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RESEARCH ARTICLE

Application of Unified Network Management in LAN for Load Shedding

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ABSTRACT

The differentiated services (DiffServ) model has been proposed as a scalable traffic management mechanism to ensure Internet QoS without using per-flow resource reservation and per flow signaling, but it sacrifices the ability to accurately configure the network devices and efficiently utilize the network resources. In this thesis, the DiffServ model is augmented with traffic engineering tools, per-flow call admission control (CAC), dynamic resource sharing schemes to improve resource utilization efficiency. Specifically, an advanced two-tier resource management (ATTRM) model is proposed for efficient resource allocation over DiffServ networks, which manages network resources based on the "first plan, then take care" principle. By proper boundary service level agreement (SLA) arrangement and path-oriented internal resource mapping, the Internet service provider (ISP) can optimally plan the network resources to achieve the maximum long-term network revenue. To efficiently utilize the well-planned network, novel effective bandwidth techniques are developed for packet- and call-level QoS control in DiffServ networks.

Keywords:-CAC; ATTRM; QoS; SLA; ISP; Internet Engineering Task Force.

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