

# Sun City Computer Club

Cyber Security SIG  
May 2, 2024

**Questions, Comments, Suggestions welcomed at  
any time**

**Even Now**

- Audio recording of this session as MP4 file
- Audio recording available at link shown above
- Wake Words

## Audio Recording In Progress

**SIG attendees are required to be members of the chartered club sponsoring that SIG.  
Sun City Community Association By-law**

- SIG Leader replacement
- Take over
- Inclusion Zoom & Recording
- Training, Counsel
- Summers are Important
- Leader(s)???

**New Leader???**

- Cyber Security News Blog/Archive
- Announcements
- Message Board
- Computer Club Wiki
- Scams and Computer Security SIG
- Anti-Fraud Town Hall 6-May-2024  
Ballroom 8:30 09:00 – 11:00

- Edge Version 124.0.2478.67 (Official build) (64-bit)
- Chrome Version 124.0.6367.119 (Official Build) (64-bit)
- Firefox Version 125.0.3
- Brave Version 1.65.126 Chromium: 124.0.6367.118
- Tor 13.0.14 (based on Mozilla Firefox 115.10.0esr)
- Vivaldi 6.7.3329.24
- DuckDuckGo 0.78.1
- Safari 17.4.1 (19618.1.15.11.14)

## Current Browser Versions

- Hacker free-for-all fights for control of home and office routers everywhere
- How and why nation-state hackers and cybercriminals coexist in the same router botnet.
- Read in Ars Technica:
- [https://apple.news/AVv7ens0rTYeoXLrK\\_fsOzA](https://apple.news/AVv7ens0rTYeoXLrK_fsOzA)

**Member Contributed**

- LastPass call Press 1 to stop attacker  
Follow-up call  
“We will check it for you, your account info?”  
Site shutdown April 16
- FBI warning Chinese Hackers & US Infrastructure  
Volt Typhoon
- Frontier Communications cyber attack
- Palo Alto firewalls
- Microsoft VASA-1  
still image + cloned voice + text script > video of person talking
- SEC sued New Civil Liberties Alliance (NCLA)  
Consolidated Audit Trail (CAT)  
Capture and send detailed information on every investor’s trades in U.S. markets to a centralized database. Paid for with fees. Fourth Amendment violation

## Current Issues

- Bitdefender report:
- Fake Facebook page for Mindjourney
- 1 million Facebook followers
- Hacker takeover
- Infostealer
- Also: Sora Ai, Dall-E 3, Evoto, ChatGPT 5
- AVOID clicking on download links on Facebook

