
3GPP TSG-SA WG2 Meeting #42.
Sophia Antipolis, France. October 11-15, 2004.

Tdoc S2-043416

Title: LS on proposed work split 3GPP/3GPP2/OMA on Presence
Response to: LS S2-043021(OMA-PAG-2004-0328R02) proposing work split 3GPP/3GPP2/OMA on Presence

Source: 3GPP TSG_SA WG2
To: OMA PAG
Cc: 3GPP TSG_CN WG 1, 3GPP TSG_T WG 2, 3GPP TSG_SA, 3GPP TSG_CN

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Attachments: S2-043021(OMA-PAG-2004-0328R02)

1. Overall Description:

3GPP SA2 would like to thank OMA PAG for their liaison proposing a work split between 3GPP/3GPP2/OMA on Presence. 3GPP SA2 has discussed the liaison and would like to answer to the aspects, which are related to SA2's responsibility and mandate.

3GPP SA2 has specified the architecture for the 3GPP Presence service in TS 23.141, which was approved in September 2002. The architecture is based on the service requirements in 3GPP TS 22.141. 3GPP SA2 intends to keep the responsibility for TS 23.141 with the current scope, which seems to be in line with the work split described in received LS. This means that SA2 intends to maintain this specification and handle CRs that may be needed in the future to have a consistent set of specifications of the presence service in 3GPP and OMA. 3GPP SA2, however, notes that currently there is no work item in 3GPP to enhance the Presence service requirements or architecture.

3GPP SA2 understands that the network agnostic OMA Presence architecture takes into account the Presence architecture defined in 3GPP TS 23.141 and is consistent with the 3GPP Presence architecture. 3GPP SA2 kindly asks OMA PAG to confirm this and would like to be informed about future architectural aspects to secure consistence between the 3GPP architecture and OMA Presence.

2. Actions:

To OMA PAG group.

ACTION: SA2 kindly asks OMA PAG group to confirm that the Presence architecture specified in OMA is consistent with the architecture defined in 3GPP TS 23.141 and would like to be informed about future architectural aspects to secure consistence between the 3GPP architecture and OMA Presence.

3. Date of Next SA2 Meetings:

SA2 #43	15 th – 19 th November 2004	Seoul, KOREA
SA2 #44	26 th January – 2 nd February 2005	Milan, ITALY

3GPP TSG-SA WG2 meeting #42

Tdoc S2-043021

Sophia Antipolis, France, 11th – 20th October 2004

LIAISON STATEMENT

Title: LS proposing work split 3GPP/3GPP2/OMA on Presence Public OMA Confidential
To: 3GPP CN WG 1, 3GPP SA WG2, 3GPP2 TSG-S, 3GPP2 TSG-X
Copy: -
Source: Presence and Availability Group [PAG]
Contact(s): Hannu Hietalahti, 3GPP CN WG1 Chairman (hannu.hietalahti@nokia.com)
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Attachments: n/a

1 Overview

Presence is currently developed both in OMA, 3GPP, 3GPP2 and IETF. To secure alignment and interoperability between OMA, 3GPP, 3GPP2 & IETF and to facilitate the most efficient use of member companies' resources, a distribution of responsibilities for each of these groups is proposed here.

In the absence of a clearly defined distribution of responsibilities there is an obvious risk of diverging Presence specifications between the aforementioned groups, which would not be beneficial for the industry at large.

This LS kindly requests that 3GPP and 3GPP2 investigate the Action Items in section 3.2 regarding our expectations of a work split between OMA and 3GPP/3GPP2.

2 Proposal

The proposed distribution of responsibilities between IETF, 3GPP/3GPP2 and OMA for specification of the Presence Service may be illustrated as follows:

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The **proposed** roles of IETF, 3GPP/3GPP2 and OMA in regards to Presence Framework and specifications are summarized as:

IETF	<ul style="list-style-type: none"> • Specify the protocols (SIP and XCAP) with extensions & enhancements (SIMPLE) for Presence Service <ul style="list-style-type: none"> ○ SIP protocol and procedures for watching and publishing Presence Information ○ XCAP protocol and procedures for management of presence related data (e.g. manipulation of lists and policies) ○ Additional functionality (e.g. filtering, content indirection, etc.) • Specifies a common presence data format allowing possible extensions.
3GPP/3GPP2	<ul style="list-style-type: none"> • Define IMS message profiles for the OMA Presence framework. • Define how the Presence IETF SIP framework is used in a well defined IMS architecture to transfer Presence Information from the UE to AS and the opposite (e.g. definition of the mandatory and optional headers of the SIP methods used by the Presence event framework) or between ASes. • Specify the mechanisms for transporting presence information from 3GPP/3GPP2 specific network elements (e.g. GGSN, IMS elements, etc) to the Presence Network Agent. • Specify all other procedures required to support network specific aspects of presence, for example, charging and security.
OMA	<ul style="list-style-type: none"> • Specify the presence service and architecture in a network agnostic manner, based on the IETF SIP, SIMPLE and XCAP framework. • Define the semantics of presence information elements and maps those to the relevant IETF formats • Specify how the presence framework can be used to create a uniform framework for application development. • Describe the relationship of the presence framework with the common 3GPP/3GPP2 IMS.

