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(12) United States Patent Forslöw

(54) DYNAMIC QUALITY OF SERVICE RESERVATION IN A MOBILE COMMUNICATIONS NETWORK

- (75) Inventor: Jan E. Forslöw, Stockholm (SE)
- (73) Assignee: Telefonaktiebolaget LM Ericsson (publ), Stockholm (SE)
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Primary Examiner—Man U. Phan

Assistant Examiner-Toan D. Nguyen

(74) Attorney, Agent, or Firm-Nixon & Vanderhye P.C.

(57) ABSTRACT

In a mobile communications system, a mobile host communicates packet data with an external network by way of a packet gateway node. The mobile host establishes a packet session during which plural application flows are communicated with an external network entity. Each application flow includes a corresponding stream of packets. In addition, a corresponding quality of service parameter is defined and reserved for each of the plural application flows. In this way, different quality of service parameters may be defined and reserved for different ones of the application flows. Packets corresponding to each of the application flows are then delivered, for example, from the external network entity all the way to the mobile host in accordance with the quality of service reserved for that application flow. Different qualities of service may have different allocated bandwidths, delays, and/or reliabilities.

33 Claims, 14 Drawing Sheets



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