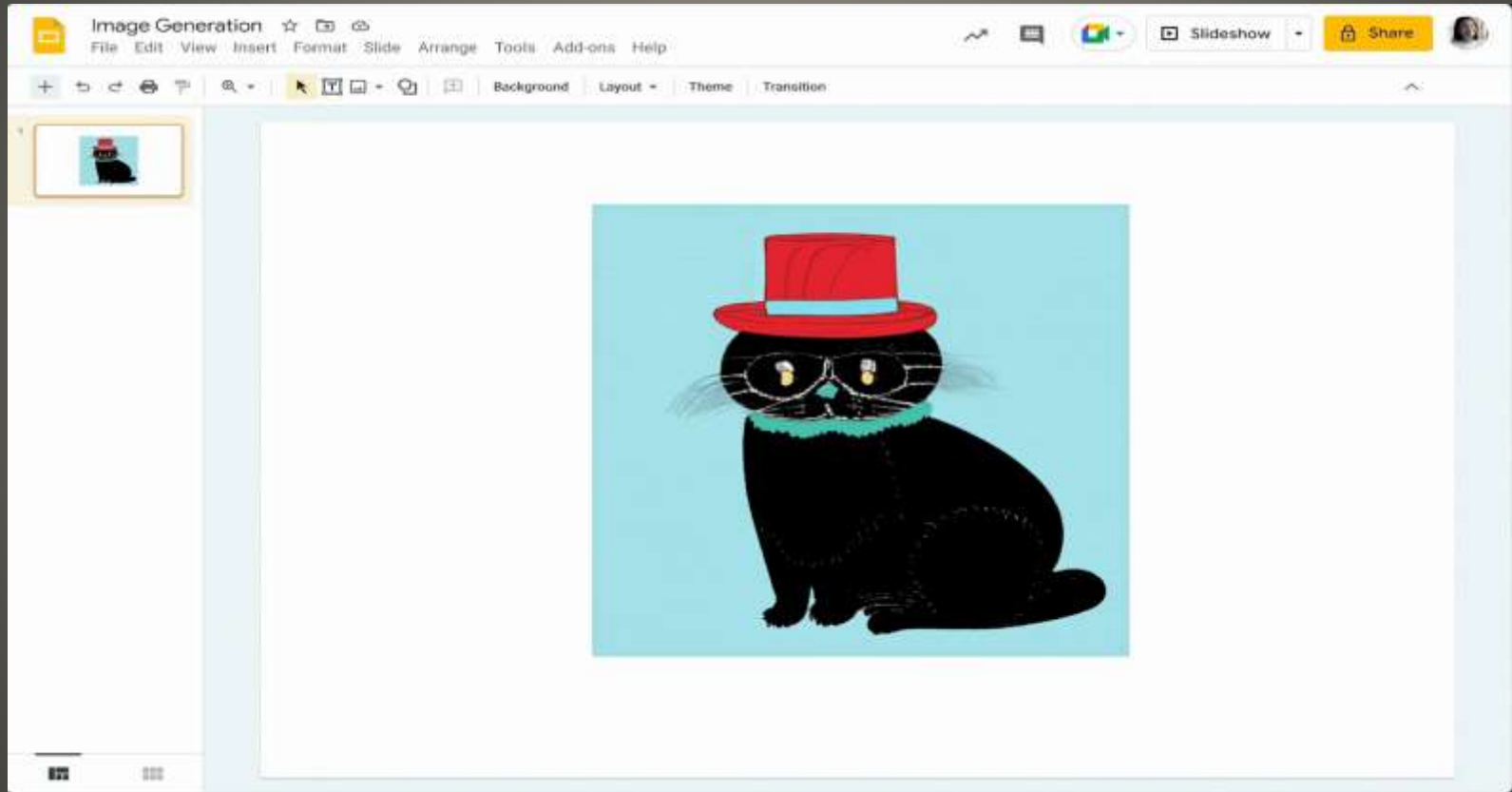
**Facebook users warning**



- Section 702 of FISA reauthorized  
Retry 2026
- XZ utilities & Open Source – NOT end of story
- United Healthcare  
Hackers stole some quantity of patient data  
Chase Healthcare hit with second ransomware attack  
Citrix vulnerability in Feb 12 Lockout Feb 21  
One account without MFA
- Sandworm -> APT44
- New U.K cybersecurity law for Internet of Things  
Product Security and Telecommunications Infrastructure Act  
No default passwords, security update requirements, etc.  
April 29, 2024 [ETSI](#)  
Criminal offense 4% revenue or £10 million  
US Cyber Trust Mark
- Duo SMS service data breach – customer phone numbers
- World-Check database for future customer screening  
Customer's bank accounts shutdown - no public reason
- Austria arrests former intelligence officer for spying
- Google Device Bound Session Credentials  
defense for stolen session cookies

## Current Issues

- HTTP/2 Continuation Frame vulnerability Dos attack
- Goggle Slides -remove background from images



