





Planning without acting is futile – Acting without planning is fatal!



In the planning of a telecommunication network, there are five essential steps: 1. Traffic forecasting 2. Site location

- 3. Routing
- 4. Dimensioning
- 5. Circuit routing

Caplan is an optimisation & dimensioning software therefore the three first steps must be completed beforehand.

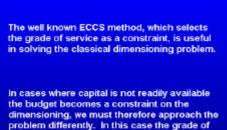


The Network Dimensioning Problem...

The classical telecommunication network dimensioning problem can be stated as follows: given a network structure, a demand matrix and a routing method, compute the size of the links that minimize network cost under given grade of service constraints.

The sizing or dimensioning of the number of trunks per group is a major task of the systems engineer.





service constraint is replaced by a budget constraint.

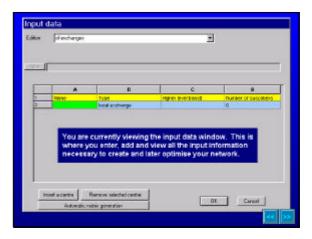
Capian is unique in that it calculates the optimal dimension of the network, relative to either grade of service constraints or budget constraints (budgets known in advance) and make possible an evaluation of the grade of service while taking into account the available financial resources. Capian also facilitates the effective diagnosis of the grade of service of an existing telecommunication network.

Capian (CApacity and PLANning) is a software based tool for optimizing and dimensioning telecommunication networks, designed to respond to the particular needs of telecommunication network operators with limited capital resources.

Capian is based on an exact algorithmic approach offering optimal solutions for any size network

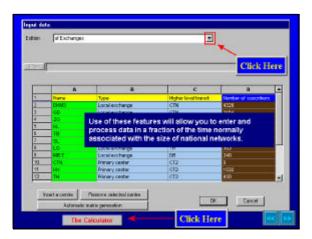
CAPLAN Planning Makes All the Difference

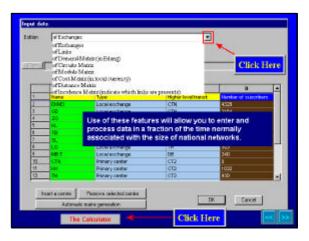
- CAPLAN, CApacity PLANning
- The solution to efficient traffic flow
- · Highly useful diagnostic tool
- · A winner with cellular system
- A simple way to maximize savings (CAPEX and OPEX)

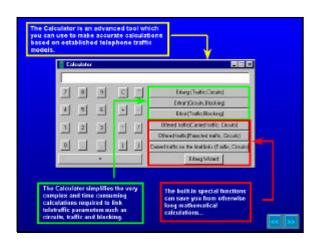


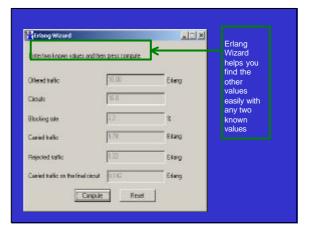


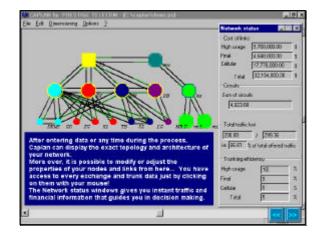


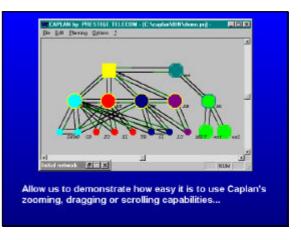


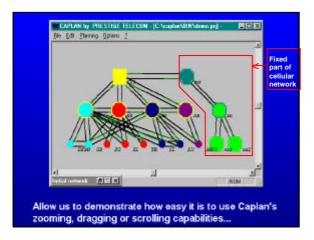


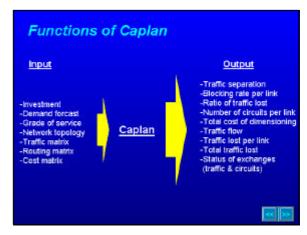


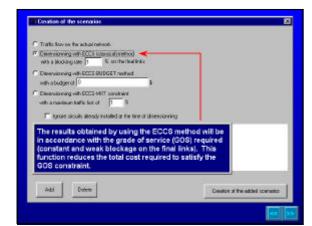


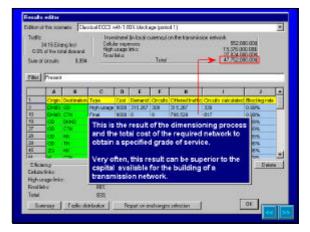


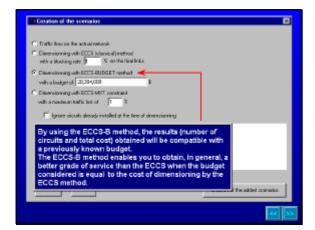


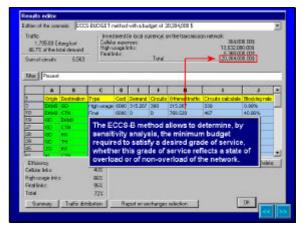


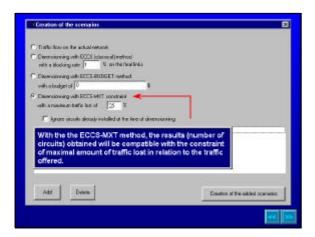


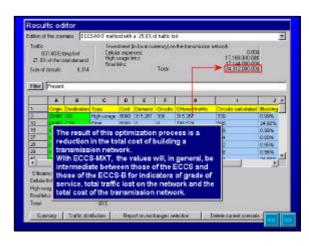


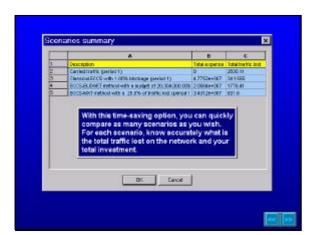


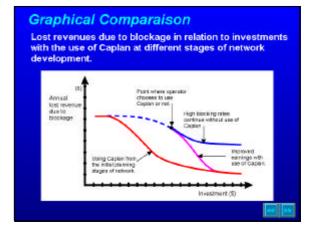












Advantages of Capian Assists in the early stages of network design by determining the most cost-effective configuration. Assists in the diagnosis of the network. Improves GOS while maintaining the possibility of diversifing resources. Facilitates decision making (study of various scenarios). Determines how much, when (time period) and where to invest in the network in relation to demand forecast. Determination of lower and upper limits of investment to maintain a satisfactory GOS. Minimizes traffic lost... Increases revenue.



