



INTERNATIONAL TELECOMMUNICATION UNION

**TELECOMMUNICATION
STANDARDIZATION SECTOR**

STUDY PERIOD 2017-2020

SG15-LS54

STUDY GROUP 15

Original: English

Question(s): 3, 6, 9, 10, 11, 12, 13, 14/15

Geneva, 19-30 June 2017

Ref. SG15-TD29R1/PLEN Annex P

Source: ITU-T Study Group 15

Title: Initiation of work to support IMT-2020/5G in the Transport Network

LIAISON STATEMENT

For action to:

For comment to:

For information to: ITU-T SG13, JCA-IMT2020, CPRI Cooperation, NGMN, MEF, BBF,
IEEE 802.1, IEEE 802.3 & IETF

Approval: ITU-T SG15 (Geneva, 30 June 2017)

Deadline: -

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This liaison statement is to advise you that WP3/15, having responsibility for Optical Transport Networks, has initiated a new work item to produce a Technical Report, GSTR-TN5G, on “Transport network support of IMT-2020/5G”. This Technical Report will describe the high level architecture for a Transport Network to support the requirements of IMT-2020/5G networks with a focus on supporting the radio network specified by 3GPP. This description will include the following:

- A reference model for the IMT-2020/5G transport network (with the terminology clarified)
- A set of deployment scenarios including details on:
 - Transport network topology
 - Interfaces between the IMT-2020/5G entities to the transport network
 - distance between these entities
 - number of interfaces; interface bit rate; total capacity
 - latency requirements
 - synchronization requirements
- Control/Management interfaces
- Support of IMT-2020/5G network slicing (data plane and control plane)

GSTR-TN5G will provide guidance that will allow the other Questions of WP3/15 to work efficiently in the development of new, revised or amended G series Recommendations that will enable the Transport Network to support IMT 2020/5G. It is anticipated that, where necessary, the

corresponding work items will be added to the work programme in February 2018. To advance this work we plan to hold an interim meeting 16-20 October 2017 in Europe.