**Current Issues**

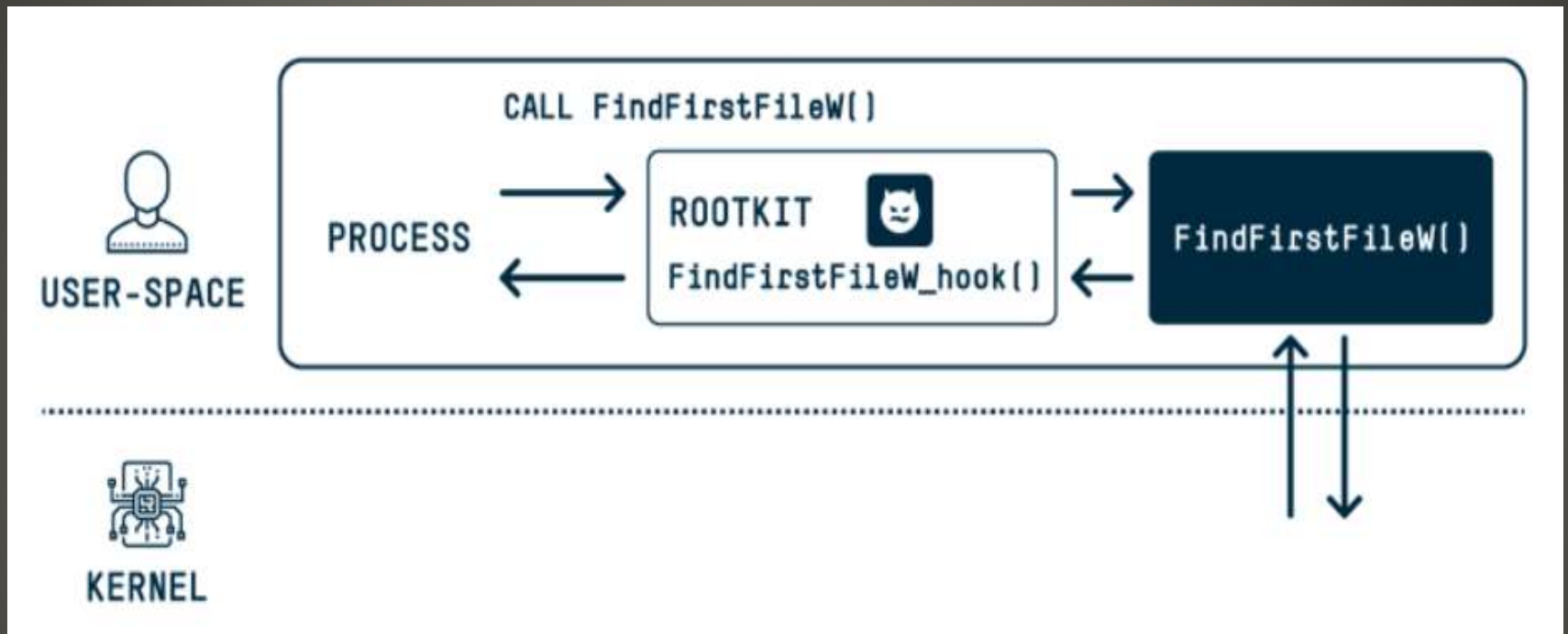
- Home Depot employee's personal data exposed
- Israeli cyber spy unit head exposed one error  
Unit 8200

2021 book *The Human Machine Team* Brigadier General YS  
Amazon copy with email address tied to real name  
One mistake ...

- Capture FaceID to fake bank access
- Mona Lisa Rap Microsoft VASA-1
- AI Image to Text capture text for access
- Microsoft Print Spooler vulnerability CVE-2022-38028  
GooseEgg April 2019
- Windows flaw DOS-to-NT path conversion
- Proton Mail Dark Web monitoring

## Current Issues

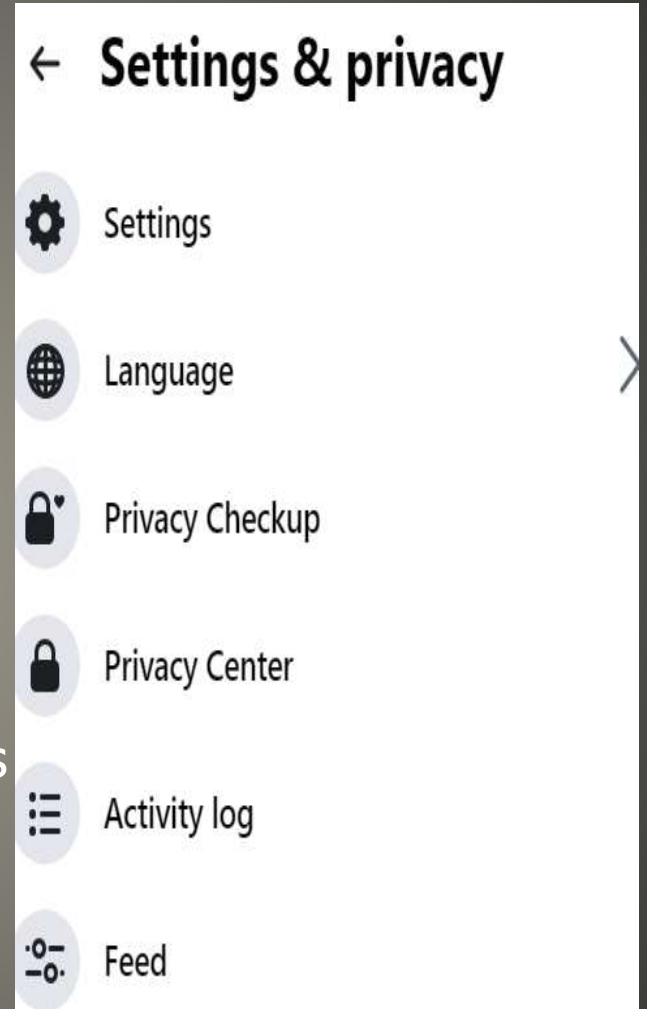
- Windows flaw DOS-to-NT path conversion



