

Traffic Engineering Techniques in Telecommunications

by: Richard Parkinson

Introduction:

The use of mathematical modeling to predict line, equipment, and staff capacities for telephone systems is an accepted technique for fine-tuning existing systems, as well as designing new ones. Through sensitivity analysis, such predictions can also provide a comprehensive overview of a particular design.

Most available literature on traffic engineering either concentrates on obscure and complicated calculations, or alludes to formulas, but does not include them. This paper defines relevant terms, and discusses the most commonly used formulas and their applications. A knowledge of secondary school mathematics is sufficient to do the calculations in this paper.

Traffic engineering techniques are used most often to determine:

- Line and trunk quantities required for a PBX or computer
- Number of DTMF (Dual Tone Multi-frequency) registers, conference trunks, RAN (Recorded Announcement Route) trunks, etc. required
- Traffic capacity of a PBX, given the number of speech paths (simultaneous conversations) available
- Quantities, service levels, and usage of such special service trunks as foreign exchange (FX), discounted toll trunks, and tie trunks (leased lines between PBXs)
- Operator staffing levels and performance predictions as well as the impact of system change on staff quantities
- Automatic call distributor (ACD) staffing and service levels

Terminology:

The terms used in traffic engineering are standard telecommunications usage. The following brief glossary lists those terms needed to understand the formulas presented in this paper.

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