



Description of an Network configuration planning system

Polkomtel optimizes network operation using a system provided by Suntech

In the age of a fierce competition between telecom operators, optimal use of network infrastructure, technologies available and modern equipment is a challenge. Maintaining optimal network configuration and efficient changes planning and implementation are key business processes translating into quality services with no need for excessive outlays.

Objectives and challenges

Polkomtel [shareholders: Vodafone, TeleDanmark, PKN Orlen, KGHM] is a GSM PLUS mobile network operator providing modern services to over 5 million subscribers. Polkomtel's telecom network covers almost the whole territory of Poland. The firm's dynamic expansion, continuous development of services and growing number of users brings about a considerable GSM traffic increase. To optimally use the existing infrastructure, an information system became necessary allowing methodological planning of GSM network configuration.





Having considered solutions available worldwide, Polkomtel chose a system by Suntech for pilot installation. Following thorough tests the operator decided to further work with Suntech as a company offering a set of applications which are most flexible, best suit current and future needs, and are available at a reasonable price.

'Polkomtel's choice is another proof that our solutions are innovative and top quality', says Suntech's CEO Piotr Saczuk.

Implementation and benefits

Suntech is the leading provider of integrated OSS solutions for telecom operators. As they integrate and automate processes, Suntech systems enable operators' investments in the existing network to be fully profitable. They also allow fast launch of new services.

The aim of Core, network configuration planning system implemented at Polkomtel, is to manage telecom network elements configuration, supervise the process of planning configuration changes, as well to support the input of these changes to

network elements. Configuration status audits allow the system to monitor frequent modifications of network elements and reduce the duration of work, at the same time bringing the costs down considerably. The system operation results in a network configuration which is optimal for the operator. Full control over configuration changes allows to sidestep problems issuing from a lack of coordination in the planning work or incoherent configuration of the whole network. In the system are stored all data about changes, both made and planned. The carrier never loses control over the status of work and has permanent access to homogenous information about present network configuration. Furthermore, the system allows the operator to view previous configuration statuses and to quickly identify the authors of changes made.



Extension

As a result of such successful cooperation between Suntech and Polkomtel the implementation was extended and included also ISDN and SS7 network planning and analysis system.

'Polkomtel's decision to further cooperate with Suntech proves that the system implemented meets the firm's requirements and the implementation itself was flawless. I am sure that this time too our system is the best choice', says Piotr Saczuk.

The new system allows switching and signaling network analysis, extension planning and dimensioning. Its task is to detect and locate network elements likely to be overloaded due to increased traffic, as well as to eliminate failures through optimal network dimensioning and forecast network operation after failure of a chosen device.



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