- 4 security issues 3 addressed

## Current Issues

- Facebook Privacy oxymoron?
- Privacy Checkup Tool
- Anyone can create with Your name
- Check and Re-Check
- Profile Visibility
  - Audience and visibility
  - Profile Details
- Friends List and Searchability
- Posts and Tagging permissions
- Third-Party access
- Ad Preferences and Security Settings

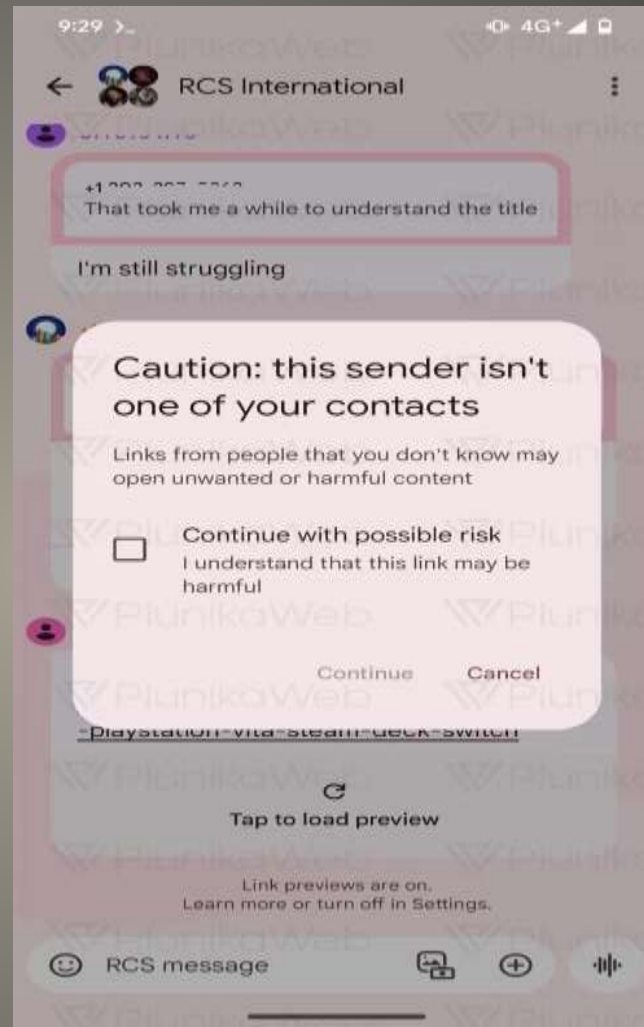


# Facebook Privacy Settings

- RCS spammy
- Google disabled RCS for a period of time

**Google RCS spam change**

- Unknown number
- Apple to add RCS



# Google Message RCS Spam



- Anti-virus => Security Suites
- XProtect signature based
  - 0-day signatures
  - Delay in XProtect data
  - XProtect data blocked/altered
- Gatekeeper
  - Application signing
  - Developer's signing certificate compromised
  - User able to bypass Gatekeeper
- User Social engineering
  - Click through warnings
  - "Follow directions"
- Browser protections

**Macs need Anti-virus?**



- Resources needed
- Resources used
- Anti-virus can “see” data you can not
- Helpful <-> Harmful
- Rosetta 2 Apple silicon run Intel based code
- Apple silicon Secure Boot vs Intel EFI
- Recovery mode
- Device Firmware Update Mode (DFU)

