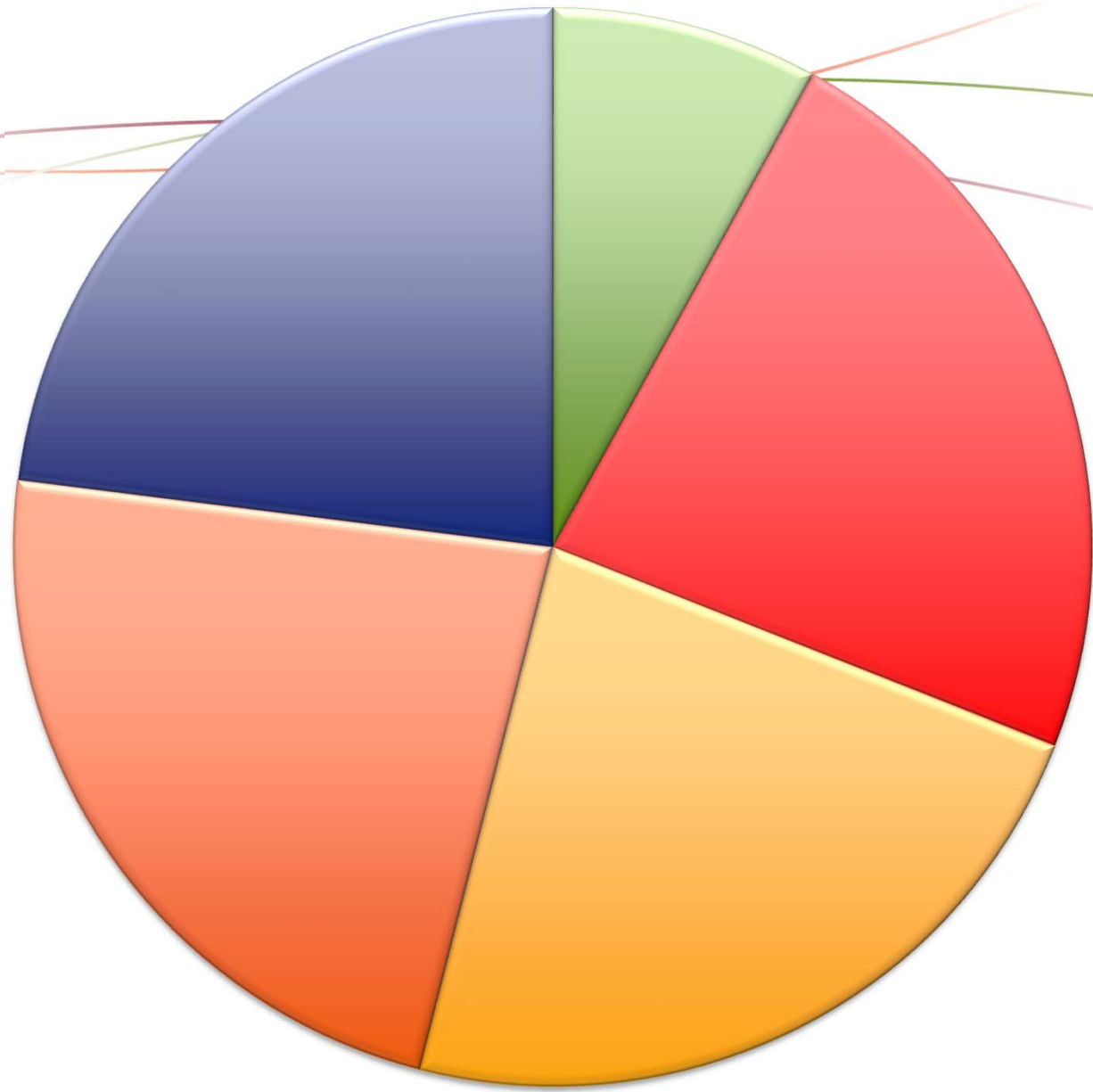


Hype

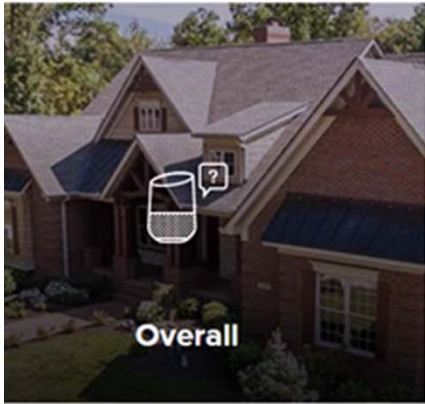


- Consumer
- Industrial
- Manufacturing
- Healthcare
- Environment

Uses



- Consumer
- Industrial
- Manufacturing
- Healthcase
- Envornment



Overall



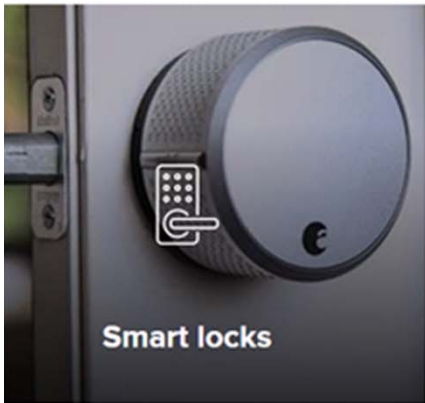
LED bulbs



DIY security



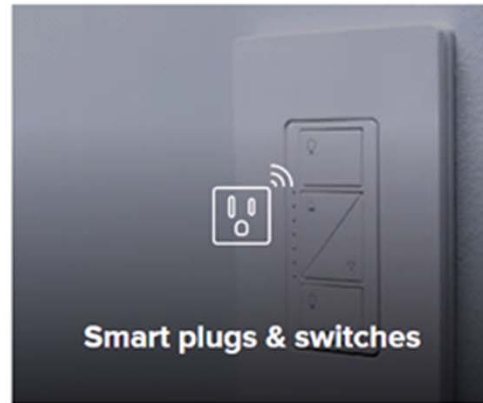
Security cameras



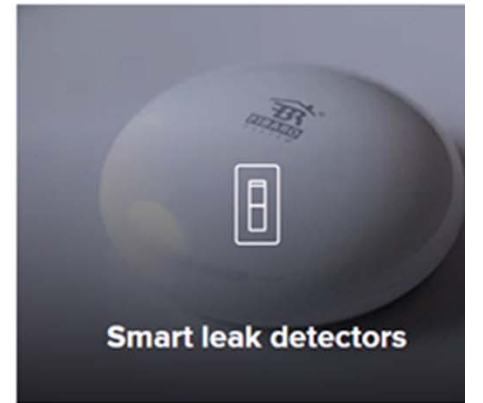
Smart locks



Smart thermostats



Smart plugs & switches



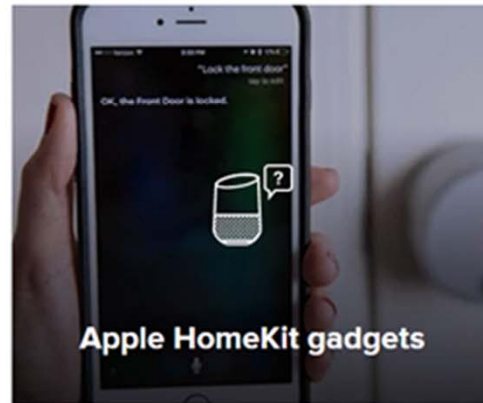
Smart leak detectors



Robot vacuums



Alexa-friendly gadgets



Apple HomeKit gadgets



IFTTT gadgets



Amazon Alexa



Apple HomeKit

If you own a recent iPhone or iPad, you have HomeKit. Control products with Siri or Apple's Home app.



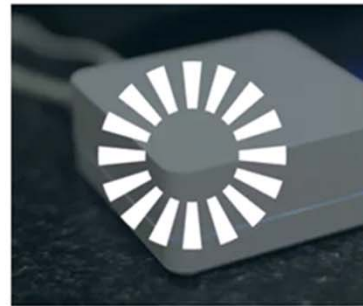
Belkin WeMo

These smart home devices offer simple app controls for things like lights, power outlets and appliances.



Google Home

The Google Home is a speaker; Google Assistant is the voice inside. Play music, look up facts and control smart home gadgets – just ask.



