



INTERNATIONAL TELECOMMUNICATION UNION

**TELECOMMUNICATION
STANDARDIZATION SECTOR**

STUDY PERIOD 2017-2020

**SG17-LS184
STUDY GROUP 17**

Original: English

Question(s): 6/17

(Ref.: [SG17-TD1929R2](#))

Source: ITU-T Study Group 17

Title: LS on SG17 new work item X.5Gsec-ecs: Security Framework for 5G Edge Computing Services

Purpose: Comment

LIAISON STATEMENT

For action to: -

For comment to: 3GPP SA3, NGMN, ETSI MEC ISG, GSMA, ITU-T SG13, ITU-T SG20

For information to: -

Approval: ITU-T Study Group 17 meeting (Geneva, 22-30 January 2019)

Deadline: 31 August 2019

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ITU-T SG17 thanks 3GPP SA3, NGMN, ETSI MEC ISG, GSMA, ITU-T SG13, ITU-T SG20 for your continuous collaboration with Q6/17.

ITU-T Study Group 17, Security, started a new work item X.5Gsec-ecs on draft ITU-T Recommendation concerning the security framework for 5G edge computing services. Below is the Summary of this new work item:

Summary

The IMT-2020 network will enable a variety of services, including enhanced mobile broadband (eMBB) services, massive machine type communications (mMTC) based services and ultra-reliable low latency communications (URLLC) based services, on an infrastructure of network and computing resources. In line with the key features and the requirements identified in IMT-2020 network, it is required to be a more efficient, personalized, intelligent, reliable and flexible network.

To support the typical services in IMT-2020 network, especially eMBB services and URLLC based services, the edge computing is acknowledged as one of the key technologies for meeting the demanding Key Performance Indicators (KPIs) of IMT-2020 network, especially as far as low latency and bandwidth efficiency are concerned.

Edge computing enables the operator and the third part service provider deploy the services close to the user's access point, thus achieves the high-efficiency service delivery through the reduced end-to-end latency and load on the transport network.

In order to ensure the security of edge computing service deployment and application, the security threats and relevant security requirements specific to edge computing service need to be analyzed and the overall security framework need to be established.

This draft Recommendation aims to analyses the potential deployment scheme and typical application scenarios of edge computing services, specifies the security threats and requirements specific to the edge computing services and thus establishes the security framework for the operator to safeguard its applications.

ITU-T SG17 would like to be informed about your activities related to this draft new Recommendation. Comments and feedback will be more than welcomed.
