Agenda Item:	7.1
Source:	Ericsson
Title:	Make a split between TS33.203 and Presence
Document for:	Discussion/Decision

1. Scope

The work on Presence and security has so far been progressed in SA3 in a TR without a TR number. This gives some problems in particular ~~in relation with other groups e.g. CN1 who cannot make use of documents that are not official~~since other Working Groups in 3GPP cannot take this TR as a reference. This ~~document~~ input paper from Ericsson proposes that IMS as a Core Network in a 3GPP system should be evolved in TS33.203 but new services like Presence shall be developed in a TS separated from TS33.203. This general ~~approach~~ principle should be applied to all future services that are built on top of IMS Core Network and developed in TSG SA3.

Attached to this input paper there are two CRs moving some of the agreed material from the Presence TR to IMS access security. Ericsson proposes that SA3 endorses the proposed principles and the attached CRs.

2. Status

2.1 Background

The current work on Presence has been progressed in a TR, which has no official TR number. This creates some problems since other Working ~~groups~~ Groups ~~like e.g. CN1 cannot consider this document since it is not an official Technical Specification, which should act as an input document to the Stage 3 work~~ cannot make references to this TR since it does not have any official number. Although it should be noted that the SA3 work has applied the general principles that apply to ~~all~~ the development of official TR's ~~documents~~ and draft Technical Specifications. Meaning that input papers to the TR are reviewed ~~like reviewing input documents as well as the TR itself~~and endorsed by SA3 before included in the TR. It is also the understanding of Ericsson that the subgroup of SA3 specifying the requirements for Legal Intercept is using and will use the Presence TR even more in the near future.
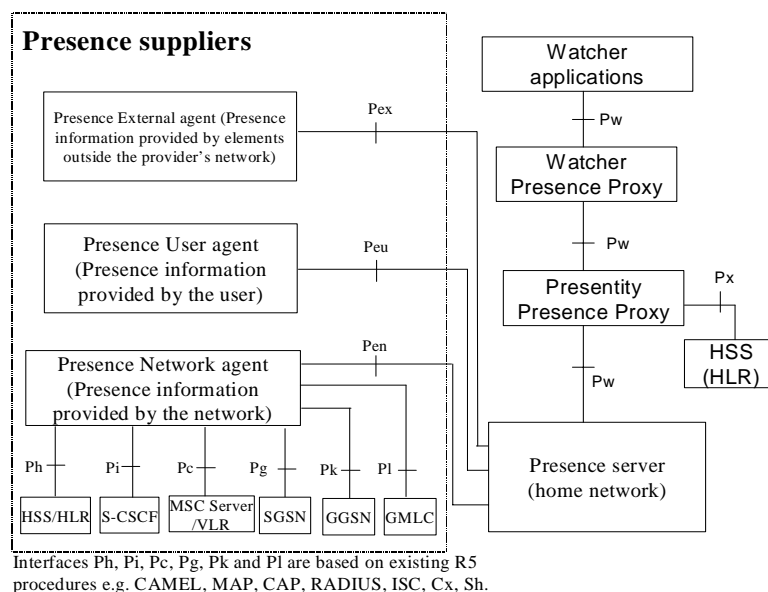
It should be noted that both SA2 and CN1 are progressing the work in Presence specific specifications. CN1 just recently also decided that all new future applications that will be run on top of IMS will be developed in specific specifications, cf. [N1-030904] mainly since the main standardisation effort in CN1 will happen between the UE and Application Servers.

