

Source: Chairman ITU-T SSG

Title: Toward Harmonized Requirements for MobileIP

Agenda: 15

Document for:

Decision	X
Discussion	
Information	

1 Introduction

The ITU-T SSG has been addressing a number of aspects related to harmonization of access independent all-IP core networks. Our time focus is beyond the current releases being worked by 3GPP and 3GPP2, but not as far in the future as the ITU-T and ITU-R vision activities which are looking at the shape of mobile telecommunications circa 2010.

2 Recent Results

The SSG held a Joint Rapporteurs meeting of Q.2/SSG (Mobility Management Protocol) and Q.6/SSG (Harmonization) 9-13 September 2002 in Seoul, Korea. In this meeting, we looked carefully at MobileIP and came to the following conclusion (quoting from the meeting report in TD SEO-028r1 available at <http://ties.itu.int/u/imt2000/imt2000/wp3/q6/0209seoul/TDs/> to TIES registered users):

- “MobileIP (MIPv4/v6) appears to be the appropriate protocol to support global roaming and service interoperability within and across IMT-2000 systems”; Q.2/SSG work should focus on verifying this assertion and on identifying enhancements to MobileIP and associated protocols that may need to be developed in collaboration with the appropriate bodies to fulfill these needs”

This meeting also advanced the draft Q.6/SSG output document (TD SEO-027, also available at the above URL) with a focus on access-independent IP core-network harmonization. Anticipated progress during the next SSG meeting scheduled for 4-8 November 2002 should make this document ready for approval during the first half of 2003.

3 Collaboration

Please note from the statement above that it addresses IMT-2000 systems collectively. Please further note the emphasis on collaboration with appropriate bodies. Our aim is to add value to the IMT-2000 Family of systems through acting as a catalyst in the evolution towards a common approach to mobility management as a key aspect of harmonization.

As indicated in the above meeting report extract, we presently see MobileIP as the mobility management protocol of choice going forward. We wish to act as the global centre for building consensus on the harmonization of requirements for extensions and enhancements to MobileIP in the context of consistency across all IMT-2000 Family members. This work clearly falls within the mandate given to the ITU-T SSG at WTSA-2000 in Resolution 2 (<http://www.itu.int/ITU-T/wtsa/resolution-2.html>) by the global community. There is also a clear indication in the SSG's mandate that it should work effectively and efficiently with organizations external to the ITU. Hence our cooperation and collaboration with the 3GPPs, among others. In the same vein, we recognize the expertise of the various fora involved in this work, including the IETF, and it is our intent to make good use of their work in progressing this topic. Duplication of effort is in no one's interest, and neither is divergence through needlessly different requirements leading to difficulties in global roaming and service interoperability.

4 Request to PCG

In order to effectively and efficiently contribute to progress in this area, we consider it very important that we establish appropriate working level arrangements. During the above referenced Joint Rapporteurs meeting, 3GPP TSG-SA2 and TSG-CN1 were identified as relevant TSGs for this topic.

We request that the 3GPP PCG remand this above reported assertion and related information about the results of the Joint Rapporteurs meeting to SA2 and CN1 for their review. We would be pleased to work closely with SA2 and CN1 (and other TSGs or sub-groups as appropriate) as the work on MobileIP progresses. We recognize the detailed technical expertise of the groups within 3GPP, and wish to make it clear that our intent is to work at the requirements level, acting as a catalyst in addressing the requirements with the aim of attaining a globally common approach leading to global solution supporting global roaming and service interoperability. We further request that the PCG ask SA2 and CN1 to inform the SSG about their current work relevant to MobileIP requirements, and to keep the SSG up to date on such work on a regular and ongoing basis, in support of the global harmonization effort described. Mr Farrokh Khatibi (Qualcomm, USA) indicated that he would be prepared to facilitate building such a collaborative relationship with 3GPP SA2.

In turn, the SSG will be pleased to regularly update SA2 and CN1, as well as the PCG, on the progress of this effort.

Please do not hesitate to contact myself, either of the Rapporteurs for Q.2/SSG and Q.6/SSG, or Mr. Khatibi. Contact details are provided below.

(Signature provided in original document)

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