

TELECOMMUNICATION
STANDARDIZATION SECTOR

TD 177 Rev.1

STUDY PERIOD 2013-2016

English only

Original: English

Question(s): N/A

Geneva, 17- 20 June 2014

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Source: Chairman, workshop on big data in the telecommunications sector**Title:** Outcome of the workshop session on big data in the telecommunications sector**Action required**

TSAG is invited to discuss the document and consider the proposals to ITU-T.

Summary

A workshop on Big Data in the telecommunications sector was held on 17 June 2014 from 16:30 to 19:00 within the TSAG meeting.

The workshop followed a recent [ITU-T Technology Watch report](#) investigating big data, and responded to a call from the last TSB Director's CTO meeting, [urging ITU-T](#) to identify big data's impact on telecom operators, especially in terms of new services and applications.

The workshop heard speakers from operators, equipment manufacturers, service providers, research institutes and academia - representative of the collaboration required to develop effective big data standards for the telecommunications sector. The session reviewed recent developments and considered the best approach for ITU-T to take into account big data.

Programme, biographies and presentation material are posted at <http://www.itu.int/en/ITU-T/Workshops-and-Seminars/bigdata/>.

Concrete proposals for consideration of ITU-T included:

- Telecommunication is an infrastructure for dealing with big data and itself is operating in a big data environment;
- Build a standards landscape for big data in the telecommunications sector and in related industries;
- Carry out feasibility studies on big data standardization in each ITU-T study group;
- Identify and prioritize technical areas related to big data in the telecommunications sector which would benefit from standardization. The workshop discussed:
 - o Definition, architecture, data model and APIs;
 - o Network-driven data analytics;
 - o Personalized network experience;

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- Security and data protection, anonymization and de-identification of personal data;
 - Framework for data quality and veracity;
 - Standards and guidelines to address issues surrounding legal implications of big data in the telecommunications sector (such as data ownership);
- Develop a roadmap for big data standardization in ITU-T;
 - Establish collaboration with ISO/IEC JTC 1 Study Group on Big Data (SGBD) and other related SDOs, industry organizations and other interested parties, such as the European Broadcasting Union (EBU).
 - Initiate an open international dialogue on data brokerage discussing, *inter alia*, data ownership, the roles and responsibilities of data custodians, access rights, in collaboration with the other ITU sectors and other relevant stakeholders.
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