

National Security Agency | Mobile Device Best Practices

Threats to mobile devices are more prevalent and increasing in scope and complexity. Users of mobile devices desire to take full advantage of the features available on those devices, but many of the features provide convenience and capability but sacrifice security. This best practices guide outlines steps the users can take to better protect personal devices and information.





■■■ Cellular service signal



Near-field communication (NFC)



Agree, but we should consider the

Hey, John! Check out the oreign policy implications.

energy-forecast.pdf

https://foreignp0licv.net/

INSTALL NEW APP?

YES 🔼 NO

preign policy implications.

Recent applications soft key



BLUETOOTH®1

Disable Bluetooth® when you are not using it. Airplane mode does not always disable Bluetooth®.



DO NOT connect to public Wi-Fi networks. Disable Wi-Fi when unneeded. Delete unused Wi-Fi networks.



Maintain physical control of the device. Avoid connecting to unknown removable media.



Consider using a protective case that drowns the microphone to block room audio (hot-miking attack). Cover the camera when not using.



DO NOT have sensitive conversations in the vicinity of mobile devices not configured to handle secure voice.



Use strong lock-screen pins/passwords: a 6-digit PIN is sufficient if the device wipes itself after 10 incorrect password attempts. Set the device to lock automatically after 5 minutes.



Install a minimal number of applications and only ones from official application stores. Be cautious of the personal data entered into applications. Close applications when not using.



SOFTWARE UPDATES

Update the device software and applications as soon as possible.



Consider using Biometrics (e.g., fingerprint, face) authentication for convenience to protect data of minimal sensitivity.

TEXT MESSAGES

DO NOT have sensitive conversations on personal devices, even if you think the content is generic.

ATTACHMENTS/LINKS

DO NOT open unknown email attachments and links. Even legitimate senders can pass on malicious content accidently or as a result of being compromised or impersonated by a malicious actor.

TRUSTED ACCESSORIES

Only use original charging cords or charging accessories purchased from a trusted manufacturer. DO NOT use public USB charging stations. Never connect personal devices to government computers, whether via physical connection, Wi-Fi, or Bluetooth®.

LOCATION

Avoid Disable Do Do Not

Disable location services when not needed. **DO NOT** bring the device with you to sensitive locations.

POWER

Power the device off and on weekly.

MODIFY

DO NOT jailbreak or root the device.

POP-UPS

Unexpected pop-ups like this are usually malicious. If one appears, forcibly close all applications (i.e., iPhone^{®2}: double tap the Home button* or Android®3: click "recent apps" soft key).

The information contained in this document was developed in the course of NSA's Cybersecurity mission, including its responsibilities to assist Executive departments and agencies with operations security programs.

^{*}For iPhone X®2 or later, see: support.apple.com/en-us/HT201330

¹Bluetooth® is a registered trademark of Bluetooth SIG. Inc.

²iPhone® and iPhone® applications are a registered trademark of Apple, Inc.

³Android[®] is a registered trademark of Google LLC.



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WHAT CAN I DO TO PREVENT/MITIGATE?													
	Update Software & Apps	Only Install Apps from Official Stores	Turn Off Cellular, WiFi, Bluetooth	Do Not Connect to Public Networks	Use Encrypted Voice/ Text/Data Apps	Do Not Click Links or Open Attachments	Turn Device Off & On Weekly	Use Mic-Drowning Case, Cover Camera	Avoid Carrying Device/No Sensitive Conversations Around Device	Lock Device with PIN	Maintain Physical Control of Device	Use Trusted Accessories	Turn Of Locatio Service
Spearphishing (To install Malware)													
Malicious Apps													
Zero-Click Exploits													
Malicious Wi-Fi Network/Close Access Network Attack													
Foreign Lawful Intercept/ Untrusted Cellular Network													
Room Audio/ Video Collection													
Call/Text/Data Collection Over Network													
Geolocation of Device													
Close Access Physical Attacks													
Supply Chain Attacks													

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(no icon)

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