

Chairman, ITU-R Study Group 5

COLLABORATION WITH ITU-T STUDY GROUPS IN RELATION TO THEIR STUDIES INVOLVING RADIOCOMMUNICATION SERVICES

1 Background

At its December 2009 meeting, ITU-R Study Group 5 sent the following two liaison statements based on the proposals from its subordinate Working Parties:

- one addressed to ITU-T Study Group 15 in relation to newly adopted Recommendation ITU-T G.9960, entitled “Unified high-speed wire-line based home networking transceivers – Foundation” in Temporary Document TD106 (PLEN/15);
- the other addressed to ITU-T Study Group 5 in relation to the studies on Question 16/5 “EMC requirements for the Information Society” under which the Recommendations *K.ant* or *K.deg* are being developed.

Note: *K.ant* (Isolation requirements for mobile base station antennas when co-located with other telecommunication systems).

K.deg (Mutual-disturbance test requirements for performance degradation evaluation of converged terminal devices).

This document discusses possible follow-up actions for the above two issues for consideration by the RAG meeting in February 2010.

Also, this document is intended to be considered by the TSAG meeting in February 2010 for its advice or views to be conveyed to the subsequent RAG meeting.

2 Issue 1

The content of this liaison (TD 289 (WP1)) expressed:

- a request for ensuring compatibility between radiocommunication services and unwanted emissions of power line transmission (PLT) systems with extended range of the sub-carriers up to 200 MHz;
- concern with interference from such systems, in particular, to those supporting safety of life applications;

- an intention to contribute to future revisions of Recommendation ITU-T G.9960 through the liaison work between the relevant Working Parties.

It should be noted that ITU-R Study Groups have experienced a similar situation when the studies under Question 2/5 “EMC related to broadband access systems (2001-2004)” were conducted. Based on the initial communication with ITU-T Study Group 5, ITU-R Study Group 1 (Working Party 1A) made extensive efforts to analyze and protect from the interference caused by PLT systems under close cooperation with many other ITU-R Study Groups. In 2009, the efforts resulted in the approval of Report ITU-R SM.2158 “Impact of PLT systems operating in the LF, MF, HF and VHF bands below 80 MHz”.

We also note that it took more than several years to establish the above Report as well as that Working Party 1A received a large number of technical contributions on this issue over the three study periods as shown in Annex 1.

At this time, ITU-R Study Groups need to address potential problems stemming from the extension of the frequency range of PLT systems as specified in Recommendation ITU-T G.9960. In the light of past experience, such work within the ITU-R could be coordinated by Study Group 1.

3 Issue 2

The content of this liaison TD 380 (GEN/5) included:

- the current status and the past achievement of the studies within ITU-R Study Group 5, which may cover the scope of the new Recommendations ITU-T *K.ant* or *K.deg*;
- ITU-R Study Group 5’s view in order to avoid duplication of the studies between the two Sectors in relation to such issues involving radiocommunication equipment;

We believe that this issue is being solved through the above liaison statement including prior actions taken by the relevant Working Parties. However, for confirmation, certain actions may additionally be required through advice from the Radiocommunication Advisory Group.

4 Proposals

To properly address the issues in sections 2 and 3, the Chairman of ITU-R Study Group 5 wishes to suggest that the following actions be taken by the RAG:

(For Issue 1)

- to recommend the ITU-R membership to submit contributions on any impact of Recommendation ITU-T G.9960 directly to Study Group 1 (Working Party 1A) in order to carry out necessary studies towards a revision of Report ITU-R SM.2158 or development of a new Report;
- to recommend that Study Group 1 appoint Working Party 1A as the focal point within ITU-R for the liaison activities on this topic to ITU-T Study Group 15 (Working Party 1/15) with a view to possible review of Recommendation ITU-T G.9960;
- to allow, however, other concerned Study Groups/Working Parties to send an advanced copy of a liaison directly to ITU-T Study Group 15 (Working Party 1/15), if it is urgently required, depending on the meeting schedules of the concerned Study Groups/Working Parties in the both Sectors.

(For Issue 2)

- to confirm that, in accordance with *Principle 5* in Resolution ITU-R 6-1, any spectrum sharing or interference matters involving more than one radiocommunication system should be solely studied by relevant Study Groups/Working Parties of the Radiocommunication Sector;

(For both Issues 1 and 2)

- to send a letter to the TSAG which would convey:

- the essence of the agreed results of the above Issues 1 and 2;
- encouragement for early and appropriate communications as well as efficient collaboration, in any future occasions similar to these cases, between the relevant Study Groups in the ITU-T and the ITU-R in accordance with the principles stipulated in Resolutions ITU-T 18 and ITU-R 6-1.

Annex: 1

Annex 1

Information on the PLT-related contributions

PLT-related documents received by Working Party 1A (2007-2009)

	Document 1A/
Inputs from the Membership	31 (D), 32-33 (B), 34-36 (NABA), 38 (CG-PLT), 43 (CBS), 53-54 (J), 55 (G), 57 (IARU), 90 (WBU), 94 (ABU), 95 (IARU), 96-100 (NABA), 102 (WBU), 103 (NABA), 105 (KOR), 111 (JAXA), 115-117 (J), 124-125 (BBC), 129 (CG-PLT), 158 (CG-PLT), 159 (D), 161 (CG-PLT), 167-168 (NABA), 170 (NABA), 171 (IUCAF), 172 (JAXA), 174 (IUCAF), 176-177 (NABA), 178-179 (CBS), 181 (CBS), 182 (IUCAF), 184-186 (USA), 187 (B), 194 (EBU), 195 (BBC), 196 (J), 197 (CBS), 198 (J),
Inputs from other groups	16 (WP7B), 17 (WP7C), 45 (WP6A), 58 (SG6), 77 (WP5C), 131 (WP7D), 142 (WP6A), 148 (WP5C), 200 (WP7D),
Output	Document 1/66 DRAFT NEW REPORT ITU-R SM.[PLT] Impact of power line telecommunication systems on radio-communication systems operating in the LF, MF, HF and VHF bands below 80 MHz

PLT-related documents received by Working Party 1A (2003-2007)

	Document 1A/
Inputs from the Membership	10 (IARU), 11 (USA), 20-22 (F), 84 (B), 117-118 (NABA), 119 (B), 120 (CBS), 122 (USA), 123 (EBU), 125 (USA), 127 (USA), 143 (CG-PLT), 149 (B), 153 (NABA), 154 (J), 155 (NABA)
Inputs from other groups	4 (WP6E), 27 (WP3L), 33 (WP8B), 35 (WP9C), 55 (WP9C), 57 (WP7D), 59 (WP7A), 65 (WP3L), 67 (WP6E), 68 (WP7D), 70 (WP6E), 73 (WP9C), 98 (WP6E), 99 (WP7A)
Preliminary output	Annex 6 to Document 1A/163 (WP 1A Chairman's Report) Working document towards a preliminary draft new Report - Impact of power line telecommunications systems on radio-communication systems operating in the LF, MF, HF and VHF bands below 80 MHz

PLT-related documents received by Working Party 1A (2000-2003)

	Document 1A/
Inputs from the Membership	17 (F), 102 (F)
Inputs from other groups	31 (ITU-T SG5), 70 (ITU-T SG5), 78 (WP6E), 118 (WP6E), 144 (WP6E)
Preliminary output	Annex 12 to Document 1A/126 (WP 1A Chairman's Report) Characteristics of cable transmission systems