Introduction of Handover Manager for Better Handover Latency and Handover Throughput during Leo Satellite Handover

Abstract

LEO satellite has an important role in global communication system. They have advantages
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like low power requirement and lower end-to-end delay, efficient frequency spectrum utilization between satellites and spotbeams over MEO and GEO satellites. So in future they can be used as a replacement of modern terrestrial wireless networks. There are a lot of handover techniques for LEO satellites like seamless handover (SeaHO-LEO), PatHO-LEO. In our proposed work we have suggested a new handover technique for SeaHO-LEO by introducing a Handover Manager (HM) during the handover process and by simulation we have also shown that it a better approach by comparing it with other existing handover techniques as it reduces the handover latency, propagation delay, call blocking probability more than any other technique.

References

- Satellite Mobility Pattern Scheme for Centrical and Seamless Handover Management in LEO Satellite Networks, Y. K. Alagöz and Fatih Alagöz
- Y. H. Kwon and D. K. Sung, "Analysis of handover characteristics in shadowed..."

**Index Terms**

Computer Science Communications

**Keywords**

Handover Latency Leo Mobile Node (mn) handover Manager (hm)