Sun City Computer Club

MUG MAC Users Group

February 28, 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

Audio Recording In Progress

- Wake Words

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

- Ever want to be a presenter??
- Participant???
  Special Interest GROUP

- Apple Users Group
- March 27 2:30 – 4:00 Retreat MUG conflict
- Leader(s)???
- iDevices in MUG no one wants that

- This presentation is long, feel free to leave zoom
  Catch up on presentation recording

Presenter???

- Was heart rate recovery
- Now Cardio Recovery
- Fitness & Health App
- Post workout

watchOS Cardio Recovery

Heart Rate Recovery

- Measures of that activity reflect the balance between the sympathetic nervous system (which activates fight and flight responses) and the parasympathetic nervous system (which activates 'rest and digest' activities) and have been shown to be powerful predictors of mortality.

EU DMA changes

- iPhone
- Alternative app marketplaces - Alternative app marketplaces will only be available on the iPhone, not the iPad, so there will not be an option to install a third-party app store on an iPad. There will also be no way to install an app from an alternative app store on an iPad. Alternative marketplace apps will be iPhone only.
- App notarization - Notarization is linked to alternative app marketplaces and will apply to iOS apps, not iPadOS apps.
- Alternative browser engines - Allowing browsers to use an alternative engine is a feature that is also iPhone only. Chrome, for example, would only be able to use a non-WebKit engine for its Chrome for iPhone app, not the Chrome for iPad app.
- NFC access - Banking and wallet apps on iPhone can access NFC technology and users can set alternative contactless payment apps as default.

EU DMA Changes

- App Store

Apple's new business terms - The new business terms, which come with a Core Technology Fee and reduced App Store commissions, are applicable to all platforms.

Third-party payments - Developers can opt out of In-App Purchases, instead using a third-party payment service provider for digital goods and services.

App Store labels - When an app uses alternative payment processing, it will say so on the App Store product page and on an in-app disclosure sheet that warns customers that a developer is directing them to transact with an alternative payment processor.

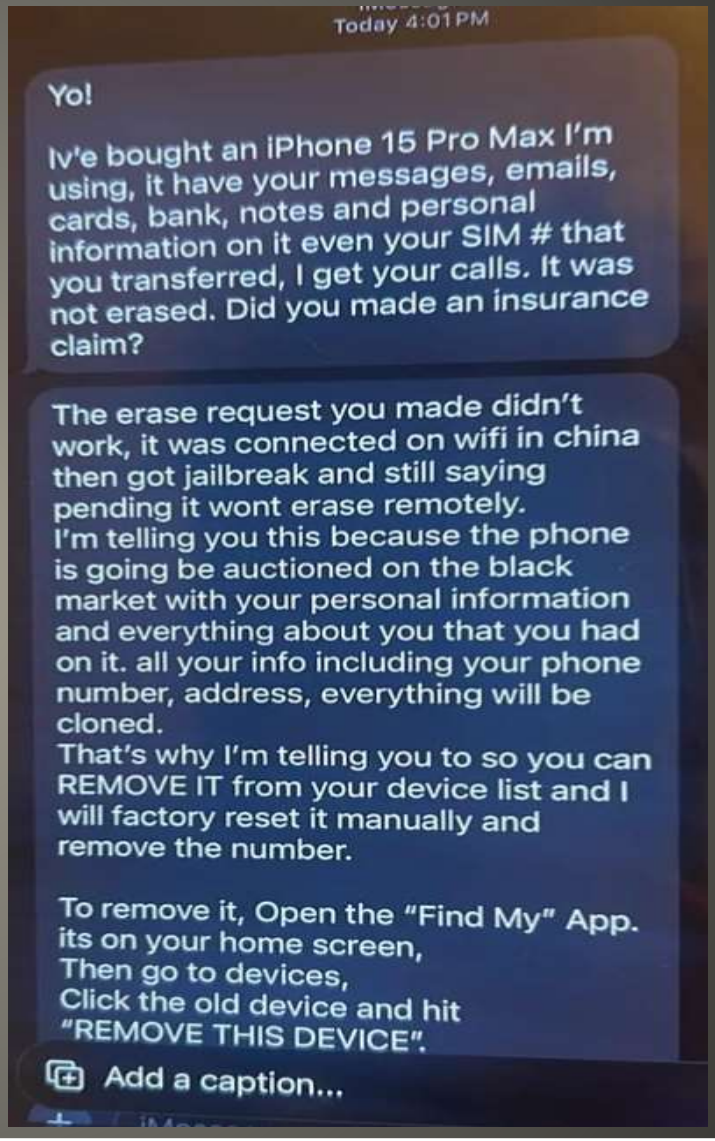
Payment link-outs - Developers can include a link to allow users to complete a transaction on the developer's website, and can also let users know about promotions, discounts, and deals available outside of their apps.