Lutron

Makes a variety of lighting products, including smart light switches and app-enabled, motorized window shades.



Nest



Philips Hue



Samsung SmartThings

Controls more smart home gadgets than any other hub thanks to its open software and active user community.



Wink

The Wink Hub and its well-designed app give you control of smart home products from lots of different companies.



Spin speed
>

Start
Stop

- Cottons 
- Minimum iron 
- Woollens 
- Outerwear
- Proofing
- Express 

Further programming
Stop



The uber dash



Simplicity



Amazon Dash Wand With Alexa Amazon

★★★★☆ | 1,641 customer reviews | 158 answered questions



amazon dash
WAND
NOW WITH ALEXA



Say it.
Scan it.
Ask Alexa.

About the product

- Groceries have never been easier. All new Amazon Dash Wand with Alexa helps you find recipes, convert cups to ounces, buy and reorder essentials, find nearby restaurants and more.
- Say it or scan a barcode. It's added to your shopping cart. Just say "paper towels."
- Water-resistant, durable design, and magnetic so you can stick it on your fridge. You'll need an iPhone or Android phone to register the device.

Price: **\$20.00** ✓prime

In Stock. Ships from and sold by Amazon.com exclusively for Prime members. Gift-wrap available.

Want it tomorrow, Oct. 5? Order within **8 hrs 36 mins** and choose **One-Day Shipping** at checkout. [Details](#)

Ship to: Douglas Gibson- New York - 10019 ▾

Qty: 1 ▾

[Turn on 1-click ordering](#)

Add to Cart

Add to List

[Add to your Dash Buttons](#)

OR

Delivery available via **fresh**

Get this item with your weekly groceries, delivered as quickly as same day or early next morning. [>](#)

Share

amazon home services

Let a pro do a deep clean
[Schedule](#) ▶



[Report incorrect product information](#)



Scan an item.
It's in your cart.


Havoc at work



havoc



hav·oc

/ˈhævək/ 

noun

1. widespread destruction.

"the hurricane ripped through Florida, causing havoc"

synonyms: [devastation](#), [destruction](#), [damage](#), [desolation](#), [ruination](#), [ruin](#); [More](#)

verb archaic

1. lay waste to; devastate.



Key points to consider



Security vs. Data privacy

Notice and consent

Matter centricity or not

Discoverability

Data breach - Whose liability?

Monitor – Audit / Device Management Software / Guess

Analysis

Web Attack Piles Onto Internet Of Things Security Concerns

By Allison Grande

Share us on:    

Law360, New York (October 25, 2016, 12:34 PM EDT) -- Hackers recently hijacked millions of internet-connected devices to help them carry out a cyberattack that temporarily blocked access to popular websites such as [Twitter](#), [Netflix](#) and [Amazon](#), a move that puts a new spin on the focus of concerns and potential liability risks associated with the growing internet of things.

The headline-grabbing distributed denial-of-service attack began around 7 a.m. Eastern time on Friday, when domain name service provider Dyn was flooded with traffic from tens of millions of internet protocol addresses, a large portion of which were found to be tied to common **DVRs and webcams that had been infected by malware known as Mirai**, according to the company.

The barrage of traffic from the devices and other digital sources caused web users to be unsuccessful in their efforts to access the array of sites that Dyn is charged with directing them to, which include [Twitter](#), [Netflix](#), [Amazon](#), [Airbnb](#), the [New York Times](#) and [Spotify](#). The first wave of the DDoS attack, which compromised access to sites primarily on the East Coast, was contained by Dyn within roughly two hours, while a pair of subsequent hacks disrupted traffic for shorter periods of time but were "more global in nature," Dyn said in a blog post.

-  Add to Briefcase
-  Printable Version
-  Rights/Reprints
-  Editorial Contacts

Related

Sections

- Consumer Protection
- Cybersecurity & Privacy
- Media & Entertainment
- Technology
- Telecommunications

Law Firms

- Alston & Bird
- Ballard Spahr
- Foley & Lardner
- Troutman Sanders

Companies

- Airbnb Inc.
- Netflix Inc.
- New York Times Co.
- Spokeo Inc.
- Spotify Technology SA
- Twitter Inc.