The IMS (IP Multimedia Core Network) is a core network that was developed as an independent system of the PS-domain and hence IMS specific TS's were developed in 3GPP. ~~Clearly this work as well as other new services that are being created will impact the PS specifications like the Go interface between the P-CSCF and the GGSN as well as FBC (Flexible Bearer charging).~~ The following figure describes the situation from a high level perspective:
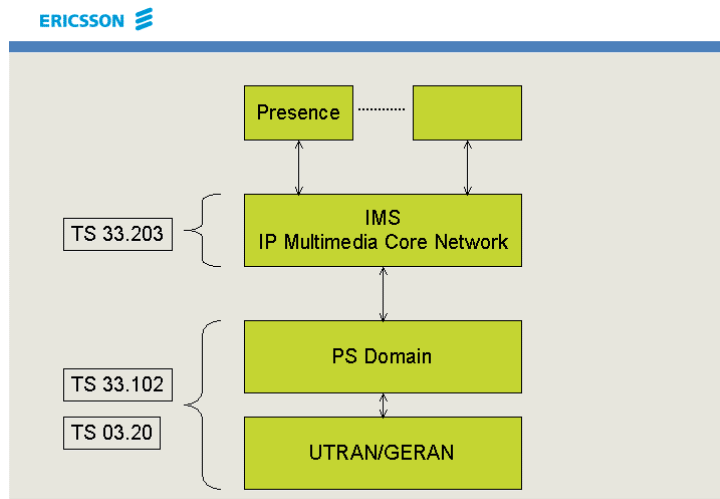
Clearly there is an interrelation between the levels as indicated with arrows in the figure above. It is also worthwhile to point outmention that services and applications standards that can be supported by the IMS Core Network are or will be developed not only in 3GPP but in IETF and OMA as well.

It should be noted that although the Presence application will use IMS Core Network it involves many other nodes as well as a new AS called Presence Server cf. figure below:

Interfaces Ph, Pi, Pc, Pg, Pk and Pl are based on existing R5 procedures e.g. CAMEL, MAP, CAP, RADIUS, ISC, Cx, Sh.

There are new roles defined in this architecture that were never defined in IMS as such. In this figure the current work on defining the security for the Ut interface is not highlighted but it should be noted that this interface is not within the scope of IMS and fits therefore best in what Ericsson proposes a TS devoted for Presence security.

2.2   Proposal

Given how the Presence work is progressed in SA2 and CN1 and the fact that SA3 has no official specification for the security for Presence it is proposed that a new TS for Presence is progressed. This means that parts of the current version of the TR needs to be transferred to this new TS and parts of the Presence TR should be moved to the TS33.203 which would then become v600.

The main motivations for these proposals are

– No official SA3 security document that influence the work in CN1in other working groups is available for Presences

- Follow the same model which has been adopted in SA2 and CN1 cf. e.g [N1-030904]

- There are new roles and new nodes defined for ~~Presence which~~Presence, which ~~compared with~~are not in the scope IMS access security i.e. the main standards required for Presence affect the UE and the Application Servers.

- Progress TS33.203 as an independent TS providing future applications with basic security like access security at a core network level to create a clear functional split

- External bodies like IETF and OMA will develop new enabling standards and services that can be used on top of IMS. These new services may/will have its own unique security characteristics that fit best in a TS and therefore should not to be included in TS33.203. ~~However the new services could still evolve the IMS in TS33.203 introducing new security requirements whenever suitable which can be used by other applications and services as well.~~

- Whenever the security for applications and services will be ~~enhanced~~ evolved in the future ~~e.g. Presence~~ it is better to keep it as a separate TS in order to ~~have~~ get TS33.203 for access security~~as a~~ stable ~~TS~~

- If there will be many new services defined in 3GPP it ~~could~~ would mean that the TS33.203 will become very large and complex~~in the end and as indicated in the bullet point above will never look stable for the reader.~~ should all these services and security requirements be captured in the TS for access security.

3 Conclusions

Ericsson proposes that

- SA3 shall define a new TS for Presence and require a number from ETSI MCC and initiate the work to move relevant parts from the TR to this new TS. Ericsson is of course happy to continue with the editorship of this new TS~~.~~

- That SA3 endorses the working principle that future services on top of IMS are candidates for creating an individual TS rather than updating the TS33.203 for each new application.

- Parts of the current Presence TR shall be moved into this TS and parts shall be moved to TS33.203. CRs are brought to this meeting covering confidentiality related issues and Privacy from Ericsson in order to accomplish this, which are attached to this input paper. Ericsson seeks support from SA3 to approve the attached CRs.

4. References

[N1-030904]   Nokia Rel 6 IMS Service Specificatoin, 3GPP, CN1#30, 19-23 May, San Diego, USA