- Unknown and/or changing rules

Alternative App Store

Stolen iPhone

- Do Not Remove Find My
- AppleCare+ Theft & Loss
- 2 incidents every 12 months
  IF Find My enabled
- iPhone 15 Pro $13.49/mo
- Sensitive requests
  Unfamiliar location
  Face ID or Touch ID
- More sensitive requests
  1 hour pause
  Disable Find My
  Change Apple ID password
  reset Face ID or Touch ID



FAKE Alerts

- iCloud

CLOUD SERVICE TERMINATION. Upgrade now or lose your stored photos and files. <URL>

ACCOUNT SUSPENDED: Your cloud account has been suspended due to reaching its limits, Upgrade NOW or claim 100GB FREE <URL>

CLOUD STORAGE ALERT. Upgrade immediately or say goodbye to your stored photos and files. <URL>

CHECK FIRST DO NOT CLICK

Apple Watch

- Ghost touches
- Apple Watch Series 9
- Apple Watch Ultra 2
- Restart
- Patch available “soon”

10:56
100
2
Unable to load remote content privately.
Load Content
This message is from a mailing list.
Unsubscribe
ICloud Storage 63
To: [redacted]
9/6/23
LAST ALERT: ALL YOUR PHOTOS WILL BE DELETED!_71
[redacted]
Your iCloud storage is full
iCloud
Failed to attempt payment when renewing your Cloud storage subscription
0 GB
48.9GB /50 GB
We failed to renew your iCloud storage
Your photos and videos will be deleted!!
Your payment method has expired: Update your payment information!
If you don't have enough iCloud space, you can upgrade storage plan
FULL

Apple Rumor

- iPad Air 12.9” M2 chip Wi-Fi 6E Bluetooth 5.3
- iPad Pro OLED M3
- MacBook Air M3 Wi-Fi 6E
- homeOS
- tvOS 17.4
- CarPlay 2.0

  In car climate, heated seats, radio, SiriusXM

  Driving data: average speed, fuel efficiency

  Goodbye message

Vision Pro Battery cable

iOS 17.4 beta

- EU changes
  - Safari, iOS, App Store
- Unicode 15.1 emoji
- Siri support for more languages
- Autogenerated transcripts in Podcasts
- New Settings options
  - Identifiable Region
  - Contactless & NFC

MacRumors iOS 17.4 Feature Guide

- 4K indicator Apple TV App

- Collaborative Apple Music playlists
  HomePod
  SharePlay icon QR code

tvOS 17.4

Vision Pro teardown

- Try before Buy

Vision Pro

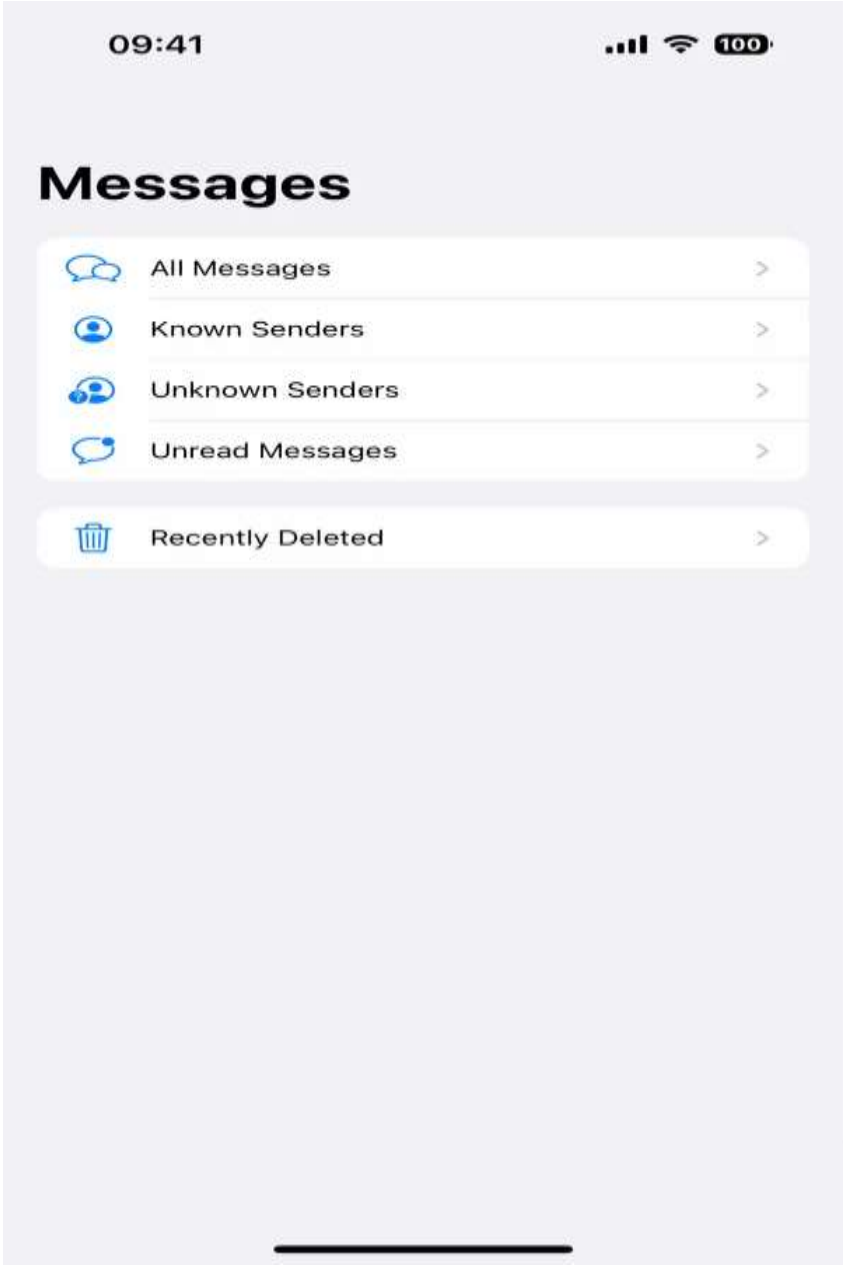
- Messages
  Large message limits
  Emojis
  Flare / emotion
  Handwriting
  Unsent
  yeahbut Recovery?

