



# Quality and Availability with TEMS™ LinkPlanner

TEMS LinkPlanner is Ericsson's tool for radio link transmission planning. This powerful, PC-based product is the most advanced tool available for designing and optimizing radio transmission networks. TEMS LinkPlanner helps the transmission engineer to design and roll out a network with the desired quality and availability at the right cost. The quality and availability in existing networks can also be evaluated and the networks can be re-designed, optimized, and expanded in an efficient way.

In the latest release, functionality has been added to support quality and availability analysis in accordance with the latest recommendations from the

ITU. To support planning of both PDH and SDH-paths the ITU-R recommendations based on ITU-T Rec. G.826, G.8.27, and G.828 are needed. These recommendations are fully implemented in TEMS LinkPlanner to support planning in the different parts of the network. The Quality and Availability objectives vary between the different parts of the network, which include the access part, the short haul and the long haul parts. In light of these changes, a new way of setting up the Quality and Availability objectives has been included to ensure that planning remains smooth and flexible. The Quality and Availability analysis can, as earlier, be done for a single path or for several paths, a path-chain, ensur-

ing the desired end-to-end Quality and Availability.

Other new features include databases for easy retrieval of fading parameters according to ITU-R PN.530-11, allowing individual fading parameters for rain fading and flat fading to be automatically assigned to each path. In addition, enhancements to the network views, including a new versatile network report, make it easier to display network conditions. Also new is the line-of-sight spider cursor, which helps the transmission engineer to quickly identify possible new links.

TEMS LinkPlanner is developed by Ericsson, and benefits from the exper-

ience and expertise of not only the Ericsson TEMS group but also the Ericsson Services organization and the MINI-LINK System organization. The tool is very flexible, supporting point-to-point planning as well as the planning of different kinds of point-to-multipoint systems. For more information on TEMS LinkPlanner, visit [www.ericsson.com/tems](http://www.ericsson.com/tems) •