Technical Specification Group Services and System Aspects
Meeting #28, Quebec, Canada, 6-8 June 2005

**TSGS#28(05) 0386**

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|---|---|
| **Source:** | **SA1** |
| **Title:** | **New WI for Personal Network (PN) and Personal Area Network (PAN)** |
| **Document for:** | **Approval** |
| **Agenda Item:** | **7.1.3** |

**TSG-SA WG1 #28** **S1-050514**

**Beijing, China, 4th to 8th April 2005** **Agenda Item: 10.1**

# Draft Work Item Description

## Title: Personal Network Management (PNM)

### 1 3GPP Work Area

| | |
|---|---|
| | Radio Access |
| X | Core Network |
| X | Services |

### 2 Linked work items

AIPN, SIM/USIM Re-use

### 3 Justification

The WI AIPN to study the feasibility of the progression of the 3GPP system to an AIPN. The TR 22.978 has bee approved at 3GPP SA#27. The specification work is about to take off. It has been clarified that AIPN and work on architecture and UTRA evolution should be closely linked. The AIPN is focussed on the PS domain.

In the course of discussion some features have been created which might be of interest for earlier completion and even beneficial for deployment in a mixed CS/PS domain:

***"Personal Network:*** *A Personal Network, in the context of AIPN, consists of more than one device (terminal or server provided by the AIPN operator) under the control of one user providing access to the AIPN. These devices are interconnected by the AIPN such that the user perceives a continuous secure connection regardless of their relative locations. The user controls the PN using facilities provided by the AIPN."*

Why this feature: Already now, many subscriber own more than one terminal and subscription, e.g. ordinary handset for telephony, car phone, PDA for emails when on the move, data card with laptop for work when in semi-stationary mode. Although those devices mainly taken for particular usage, many are able to support more than one sort of services, e.g. telephony is supported by all but the data card. Customers may not carry always their full set of "gadgets", but still want to be reachable. Management for the user by setting forwarding options, switch on and off terminals, providing partners with multiple addresses is not very customer friendly. The Personal network will provide the efficient means for the customer to manage their terminals.

***"Personal Area Network:*** *A Personal Area Network (PAN), in the context of AIPN consists of more than one device (terminal) controlled by, and physically close to, the same user (person). All the devices within a PAN use the same USIM. These devices are connected together using internal PAN means. The user obtains services from the AIPN using his multiple devices which all access the users USIM through the PAN to gain access to the AIPN. The user controls the PAN directly."*

Why this feature: Complimentary to the Personal Network, customers use devices which are capable to support certain services, but neither they are equipped with USIM nor with the radio access means, e.g. a PDA or laptop might be better suited to play a video stream with reasonable quality that a 3G phone with very limited screen size. Current interconnection means between auxiliary devices and 3G terminals are very much of a proprietary nature and come with security constrains, e.g. for setting up a session via an auxiliary device.

## 4 Objective

To specify the necessary means to provide for:

**Personal Network (PN)**

**Personal Area Network (PAN)**

as described in TR 22.978.

CS and PS services shall be supported.

## 5 Service Aspects

Originating and terminating services shall be available via PN and PAN functionality in an easy-to-use manner without compromising reachability.

## 6 MMI-Aspects

tbd

## 7 Charging Aspects

The availability and the invocation of the features may incur charges.

## 8 Security Aspects

tbd

## 9 Impacts

| Affects: | UICC apps | ME | AN | CN | Others |
|---|---|---|---|---|---|
| Yes | X | X | | X | |
| No | | | | | |
| Don't know | | | X | | |

## 10 Expected Output and Time scale (to be updated at each plenary)

| New specifications | | | | | | |
|---|---|---|---|---|---|---|
| Spec No. | Title | Prime rsp. WG | 2ndary rsp. WG(s) | Presented for information at plenary# | Approved at plenary# | Comments |
| TS 22.xyz | Personal Network Management (PNM) | SA1 | | SA#29 | SA#30 | |
| | | | | | | |

| Affected existing specifications | | | | |
|---|---|---|---|---|
| Spec No. | CR | Subject | Approved at plenary# | Comments |
| TR 33.817 | | Feasibility study on (universal) subscriber interface module (U)SIM security reuse by peripheral devices on local interfaces | SA#26 | |
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**11 Work item rapporteur(s)**

Armin Toepfer, Vodafone

**12 Work item leadership**

SA1

**13 Supporting Companies**

Vodafone, NTT DoCoMo, NEC, Toshiba, Panasonic, Telecordia Technologies

**14 Classification of the WI (if known)**

| | |
|---|---|
| X | Feature (go to 14a) |
| | Building Block (go to 14b) |
| | Work Task (go to 14c) |

14a The WI is a Feature: List of building blocks under this feature

(list of Work Items identified as building blocks)

14b The WI is a Building Block: parent Feature

(one Work Item identified as a feature)

14c The WI is a Work Task: parent Building Block

(one Work Item identified as a building block)