An information leak vulnerability in the iOS version of IKEA

CN App

Brief Description

IKEA CN app is a popular Shopping app. It ranks **No.30 in the "Shopping" category** list on the App Store of China Area (as of 2025-01-16).



The iOS version of the IKEA CN supports opening web pages from external deep link URL (Scheme). Within the built-in WebView, there are **custom interfaces** designed for invocation within web pages. These interfaces are not publicly exposed, but through reverse engineering, we can discover how to invoke them. We found **there lacks a domain name validation** when these interfaces are invoked.

Thus, an attacker can craft **a malicious URL (Scheme)**. When clicked by the victim in a browser or another app, the URL (Scheme) can direct the victim to the IKEA CN app and open a web page controlled by the attacker. The attacker can then invoke privileged interfaces, **obtaining victim's account and device information** (such as UserName, UserID, ClientID).

Vulnerability Exploitation Process and Root Cause

The attacker, lures the user to click on a malicious URL (Scheme) in the following format: **ikea://web?url=https://attack.com/attack.html**. Here, "**attack.com**" represents a domain under the attacker's control.

When the victim clicks on this link, it directs the victim to the IKEA CN app and opens the webpage https://attack.com/attack.html within the app.



Within the webpage, the attacker can then invoke privileged interfaces and perform malicious behaviours such as **obtaining victim's account and device information** (such as UserName, UserID, ClientID).



Part of the code for the callback function defined in JavaScript are shown below:

Impact of the Vulnerability

Scope of the vulnerability: IKEA CN iOS version 4.13.0 (the latest version as of 2025-01-16). **Consequences of the vulnerability**: Information disclosure.

Download Link For Affected Application:

CN:

https://apps.apple.com/cn/app/ikea-%E5%AE%9C%E5%AE%B6%E5%AE%B6%E5%B1%85/id1487448370

Possible Countermeasures

Should implement more strict domain name checks before the invocation of privileged interfaces.