## International Telecommunication Union

Telecommunication Standardization Bureau

#### Radiocommunication Bureau



Geneva, 1 February 2011

Ref: TSB Circular 161 Ref: BR Circular CA/195

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- To ITU-T and ITU-R Academia

Subject: ITU Forum on Technical Compatibility between Power Line Telecommunication systems (PLT) and Radiocommunication Services, Geneva, 27 May 2011

Dear Sir/Madam,

We would like to inform you that an ITU Forum on "**Technical Compatibility between Power Line Telecommunication systems (PLT) and Radiocommunication Services**" will take place at ITU headquarters, Geneva, on 27 May 2011.

The forum will open at 0900 hours on 27 May 2011 and is organized in conjunction with the ITU-R Study Group 1 block of meetings from 25 May to 3 June 2011. Detailed information concerning the meeting rooms will be displayed on screens at the entrances to ITU headquarters. **Registration will open at 0800 hours at the Montbrillant entrance.** 

2 Discussions will be held in English only.

Telephone

Telefax

- Participation is open to ITU Member States, Sector Members, Associates and Academia and to any individual from a country which is a member of ITU who wishes to share information about the standardization activities on this subject. This includes individuals who are also members of international, regional and national organizations. The forum is free of charge but no fellowships will be granted.
- The objectives of this forum and a preliminary programme can be found in **Annex 1**.

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Information relating to the forum and updated programme will be available on the ITU-R and ITU-T websites and at the following address: http://www.itu.int/ITU-R/go/itu-plt-forum-11/en.

#### Participation/visa requirements

- Participant registration for this forum will be carried out via the online registration system (EDRS) and will begin on 15 March 2011. The related registration form may be found on the meeting website at: http://www.itu.int/ITU-R/go/delegate-reg-activ/en.
- We would remind you that citizens from some countries are required to obtain a visa in order to enter and spend time in Switzerland. The visa must be requested and obtained from the office (embassy or consulate) representing Switzerland in your country or, if there is no such office in your country, from the one that is closest to the country of departure. If problems are encountered, the Union can, at the official request of the Member State or Sector Member, approach the competent Swiss authorities in order to facilitate delivery of the visa.

Visa requests should be made via an official covering letter from the Member State or Sector Member you represent. This letter must specify your name and function, date of birth, passport number as well as the date of issuance and expiration. The letter must be accompanied by a photocopy of your passport and completed registration and must be sent by fax to the ITU-R Document Planning and Documentation Unit. The fax number is +41 22 730 6600. Please note that the Union needs at least four weeks to process all papers required for the delivery of a visa.

- 8 For queries or additional information, participants may contact the Delegate Registration Unit at <a href="mailto:ITU-R.registrations@itu.int">ITU-R.registrations@itu.int</a>.
- 9 The Registration desk will open as from 0800 hours on the opening day of the forum and is located at the entrance of the Montbrillant building. Please note that the confirmation of registration sent to each participant by e-mail must be presented, together with photo identification, in order to receive a badge.

#### Accommodation

Information regarding hotel accommodation for meetings held in Geneva is available at <a href="http://www.itu.int/travel/index.html">http://www.itu.int/travel/index.html</a>.

Yours faithfully,

Malcolm Johnson

Director,
Telecommunication Standardization Bureau

François Rancy
Director,
Radiocommunication Bureau

Annex: 1

#### ANNEX 1 (to TSB Circular 161 – BR Circular CA/195)

# Objectives of the ITU Forum on Technical Compatibility between Power Line Telecommunication systems and Radiocommunication services

### Let's get compatible

Today's homes are packed with communication devices. Consumers can choose from various possibilities to get access to the Internet and/or to enjoy TV and radio in steadily improving digital quality. Various transmission technologies are offered to provide content to home terminals.

Free-to-air digital broadcasting is and will continue to be a future-oriented approach on how to satisfy the needs of consumers. Power Line Telecommunications is another future-oriented technology providing broadband access via the main networks to consumers' homes or to distribute and collect huge amounts of data inside the homes to and from the various terminals or radios and TV sets.

The most recent technology developments show that consumers may however end up in an "either/or situation": <u>Either</u> they use PLT <u>or</u> they enjoy reception of free-to-air broadcasting. Both together seem to be technically incompatible at the same time and same location. And there are also radiocommunication services other than broadcasting that are technically impacted by PLT.

The objective of this one-day event is to discuss the potential interference effects of PLT technology into the radio frequency spectrum in light of the latest technological PLT developments that touch the radio spectrum up to the frequency ranges used in homes for broadcasting reception. Mitigation techniques need to be developed and standardization efforts are necessary to overcome these technical challenges.

The International Telecommunication Union (ITU) is the perfect body to address the issue with all the stakeholders. As such, and on the one hand, ITU develops standards for home networks using PLT on a world-wide basis; and on the other hand, it is the leading international organization on regulatory and technical radio spectrum issues.

