

The Key ID Information Type for the General Extension Payload in MIKEY

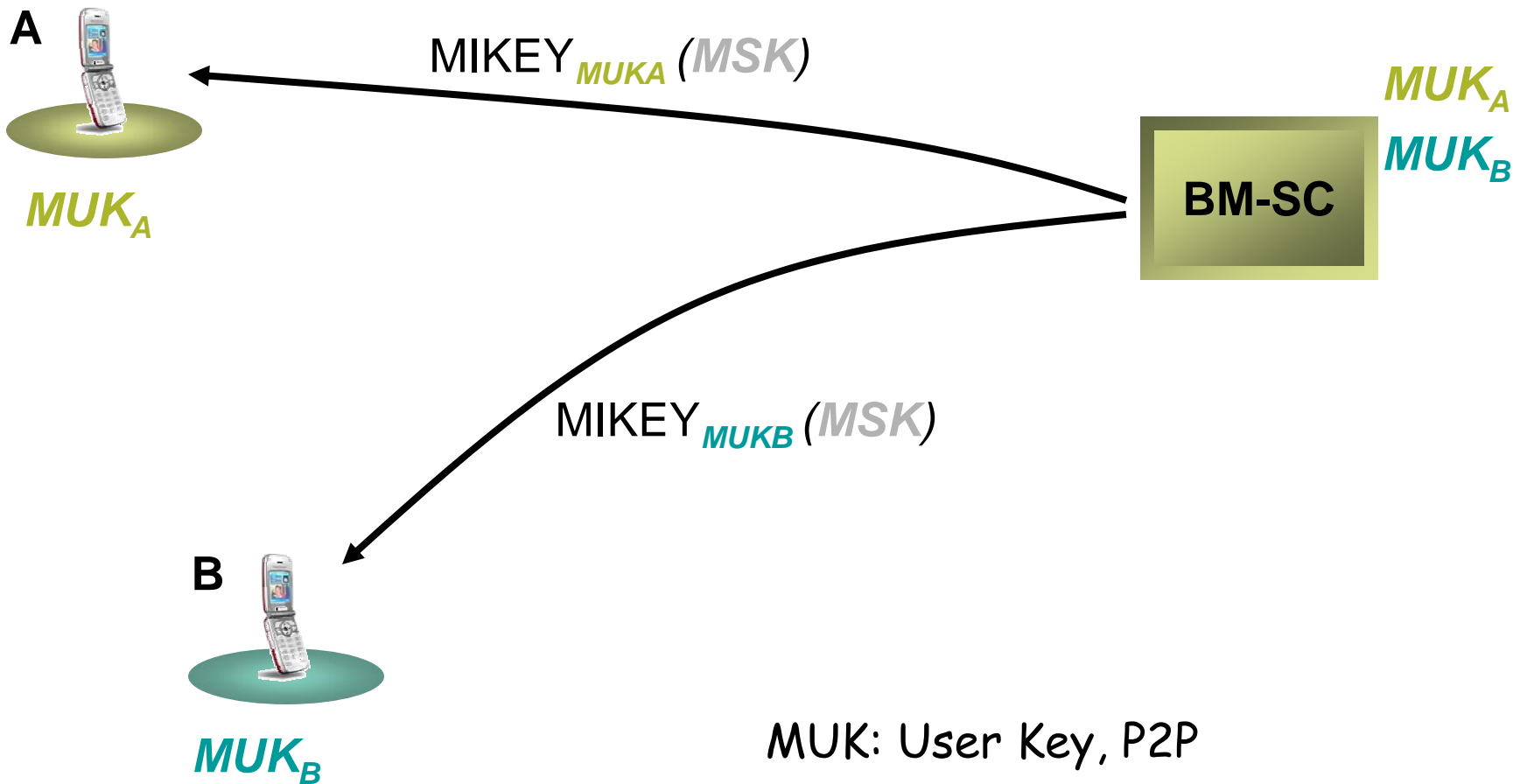
draft-carrara-newtype-keyid-00.txt

Objective

- Define a new type in the General Extension Payload in MIKEY needed by MBMS
- MBMS: Multimedia Broadcast/Multicast Service in 3GPP (Rel6)
 - functional freeze in December 2004
- The Streaming Scenario uses
 - SRTP for media protection
 - MIKEY for key mngt protocol
- MBMS requires to identify key type involved in the MIKEY message, and key identity