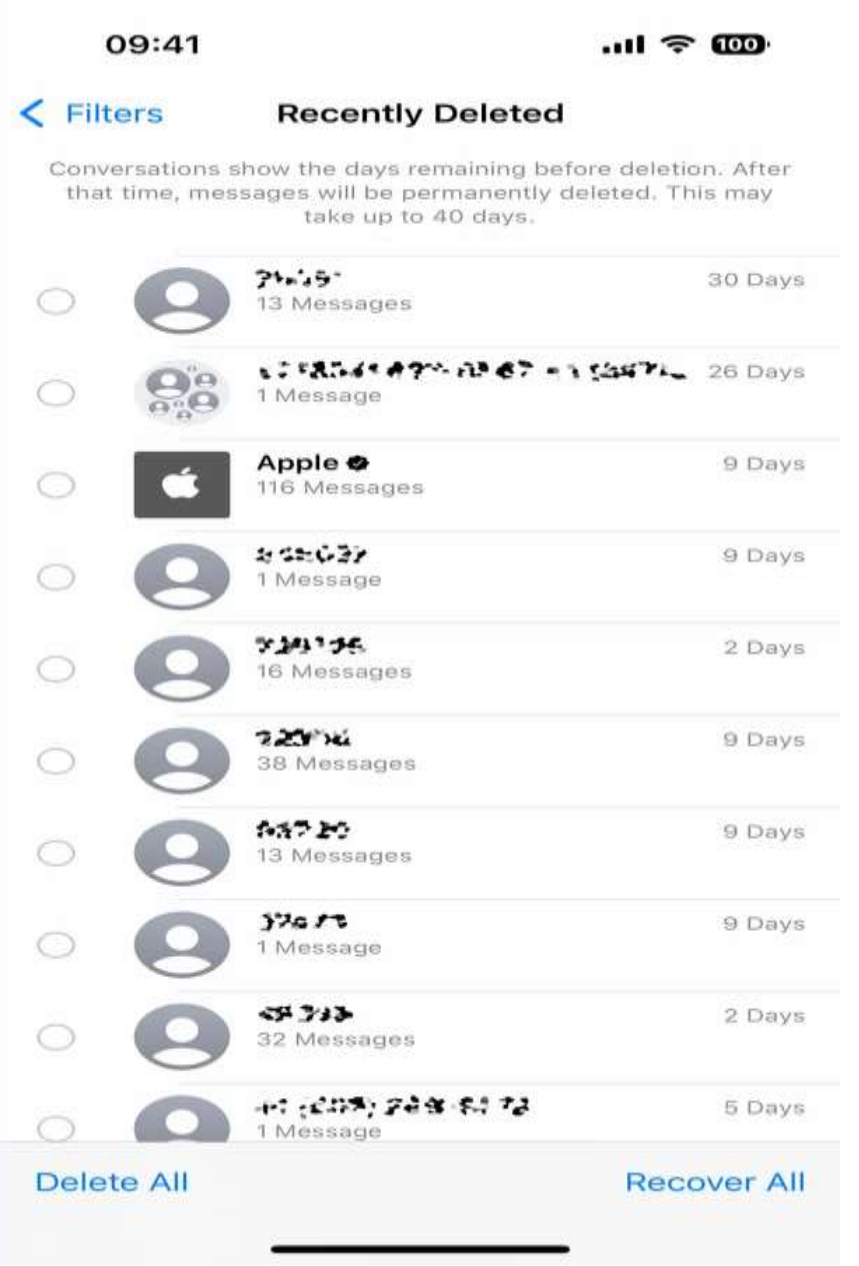
iPhone deleted message recovery

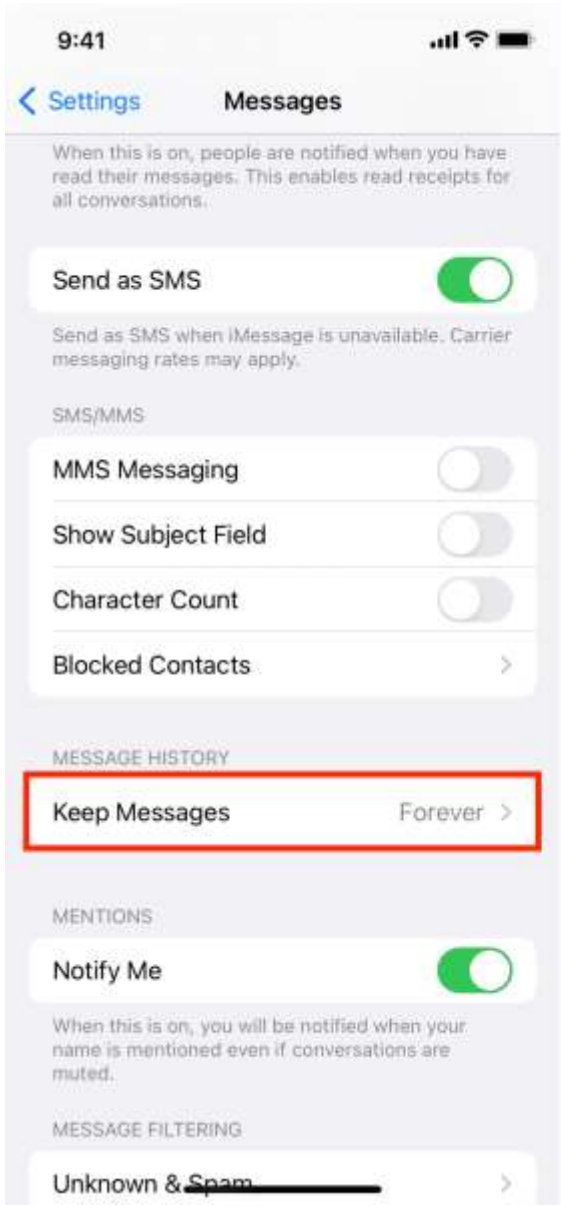
iPhone deleted message recovery

- Tap & Hold Edit (upper left corner)
  Dropdown Show Recently Deleted
- Enable message filtering
  Settings > Messages > Filter Unknown Senders
  Tap Filters > Recently Deleted
- Past 30 days?
  Other Apple device with same AppleID

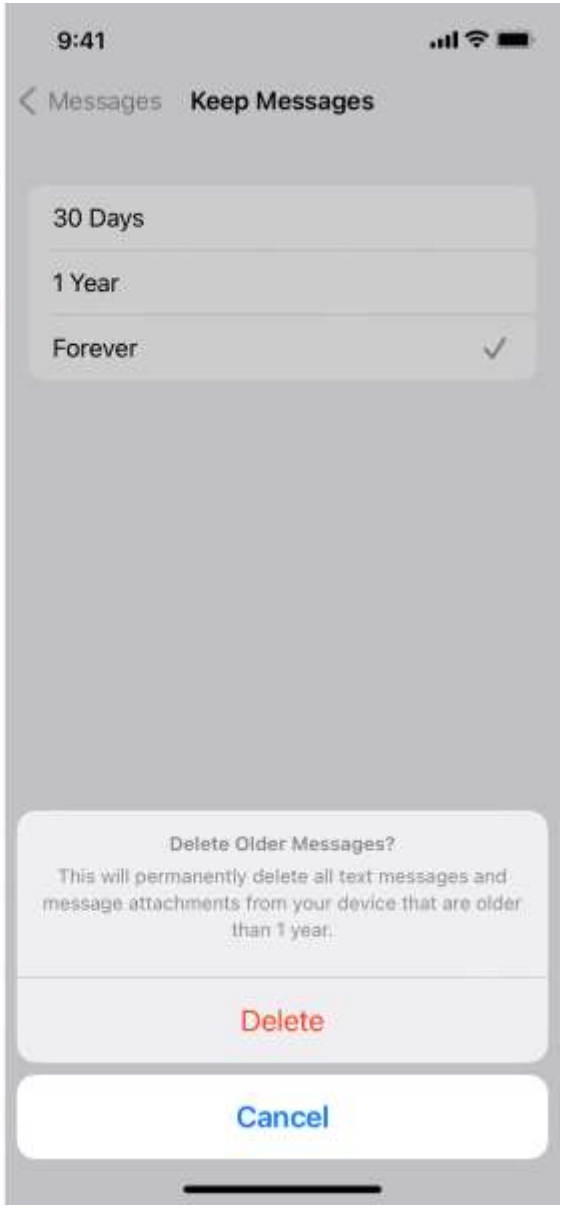
Low storage?
Settings > Messages > Message History > Keep Message History


09:41
Messages
All Messages
Known Senders
Unknown Senders
Unread Messages
Recently Deleted


09:41
Filters
Recently Deleted
Conversations show the days remaining before deletion. After that time, messages will be permanently deleted. This may take up to 40 days.
30 Days
13 Messages
26 Days
1 Message
Apple
116 Messages
9 Days
9 Days
1 Message
2 Days
16 Messages
9 Days
38 Messages
9 Days
13 Messages
9 Days
1 Message
2 Days
32 Messages
5 Days
1 Message
Delete All
Recover All


9:41
Settings
Messages
When this is on, people are notified when you have read their messages. This enables read receipts for all conversations.
Send as SMS
Send as SMS when iMessage is unavailable. Carrier messaging rates may apply.
SMS/MMS
MMS Messaging
Show Subject Field
Character Count
Blocked Contacts
MESSAGE HISTORY
Keep Messages
Forever
MENTIONS
Notify Me
When this is on, you will be notified when your name is mentioned even if conversations are muted.
MESSAGE FILTERING
Unknown & Spam

