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Fixed networks (fibreoptic-, Backbone- and access networks),
HFC (Hybrid Fibre Coaxial)- networks
and other telecommunications and data networks

Performance spectrum:

1. Feasibility studies for routes

1. General planning of the route course (e.g. scale 1:25.000)
2. Local route documentation with determination of general performance and material amounts
3. Analysis and evaluation of problematic trench sections and points of concentration
4. Preparation of a conclusive reports with extensive documentation

2. Feasibility studies for locations (PoP's, POI's, ISP's, Telehouses or other TK-rooms)

1. Evaluation of fact documentation of rooms and buildings
2. Comparison of the network operator's specific requirements with the actual building condition and general preparation of the necessary rebuilding or expansion measures
3. Evaluation of conditions imposed by the building authorities and conclusions
4. General cost assumption of all individual construction segments
5. Analysis report and concluding statement to the usage of the actual object (Technical building equipment)

3. Network analysis

1. Evaluation of fact documentation of cable protection ducts networks, cable channel facilities networks, light wave technology networks, CATV- and Twisted Pair- networks as well as other data and control facilities
2. Possibly necessary metrologic investigation of the network elements
3. Statements to the usage of existing media for specific appliances of telecommunications
4. Complex documentation of building structures and apartment units as basis for the planning of HFC- networks

4. Market studies

1. Evaluation of complex data bases with regard to industry sectors, company sizes, residential areas and other parameters
2. Density and cost analysis on the basis of geo-referenced systems
3. Determination of general network structures (e.g. fibreoptic City- Rings)

5. Network planning

1. Clustering of construction areas in HFC- technique, based on the building and living unit structure
2. Electric planning of HFC- components on the basis of software-tools (KNP- Cable Net Plan or AND), including low voltage power supply
3. Planning the fibre distribution of fibreoptic-networks with preparation of splice plans
4. Cable channel facilities and cable protection duct planning based on the rules and regulations of the German communications building regulations

6. Route and approval planning

1. Planning cable and cable protection duct routes, based on the network planning (scale 1:500 or 1:1.000)
2. Handing in documentation for approval according to TKG § 50ff (§50 of the German telecommunication law) at bearers of public matters and accompaniment until building permission is obtained
3. Negotiations and conclusion of license agreements and permissions when using private property
4. Preparation and update of special engineering difficulties lists with non-standard buildings as well as preparation of the extensive documentation for approval (e.g. buildings near railroad crossings)

7. Facility measurement and documentation

1. Preparation of digital planning documents (digitalisation and adaptation to the requirements of the built facility)
2. GIS-supported measuring of laid duct systems and selected points
3. Documentation of the built-in parts and their electrical parameters (e.g. adjustment level recorders)

8. Project management

1. Construction supervision of all segments, including necessary qualifications (e.g. BAU-STE of DB AG)
2. Documentation of the finished construction