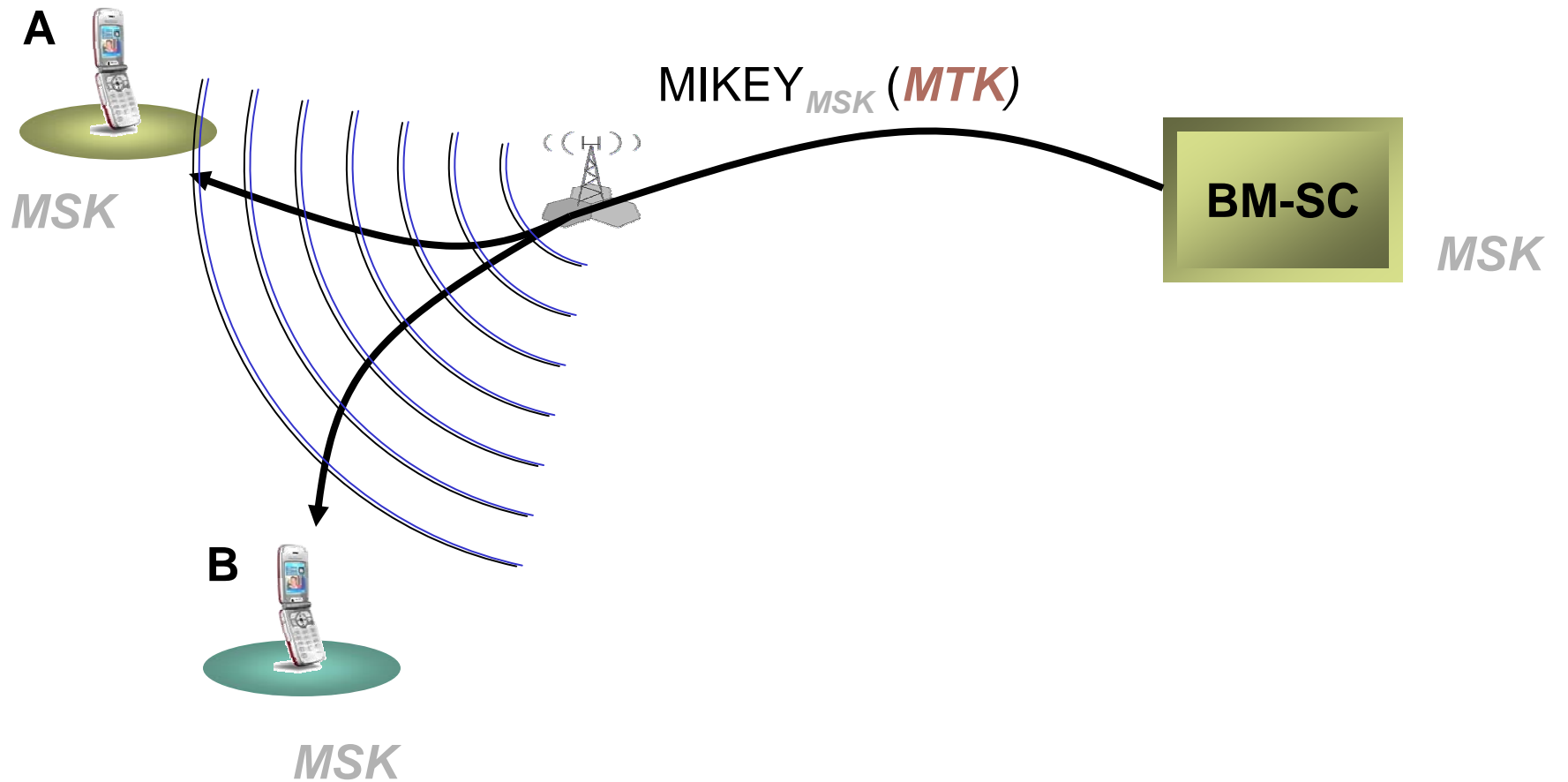
MBMS

- Req: frequent key updates
 - Subscribers' inconveniency to publish decryption keys
- 3-level key mngt
 - Peer-to-peer key (MUK) = *shared secret*
 - Group key (MSK) = *KEK*
 - Traffic group key (MTK) = *TEK*
- Frequent MTK update



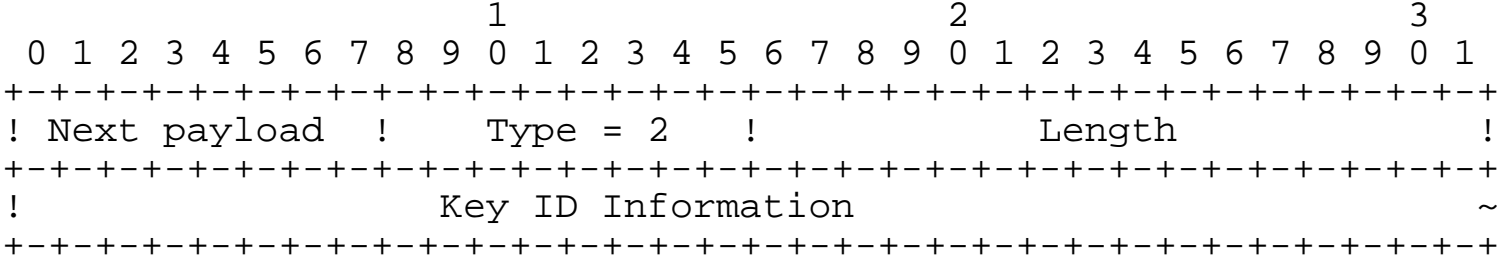
MUK: User Key, P2P

MSK: Service Key, group key

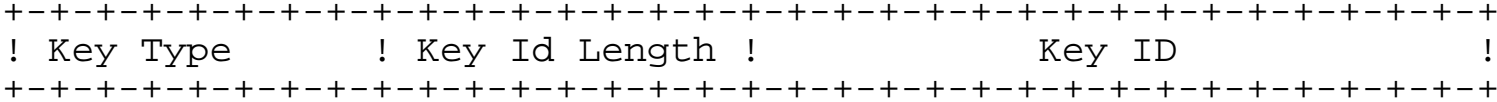


MTK: Traffic Key, group key (eq. TGK/TEK)

General Extension Payload in MIKEY



Key ID Information:



Key Type	Value
MBMS User Key (MUK)	0
MBMS Service Key (MSK)	1
MBMS Transport Key (MTK)	2