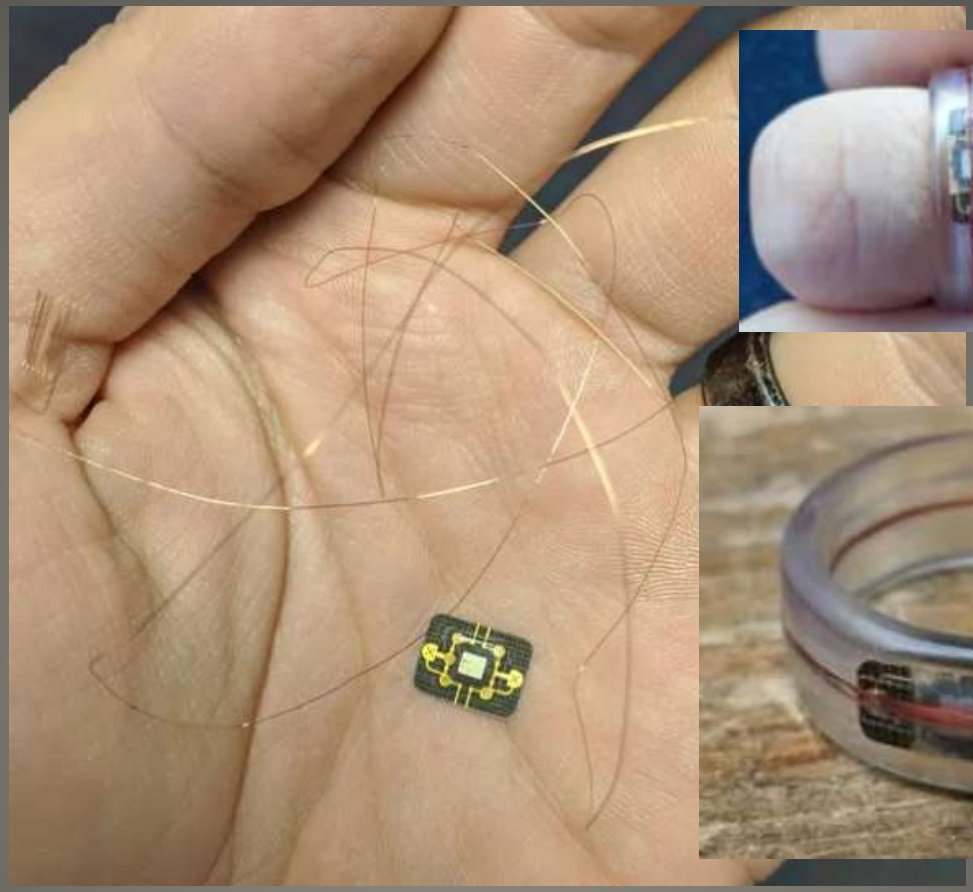
9:41
Messages
Keep Messages
30 Days
1 Year
Forever


9:41
Messages
Keep Messages
30 Days
1 Year
Forever
Delete Older Messages?
This will permanently delete all text messages and message attachments from your device that are older than 1 year.
Delete
Cancel

Apple Card

Please activate your card before use.

((•))
302



Credit Card Chip to ring

- Do Not Shred

Credit cards made from metal

Path to Apple Card

Updates 8-Feb-2024

- Updates to fix bug of text may overlap while typing.
- And the potential security related issues.
- The tell, updates to Sonoma and Safari to 17.3 on older Macs and iPads.

iOS 17.3.1 iPadOS 17.3.1 Sonoma 14.3.1 watchOS 10.3.1 visionOS 1.3.1

MacBook lost trackpad – Close lid fix
Apple Store prevent restart

- MGIE – Apple + UC Santa Barbara

Figure 1: We introduce MLLM-Guided Image Editing (MGIE) to improve instruction-based image editing for various editing aspects. The top is the input instruction, and the right is the jointly derived expressive instruction by MGIE.

MLLM-Guided Image Editing

iPhone Driver's License expansion

- Current

Arizona (since March 2022)
Maryland (since May 2022)
Colorado (since November 2022)
Georgia (since May 2023)

- Other

Connecticut
Hawaii
Iowa
Kentucky
Mississippi
Ohio
Oklahoma
Utah

Recent (27-Feb-2024) Beta releases

- iOS 17.4 3rd
- iPadOS 17.4
- watchOS 10.4
- macOS Sonoma 14.4
- visionOS 1.1 beta

Cyber

- Rust based backdoor RustDoor
  macOS Intel & Arm
  Update to Microsoft Visual Studio
- GoldPickaxe iOS & Android
  joins GoldDigger, GoldKefu, GoldDiggerPlus
  Apple TestFlight platform
  MDM profile – complete control
  Thailand large transactions require facial recognition
  GoldPickaxe records video -> face swapping AI
  Collect victim's documents, intercept SMS, use proxy
  First iPhone trojan
- AI to enhance Spotlight
- Guilty verdict
  Thousands counterfeit iPhones for repair authentic iPhones in return

- Shortcut vulnerability CVE-2024-23204
  Chain tasks together Linux pipes
  Access sensitive info without user consent
  Import good shortcuts
  Expand URL
  select sensitive data | import | encode | forward

Cyber

- FaceID
- “Hey, you”
- Only answer if in Contacts
  Someone in your contacts has had their phone stolen

iOS Stolen Device Protection

AirTags

- Family sharing – pet iOS 17
- Lotsa Apple devices close proximity (30 feet)
- Battery replacement
- Find My > Items > Battery Low
  Battery level removed
- Replace Twist & Shout CR2032
- Max 16 AirTags

