

The [REN-ISAC Technical Advisory Group](#) would like to call attention to Apple's new [iCloud Private Relay](#), which, if used, may impact your network visibility and IT security.

Here are some key points about iCloud Private Relay:

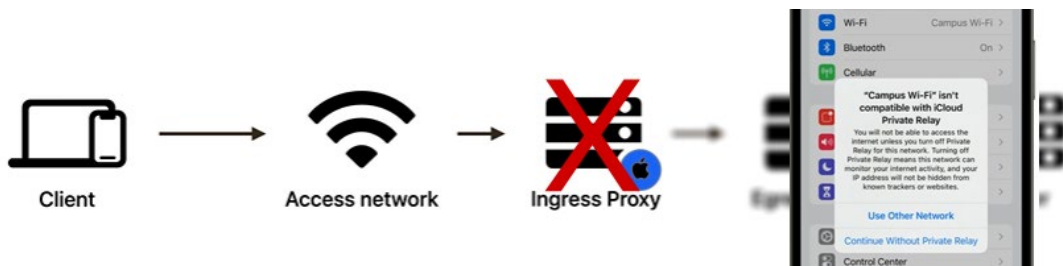
- Apple iCloud Private Relay allows applications on macOS or iOS devices to potentially bypass local network monitoring and the protection that monitoring provides.
  - Web traffic, DNS queries, and potentially other traffic are tunneled via QUIC over port 443 with TLS 1.3. This traffic will typically be opaque to network monitoring.



- Users may be unaware that they're using Private Relay.
  - The service requires a paid [iCloud+ account](#), which many Apple users may already have.
- The feature was recently released in the latest macOS and iOS major version updates as a Public Beta.

Private Relay can be disabled for your network. If you have control over your local DNS, you can force specific domain names to return a negative response for

- mask.icloud.com
- mask-h2.icloud.com



Blocking access to Private Relay may be reflected as a message on an Apple device, leading users to

- inquire about your decision to block it
- potentially seek details about your institution's network traffic monitoring program

We recommend institutions work with their network and security staff to understand how

- Domain name resolution is conducted at their institution
- DNS choices by users can impact user privacy and security
- IT security operations and protections may be impacted
- User support may be impacted
- Reliability, availability, and performance may be impacted

To prepare, we recommend that you

- Review documentation on [iCloud Private Relay](#)
- Review the [REN-ISAC advisory on DNS over HTTPS \(DoH\)](#)
  - DoH has similar issues as iCloud Private Relay
- Determine whether you want to allow or disallow use of iCloud Private Relay at your institution

In addition to the documentation provided by Apple, an [article published by Macworld](#) provides greater detail about the service.