Government Agencies

- Federal Trade Commission
- U.S. Supreme Court

Takeaways



- **Have a policy**
 - Assess your risk
 - Secure both information and devices
 - Align IoT strategy and security
 - Identify legal and regulatory issues
- **Implement a Bring Your Own Device policy**
- **Use a VPN to control access in and out of your network**
- **Consider moving to the cloud with client files and work product**
- **Educate your employees**
- **Patch regularly**

Additional Resources



[ABA on the Internet of Things](#)

National Institute of Standards & Technology, ("NIST") [IoT Notices and Warnings](#)

[Ten Steps](#) to Secure your Firm according to CSO Online

TechTarget on why [IoT security](#) is not possible

Top 5 Trends in Legal Technology

Meredith S. Lonner

Franklin, Weinrib, Rudell & Vassallo, PC

mlonner@fwrv.com

212-446-9730

Your connection
to knowledge, resources and networking



Top 5 Trends in Legal Technology



- Outsourced/Managed Technology Services – TaaS (No wait, that's not it!)
- Mobility and Mobile Technology
- Cloud Computing
- Cyber Security
- Artificial Intelligence
- Blockchain (Let's learn together)

Outsourced/Managed Technology Services – TaaS (No wait, that's not it!)



- SaaS – Software as a Service
- DaaS – Desktop as a Service
- IaaS – Infrastructure as a Service
- DRaaS – Disaster Recovery as a Service
- CSaaS – Computer Security as a Service
- TaaS – Is it Technology as a Service or Tokens as a Service?

Cloud Computing



- The beauty of the cloud is its elasticity
- Private, Hybrid, Public
- Encryption keys

Cyber Security



- Law firms are honey pots for hackers
- Law firms need to be doing everything they can to protect client data
- Hardware, software, monitoring services
- Cyber Liability Insurance
- Security programs can not be only technology focused. They must also focus on the technology user. Firms need a security conscious culture as Dominic will discuss in his 15 minutes.

Artificial Intelligence



- Will not replace lawyers
- What is AI
- What are the objectives for AI in Legal
- Use Cases

Blockchain (Let's Learn Together)



- Think of a blockchain as a decentralized database. Information held on a blockchain exists as a shared and continually reconciled database.
 - As a result:
 - A blockchain cannot be controlled by a single entity
 - It has no single point of failure
 - Blockchain gives internet users the ability to create value and it authenticates digital information.
- Bitcoin (a crypto currency) was the reason blockchain technology was conceived but now people are seeing many potential applications for blockchain technology.

Blockchain (Let's Learn Together)



- How is blockchain impacting the Legal Industry
 - Global Legal Blockchain Consortium
 - Enterprise Ethereum Alliance (a cross industry collaborative blockchain consortium) recently launched its Legal Industry Working Group
- Most of the discussion revolves around understanding and guiding blockchain policy that affects cryptocurrency markets, which utilize the blockchain to transfer currency like bitcoin.
- Law firms are creating blockchain practice groups and accepting bitcoin payments.

Blockchain (Let's Learn Together)



- Practical Legal Blockchain application – Smart Contracts
 - OpenLaw is a blockchain-based protocol for the creation and execution of legal agreements. Using OpenLaw, lawyers can more efficiently engage in transactional work and digitally sign and store legal agreements in a highly secure manner, all while leveraging next generation blockchain-based smart contracts.

Resources



- Join ILTA if your firm is not already a member. If your firm is a member, register for online access. It's a firm membership structure, not individual. It's a tremendous resource with an active online community.
- Subscribe to Pinhawk newsletters (daily aggregators of legal tech and legal admin news on the internet). The subscription to the below two newsletters is free.
 - <http://www.pinhawk.com/subscribe/subscription.php?t=subscription&n=18>
 - Sample of Law Technology Daily Digest
 - <http://pinhawk.com/latest.php?nl=18>
 - Sample of Legal Administrator Daily Digest
 - <http://pinhawk.com/latest.php?nl=11>

Resources



- aaS and Cloud
 - ALANYC Business Partners
 - Adaptive Solutions
 - Canon Business Process Services, Inc.
 - Document Solutions
 - DTI
 - eSentire
 - FSO
 - Konica Minolta
 - Lloyd Group
 - MindShift
 - Rippe & Kingston
 - Tabush Group
 - The MCS Group

