BaSYS
ADVANCED NETWORK INFORMATION SYSTEM

CABLE

Digitalisation at the speed of light

PROCESSING

Recording, editing and administration of geometry and object data

DOCUMENTATION

Complete documentation of fibre optics, broadband and copper networks

OUTPUT

Plan and report output of the network structure and cable assignment

PLANNING

Graphical planning of routes, cables, fibre optics and empty conduits

NETWORK MANAGEMENT FOR CABLE AND FIBRE OPTICS

The development of area-wide high-speed fibre optics networks is being driven by local operators and energy suppliers today. This increases the demand for planning new routes and for complete documentation of the media and routes in GIS. BaSYS offers comprehensive tools for infrastructure planning and the management of cable and fibre optics networks. Central data management supports communication with other divisions, for example to utilise an economical alternative for cable installation in the sewer.

Software for infrastructure and water management

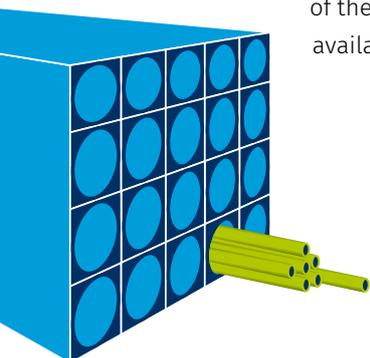**BARTHAUER**

AREAS OF APPLICATION

- Consistent administration of local, connecting and regional networks
- Media including fibre optics, copper, coaxial and hybrid network cable
- Communication, control, signal and data cables as well as empty conduits
- Above and below-ground cable routeing, also in the sewer
- Meshed and hierarchical structures as well as all mixed forms

DATA COLLECTION AND PLANNING

- Automated transfer of existing network portfolios via freely definable interfaces or graphics import
- Expansion of the cable and fibre optics networks through planning functions to generate additional alignment sections
- Templates for automated data capture through access to integrated technical libraries within planning
- Definition of cable routeing under consideration of the current cable utilisation and network topology
- Access to the wastewater division for the economical installation of fibre optics cable in existing sewers
- Planning and data collection for the cable elements and nodes down to any desired level of detail, including connecting networks for residential connections

DATABASE

Central data management for all cable and fibre optics installations in forms with a clear layout. The elements of a route are structured in hierarchical levels that permit the cable/line objects to be represented in various degrees of detail. Data can be output in additional standard formats such as Excel, ASCII, Shape or DWG/DXF at the push of a button with the freely definable export function. All attributes of the cable and fibre optics elements are available for export.

All detailed information can be recorded and edited for each individual element of an alignment section with cable runs and cables.

VISUALISATION

- Visualisation and editing in the leading GIS and CAD systems
- Flexible, adaptable representation models according to practical requirements
- Graphical representation of route utilisation
- Integration of the object data forms for route elements and broadband systems

BENEFITS AND ADVANTAGES

All network-related information is maintained in a central DBMS, where it is available for all user groups in various fields of responsibility. Costly data transfers are therefore eliminated. Security is also improved through central data storage.

BARTHAUER MULTI-PLATFORM CONCEPT

Thanks to the multi-platform concept that is unique in the world, the data are available in other BaSYS modules. Powerful tools can therefore be used for output, queries and

INDIVIDUALSOLUTIONS

Complex tasks demand unique solutions. We work with you to develop a concept in order to adapt our products to your individual needs for efficient application. The BARTHAUER consulting team offers advice, training and support from the first meeting to smooth operation in your company.

reports. Direct access to the cable data is also possible in the BaSYS software products for operation management, maintenance management and asset valuation.

TARGET GROUPS

- Service providers: engineering offices, data service providers
- Users: municipal utilities, municipalities, energy suppliers, network operators

Member of
BARTHAUER GROUP