**Macs need Anti-Virus?**

- Recovery Mode
  - Most Apple devices
  - Uses bootloader
  - Connect to Mac Install iOS/iPadOS
- Device Firmware Update
  - Secret handshake
  - Corrupt boot loader
- Mac T2 security chip
  - Restore using another Mac

**Wait, Recovery Mode DFU?**

- Was Mac only
- Apple App Store protections not 100%
- Files loaded from Internet warning
- Files loaded from Internet setting
- Apps can infect post-install
- Discounted Tax return software
- Be Aware

## **Apps Sideloading**

- System Integrity Protection (SIP)
- Normal SIP bypass
  - Restart in Recovery Mode
  - Setup
  - Restart i.e. physical access
- Migration Assistant
- Add exception to SIP exclusion list
- Apple macOS updates
  - Ventura 13.4, Monterey 12.6.6, Big Sur 11.7.7

**Migraine**

- Hisense TV  
Random UUIDs for UPNP  
Windows adds all to registry

**Smart TV**

- eScan AV updates over HTTP
- FCC to restore Net neutrality rules
- Physical access to Android TV can yield access to your entire Google Account

Android designed for Smart Phones – single user

Google centralized account system

(side)load Chrome on TV

ALL Google account access CC, email, browsing history, ...

Discard Android TV – Wipe first

Abandonware

Android TV, dongles, set-top boxes, Chromecast

Sign-in hotel room Android TV Airbnb

Logged into Android TV lately? LOG OUT

Account > Security > Manage all devices

## Current Issues

**Sign out of Gmail remotely**

- NUCA cameras remove clothing  
Smart camera in shell  
AI processing in cloud
- Many countries have banned TikTok
- WordPress Automatic CVE-2024-279
- Very Heavy scanning underway
- T-Mobile to use GPS May 8  
and throttling



## Home Internet Service Address Validation

Our Home Internet plan is designed to be used at specific addresses in places with enough network capacity to ensure all our customers have good network experiences. Starting May 8, we'll notify customers using Home Internet at a different location than the one they signed up at to either recheck their current address eligibility, move their gateway back to the address they signed up at, or switch to another plan that suits their needs.

- On April 28, customers' originally approved Internet addresses will be visible within the troubleshooting tab in Atlas, along with their current gateway's location.
- Customers using their gateway at a different address will have a flag displayed.
- Refer to [Address Changes: Home Internet](#) for steps on validating and updating your customer's place of use.

# Current Issues



- Godfather banking trojan  
Hundreds of samples AI?  
record screen, keystrokes, 2FA, calls, text
- Kaiser health data share  
Millions of current and former customers  
Data shared with Google, Microsoft, X  
Shared analytics
- WhatsApp to use passkeys on iDevices
- Fingerprint sensors  
Optical, capacitive, ultrasonic  
Optical CCD CMOS  
Accurate, robust, simple  
Spoofing, scanner or finger surface issues  
Capacitive iPhone 5S  
Less susceptible to spoofing movement detection  
Skin sensitivity  
Ultrasonic  
Sound  
Pricy