Resources



- Cyber Security
 - ALANYC Business Partners
 - Adaptive Solutions
 - eSentire
 - Herbert L. Jamison & Co., LLC (Cyber Insurance)
 - Lloyd Group
 - MindShift
 - Tabush Group

Resources



- Blockchain

- <https://blockgeeks.com/guides/what-is-blockchain-technology/>
- <http://bit.ly/2yHYb1b> at page 16
- <https://blockgeeks.com/guides/smart-contracts/>
- <https://media.consensys.net/programmable-blockchains-in-context-ethereum-s-future-cd8451eb421e>
- <https://media.consensys.net/introducing-openlaw-7a2ea410138b>

Cybersecurity Training: Not an Oxymoron

Dominick Fato

mindSHIFT, a Ricoh company

Your connection
to knowledge, resources and networking



Agenda



- Definition
- Business Implications
- Email Security
- Security Awareness Program
- Summary + Q&A

Definition



- Cyber security is the protection of computer systems from the theft or damage to their hardware, software or information, as well as from disruption or misdirection of the services they provide.
 - Due to malpractice by operators, whether intentional, accidental, IT security is susceptible to being tricked into deviating from secure procedures through various methods.

Source: Wikipedia

The Business Challenge



Business Impact of Being Hacked

- Outages
- Data theft
- Data loss
- Productivity loss
- Public image / reputation damage
- Cost of cleanup and recovery (time and money)



Shared Responsibility



- Cyber security is everyone's responsibility
- Always follow your organization's security and operational policies



Email Security - Terms



Irrelevant or inappropriate messages sent on the Internet to a large number of recipients



Emails meant to dupe users into providing financial/confidential info or installing malware



Target specific individuals or organizations.



Target high-level executive individuals

Spear Phishing Example

A screenshot of a Microsoft Outlook email client window. The title bar reads "Quick Request - Message (HTML) (Read-Only)". The ribbon is set to "MESSAGE". The ribbon includes tabs for "FILE" and "MESSAGE". The "MESSAGE" tab contains several groups of icons: "Delete" (Ignore, Junk, Delete), "Respond" (Reply, Reply All, Forward, Meeting, IM, More), "Quick Steps" (Create Meeting, To Manager, Team Email), "Move" (Move, Rules, OneNote, Actions), "Tags" (Mark Unread, Categorize, Follow Up), "Editing" (Translate, Find, Related, Select), and "Zoom" (Zoom). The email content shows a sender profile picture, the name "Quick Request", and the email address "[redacted]@gmail.com". The recipient is listed as "To [redacted]".

Quick Request - Message (HTML) (Read-Only)

FILE MESSAGE

Ignore Delete Reply Reply All Forward Meeting IM More

Create Meeting To Manager Team Email

Move Rules OneNote Actions

Mark Unread Categorize Follow Up

Translate Find Related Select

Zoom

Tue 4/5/2016 11:39 AM

[redacted]@gmail.com>

Quick Request

To [redacted]

Hi Dave,

I want you to send me the list of W-2 copy of employees wage and tax statement for 2015, I need them in PDF file type, you can send it as an attachment. Kindly prepare the lists and email them to me asap.

Phishing Stats



- Phishing costs the average U.S. organization more than \$3.7 million annually.
- Every day 80,000 people fall victim to phishing scams from 156 million phishing emails sent globally – 16 million of which circumvent spam filters – resulting in 8 million scam emails being opened.