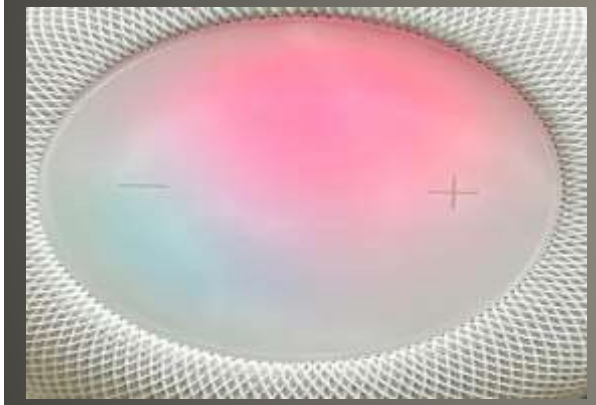
iDevice get wet?

- Not Bag of rice
  rice dust & small particles can short electronics
- New feature liquid-detection alert
- Unplug the Lightning or USB-C cable from your iPhone and from the power adapter or accessory.
- Don't plug the cable in again until your iPhone and the cable are completely dry.
- To help remove excess liquid and dry your iPhone, tap it gently against your hand with the connector facing down. Leave your iPhone in a dry area with some airflow.
- After at least 30 minutes, try charging your iPhone.
- If you see the alert again, leave your iPhone in a dry area with some airflow because it may take a day to fully dry; during this time you can attempt to charge it again.
- Silica gel packets Sealed jar

- Form Factors
- Displays
- Touch Screen
- Peripheral support
- AI

MacBook

HomePod 2nd generation



HomePod 2nd generation

- Key Specifications
- 5 horn-loaded beamforming tweeters with neodymium magnets, 4-inch high excursion woofer
- Top-mounted touch controls
- Room-sensing computational audio powered by Apple S7 processor
- Internal bass EQ microphone for automatic bass calibration
- Spatial Audio support, Dolby atmos support
- 4 microphone Siri far-field array
- 802.11n Wi-Fi connectivity (Apple AirPlay)
- Sound recognition for audio alarms including smoke detectors
- Integrated temperature and humidity sensors
- Supports stereo pairing and multi-room audio
- HomeKit compatible
- 6.6 x 5.2 inches, weighs 5.16 lbs
- Available in White or Midnight
- MSRP $299

HomePod 2nd generation

- Detachable figure-8 power cord
- Environmentally friendly packaging
- Black or White cloth covering
- No disco light pulsing
- Mics & AI to optimize audio performance
- Reduce Bass

