Evolution of CSMA Protocols fro the IEEE 802.11 Standard

Michael Shell
School of Electrical and
Computer Engineering
Georgia Institute of Technology
Atlanta, Georgia 30332–0250
Email: http://www.michaelshell.org/contact.html

Homer Simpson
Twentieth Century Fox
Springfield, USA
Email: homer@thesimpsons.com

James Kirk
and Montgomery Scott
Starfleet Academy
San Francisco, California 96678-2391
Telephone: (800) 555–1212
Fax: (888) 555–1212

***Abstract*—In this paper we present the requirements of candidate protocols to replace the pervasive CSMA/CA medium access control. We discuss the possibility of further preventing collisions and provide an overview of the related work. We specify protocols that are candidates of replacing CSMA/CA in pseudocode and use simulation to assess performance metrics such as throughput, fairness and collision probability.**

I. Introduction

This demo file is intended to serve as a "starter file" for IEEE conference papers produced under LaTeX using IEEEtran.cls version 1.7 and later. I wish you the best of success.

A candidate to replace CSMA/CA should

- Provide performance advantages, either in the form of throughput or short term fairness.
- Be backward compatible with current implementation.
- Be simple a simple evolution implementation to ease the transition and reduce time to market (Optional but desirable).

II. Related Work

III. Enhanced CSMA

IV. Performance Evaluation

V. Conclusion

The conclusion goes here.

Acknowledgment

The authors would like to thank...

References

[1] H. Kopka and P. W. Daly, *A Guide to LaTeX*, 3rd ed. Harlow, England: Addison-Wesley, 1999.