## Current Issues

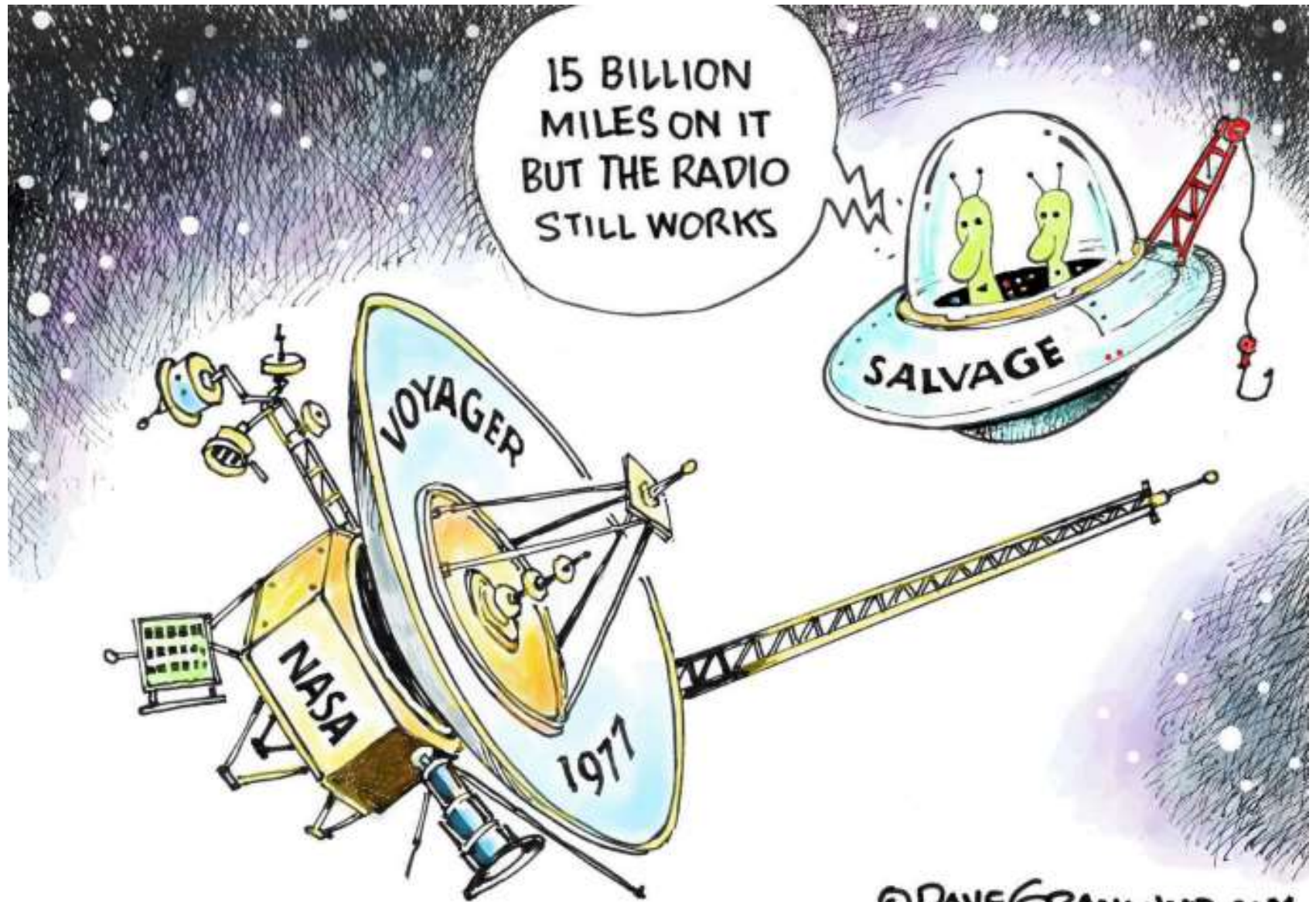
- Cisco Adaptive Security Appliance 2 0-days
- T-Mobile new Account Change Engine  
SIM change notification via SMS 10 minutes to deny auto approved  
SIM change notification via SMS 10 minutes to approve auto deny
- Brokewell Android banking trojan  
Fake Google Chrome update



## Current Issues

- Tipton, Indiana wastewater treatment plant cyber attack  
April 19 People's Cyber Army of Russia
- Android 15 Private Space feature  
Files and Apps
- Android 15 application quarantine
- iSharing app - too much sharing
- Stuxnet on steroids  
Ukraine security services attack on Russian infrastructure  
Industrial sensor and monitoring physically destroyed remotely  
Excluding hospitals, airports, and civilian targets
- Voyager 1 resumes sending data 22.5 light hours away  
Rework flight data system
- China bans Threads, Signal, Telegram, WhatsApp Apple App store

## Current Issues



15 BILLION  
MILES ON IT  
BUT THE RADIO  
STILL WORKS

SALVAGE

VOYAGER

NASA

1977

© DAVE GRANLUND.COM



- Hyundai Bluelink app  
 No driver discount Data sharing declined  
 Lexis Nexis – no data  
Verisk - wow

dates, minutes, braking, acceleration

Save driving dongles – misinformation

Hyundai customer service:

“Thank you for contacting Hyundai Customer Care about your security concerns. As a confirmation, we have been notified today that the driver's score feature and all data collecting software has permanently disabled. We do care. As always, if you ever need additional assistance, you can do so either by email or phone. Case number...”

