

---

**WORKING GROUP OF THE PLENARY**

**Document DT/31-E**  
**28 October 2014**  
**Original: English**

**WORKING GROUP OF THE PLENARY**

DRAFT NEW RESOLUTION [WG-PL/XX] (BUSAN, 2014)

FACILITATING INTERNET OF THINGS (IOT) TO PREPARE FOR A GLOBALLY  
CONNECTED WORLD

**ADD**      **WGPL/31/1**

**DRAFT NEW RESOLUTION [WG-PL/XX]**

**Facilitating Internet of Things (IoT) to prepare for  
a Globally Connected World**

The Plenipotentiary Conference of the International Telecommunication Union (Busan, 2014),

*considering*

- a)* that a globally connected “Internet of Things (IoT)” world will be built on the connectivity and functionality made possible by telecommunication networks;
- b)* that the global connected world also requires considerable enhancement of transmission speed, device connectivity and energy efficiency to accommodate the significant amounts of data among a plethora of devices;
- c)* that the rapid development of related technology could cause the globally connected world to be realized faster than expected;
- d)* that the IoT has been expected to play fundamental role in the fields of energy, transportation, health, agriculture, disaster management, public safety, and home networks and could benefit developing countries as well as developed countries;
- e)* that the impact of the IoT will be more pervasive and far-reaching thanks to the wide-range of applications in Information and Communication Technology (ICT) sectors and non-ICT sectors;
- f)* that considering the limited financial and human resources in developing countries, special attention should be given to developing countries,

*recognizing*

- a)* that studies on the IoT are being carried out in the telecommunication standardization sector to develop recommendations, such as the Joint Coordination Activity on IoT, the Global Standards Initiative on the IoT, the Focus Group on M2M (Machine-to-Machine), and ITU-T Study Groups in accordance with their respective scope and mandate of activities;
- b)* that as Radio-frequency identification (RFID) and Ubiquitous Sensor Network (USN) facilitated the advent of the IoT, the IoT will in turn play an important part as a catalyst for other related technologies currently studied by the Union;
- c)* that the implementation of Internet Protocol version six (IPv6) may contribute to the future development of IoT;
- d)* that cooperation between all relevant organizations and communities to raise greater awareness and to promote the adoption of IPv6 within Member States and through capacity building within the mandate of the Union is desired,

*bearing in mind*

- a) that interoperability is required to develop services derived by the IoT (hereinafter 'IoT services') at the global level, to the extent practicable with mutual collaboration among relevant organizations and entities including other Standards Development Organizations(SDOs) involved in developing and using open standards to the extent practicable;
- b) that industry fora are developing technical specification of the IoT;
- c) that the application of IoT is expected to encompass all sectors including but not limited to energy, transportation, health, agriculture, etc.;
- d) that the IoT related activities will encourage the participation of all relevant organizations or entities around the world to promote the early establishment and expansion of the IoT;
- e) that the globally connected world through the IoT could also contribute to achieving the goals of the Post-2015 Development Agenda;
- f) that the IoT could redefine the relationship between people and devices,

*resolves*

to promote investment in and development of IoT to achieve the objectives mentioned in *considering* d) and e) above,

*instructs the Secretary-General in consultation with and collaboration of the Directors of the three Bureaux*

- 1 to coordinate the activities of the Union to implement the Resolution;
- 2 to facilitate the exchange of experiences and information with all relevant organizations and entities involved in the IoT and IoT services with the aim of creating opportunities for cooperative efforts to support the deployment of the IoT;
- 3 to submit an annual report on the results of implementation of this Resolution to the Council sessions in 2015-2018;
- 4 to submit a report to the next Plenipotentiary Conference in 2018,

*instructs the Director of the Telecommunication Standardization Bureau*

- 1 to continue relevant ITU-T Study Groups on enabling the IoT as a basic enabler capable of facilitating the emergence of diverse services in the globally connected world in collaboration with relevant sectors;
- 2 to continue cooperation with relevant organizations including SDOs for exchanging best practices and disseminating information to increase interoperability of IoT services through joint workshops, training sessions, joint coordination activity groups and any other appropriate means,

*instructs the Director of the Telecommunication Development Bureau*

to encourage and assist those countries which need support in adopting the IoT and IoT services by providing relevant information, capacity building, and best practices to enable the adoption of the IoT through seminars, workshops, etc.,

*instructs the Council*

1 to consider the reports of the Secretary General on the activities referred to *in instructs the Secretary-General 4* above and take necessary measures so as to contribute to the achievement of the objectives of this Resolution;

2 to report to the next plenipotentiary conference on the progress made with respect to this resolution based on the report of the Secretary General,

*invites Member States, Sector Members, Associates and Academia*

1 to consider developing best practices to enhance the development of the IoT,

2 to participate actively in IoT-related studies in the Union through contributions and by other appropriate means.

---