

Life cycle software solutions for planning, documentation, and operational support of access networks

Planning civil works

Major investments in broadband networks, both on a communal as well as on a national level, have brought civil works planning into focus. In many cases it's not possible to use existing infrastructure meaning new trenches will be required. These will then be later populated with ducts, ducts in ducts, microducts, etc. for the later insertion of cables and fibres.

Planners require a design and documentation solution providing a high level of functionality that is both efficient and practical. Out on the network the construction crews will want detailed and accurate plans in a manner that's both accessible and easily understood. Furthermore, after receiving corrections from the field, the planners must be able to make necessary trench position realignments, without having to redraw everything including ducts, cables, etc.

AND provides the ideal fully integrated civil works solution.

Preplanning with AND WebSolution

Preplanning and optimisation solutions have become an essential part of FTTH network design. AND WebSolution is our new web-based tool that is both flexible and easy to use, even for unskilled planners. Possible network components can be added, modified, and deleted. Configurations can also be changed without the need to involve the vendor. No license is required nor any installation; the user sets up an account and can start pre-planning right away.

Using available Open Street Maps an area is selected and within a couple of minutes the network proposal including bill of material is ready. Results can be provided to AND SystemSolution, where a detailed network plan is generated according to the AND data model (trenches, cabinets, manholes, etc.) allowing the AND user to seamlessly begin the fine planning phase.

FTTH planning to the apartment in brownfield areas

When it comes to network design for apartment buildings AND provides comprehensive support from the initial concept, walkout survey, fine-design, technician support, right through to the as-build documentation. Over the years we have gathered considerable experience with many millions of network-to-the-apartment planned and documented in Europe, Middle East, India, etc., as part of FTTH, HFC, and SMATV networks.

The data capture walkout for brown-field projects in urban surroundings can play a particularly important role. Here data can be collected providing invaluable information for the fine-planning stage – building entry point, patch panel, riser placement, splitter location on upper floors, etc.

In addition, planners can show apartment building owners/management the work that is to be done. This way they can gain confidence in the process knowing the work that is going to take place in their building.

Photos taken during the walkout, which are automatically linked to the AND network plans, can show the building interior prior to the begin of construction work. Photos taken later, i.e. after the project has been completed, can be used not only as documentation, but also for any necessary comparisons. These may well help reduce possible arguments about the "state of the building" following construction completion; perhaps a minor but often important issue.

Looking forward to seeing you at our stand 8/B54