

NET Design is the software solution for **highly automated structural and high-level planning of FTTx networks**. Based on freely configurable planning rules and mathematical optimization algorithms, cost-optimized network structures are

calculated for FTTH, FTTB, and FTTC networks. The high degree of automation accelerates the planning process and ensures consistently high-quality results, while allowing planners to manually intervene in the planning process at any time.

Selected Features and Workflows

Features

- **Planning Data & Import:** Automated import and preparation of basic planning data as well as integration of topographic maps, ALKIS data, and WMS services.
- **Planning Rules:** Flexible definition of network and material concepts, costs, cluster sizes, and other planning specifications.
- **Data Qualification:** Validation, supplementation, and preparation of input data to reduce planning errors.
- **Automated Structural Planning:** Mathematically optimized calculation of network structures, locations, network segments, routes, and ducts.
- **Planning Editing:** Manual adjustment and qualification of automatically generated planning results.
- **Materials & Costs:** Automatic bills of materials and calculated costs for comparing different planning scenarios.
- **Output & Further Processing:** Transfer of structural planning data to NET Engineering as well as creation of customized plot outputs.
- **GIS-NB Requirements:** Export of planning data in accordance with GIS-NB requirements for supported phases and versions.

Technical Information

Licensing Model

- **Concurrent User Licenses:** Annual licensing based on the number of simultaneously active users.
- **Additional Licenses:** Required third-party licenses can be added separately.

Support

- **Telephone hotline:** Mon–Fri, 07:00–17:00 (local time)
- **Ticket system:** 24/7 submission, processing during business hours
- **Available separately:** Extended support, individual project assistance, and custom software modifications

Installation Options

- On-premises or as a hosted seat

Requirements

- **Client:** AutoCAD Map 3D license
- **Database:** Oracle or PGP
- **Optimizer:** Appropriate license for the optimizer used, from Comsof Fiber or atesio
- **Area License:** Area licenses or area points are required for network calculations and subsequent transfer to detailed planning or export in accordance with GIS-NB requirements.

Combination Products



The structural planning created with NET Design can be **automatically transferred to detailed planning in NET Engineering**. This allows the high-level planning to serve as the basis for detailed planning and subsequent network documentation without having to recreate the data.



In combination with **NET Cloud**, the required planning data can be digitally captured and qualified directly during field surveys. This includes, for example, information on **addresses, locations, and route surfaces**. The field data can then be transferred back into the NET Design project and used as the basis for structural planning.



NET Design supports exports in accordance with **GIS requirements (GIS-NB)**. Depending on the GIS-NB version and process phase, data such as deployment areas, planned routes, ducts, and technical sites can be exported as Shape or GeoJSON data for funding procedures.

Please contact us for further information.

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