This one-day event organized by ITU will:

- bring together major stakeholders;
- give an overview of technologies providing PLT;
- describe the role of ITU and regulators in protecting the radio frequency spectrum;
- provide an overview of radiocommunication services potentially impacted by PLT systems;
- explain current standardization efforts for PLT systems;
- present case studies of radio frequency emissions from PLT systems;
- discuss possible mitigation techniques to protect radio services.

It will end in a round-table discussion on commitments and future efforts of all stakeholders to resolve these interference issues in the interest of consumers.

# Preliminary programme of the ITU Forum on Technical Compatibility between Power Line Telecommunication systems and Radiocommunication services

| 27 May 2011   |  |
|---|--|
| 08:00 - 09:00   | Registration   |
| 09:00 - 09:25   | Opening Session  Chairman: Mr. Robin H. Haines, Chairman of ITU-R Study Group 1  Opening Addresses  Mr. François Rancy, Director, ITU BR  Mr. Malcolm Johnson, Director, ITU TSB   |
| 09:25 - 11:15   | Session 1: Overview of PLT developments & standardisation activities with respect to radio compatibility <u>Chairman</u> : Mr. Tom Starr, Chairman of ITU-T Working Party 1/15   |
| <ul> <li>09:30 - 09:40</li> <li>09:40 - 09:55</li> <li>09:55 - 10:10</li> <li>10:10 - 10:25</li> <li>10:25 - 10:40</li> <li>10:40 - 10:55</li> <li>10:55 - 11:15</li> </ul> | <ul> <li>PLT Standardization landscape: Mr. Stefano Galli</li> <li>The IEEE approach: Mr. Jean-Philippe Faure</li> <li>The HomePlug approach: Mr. Michael Koch</li> <li>The IEC approach: Mr. Martin Wright</li> <li>The ITU-T approach: Mr. Les Brown</li> <li>The HomeGrid approach: Mr. Matt Theall</li> <li>Summary discussion on approaches</li> </ul>  |
| 11:15 - 11:30   | Coffee break   |
| 11:30 - 12:30<br>11:30 - 11:45<br>11:45 - 12:00<br>12:00 - 12:15<br>12:15 - 12:30   | <ul> <li>Session 2: Impacts of PLT on radiocommunication services         Chairman: Mr. Raphael de Souza, Chairman of ITU-R Working Party 1A     </li> <li>ITU-R deliverables and working documents: Mr. Reiner Liebler, ITU-R Working Party 1A Rapporteur on PLT issues</li> <li>Case Study – PLT impacts on aeronautical services: Mr. John Mettrop, Chairman of ITU-R Working Party 5B</li> <li>Case Study – PLT impacts on broadcasting services: Mr. Charles Einolf, Representative of ITU-R Study Group 6/Working Party 6A</li> <li>Case Study – PLT impacts on radio astronomy: Mr. Masatoshi Ohishi, Representative of ITU-R Study Group 7/Working Party 7D</li> </ul> |
| 12:30 - 14:30   | Lunch break  |

| 14:30 - 15:30   | Session 3: Let's get compatible  |
|---|--|
|   | <u>Chairman</u> : Mr. Hamed Zeddam, Chairman of ITU-T Study Group 5  |
| <ul> <li>14:30 – 14:50</li> <li>14:50 – 15:10</li> <li>15:10 – 15:30</li> </ul> | <ul> <li>What can regulators do? Mr. Reiner Liebler, Federal Network Agency, Germany</li> <li>What should PLT stakeholders do? ATIS/NIST</li> <li>What should radiocommunication stakeholders do? Mr. Peter Chadwick, IARU Technical Consultant</li> </ul>   |
| 15:30 - 15:45   | Coffee break   |
| 15:45 - 16:30   | Final Session: Panel Discussion – Next steps to be taken   |
|   | <u>Chairman</u> : Mr. Robin H. Haines, Chairman of ITU-R Study Group 1   |
|   | <u>Panel members</u> : HomeGrid Forum (Mr. Matt Theall), IEEE (*), HomePlug Powerline Alliance (*), IEC (*), National Regulator (Mr. Raphael de Souza), ITU-R Study Group 5 (Mr. John Mettrop), ITU-R Study Group 6 (Mr. Christoph Dosch, Chairman), ITU-R Study Group 7 (Mr. Masatoshi Ohishi), ITU TSB (Mr. Bilel Jamoussi), ITU BR (Mr. Fabio Leite). |
|   | * name of the representative to be confirmed   |

For updated forum programme and for further information, please check the forum webpage at: <a href="http://www.itu.int/ITU-R/go/itu-plt-forum-11/en">http://www.itu.int/ITU-R/go/itu-plt-forum-11/en</a>.