From PCI Standards Council

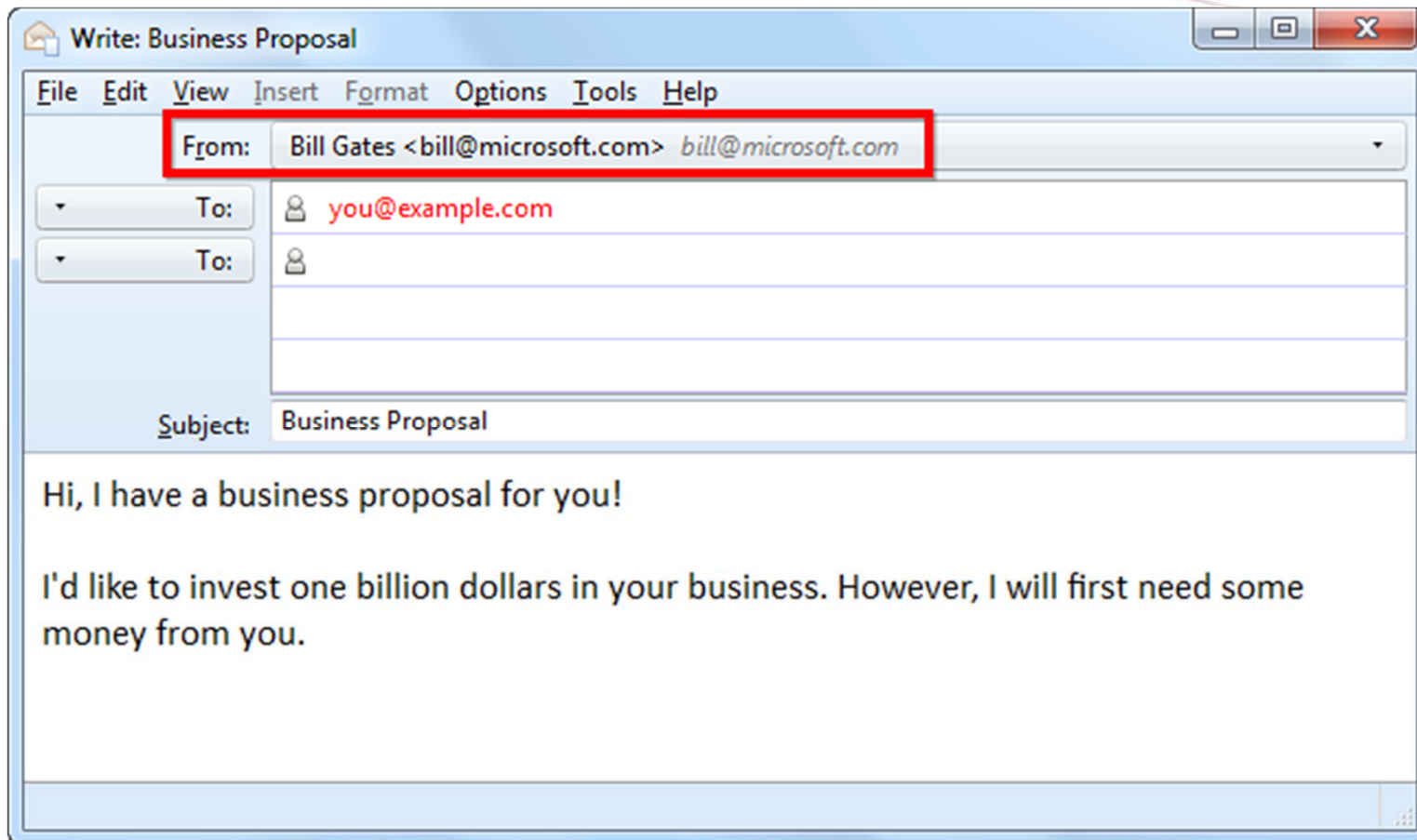
Beware the Senders



- Verify Sender
 - Real person
 - Real company/organization
 - Real domain
- Watch for Spoofed Emails
 - Email with a forged sender address
 - Call the person or company if you're suspicious
 - Social engineering



Spooled Message Example



Email Internet Headers



The screenshot shows an email client window titled "Business Proposal - Message (HTML)". The "Properties" dialog box is open, displaying various settings for the email. The "Internet headers" section is visible at the bottom of the dialog, showing the following information:

