



## Data Sheet IoTAS

# Interoperability Testing on the Live Network

## At a Glance

IoTAS applies a **holistic approach** to working with **Operators, OEMs and Manufacturers** to **solve device conformity and connectivity issues** and leveraging its relationships with Device Manufacturers, Regulators and Chipset Providers globally.

As a member of the GCF IoTAS **sets the benchmark for mission-critical service testing** which has been adopted widely across the industry.

We complete **interoperability field trial testing** to ensure cellular devices perform correctly on live commercial networks and complete field trial testing on 5G/4G/3G/2G/NB-IoT/CAT-M1 and Mission Critical Networks.

## About

- Incorporated in 2003.
- HQ in Cambridge (UK) and offices in Tokyo (Japan) and Sydney (Australia).
- A **founder member** of the **Global Certification Forum (GCF)** as well as a **Recognised Test Organisation (RTO)** and Assessment Capable Entity (ACE).
- The first company to obtain UKAS 17025 accreditation to the **international standard ISO/IEC 17025:2017 for NB-IoT and CAT M1** against GCF Certification Criteria.
- Members of the British Association of Public Safety Communications Officials (BAPCO).

## References

Telstra, Huawei, Motorola Solutions, Johnson Controls, Google, Bosch, Toshiba, U-blox, Spirefire etc.

## Operator Approval & Certifications

- Operator consultancy support including assistance with product selection.
- Write specifications for testing.
- Pretesting as per operator requirements as well as formal operator testing.
- Gathering, testing and validating device conformity and approval including regulatory approval for new device in the market.

## General Field Testing

- Live network testing to ensure products perform as expected by end users.
- Form a holistic view, able to pinpoint the problem, replicate them and recommend corrective measures.
- Debug and log analysis solutions and reports inline with GCF standards.
- Benchmark testing.
- Drive testing.
- Testing against Global Certification Forum (GCF) requirements and GSMA TS.11, TS.40, TS.42 specifications.

## Specific Services

- We perform Mission Critical testing against the 3GPP TS.11 Annex N Detailed Test Procedures.
- Extensive experience around 2G/3G/4G/5G/VoLTE/VoNR/VoWiFi/Emergency Calls/CAT-M1/ NB-IoT/Roaming.
- Supporting manufacturers and OEMs with detailed log analysis and debugging support.

## Get In Touch:



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# USE CASE



## #1 Mission critical standardised field trial test methods



There has been a lack of **standards for mission critical field testing on live networks** leading to inconsistent and incomplete project specific testing. Therefore, products which might conform to one set of tests may not work across other live networks and bands, potentially leaving first responders without a way to communicate.



As a GCF Registered Test Organisation (RTO) IoTAS has the knowledge and experience to **define and develop the relevant test cases on the live network**. IoTAS are continually reviewing and validating these test cases in a live network focusing on Mission Critical Push To Talk (MCPTT), Mission Critical Data (MCDATA) and Mission Critical Video (MCVIDEO).



These test cases have been **validated on the live network** to ensure all features can be verified via a trace tool and by the device UI. As a result they have all been **reviewed and approved by the GSMA**. IoTAS is continuing to help develop the Mission Critical Field Trial testing use cases in co-ordination with GCF and TCCA.

## #2 CAT M1/NB Metering Carrier Certification Requirements



IoTAS was approached by an operator to **develop an IoT certification scheme for consumer metering**. The Meters from multiple vendors would be deployed throughout the country. The operator wanted to ensure they **met Compatibility and Performance requirements** based on industry and best practise standards.



IoTAS **generated a comprehensive proposal for the operator** to achieve their requirements of assessing suitable meter products covering performance, functionality, reliability, upgradability, power consumption, regulatory requirements assessment, installation recommendations.



IoTAS supplied the operator with a **comprehensive solution for the defined products to be validated against and completed the device assessment and testing**.