HomePod 2nd generation

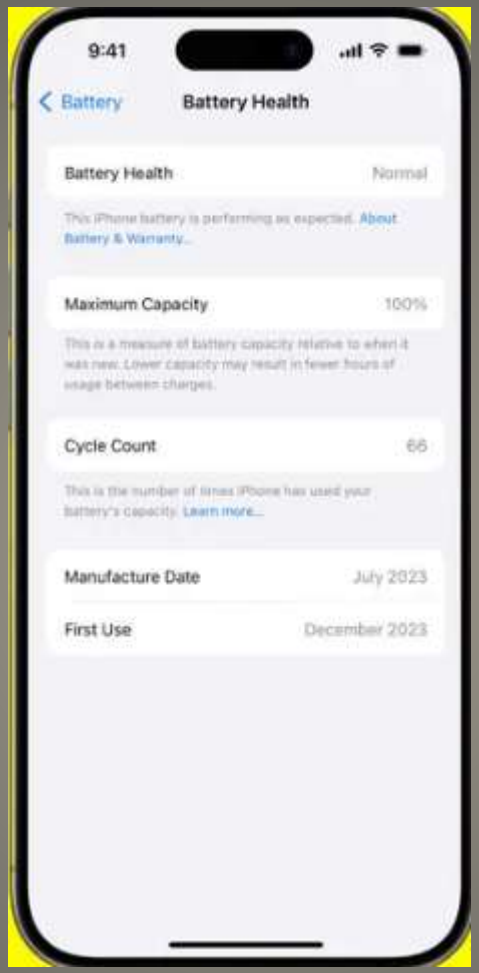
iOS 18

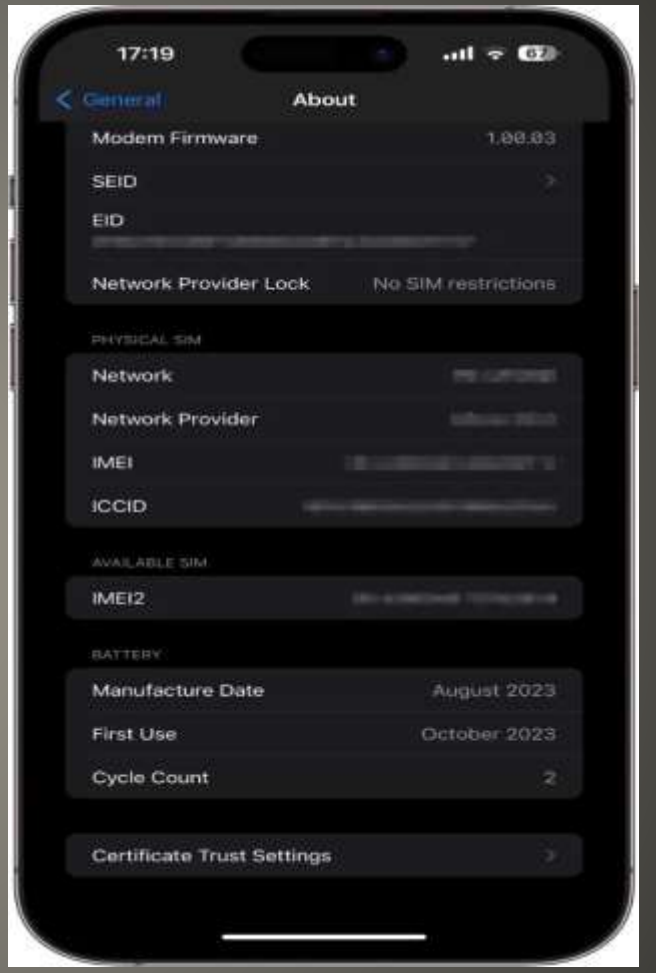
- June 2024 WWDC reveal?
- iPhone 16 series
- AI on device
- AI for Siri
- RCS messaging

- Instrument cluster
- Upcoming maneuvers
- Polestar, Volvo, BMW

CarPlay

- Battery Health
- Submenu
  Cycle count
  manufacture date
  first use date





iOS 17.4 iPhone 15 models

Pad mini: Early 2027
iPad Air: Early 2026
iPad Pro: Mid-2027, it will get an updated OLED panel
MacBook Air: Early 2027
MacBook Pro: Early 2026*

Apple OLED roadmap?

Apple App Store EU

- Better than nothing
- Less optimum for usage

Offline Maps Issues

- Early iPhone 15 models
- Bluetooth issues
- Request replacement iPhone 15

iPhone 15 models Bluetooth

- Keep Updated
- Also, Microsoft Store apps

Windows VM in Parallels Desktop

Apple Messaging Protocol

- Post-quantum cryptographic messaging protocol
- PQ3
- iOS 17.4 macOS 14.4 watchOS 10.4
- Replace current protocols later this year
  After updates
- Harvest now, Decrypt later
- Level 3 security

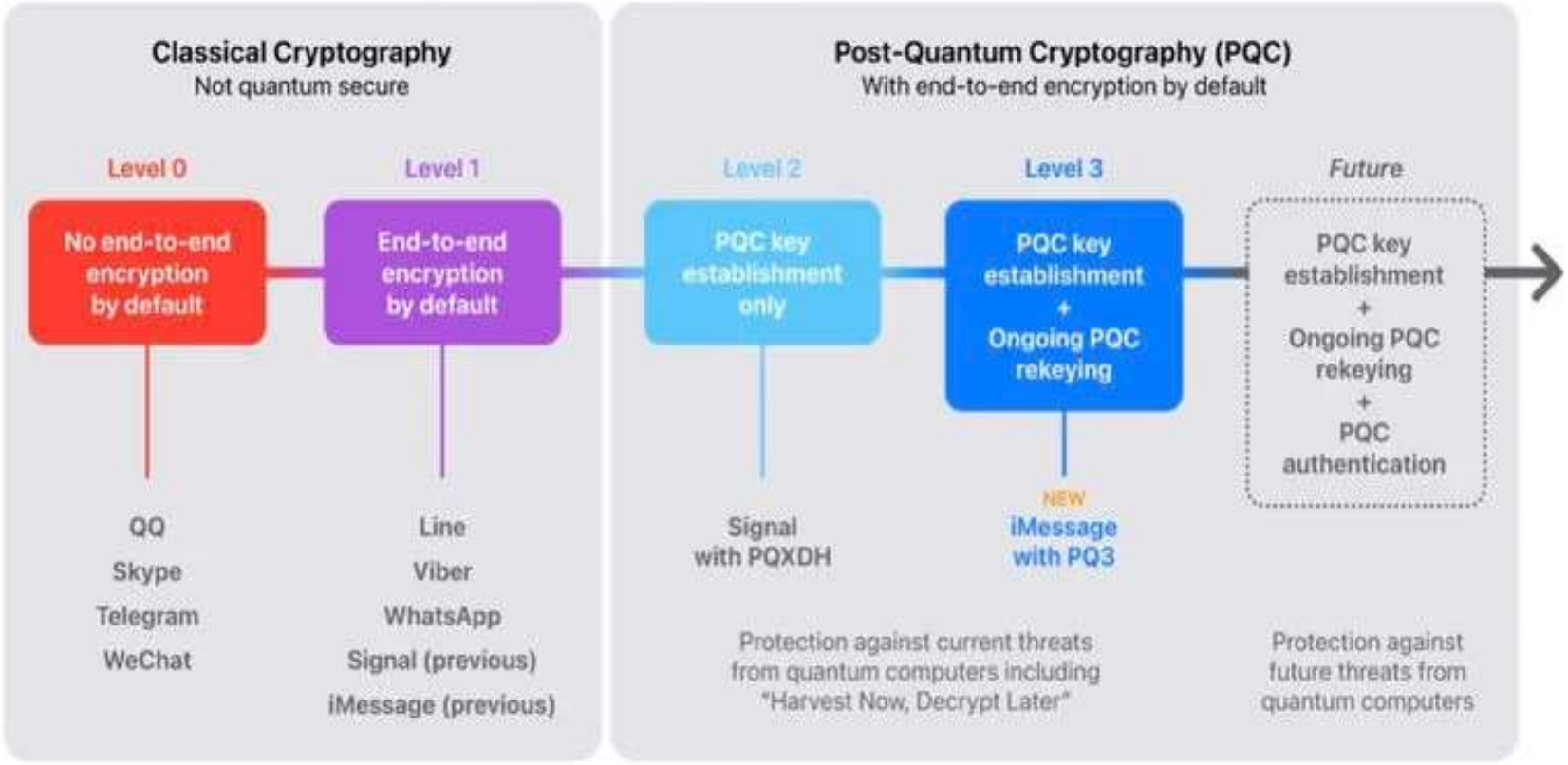
- Today we are announcing the most significant cryptographic security upgrade in iMessage history with the introduction of PQ3, a groundbreaking post-quantum cryptographic protocol that advances the state of the art of end-to-end secure messaging. With compromise-resilient encryption and extensive defenses against even highly sophisticated quantum attacks, PQ3 is the first messaging protocol to reach what we call Level 3 security — providing protocol protections that surpass those in all other widely deployed messaging apps. To our knowledge, PQ3 has the strongest security properties of any at-scale messaging protocol in the world.

