GSMA Collaboration on Critical Communications and IoT

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ABOUT THE GSMA

The GSMA was founded in **1987**

12 offices worldwide

UNITING **750+** MOBILE OPERATORS

WITH **350+** MOBILE COMPANIES In the broader mobile ecosystem

The GSMA represents the interests of mobile operators worldwide

The world's leading mobile industry events, Mobile World Congress, Mobile World Congress Shanghai, and Mobile World Congress Americas, together attract

192,000+

people from across the globe each year

8.8+ billion mobile connections worldwide

América Móvil, AT&T, Axiata advancing asia, Bharti, 中国移动 China Mobile, China Unicom 中国联通, T-Mobile, etisalat, KDDI, KT, MTN, NTT docomo, orange, ooredoo, SK telecom, TATA, Telecom Italia, Telefónica, telenor, Telstra, Turk Telekom, verizon, VimpelCom, vodafone

Connecting Everyone and Everything to a Better Future

Scaling the IoT

With 25 billion connected devices by 2025 (GSMAi, 2018), Internet of Things offers an immense growth opportunity for mobile operators and the wider industry.

To fully realise this opportunity, operators must deliver secure IoT networks as well as scalable value added data services for the world's industry and machines beyond connectivity.

Strategic levers to drive scale

COVERAGE of machine friendly, cost effective networks to deliver global & universal benefits

CAPABILITY to capture higher value services beyond connection, at scale

CYBERSECURITY to enable a trusted IoT where security is embedded at every stage of the IoT value chain

Members of the IoT Programme Steering Group:

AT&T, 中国移动 China Mobile, 中国电信 China Telecom, China Unicom 中国联通, T-Mobile, KDDI, kt, MTC, orange, Telefónica, telenor, TURKCELL, vodafone

COVERAGE: OVERVIEW OF MOBILE IoT TODAY

LTE-M

NB-IoT

115

COMMERCIAL LAUNCHES

In 52 Markets

ECOSYSTEM

GSMA MOBILE IoT INNOVATORS

2200+ Members

COMMERCIALLY AVAILABLE

100+ Modules
20+ Developer Kits

INDUSTRY-WIDE SUPPORT

Support for Mobile IoT from **98 MNOs** And **vendors** worldwide

47

IoT Labs

In 21 countries

WHAT IS ‘MISSION CRITICAL COMMUNICATIONS IoT’?

Communications needed to achieve a **specific mission**, for **public safety** purposes and **business-critical** functions, are critical and need a **higher priority over other communications** in the networks, and require some means of **enforcing this priority.**

From a confidentiality, integrity and availability perspective, the **requirements exceed those of other communications**.

IoT from a Critical Communications perspective, applies to **connected objects** that fulfil a **public safety or business critical function**.

CRITICAL COMMUNICATIONS IoT PROJECT

Technical Paper and Feasibility Study

Technical paper analysing key critical communications use cases from the public safety community to derive the technical service quality requirements. These requirements will be used to perform a gap analysis with the 3GPP 5G and LTE service quality definition.

Delivery Date: December 2019

Promotion: CES20 and MWC20

Audience: End Users (Public Safety and Mobile Operators)

Critical IoT Concepts Paper

Document critical communications IoT concepts from an end-user perspective.

Delivery Date: December 2019

Promotion: CES20 and MWC20

Audience: End Users (Public Safety and Mobile Operators)

MOTIVATION

Ensure Public safety community understand how IoT can be leveraged for their own purposes

Assess the completeness of the 3GPP 5G and LTE service quality definition

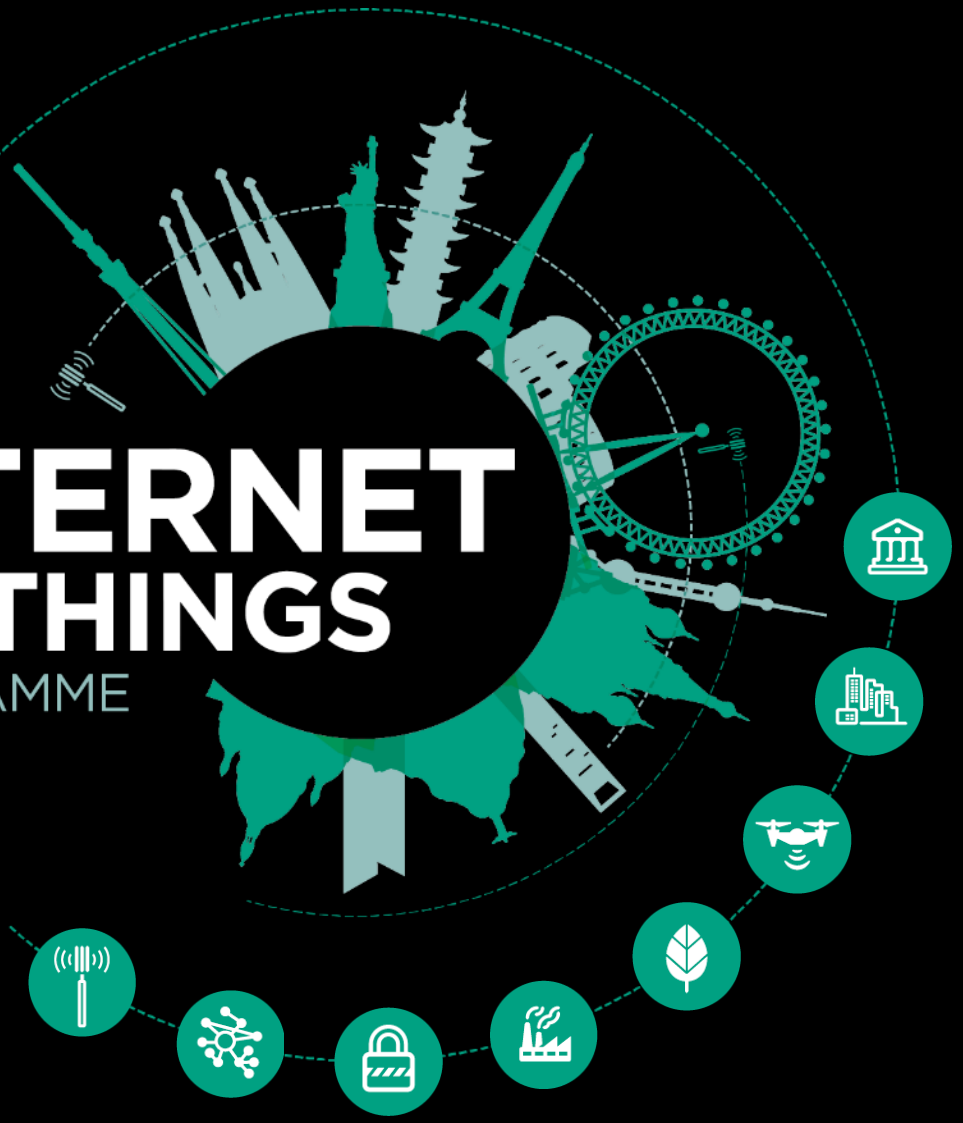
Provide 3GPP with figures for parameters in order to standardise 5G inline with the requirements of the public safety industry

Promote understanding of Mission Critical Communications use cases for IoT among network operator members

KEY USE CASES

GSMA

GSMA INTERNET OF THINGS PROGRAMME



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