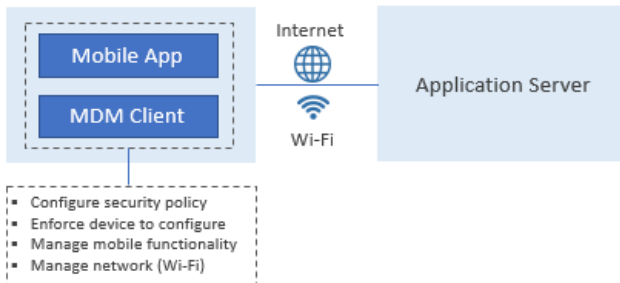


Case Study: Security Assessment of Scanner Mobile App

Client Requirements

Client is a leader in HealthCare solution provider such as medical imaging & IT, medical diagnostics etc. Mobile application security review was carried for an Android application, used by physicians to view the Ultrasound images of patients.

CitiusTech was engaged to perform security review of the android mobile application, installed using a Mobile device management (MDM) over Wi-Fi with different authentication mechanisms.



Solution Schematic

CitiusTech Services:

- CitiusTech Security team performed Security Assessment of the mobile application protected by MDM over the Wi-Fi.
- Created & tested a policy to provide a secure implementation of application on android devices through MDM. Tried to bypass security checks applied by policy.
- Tested the application on different Wi-Fi authentication mechanism and tried bypassing security mechanism within Wi-Fi authentication methods (i.e., WEP, WPA, WPA2 PSK, WPA2 EAP)
- Helped in customizing and testing the Lava android build to fine tune the Wi-Fi Android stack to support the Wi-Fi authentication

Value Delivered:

- Security assessment helped the client to mitigate the weakness in application using MDM features and vice versa.
- Helped the client in developing a strong MDM policy to secure ePHI data.
- Hardening of mobile device with MDM policy & enforcing network configuration with the MDM server & client
- Developed a fully compliant Lava Android build