Abstract

High-speed and reliable mechanism is required to support peer-to-peer communications for implementing distributed functions in Substation Automation System (SAS). This paper presents the practical implementation and testing of protection scheme based on high-speed peer-to-peer communication using GOOSE (Generic Object Oriented Substation Event) message model in a laboratory setup. An analysis of the performance advantages of GOOSE based protection over its conventional hard-wired counterpart is also presented. The laboratory setup used for this work is conceptualized and commissioned in the Substation Automation Laboratory of Jamia Millia Islamia University, New Delhi, India.
Andrew Rindos, Steven Woollet, Larry Nicholson andladen Vouk, M. A Performance Evaluation of Emerging Ethernet Technologies: Swiched/High-Speed/Full-Duplex Ethernet and Ethernet LAN Emulstion over ATM.


Index Terms

Computer Science Communications

Keywords

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