Apple Messaging Protocol
Apple Blog Post

- Although such quantum computers don't yet exist, extremely well-resourced attackers can already prepare for their possible arrival by taking advantage of the steep decrease in modern data storage costs. The premise is simple: such attackers can collect large amounts of today's encrypted data and file it all away for future reference. Even though they can't decrypt any of this data today, they can retain it until they acquire a quantum computer that can decrypt it in the future, an attack scenario known as Harvest Now, Decrypt Later.

Apple Messaging Protocol
Apple Blog Post

Quantum-Security Cryptography in Messaging Apps



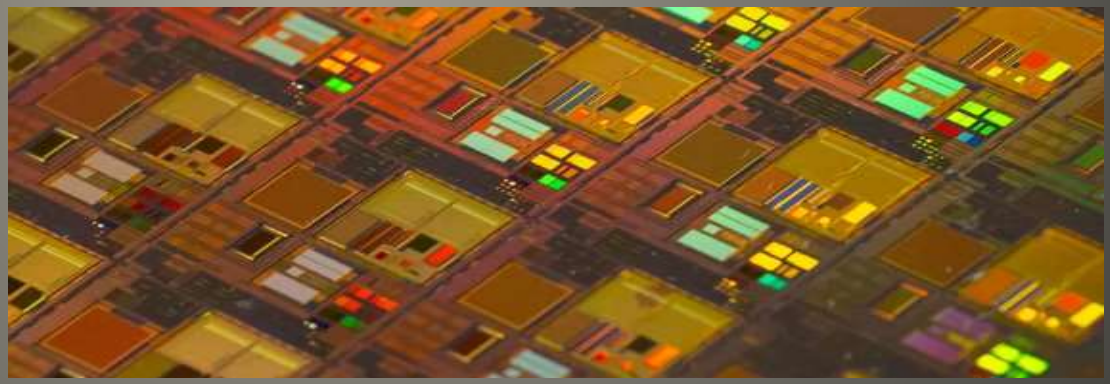
Note: This comparison evaluates only the cryptographic aspect of messaging security, and therefore focuses on end-to-end encryption and quantum security. Such a comparison doesn't include automatic key verification, which we believe is a critical protection for modern messaging apps. As of the time of this writing, only iMessage and WhatsApp provide automatic key verification. The iMessage implementation, called Contact Key Verification, is the state of the art – it provides the broadest automatic protections and applies across all of a user's devices.

Mac Tips

- Option + Drag to duplicate
  Instead copy & paste duplicate
  Duplicate & position at the same time
- Desktop
  THE Desktop, Desktop FOLDER, Desktop SPACES
- Screenshot file formats Shift + CMD + 5
  Terminal command
  defaults write com.apple.screencapture type jpg
  defaults write com.apple.screencapture type heic
  defaults write com.apple.screencapture type gif
  defaults write com.apple.screencapture type tiff
  defaults write com.apple.screencapture type PDF
  defaults delete com.apple.screencapture type
- 10 ways to take notes on a Mac
- Macmost.com
- https://seniortechclub.com/

A17 Pro Chip

- 3-nanometers
- 2-nanometers 2025
- 1.4-nanometers 2026
- 10% faster CPU GPU 20% faster
- Neural engine 2x faster
- Hardware-accelerated ray tracing
- Atom-by-atom billion cycles/sec
- 10 billion transistors trillions soon
- Metal wire 310 miles
- Machines size of bus
- Heat sand
- Extract silicon
- Slice to wafers
- Etch patterns
- Ion blast
- Wire connections
- Vertical design
- Power on bottom



- None of us are as experienced as all of us
- Awareness, Preparedness, Understanding
- Participate
- Topic Suggestions
- Questions: scccMUG@gmail.com

- Helpful < - > Harmful
- Awareness, Preparedness, Understanding

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

- Questions, suggestions, comments?

SCCCMUG@gmail.com