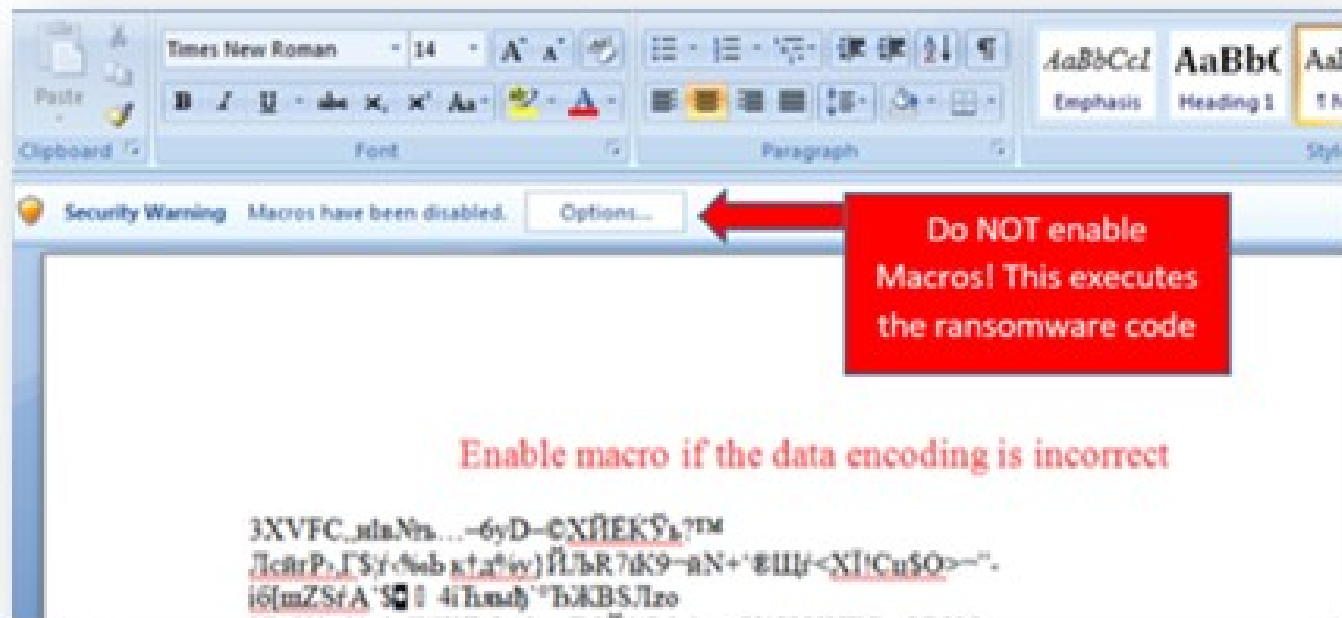
- From: Bill Gates <bill@microsoft.com>
- Reply-To: <SuperHackerDude@gmail.com>
- To: <you@example.com>
- Message-ID: <332141841-3513678000.1590056035757.JavaMail.root
- Subject: Business Proposal
- MIME-Version: 1.0

In the top right corner of the email client interface, the "Tags" button in the ribbon is circled in red, with a red arrow pointing to it.

Beware the Attachments



- Don't open odd attachments
- Don't open attachments from unknown sources
- Don't enable macros



Beware the Links



- Go to the website directly – don't click the link
- Hover over the hyperlink to view the URL
- Notice subtle differences – e.g. [microsoft.com](http://www.microsoft.com)

http://www.this_is_not_your_bank.com/
Click to follow link

Please log into to yourbank.com

Beware Strange Messages



- Does it sound right?
- Is there odd grammar and spelling?
- A response to something you didn't send in first place?
- Super general?
- Oddly specific?
- Threatening?

Security Awareness Program



- Three key components
 - Tools
 - Policies
 - Education



Tools

- Next Gen firewalls
- Vulnerability scans/pen testing
- Centralized patching
- Multi-factor authentication
- Phishing assessment



Policies



- Policies should come from the top down
- Policies should require system builds according to security standards (NIST, ISO, HIPAA, etc.)
- Policies should include:
 - Incident Response Plan
 - Business Continuity / Disaster Recovery
 - Acceptable use of Info Systems

Education



- Ongoing security training
 - Led by Privacy Officer, Security Team, or IT Admin
 - Social engineering
 - Should include phishing emails
- Resources
 - <https://phishme.com/pm-free/>
 - <https://www.knowbe4.com/automated-security-awareness-program>



Questions?

Dominick Fato
mindSHIFT, a Ricoh company
Dominick.Fato@mindSHIFT.com