



---

## **Mobility Management in a SIP Environment** **Requirements, Functions, and Issues**

draft-itsumo-sip-mobility-req-00.txt

S. Baba

sbaba@tari.toshiba.com

## Motivation

- Mobility is rapidly becoming a rule/norm rather than exception.
- SIP is gaining acceptance as the signaling protocol of multimedia and Internet telephony.

It is essential to support mobile users in a SIP signaling and control environment.

## Objectives

- Describe the framework requirements for mobility management in general, as well as the mobility management functions and requirements in particular.
- Identify open issues involved in supporting mobile users in a SIP environment (See the draft for details).
- Include the relevant issues in the agenda of the SIP WG and other appropriate WGs in the IETF

## Framework Requirements

Mobility management scheme of wireless IP networks should

- support personal as well as terminal mobility,
- support global roaming,
- be wireless “technology-independent”,
- support real-time and non-real time applications,
- support current TCP-base applications transparently, and
- interworks with today’s 1G/2G telephony smoothly.

# Mobility Management Functions and Requirements

Functions	Requirements
Hand-off	<ul style="list-style-type: none"><li>• Should support cell, subnet (intra-domain) and domain hand-off.</li><li>• Should utilize the soft hand-off feature of CDMA technology.</li><li>• Should be wireless “technology independent”.</li></ul>
Registration	<ul style="list-style-type: none"><li>• Should be completed in less than a few seconds.</li></ul>
Configuration	<ul style="list-style-type: none"><li>• Should be done in fractions of a second.</li></ul>
Address Binding	<ul style="list-style-type: none"><li>• Should allow a user to maintain a universal identifier regardless of its point of attachment to the network.</li></ul>
Location Management	<ul style="list-style-type: none"><li>• Should be up to date, accurate, and confidential.</li></ul>

## Summary and Conclusions

- We believe mobility will be the norm, and the signaling and control protocol of Internet should be able to support mobile users.
- Identified the functions and requirements for supporting mobile users as well as open issues.
- Looking forward to addressing them in the SIP WG or other appropriate WGs in the IETF.