Data Requested by: VDC-IMP-ROOC  
 Data Source: Hyundai

Driving Event Summary	Driving Data	Value
Trip Count: Vehicle Ignition on to Ignition off		242
Speeding Events: Vehicle speed is greater than 80 mph		N/A
Hard Braking Events: Change in speed < -9.5kph/s		24
Rapid Acceleration Events: Change in speed > 9.5kph/s		26
Daytime Driving Minutes between 5AM - 11PM		6,223
Nighttime Driving Minutes between 11PM - 5AM		25
Miles Driven		5,167.60

Daily Driving Log							
Date	Number of Trips	Speeding Events	Hard Braking Events	Rapid Acceleration Events	Daytime Driving Minutes	Nighttime Driving Minutes	Mileage
Mar 10, 2024	2	N/A	1	0	32	0	19.74
Mar 09, 2024	2	N/A	0	0	23	0	13.44
Mar 06, 2024	4	N/A	0	1	69	0	46.14
		N/A	0	1	41	0	18.14

# Hyundai Bluelink

- OnStar
- Smart Driver Digital Badges
- Owner One data collected One not
- LexisNexis
- Verisk
- Data unavailable to owner
- Detailed data from data brokers
  - Number of trips, distance, start/end times, hard braking, rapid accelerations
- High level summary
  - Miles driven, driving minutes, hard braking, rapid accelerations
- NYT reporter checked – NOT enrolled
- App No Website Yes Bug?
- Insurance rate increased
- Screen with details presented if salesperson showed it

**GM**

- Salespersons incentives
- Dealership report “sell connected cars”
- Connected Access  
OnStar – Yes  
Text to customer – yes  
GM Insurance product – No

**⚠** The customer must personally review and accept (or decline) the terms below. **This action is legally binding** and cannot be done by dealer personnel.

## Enrollment Preferences

*(Smart Driver and Notifications opt-in)*

### One-click Enroll into OnStar Smart Driver and Notifications

#### OnStar Smart Driver†

Improve your ownership experience with access to OnStar Smart Driver.

We'll keep you informed about the following:

- Up-to-date information about your driving skills
- Low tire pressure or oil change needed
- Potential maintenance or performance issues
- Service notifications from your dealer
- Theft Alarm Notifications if your alarm is triggered
- Wi-Fi® data running out

#### Details

By providing an email and opting into notifications, we can keep you informed on the following services and features, based on your vehicle's capability/eligibility:

**Diagnosis Report!** – reports each month showing you the status of your vehicle's key operating systems.

**Diagnostic Alerts!** – alerts regarding issues with your vehicle's key operating systems.

Please visit [my.cadillac.com](http://my.cadillac.com) for more information about your OnStar and Cadillac Connected Services. You can also change your communication preferences or un-enroll from any of these services at any time on [my.cadillac.com](http://my.cadillac.com) or through an Advisor. Messaging and data rates may apply.

By checking "Accept", you will be enrolled in OnStar Smart Driver and we may also send you notifications related to all of the above services.

**I Accept:** I agree to enroll in OnStar Smart Driver and the notification services listed above.

**I Decline:** I do not agree to enroll in OnStar Smart Driver and the notification services listed above.

**GM**

- Smart Driver 2.0

Hard cornering, forward collision alerts, lane departure warnings, seatbelt reminders

- Data about car – GM
- Data about driver – Personal data
- Multiple drivers?
- What are hard braking & rapid acceleration events?
- Speeding over 80 mph (Texas 85 mph)
- LexisNexis GM, Kia Subaru, Mitsubishi
- Verisk Ford, Honda, Hyundai and millions of vehicles
  
- Request your report(s)
- LexisNexis  
<https://consumer.risk.lexisnexis.com/consumer>
- Verisk  
<https://fcra.verisk.com/#/>







## FCRA Disclosure Forms

How to order your free consumer reports. Verisk will provide one free report in any 12-month period.

### Important Notice to Consumers regarding Driving Behavior Reports

Verisk no longer receives driving behavior data from automakers to generate Driving Behavior Data History Reports. Verisk no longer provides Driving Behavior Data History Reports to insurers. If you're interested in receiving a copy of your Driving Behavior Data History Report, please click on the link at the bottom of the page. The driving behavior related data Verisk can offer you will vary by auto manufacturer. See table below.

