## 3GPP TSG-SA WG3 Meeting #37 Sophia Antipolis, France, February 21-25, 2005

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Reason for change: 

It may happen that the UE has already generated a new MUK/MRK pair (after a GBA run and the subsequent application NAF derivation step) but the BM-SC was never informed. From the BM-SC point of view his known MUK/MRK pair may still be valid (lifetime has not expired), hence this MUK-ID can still be used within the MSK push procedure. While the UE has already installed a new MUK-ID, the BM-SC is using an old MUK for protecting the MSK push MIKEY messages. The UE behavior for this mismatch case is not specified.

A similar handling as for the push solicited pull procedure is proposed. For the

push solicit pull, the BM-SC is allowed to use a MUK-ID beyond the SA-lifetime (differently than the last generated one). This MUK-ID is known to the UE as the last-successfully used.

last-successfully used

Summary of change: Clarify the UE behavior when receiving a normal MIKEY push message with an old (still valid) MUK-ID. The UE shall handle the MIKEY push message in a similar way as the push solicited pull message. This guarantees that the UE contacts the BM-SC with the B-TID. Subsequently the MSK is pushed again to the UE (yet with

the newer MUK).

Consequences if not approved:

# UE's may behave differently which may result in non-optimized MSK handling.

■ X O&M Specifications

Other comments: 第

## ==== BEGIN CHANGE =====

## 6.3.2.3 MSK push procedures

## 6.3.2.3.1 Pushing the MSKs to the UE

The BM-SC controls when the MSKs used in a multicast service are to be changed. The below flow describes how MSK changes are performed.

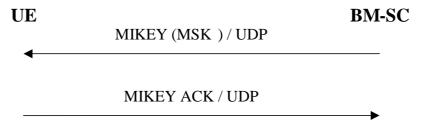


Figure 6.3: Pushing the MSKs to the UE

When the BM-SC decides that it is time to update the MSK, the BM-SC sends MIKEY message over UDP transporting the requested MSKs to the UE.

If requested by the BM-SC, the UE sends a MIKEY acknowledgement message to the BM-SC.

When an MSK push MIKEY message is not directly preceded by an MSK key request, then it may happen that the BM-SC uses a still valid MUK that is not the last generated MUK at the UE. The UE shall handle such a MIKEY push message in a similar way as the push solicited pull MIKEY message (i.e upon a successfull integrity check the UE shall initiate an MSK request with the specified Key Group).

NOTE: This procedure guarantees that the UE contacts the BM-SC with the last B-TID, such that the UE now receives a MIKEY push message with the last generated MUK. The integrity of the initial pushed MIKEY message can be verified at the UE with the MUK-ID that is known as the last successfully used BM-SC MUK-ID.

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