

Technology Services

Networking and Sharing - iOS

Troubleshooting SIM. eSIM. and Cellular Issues
Using Personal Hotspot
Wi-Fi Connectivity for iOS
AirDrop for iOS

Troubleshooting Cellular Data

SIM Card Troubleshooting

- No SIM or Invalid SIM error messages
 - Restart the iOS device from a cold boot.
 - Toggle Cellular Data on/off in Settings.
 - If the iOS device is in a case, remove the case and see if it helps.
 - Check for Carrier Updates.
 - For devices with a physical SIM card, remove the card ensure it's not damaged and place it back in the device.
 - If the SIM card was transferred from another device (an old iPhone for example) contact your cellular carrier.

eSIM

- Next generation 'virtual' SIM card that is not physical.
- Allows you to activate and switch from one carrier to the other without needing to swap SIM cards.
- You can activate two eSIMs (Dual SIM) on the same device, allowing you to activate a work phone number and a personal number on the same device.
- When traveling internationally, eSIM allows for easy activation on carrier networks in countries outside the US.
- Note: MDMs can wipe or retain eSIM when using Managed / Remote Erase.

No Service / Searching Issues

Using Personal Hotspot

Introduction to iOS Wi-Fi

Types of Wi-Fi Networks

Public or Open Networks

- Most common. Doesn't require a password.
- Not secure or encrypted (VPN recommended).

Private or Secured Network

- Home and business networks that require a password to join.
- More secure, with encryption built-in.

Captive or Subscription Network

 Similar to public or open networks, but has a special web-page called a captive portal that prompts for a sign-in, sign-up, or login. Common in hotels, airports, etc.

Connecting to Wi-Fi Networks

Understanding Wi-Fi Selection Priority

Network Selection Priority

Networks Configure by MDM Payload

Latest Wi-Fi Standard (WIFI 6E, 6, 5, etc)

Wireless Frequency (6GHz, 5GHz, 2.4GHz)

Security (WPA2 Enterprise, WPA2, WPA, etc)

Signal Strength

Troubleshooting Wi-Fi Networks

Troubleshooting Wi-Fi Issues

- Restart the iOS device from a cold boot.
- Toggle Wi-Fi on/off in Settings.
- Try connecting to the Wi-Fi network from another device to see if the network is functional.
- If the network is functional, try to change physical locations to see if connectivity improves.
- Reset Network settings and try again.
- Contact Apple Support if the issue persists (linked in Resources).

Configure iOS VPN

Sharing Files with AirDrop

Troubleshooting AirDrop Issues

Managing Safari Profiles