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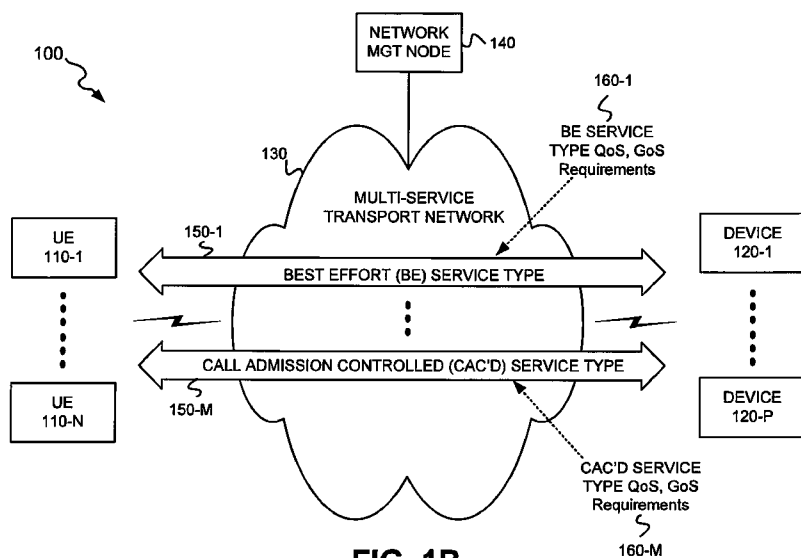


FIG. 1B

(57) Abstract: A network management device (140) coupled to a multi-service transport network (130) includes a network performance monitoring unit (400) configured to monitor a number of active calls, throughput, and call blocking data associated with each service of multiple services service by a multi-service transport network (130), where each service of the multiple services serviced by the multi-service transport network (130) is associated with a different one of multiple traffic types. The network management device (140) further includes a network capacity analyzer (420) configured to: estimate a transport capacity of the multi-service transport network (130), for use in network capacity planning, based on the number of active calls, the throughput, the call blocking data, and quality of service, QoS, and grade of service, GoS, requirements associated with each of the multiple services.