



ROBOTIC MEASURING SOLUTION FOR STREET CABINETS - RMS



TKF CONNECTIVITY SOLUTIONS

SPEED UP AND INCREASE THE RELIABILITY OF OTDR COMMISSIONING FOR FIBRE OPTIC NETWORKS

In Europe, 183 million homes have the possibility to access a fibre optic network. In the coming years, the same number of connections will have to be deployed to achieve a full coverage of the population. Currently, all optical measurements are done manually.

In a context of fast FTTH networks roll-out, it is essential to ensure the quality and durability of these new infrastructures. Monitoring and characterization of optical links is therefore an essential prerequisite and a major challenge.

The areas addressed from a POP or from a street cabinet that make up the territorial grid allow fibre access for everyone. Therefore, these are particularly dense in terms of optical links. In fact, a street cabinet contains between 250 and up several thousand connections. These concentration nodes are the flexibility points allowing the quality of the network to be measured up to the subscriber. So today, it takes at least two full days to check all these connections, and all of the OTDR measurements are done manually.

Because manual tests are expensive and sometimes disputable, TKF Telecom has developed a SMART solution offering significant time savings: the Robotic Measuring solution. This solution allows fully automated neutral measurements of fibre optic networks.



ACE+ RMS: AN EMBEDDED SYSTEM FOR TURNKEY SERVICE

RMS is an automated solution that allows the quality of FTTH deployments to be tested and monitored by using reflectometry. These measurements rely on the operator's own input data from its information and engineering management system. RMS compares these data with the actual situation in the field.

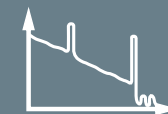
What the ACE+ RMS solution provides:

- All the measurement files in SOR format
- Detailed commissioning report in Excel format
- A measurement report in summary form

RMS integrates the network data contained in the operator network design system and imports them into its own database.

Then the patching robot cabled to mirror the street cabinet, moves from port to port. At each position, an OTDR measurement is performed. The results are compared to the input theoretical reference values.

Finally, the system generates a detailed commissioning report for each link, as well as a summary report allowing all the optical links from the cabinet to be validated.



Input benchmarks (ROP)

RMS database

Automated patching

OTDR optical measurements/ Comparisons to the benchmarks

Measurement reports/ output data

ACE+RMS: THE SOLUTION FOR SECURING YOUR DEPLOYMENTS

TFK offers the RMS solution as a service, to guarantee 100% reliability of future FTTH networks. This complete system in the hands of our expert technicians offers:



Productivity

RMS drastically reduces the time for making measurements. The commissioning is no longer a bottleneck for new homes passed.



Reliability

The automation guarantees the repeatability of the measurements, and any operating error is avoided.



Processing/Analysis

Post-processing of the measurement results is automated and available immediately. The system instantly offers a 1st level analysis allowing decision-making.



Homogeneity/Neutrality

The RMS solution guarantees a single format for results. With this service, TKF acts as a trusted third party for all stakeholders in controlling the network: the integrator/ installer, operator and delegating authorities.



Storage

Backup of the results in the TKF cloud and availability on D+2.



MEET THE **TKH GROUP** AND ITS **CORE TECHNOLOGIES**

TKH Group NV (TKH) is an internationally operating group of companies specialized in creating and supplying innovative Telecom, Building and Industrial Solutions. All TKH technologies are interlinked into total solutions for these three business segments.



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