3GPP TSG_CN **Tdoc NP-000455**
Plenary Meeting #9, Oahu, Hawaii
20th – 22nd September 2000.

Source: **TSG CN WG2**

Title: **All LSs from TSG_CN WG 2 since TSG_CN#8**

Agenda item: **6.2.1**

Document for: **Information**

TDoc #	To	Title	Source
N2-000344	N4, S2	Basic call handling for IP telephony	N2 Chairman
N2-000404	N4	Proposed LS to N4 on CAMEL control of Optimal Routeing	Vodafone
N2-000433	S1	Reply to LS on Support of VHE User Profiles	BT

3GPP TSG_CN **Tdoc N2-000344**
Meeting #12, Helsinki, Finland
17th – 21st July 2000.

Source: **N2 chairman**

To: **S2, N4**

Title: **Proposed Liaison Statement on IPT Basic Call Handling**

Agenda item:

Document for: **Information / discussion**

The 3GPP TSG-N2 group believes that a specification for IPT Basic Call Handling is needed. For circuit switched GSM and UMTS calls the 3G TS 23.018 specifies the Basic Call Handling. For the CAMEL control of VoIP/IPT a corresponding specification is needed since the CAMEL specific procedures are called from the Basic Call Handling specification. The number of the new specification could be e.g. 23.018-2, the TS 23.018-1 being the existing Basic Call Handling. However, the name/number of the specification is not a key issue.

In order to avoid overlapping/redundant work, N2 asks whether S2 or N4 is working on the modelling of IPT calls. If not, N2 would like to know in which group the work belongs.

3GPP TSG-N2 #4
Seattle, USA
28 Aug – 1 Sep 2000

Tdoc 3GPP N2-000404
revision of N2-000361

To: **TSG-N4**

From: **TSG-N2**

Title: LS on CAMEL control of Optimal Routeing

WI: **CAMEL Phase 4**

Source: **Vodafone**[1]

TSG-S1 agreed a CR to TS 22.078 stating that

"…

When a subscriber who is provided with CAMEL based services originates a call, the CSE shall be able to instruct VPLMN-A to interrogate a remote HPLMN for information to route the call to the destination mobile subscriber, instead of using the destination address to route the call to the HPLMN of the destination mobile subscriber.

…"

The technical realisation of this is as follows:

On receipt of an Initial DP for an MO call, the gsmSCF can determine whether Basic Optimal Routeing could be applied for the call. If Basic Optimal Routeing could be applied, the gsmSCF sends a Basic OR interrogation requested indicator in either the Connect or Continue With Argument message. On receipt of this indication, the VMSC routes the call to a GMSC which sends an SRI to the called party's HLR.

It is anticipated that this feature will require changes to TS 23.018, TS 23.078, TS 23.079 and TS 29.078. The change requests to TS 23.078 and TS 29.078 incorporate the Basic OR interrogation requested indicator in the Connect and Continue With Argument messages.

The remainder of the work for this feature falls under TSG-N4's remit. TSG-N2 asks TSG-N4 to work on this feature for completion in Release 2000.

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3GPP TSG CN WG2 **Tdoc N2-000433**
Seattle, Washington, USA
28 August - 1 September 2000

Source: N2[1]

To: TSG SA WG1 (VHE ADHOC GROUP)

Title: **Reply to LS on Support of VHE User Profiles**

Agenda item:

Document for: Information

Introduction

3GPP CN2 delegates have studied the liaison statement on VHE user profiles received from the VHE ad-hoc group and offer the following information to assist with work on user profiles.

Background

In CAMEL we do not currently define the terms 'user profile', 'user data' or 'user service data'.

In CAMEL, standardised data for a specific user is stored in an HLR and identifies if/when CAMEL handling is to be applied to a call, GPRS session or short message. In CAMEL Phase 3, the CSE is able to read CAMEL data from the HLR (called Any Time Subscription Interrogation) using MAP signalling and is able to modify some data (called Any Time Modification). This data appears to fit into the 'user service data' category identified by the VHE ad-hoc group.

The CSE may also store data that is specific to an individual user or group of users. This data is used solely by the CSE to control services that it is responsible for. The exact nature and purpose of this data is not standardised as CAMEL is a toolkit used to implement operator specific services without standardising the services themselves. This data also appears to fit into the 'user service data', category identified by the VHE ad-hoc group, but may include some 'user data' as well.

Release 2000 Network

In a Release 2000 network (CAMEL Phase 4), we envisage that, for some services, standardised data which defines if/when CAMEL handling shall be applied is stored in the HSS in a format consistent with HLR specifications. Some of this data may be accessed by a circuit switched (CS) network VLR using MAP signalling so that a customer may roam from an IM network to a CS network and receive consistent reliable services. We envisage this data may be read and/or modified by a CSE as in CAMEL Phase 3. However, protocols such as LDAP or SIP may be used to access this data as well as or instead of MAP. We expect the list of protocols to be supported by the HSS to be identified by SA2.

User Data

In the past, the CSE has not needed to access standardised data of the type identified as 'user data' in the LS (*menu, colour screen etc).* In general, it is not clear at this time exactly what additional user data may need to be retained in the (HSS) user profile and accessed by the CSE for Release 2000 services. The user data needed depends on service functionality requirements that have not yet been specified.

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However, in principle, it is desirable that the CSE should always have access to read and modify user profile data if appropriate. This approach allows maximum flexibility to create new and innovative CAMEL based services.

Security

In CAMEL, the CSE forms part of the home network, as does the HLR and HSS. Security of data shared between these network entities is the responsibility of the home network operator. However, it may be useful for VHE ad-hoc delegates to know that work has recently been completed in CN4 to specify application encryption for MAP including the CSE to HLR MAP interface.

Conclusions

CN2 has not been able to identify specific additional data to add to the 'user data' list because service requirements are not clear at this time. To assist VHE ad-hoc delegates in progressing their work on user profiles, CN2 has described some current thinking regarding CAMEL capabilities that may impact VHE user profiles. It should be noted that some of the views expressed relating to Release 2000 and the HSS concern work that is at an early stage of development and CN2 views may change significantly as work progresses.