**3GPP TSG-T (Terminals) Meeting #22** ***TP-030269***
**Maui, Hawaii, USA**
**10 - 12 December, 2003**

3GPP TSG-T2 #23 ***T2-030639***
Dallas USA
17 – 21 November 2003

# Work Item Description

## Handling of private addressing schemes in MMS

### 1 3GPP Work Area

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

### 2 Linked work items

- *MMS Service Requirements (SA1)*
- *Charging (SA5)*
- *MMS Enhancements - REL6 (T2)*

### 3 Justification

A need for handling subscriber-specific, flexible addressing in MMS is identified. Examples for Services which need such subscriber-specific and flexible addressing are Virtual private Networks (VPN) and Address Hunting Services, which make use of private numbering schemes.
To fulfil this need the following item is proposed to be included in the expected work on MMS.

The described feature is seen as a big enhancement of the MMS service and will help to improve the acceptance of the user and addresses as well needs of corporate customers.

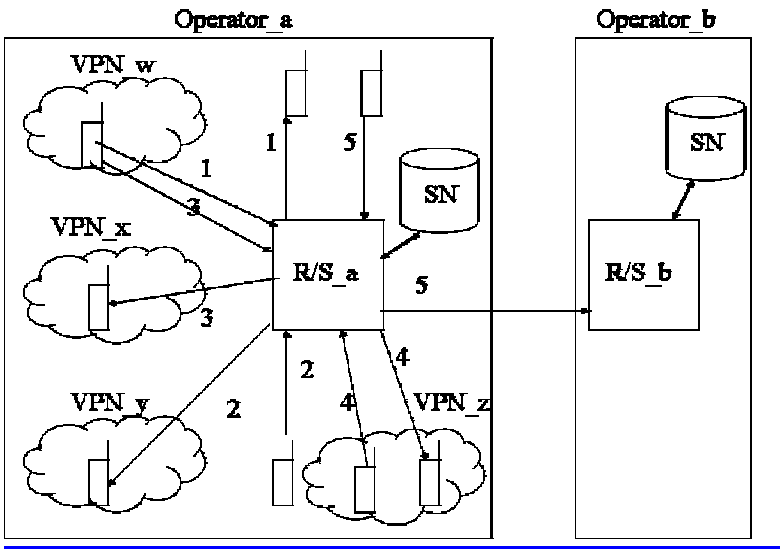
The co-signing companies are committed to complete the WID within the known REL-6 Timeframe.

### 4 Objective

This Work Item will target the following areas:

- Means to recognize that an address resolution shall be performed.
- Establishment of methods to interrogate Network Based service Nodes to exchange all necessary service information.
- Enhancements on existing billing specification to ensure that all service relevant data can be captured.
- Study the impacts on privacy, security and routing

**Example Use Case "Virtual Private Network"**




**VPN use cases (non exhaustive list)**

1. VPN user sends MMS to a non-VPN user (same operator)
~~1.~~2. Non-VPN user sends MMS to a VPN user (same operator)
~~1.~~3. VPN user sends MMS to a VPN user (same operator, different VPN)
~~1.~~4. VPN user sends MMS to a VPN user (same operator, same VPN)
~~1.~~5. Non-VPN user sends MMS to a user (different operators)

## 5 Service Aspects

- The feature allows users to use an abbreviated way to identify themselves or MMS recipients.

## 6 MMI Aspects

- Possible impact, since supporting and displaying of private Number schemes is necessary.

## 7 Charging Aspects

As both the original and the modified addresses may be relevant for charging, the charging capabilities (CDR and prepaid) have to be enhanced.

## 8 Security Aspects

- To be determined

## 9 Impacts

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

Note: Reason for potential ME impact: The addressing scheme of the MMS UA currently supports (E.164/MSISDN, RFC2822, short codes). This might need to be enlarged in order to support private numbering schemes.

## 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 |
| | | | | | | |
| | | | | | | |

| Affected existing specifications | | | | |
|---|---|---|---|---|
| Spec No. | CR | Subject | Approved at plenary# | Comments |
| 22.140 | | Multimedia Messaging Service; Service aspects; Stage 1 | SA# 23 | Under SA1 responsibility |
| 23.140 | | Multimedia Messaging Service (MMS); Functional description; Stage 2 | T# 24 | Under T2 responsibility |
| 32.270/ 32.235 | | Charging data description for application/MMS services | SA# 24 | Under SA5 responsibility |

## 11 Work item rapporteurs

Matthias Röbke, T-Mobile

## 12 Work item leadership

TSG-T2

## 13 Supporting Companies

T-Mobile, Ericsson, Orange, Vodafone, Huawei

## 14 Classification of the WI (if known)

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

This building block belongs to the parent feature “Multimedia Messaging Enhancements”