3GPP TSG-SA WG1 #37bis **S1-070180**
Sophia Antipolis, France, 30th July - 3rd August 2007 **Agenda Item: 5.7**

Title: Proposal regarding IMS requirements from groups other than TISPAN

Source: Sprint

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Introduction

3GPP is currently embarking on implementing changes on how it develops IMS, consolidating development of requirements from various constituent groups (TISPAN, 3GPP2, CableLabs, ATIS, WiMAX Forum, etc.) to produce a single common IMS applicable to networks adhering to the specifications from these groups.

The first step of consolidating requirements is in process:

1. Accomplished
    a. Agreement to consolidate IMS requirements within 3GPP (ad hoc committee recommendations endorsed by PCG)
    b. Change to TSG-SA Terms of Reference
2. In process
    a. Change to SA 1 Terms of Reference
    b. Identification and transfer of appropriate work and specifications from TISPAN to SA 1

With these initial and high level steps accomplished or in process, the next levels of detail and consideration are needed to ensure ongoing, efficient flow of requirements between the constituent groups and 3GPP SA 1 and within 3GPP SA 1 itself – how will ongoing requirements be brought into SA 1 and considered, with the results returning to the constituent group(s) and SA 2 for architectural development.

It is clear that there are several guiding goals which should be adhered to in defining the flow of Common IMS requirements and how SA 1 will integrate these new ongoing requirements into its operations:

1) Reuse as much of existing SA 1 practices and procedures as possible;

2) Develop as much of a common approach for all the constituent groups as possible, recognizing some variations based on the group's organizational specific situation

So the issues considered to be important for this next layer of detail discussed here are:

a) Ongoing requirements flow between IMS constituent groups and SA 1

b) Completed requirements flow from SA 1 to IMS constituent groups and SA 2

c) SA 1 organizational adjustment to account for IMS constituent group service requirement modification/development in SA 1

Note: Constituent Group X used in this document refers to a generic instance of other IMS constituent groups such as TISPAN, 3GPP2, WiMAX Forum, CableLabs, etc.

Ongoing requirements flow between Constituent Groups and SA 1

The following diagram highlights the logical flows which are implied by the IMS consolidation and need to be addressed in an ongoing fashion.

To clarify each of the flows:

A. Requirements within each of the Constituent Group X which clearly does not have an IMS impact. The stage 1 and stage 2 development can be contained completely in the existing development flow of Constituent Group X.
B. Initial requirements developed in Constituent Group X which may have IMS impacts and Constituent Group X technology impact. This could be in the form of a specification produced by Constituent Group X.
C. Requirements introduced into 3GPP following the current practice (WID, TR, TS, etc.) by IM with material involvement in Constituent Group X. The requirements will have IMS impact and may have Constituent Group X technology impact.
D. SA 1 projects which has component requirements from Constituent Group X wh

E. The final results of requirements development in 3GPP SA 1 by the sub-group focused on the requirements of Constituent Group X to merge into the SA 1 work stream as current project practice.
F. The return and use of the completed requirements for the development of Constituent Group X technology architecture
G. The use of the completed requirements by 3GPP SA 2 for architecture and 3GPP technology architecture development.

It is further expected that flow B would only occur once and the resulting requirements produced in flow F & G would be adopted. It is also assumed that the flow of documents would be through reference or IM submissions rather than through liaison exchanges.

SA 1 organizational adjustments

Primary scenarios

Within SA 1, it is likely that the unique requirements represented by Constituent Group X is a small, medium or large portion of any project.

Small – where the Constituent Group X specific requirements are a small portion of the overall SA 1 project

Medium – where the Constituent Group X specific requirements are a moderate portion of the overall SA 1 project, enough to suggest breakout sessions on the Constituent Group X requirements

Large – where the Constituent Group X specific requirements are a significant or entire portion of the SA 1 project. Breakout sessions to develop the specifications as is the current SA 1 practice by IM with material involvement in Constituent Group X technologies.

Permanent sub-working groups

SA 1 is likely to have a call frequently enough for breakout sessions dealing with Constituent Group X specific requirements with IM participants with Constituent Group X technology material involvement to warrant creating permanent sub-working groups (or some other appropriate group label). This permanent group would contend for breakout session slots on an as needed basis similar to scheduling regular SA 1 projects.

Concurrent with this approach, a permanent sub-group lead (more than rappateur, not quite a chair of the group should also be assigned, preferably representing an operator with material interest in the Constituent Group X technology. In all other respects, the sub-group would operate as others currently do in SA 1.

Additional areas of possible further refinement

Based on the approach described above, there are still further areas to decide on an approach to integrate Constituent Group X requirements for Common IMS into SA 1 work flow:

Document structure

Constituent Group X's IMS requirements incorporated into SA 1 specifications where the impact is small to medium will need some guidance. They may need to be specifically identified or contained in a Constituent Group X specific section.

Constituent Group X initial requirements specification

If Constituent Group X produces an initial requirements specification introduced into SA 1, mechanisms to reference the specification, modify and maintain the resulting document will need to be addressed. Options include: replace or deprecate original specification; modify the original requirements in Constituent Group X structure and only maintain a reference within 3GPP. The requirements specification coordination or alignment will need further planning.

SA 1 projects with small or no requirements impact by Constituent Group X

For SA 1 projects where the requirements considerations are small or non-existent, there is a need not to have to have the project reviewed by the Constituent Group X permanent sub-group and create an additional bottleneck or delay in the completion of SA 1's work. Yet there may be a need to address the applicable Constituent Group X specific requirements in the context of a SA 1 project.

Coordination between Constituent Group X and SA 1

The need for coordination and alignment beyond the typical liaison exchange may be needed depending on the volume and method of introducing requirements for development (e.g. Constituent Group X initial requirements specification).

Recommendation

Adopt the work flow as a guiding principle as a next step to the IMS requirement consolidation implementation detail; adopt the SA 1 organizational adjustments; proceed to further clarify the changes required identified in this document and raised in SA 1 discussion.