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(54) **SYSTEM AND METHOD FOR CAPACITY PLANNING**

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(57) **ABSTRACT**

A method for capacity planning in a computer network, the method includes: determining traffic flow, application and network parameters; collecting the parameters for a predetermined time period; determining the features or parameters associated with various growth models; and combining the growth models to determine network capacity planning and congestion management planning for the network. A system for capacity planning in a computer network, the system including: a data collection module configured to collect data and parameters associated with the traffic flow, applications and nodes and links on the network; a forecasting module having a prediction engine configured to predict growth based on the QoE determined from the collected parameters; and a traffic action module configured to provide growth results and/or congestion management options.