

PROBEWELL CONNECT SECURITY FACT SHEET

Secure Wireless Communication for Field Testing Equipment



OVERVIEW

Probewell Connect 2.0 enables secure wireless communication between Probewell field testing devices (WT and XT Series testers) and mobile devices through a closed-loop WiFi architecture. This fact sheet outlines the security measures implemented to protect your testing operations and data.

KEY SECURITY FEATURES

1. ENCRYPTED COMMUNICATIONS (HTTPS)

All wireless communications in Probewell systems use HTTPS encryption protocols. This ensures that all data transmitted between your testing device and the Probewell Connect app is encrypted in transit, protecting test results and operational data from interception.

2. CLOSED-LOOP ARCHITECTURE

- **No Internet Dependency:** Probewell Connect operates as a direct point-to-point connection between the tester and mobile device. No internet connection is required and no data is transmitted over public networks.
- **Password-Protected Network:** Each testing device broadcasts a unique SSID (network name) with embedded password protection.
- **Single-User Connection:** Only one user can connect to a testing device at any time, preventing unauthorized concurrent access.

3. SECURE APPLICATION DEVELOPMENT

- **Compliance Standards:** Development follows OWASP (Open Web Application Security Project) standards for mobile application security.

4. FIRMWARE SECURITY

- **Protected Firmware:** Firmware cannot be accessed or copied via WiFi connection. Updates are performed exclusively through wired connection from a computer to the tester.
- **Controlled Access:** Firmware updates are only available through the Probewell Support Portal. Users must create an account that requires approval by a Probewell Support Agent before gaining access to software and firmware update sections.
- **Binary Protection:** Firmware is only available as compiled binary code, providing additional protection against reverse engineering.

5. DATA PRIVACY

- **Minimal Data Collection:** Test reports contain only technical test results and GPS coordinates. No personal user information is stored or transmitted.

NETWORK SECURITY ARCHITECTURE



SECURITY VALIDATION

ISO 27001: 2022 CERTIFIED BY NQA

Probewell maintains ISO 27001 certification, demonstrating our commitment to information security management best practices and systematic approach to managing sensitive company and customer information.

INDEPENDENT PENETRATION TESTING

Probewell's external network infrastructure undergoes comprehensive security testing by a third party. This penetration test followed industry-standard methodologies including:

OSSTMM (Open Source Security Testing Methodology Manual)

OWASP (Open Web Application Security Project)

WASC (Web Application Security Consortium)

REQUIRED PERMISSIONS

The Probewell Connect app requests the following permissions for proper functionality:

WiFi: Required to establish connection with the testing device

Camera*: Used to scan QR codes on testing devices for quick pairing

Location*: Records GPS coordinates of test sites for documentation

File Access: Import/export user profiles, backup, app parameters and test results

All permissions are used exclusively for their stated purposes and no data is shared with third parties.

* Camera and Location permissions are optional

CONTINUOUS SECURITY IMPROVEMENT

- Probewell is committed to ongoing security enhancement:
- Security assessments and penetration testing
- Monitoring of emerging vulnerabilities
- Rapid response to security updates and patches
- Compliance with industry standards and best practices

Last Updated: November 2025: This document provides an overview of security measures for informational purposes. Specific technical implementations may be updated as security best practices evolve.

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