Auto Manufacturer	Verisk stopped receiving driving behavior data to produce Driving Behavior Data History Reports as of
General Motors	March 18, 2024
Honda	April 9, 2024
Hyundai	April 9, 2024

- Credit reporting freeze  
Unfreeze without PIN  
Supply information available in data breach  
Unfreeze notification - postal mail?  
Harder to intercept  
<https://grc.sc/credit>
- GitHub  
Flaw/Design decision  
malware appear Microsoft official code repository
- Dauthi – attack framework against MDM platforms
- U.K Investigatory Powers Bill *Snoopers' Charter*
- EU *Chat Control*  
screen CSAM no exclusion for feasibility  
UK “technically feasible”  
EU “except for us and LE and military and ...”
- CISA *Ransomware Vulnerability Warning Pilot Program*

## Current Issues

- CISA *Ransomware Vulnerability Warning Pilot Program*  
Administrative Subpoena  
No judicial review  
No opt-out / decline
- Muddling Meerkat  
China Great Firewall
- Shein mystery box

Over \$4,000,000 in Offers given out so far!

Survey About

# SHEIN

Dear SHEIN Shopper,

We would like to offer you a unique opportunity to receive a **Shein Mystery Box!** To claim, simply take this short survey about your experience with SHEIN.

**Attention!** This survey offer expires today



**START SURVEY**



## Privacy Review of Administrative Subpoenas

Results on Review of Procedures  
July 07, 2022



Homeland  
Security

Cybersecurity and  
Infrastructure Security  
Agency (CISA)

# Current Issues



**AT&T**

**Dear Customer,**

At AT&T, we prioritize the security of our customers' information and are committed to maintaining transparency in all matters related to your privacy and data protection.

We are writing to inform you of a recent security incident involving a third-party vendor. Despite our rigorous security measures, unauthorized access was gained to some of our customer data stored by this vendor. This incident might have involved your names, addresses, email addresses, social security numbers, and dates of birth.

We want to assure you that your account passwords were not exposed in this breach. We have notified federal law enforcement about the unauthorized access.

Please accept our apology for this incident.

To determine if your personal information was affected, we encourage you to follow the link below to log into your account:

[Sign In](#)



Thanks for choosing us,

AT&T

- Be careful with download files
- Be careful with uploading files
- Chromium based browsers  
Browsers are compute engines  
File System Access Application Interface  
APIs  
Access files on computers to upload  
Photos to edit  
Files to encrypt for cloud storage  
Access your files  
Within browser confines  
Bypass filesystem and OS protections  
Ransomware vector

## Upload Cautions

- Do it before **they** do
- Lock out of your access
- During MFA setup
- SMS, Authenticating tokens, Push notifications
- Session cookies
- Centralization Apple, Google, Microsoft
- Adding user, Adding device, Account Recovery
- Registration, identity proofing, authenticators establishment, authentication, recovery-identification, account termination
- Zero-Trust architecture

**MFA**



- It has happened to me before
- WAIT
- Stolen Device Protections
  - Known Location
  - Wait Time

**Apple Accounts**

- CAUTION: Many fake download sites
- Was iOS & macOS
- Now Windows
- The Browser Company
- Chromium engine
  - Swift programming language
  - Weekly Updates
  - .EXE Wants an account created

**Arc Browser**



- iPhone alarm problem  
“Attention Aware” feature?
- iOS “Ready for Repair” 17.5 beta
- Cuttlefish malware  
Monitor traffic for credentials
- Mysterious AI system detected  
Then removed gpt2-chatbot  
LMSYS.Org benchmarks AI
- Alarming surge in bank Account closures  
Suspicious activity  
Anti money laundering software

## Current Issues

- Cutting the Cord

Alternatives to deliver video/audio content

<https://vimeo.com/749640628>

- Cyber Security SIG 21-Mar-2024

Automatic Content Recognition (ACR)

Advertisement Identification

- Roku account breach

- Roku advertisement change

**Streaming TV 101**

- Recovery Seminar
- <https://vimeo.com/882272974?share=copy>
- NOW, Your input, experiences, ...
  
- Helpful < - > Harmful
- Awareness, Preparedness, Understanding

Computer Club, Help Center, SIGs, Presentations, classes  
Cyber Security SIG meetings, NEWSBLOG  
Internet

- Questions, suggestions, comments?

**SCCCCyber@gmail.com**