Abstract

The ongoing expansion in the Internet is the cause of continuous utilization and traffic behaviour changes. Due to diversity and fast changing properties, the Internet is a moving target. The tremendous increase in usage of the internet has necessitated the development of a tool that can model the suitability and quality of a network in terms of software metric. The effective management of any network requires quantification, measuring and modeling that can depict the nature of a network. This paper illustrates an approach to calculate the Activeness of a Local Area Network (LAN) and describes a tool called LAN Activeness Calculator (LANAC). The paper describes the Network Activeness Metric (NAM) which can gauge the degree of readiness of a LAN to give a response.

References

1. Sachin Lakra, Bharti Jha, Nitin Bhardwaj, Ritu Saluja and Nand Kumar: “Metrics For The Pre-Development Phase Of Software Requirements Engineering”; Proceedings (Abstract) of
National Conference on Emerging Trends in Software Engineering and Information Technology, Gwalior, M.P., India; (29-30 March, 2007), 21


7. Xiaoyuan Ta, “A Quality of Service Monitoring System for Service Level Agreement Verification”, [Dissertation], School of Electrical and Information Engineering, University of Sydney, Sydney, Australia, March 2006.


**Index Terms**

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**Keywords**

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