QINETIQ

5G App Testing

QinetiQ 5G Security and Resilience

5G is accelerating the widespread adoption of mobile devices and apps across organisations for business critical operations. This presents an increasingly serious but often overlooked threat vector for cyber-attack. Even well-known mobile apps can hide potentially damaging vulnerabilities that can be exploited to cause an organisation significant harm – for example a vulnerability in WhatsApp was exploited for targeted surveillance attack in 2019.

As 5G increases the volume of data which can be processed by apps, brings about innovative new types of app, and introduces technologies (such as network slicing) that allow apps to dynamically influence the network, this risk is only set to increase. In addition, apps will inevitably be the human-machine interface for the majority of 5G IoT systems. How can an organisation take advantage of the benefits of mobile apps on 5G whilst managing this risk?

Regular and rigorous security testing of mobile apps should now be a critical part of any organisation's overall security strategy. QinetiQ's 5G App Testing brings our unique Mobile App Security Testing service to 5G smartphones and apps. Using our own 5G network (one of the first in the UK), we offer comprehensive testing of mobile apps and devices on 5G, which highlights the potential risks and issues to you and your organisation.

The service covers the leading mobile operating systems, and offers you three types of test reports, on either a one-off or subscription basis:

- **Standard** – Automated and brief, for those of you who can interpret the test results yourself
- **Enhanced** – Standard Report plus interpretation of the test results
- **Custom** – Enhanced Report plus feedback on any other aspects you may want tested.

Key Features and Benefits

Protect your people, assets and organisation
Testing the mobile apps you use helps you to protect your people, assets and organisation from cyber-attacks and data leaks, and reap the benefits of being a mobile-enabled organisation.

Trusted by customers to protect their organisations
Built on our market-leading Mobile App Security Testing (MAST), we were one of the first organisations to offer app security testing and have been doing so for more than two years. Trusted by our customers, we provide confidence that the apps your organisation uses are safe, and your data protected.

Overall Threat Rating
Test reports for each app give an easy to understand overall Threat Rating, allowing you to make informed decisions about which apps to use within your organisation.

Enhanced capabilities tailored to your security needs
Our enhanced and custom report options tailor each app's Threat Rating to your security needs. We have experience of delivering reports for customers with the most demanding security requirements from their apps.

Continual protection
Our subscription based model alerts you when the Threat Rating of your apps has changed, giving you ongoing confidence as apps are updated over time.

Dedicated 5G Testing Network
Our dedicated 5G testing network allows us to identify risks in a safe, trusted, managed 5G environment.

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Our subscription service gives you continuous updates on the apps subscribed for, over the subscription period.

All test reports provide an overall Threat Rating for each app, which provides an indication of the risk the app poses to the user's data. This overall Threat Rating is determined by the following factors which are tested:

- **Malware** − does the app contain any viruses or known malware?
- **Permissions** − does the app require unnecessary permissions to run?
- **Network** − where are the network end points located which the app is talking to?
- **Tracker** − does the app contain any trackers?
- **Functional tests** − what device identifiers does the app read?

The Threat Rating is configured to accurately reflect your specific security concerns prior to the tests commencing. The subscription service automatically monitors and alerts you to any modifications in an app update which change its overall Threat Rating. The service thereby provides continuing confidence in the apps you use as they are updated over time.
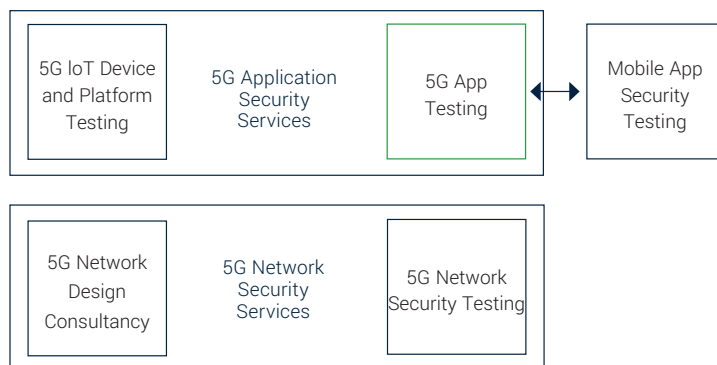
QinetiQ 5G Security and Resilience

This 5G App Testing service forms part of QinetiQ's wider 5G Security and Resilience portfolio, which provides security and assurance of the 5G network, smartphone applications, and IoT through a suite of integrated consultancy and testing services. In particular, customers may wish to combine this service with:

- **5G IoT Device and Platform Testing** − a bespoke IoT security testing service. Combine with 5G App Testing to give a complete application level testing solution for 5G.
- **5G Network Security Testing** − a comprehensive suite of security assurance testing services for 5G networks. Combine with 5G App Testing to give a complete 5G test and assurance solution covering both the network and applications.

5G App Testing forms part of QinetiQ's Mobile App Security Testing service within our wider Cyber and Digital Resilience portfolio, and provides security testing for smartphone apps across a range of technologies.

5G IoT Device and Platform Testing	5G Application Security Services	5G App Testing	↔	Mobile App Security Testing

5G Network Design Consultancy	5G Network Security Services	5G Network Security Testing

Collaborating with QinetiQ

At QinetiQ we bring organisations and people together to provide innovative solutions to real world problems, creating customer advantage.

Working with our partners and customers, we collaborate widely, working in partnership, listening hard and thinking through what customers need. Building trusted partnerships, we are helping customers anticipate and shape future requirements, adding value and future advantage.

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