## TELECOMMUNICATION STANDARDIZATION SECTOR

**STUDY PERIOD 2013-2016** 

**English only** 

**Original: English** 

**Question(s):** 15/15

LIAISON STATEMENT

**Source:** ITU-T Study Group 15

**Title:** LS on initiation of new work on Smart Home (G.shp6)

## LIAISON STATEMENT

For action to:

For comment to: -

For information to: IETF 6LoWPAN WG

**Approval:** ITU-T SG15 meeting (Geneva, 4 April 2014)

**Deadline:** -

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We would like to inform you that ITU-T Question 15 in Study Group 15 (<u>Communications for Smart Grid</u>) has initiated a new work item: G.shp6, "Smart Home profiles for 6LoWPAN devices."

The scope of G.shp6 is the specification of profiles for IPv6 adaptation layers in Smart Home systems, where embedded devices communicate for the purpose of sensor data collection and equipment control over low-power link technologies by using 6LoWPAN. Components of a Smart Home system may include home appliances, home energy equipment, and various sensor devices within and around home.

Communication devices in such environment are generally embedded systems with very constrained resources, thus it is common to implement a specific sub-set of options for a given protocol. This sub-set of option is called Profile, and the profile specification helps facilitating the implementation of integrated embedded devices that supports multiple low-power links. Applications considered in this work include energy management, healthcare, home security, smart metering, etc., and do not include broadband applications or mobile applications.

A goal of G.shp6 is to develop a Recommendation for a set of 6LoWPAN adaptation layer profiles that supports Smart Home applications. This work does not intend to develop any new adaptation layer protocols. Also, it does not intend to address any new PHY/MAC technologies or new Internet Protocol functions.

Q15/15 will inform you of any further progress of this study and also welcomes any feedback you may have on this study.

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