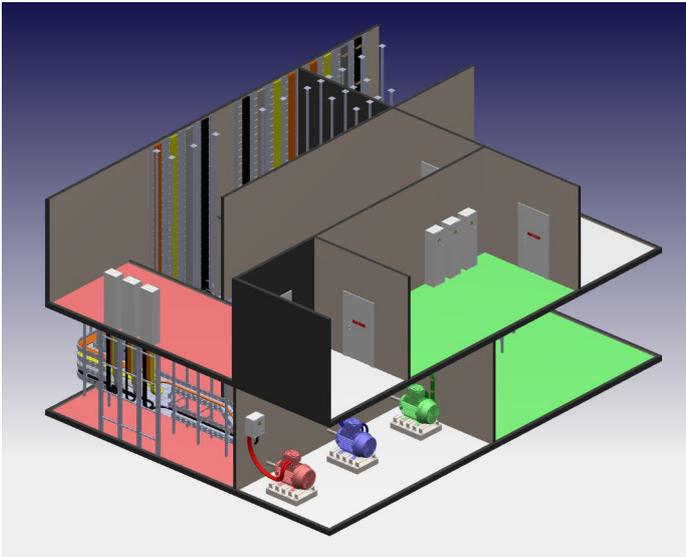


# Cabling Management System SSK

One of the important and simultaneously critical parts of complicated technological units is a cabling system which serves as energy and information connection of individual equipment. The cabling system in general terms involves not only the actual cables, but also building and construction elements designed for laying the cables and also terminals defining the cable termination and connection points. There is information particularly in existing technological units on cabling system elements found in and scattered around various types of traditional or digital documents (drawings, diagrams, tables, ...) usually specified by a planning and supplier organization.

Objective safeguarding and establishing observance of requirements of norms and regulations, performing the management and maintenance of the cabling system and control of its modification and modernization



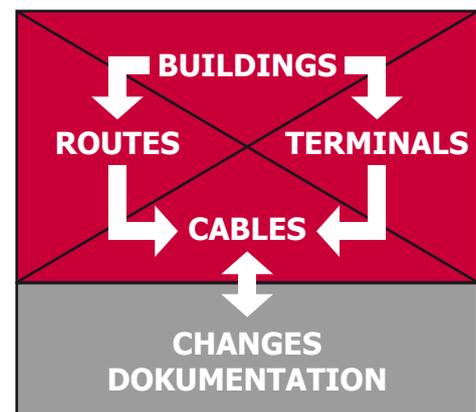
in this situation is impossible or requires considerable means and effort. Moreover the problems of safeguarding and observance of the requirements of norms and regulations with regard to specific technological units, (nuclear energy, chemical industry and the like) poses considerable security and environmental risks. The reason for this situation is the absence of appropriate tools providing support for the entire life cycle of cabling system elements, i.e. support from the design stage to realization and maintenance right across to the end of service life. The planning tools used are not basically appropriate for the management of information on elements of extensive cabling systems and existing specialized software providing support merely to a certain stage of the life cycle.

The Cabling Management System offers a solution and its main benefits are:

- support for the entire life cycle of the cabling system from the planning phase right across to the end of the service life,
- centralised management of all information on the cabling system elements,
- safeguarding and establishing technical and legislative principles during the design and operation of the cabling system,
- optimising the design and modification of the cabling system,
- cost savings during the planning, realisation and management of cabling systems,
- safeguarding the quality of the cabling system management processes in accordance with quality management system requirements.

## SYSTEM STRUCTURE

The cabling management system enables a detailed and consistent description of the cabling system which is a necessary condition of the successful and effective realisation of its design and modification. The structure of the system is built on four basic pillars – a description of buildings defining the layout of the cabling system (buildings), a description of the building and construction elements defining the places where the cables are laid (routes), description of terminals defining the cable termination and connection points (terminals) and a description of the actual cables (cables).



## SUPPORT OF DESIGN, CONSTRUCTION AND OPERATION OF CABLING SYSTEMS

### Designing and modifying cabling system elements

The focal point of the design support is automated tools enabling optimum cable routing. The automatic routing enables the design of optimal and suboptimal (alternative) routes of new cables and route layout of the existing cables (reconstruction of incompletely entered cable routes) while taking into account all building and technical restrictions (overfill, overload, ...) as well as normative principles (separation, segregation, ...) and empiric principles (directness of the laid cables, ...) designing and realising the cabling.

### Tracking and managing lifecycle of cables

An important part of the system is the tools for monitoring and controlling changes in critical parts of the cabling system (cables).

Monitoring changes takes place through version management and enables a detailed record of all changes made and reconstruction of the state of the system at any time at random. The version management is also used for automatic generation of controlled documentation.

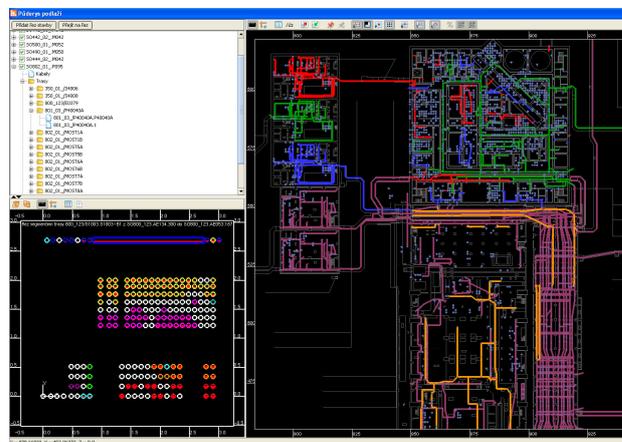
Change management is implemented in the system as support of the process of entering, approving and realising of changes (workflow).

### Inspecting and evaluating cabling system

The centralisation of all information about the cabling system creates room for various methods of its evaluation. An example of part of the standard evaluations implemented in the system is a file of inspections safeguarding, or establishing observance of technical and legislative principles during the design and realisation of the cabling system. The open concept of the system enables the modification and completion of specific inspections and evaluations according to the areas of system adjustment.

## SYSTEM FEATURES

- well arranged graphic user interface (GUI) and intuitive control,
- current work in more independent modules; support of context driven transitions between modules and modules and graphics,
- easy adjustment when applying the system in various areas,
- extensibility and customization possibilities – user-defined attributes, lifecycle and workflows, evaluations, reports, ...,
- data exchange with other systems using standard interfaces.



## SYSTEM ARCHITECTURE

The cabling management system is a client – server type application designed to operate in a network environment with more than one user being able to work simultaneously.

The server part is operational in the Oracle Database 10g and higher which provides maximum system security, reliability and performance. The database system acts like a central data repository and a tool for the definition and implementation of data consistency rules and application logic.

The client part is represented by a graphic user interface (GUI) and enables the end user access to the data and functions of the system. The client part is operational on personal computers equipped by the Microsoft Windows operating systems.

### Contact

In case you are interested in the Cabling management system SSK contact the sales department or visit our WEB site