Algorithm Based Approach for the Connection Establishment in the Fast Handover in Leo Satellites in BMBHO

International Journal of Computer Applications

© 2012 by IJCA Journal

Volume 44 - Number 12

Year of Publication: 2012

Authors:
Dipsikha Ganguly
Debabrata Sarddar
Soumya Das
Suman Kumar Sikdar
Sougata Chakraborty
Kunal Hui

10.5120/6318-8663

Abstract

Now-a-days LEO satellites have an important role in global communication system. They have some advantages like low power requirement and low end-to-end delay, more efficient frequency spectrum utilization between satellites and spot beams over GEO and MEO. So in future they can be used as a replacement of modern terrestrial wireless networks. But the handover occurrence is more due to the speed of the LEOs. Different protocol has been proposed for a successful handover among which BMBHO is more efficient. But it had a problem during the selection of the mobile node during handover. Here we have proposed an algorithm so that the connection can be established easily with the appropriate satellite. By simulation we have shown that it will reduce the handoff latency as well as efficiency of the
communication will be maximum and force call termination probability or call blocking probability will be minimum.

References

- Satellite Mobility Pattern Scheme for Centrical and Seamless Handover Management in LEO Satellite Networks Ays¸eg¨ul T¨uys¨uz and Fatih Alag¨oz
  - Ays¸eg¨ul T¨uys¨uz and Fatih Alag¨oz, Satellite Mobility Pattern Scheme for centrical and Seamless Handover Management in LEO Satellite Networks JOURNAL OF COMMUNICATIONS AND NETWORKS, VOL. 8, NO. 4, DECEMBER 2006.


Index Terms

Computer Science

Keywords

Handover Latency  Leo Satellite  Mobile Node (mn)  Billboard Manager (bm)