Network Capacity Planning is the process of ensuring the network is designed to meet demands made of it today and the future. All current and new services should be assigned resources in the most optimal manner without over-building the network and satisfy customer requirements.

With exponential growth of mobile and business data traffic in networks, CSPs need to find better ways to manage their operations in order to deliver new, compelling and profitable services without overbuilding their networks. Revenue growth is not at the same pace as the bandwidth demand. CSPs worldwide face a huge challenge in keeping OpEx in check. Optimal capacity planning is key to remain competitive and profitable in this extremely competitive marketplace.

Traditional approaches to capacity planning involved several manual steps in multi-vendor, multi-technology, multi-layer networks. It can take weeks to collect network information before doing any actual analysis and by then the data is not current. Typically, the process to analyze data can take another few more weeks or months before any operational decisions can be made. The decision process is manual, sub-optimal and not dynamic enough to cope with the new network demands. Especially, in the case of large and complex networks with multi-vendor gear and technologies, the current tools and processes are outdated.

Next-gen services allow dynamic resource re-use for ex: bandwidth calendaring applications. Such dynamic resource utilization makes planning optimal routes and right-sizing networks very challenging.

**Key Differentiators**

**Simplicity:**
Web 2.0 enabled platform, available as a SaaS offering
Simple intuitive interface with a very short learning curve

**Performance:**
Driven by powerful patent pending algorithms
State of the art software architecture
Produces fast results even on very large complex networks

**Scalability:**
Able to scale to very large networks easily

**Brownfield/Greenfield planning:**
Plan expansions, restructuring and modifications in existing networks. Its unique simulation capability allows you to validate results without impacting existing traffic and service levels.

**Features**

- DWDM/OTN/SDH/SONET/ETHERNET/MPLS/GMPLS
- Supports multi-layer “protocol” enabled networks
- Supports protocol agnostic network modelling
- Reachability and Diversity Analysis
- Shared Risk Groups
- Event, Fiber failure analysis
- Virtual or physical network validation
- Segment Routing for Service Chaining
- Supports planning for
  - Unprotected circuits
  - Partial or Fully protected circuits
  - Shared protection circuits