Based on the above overall work split, the proposed scope of the Presence work in OMA and 3GPP/3GPP2 is further detailed in the following sections.

3.1 Proposed scope of Presence work in OMA

Presence Information

OMA will define in Stage 3 specifications the semantics and format of the Presence information content (XML documents), using standard presence information formats from IETF SIMPLE.

OMA will define how core network states, such as CS attached, PS attached, in CS call and in PS session map to presence states described by IETF SIMPLE formats. OMA should ensure that any missing Presence formats required for OMA enablers are introduced to IETF in SIP/SIMPLE RFCs, such that interoperability with Internet clients is maintained.

Transport over IMS

OMA stage 3 shall not define in detail the use of SIP headers, but shall reference 3GPP/3GPP2 for this.

Instead OMA will re-use SIP messages already developed 3GPP/3GPP2 specifications on how presence content is transferred from UE to AS.

Similarly, for XCAP-related information, OMA will reuse 3GPP and 3GPP2 transport protocol and re-use IETF work on the contents. If extensions are necessary, OMA will propose those to the relevant group, such that interoperability is maintained.

Transport over non-IMS

OMA stage 3 shall not define in detail the use of SIP headers, but shall reference IETF for this.

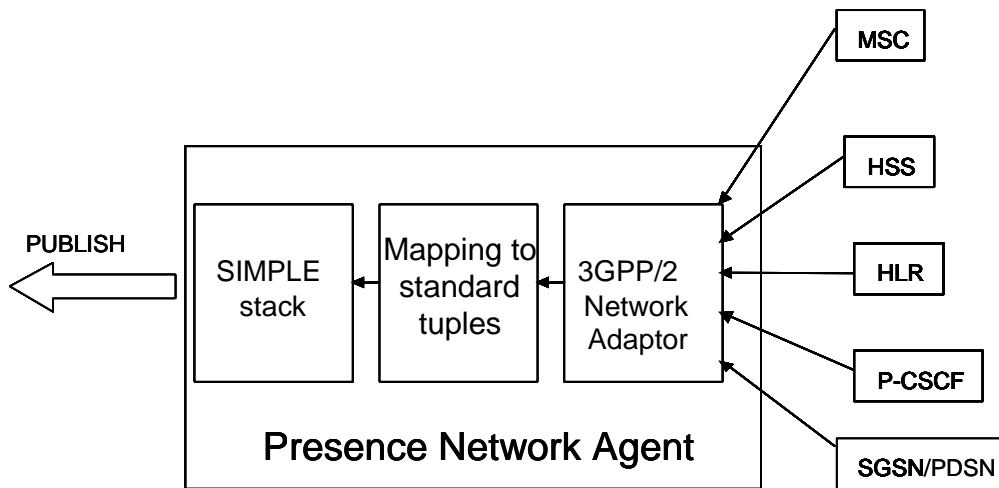
3.2 Proposed scope of work in 3GPP/3GPP2

3GPP/3GPP2 is proposed to define the SIP/XCAP procedures how the presence-related content is transferred between different network entities in an IMS network, (using PUBLISH, NOTIFY etc.) including header fields.

3GPP/3GPP2 is proposed to define a SIP interface for the Presence Network Agent (3GPP/3GPP2 Pen).

3GPP/3GPP2 is also proposed to define the mappings between the presence information available from interfaces on those networks, and the presence elements defined by OMA such that presence sources (PNAs, PUAs.) can publish their information to the Presence Server in a standard format.

This is outlined in the following figure:



3GPP/3GPP2 is proposed to define the normative text for how the HTTP headers are populated. If not, it is expected that this will cause problems when defining the security to be used and also when describing how the Authentication proxy work. It is therefore proposed to cover also this aspect in the 3GPP/3GPP2 specifications.

3 Requested Action(s)

- 4 OMA PAG WG kindly asks 3GPP(CN WG1 and SA WG2) and 3GPP2 (TSG-X and TSG-S) to agree on the proposed split of responsibilities, undertake the necessary actions defined in section 3.2 and provide feedback whether the work under 3GPP/3GPP2 responsibility will be ready within Rel-6 timeframe and MMDref/A. Possibilities for joint meetings should also be considered. Conclusion

The OMA PAG would like to thank 3GPP (CN WG1 and SA WG2) and 3GPP2 (TSG-X and TSG-S) for their consideration and response to this request and we look forward to future opportunities to work together.

Kind regards,

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