

We are a mid sized enterprise established in 1990:

Our founders are electric engineers, former colleagues at esteemed MMG Automatika. Our group of companies employs around 230 people by now, half of them are engineers. Owners are the founders and the management.



1. Figure - Prolan work station

We develop proprietary hardware and software products:

The products of Prolan (1. Figure - Prolan work station) are developed and manufactured in house. This is a corner stone of the success for the past years and a key point of our strategy. We have significant experience both in developing safety critical unique systems and mass production of devices.



2. Figure - Prolan system

Our systems and references:

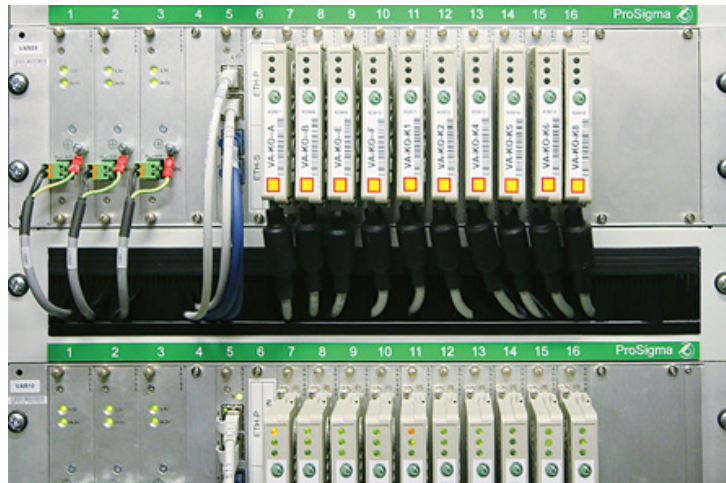
Our systems (2. Figure - Prolan system) and references are to be found in Hungary at all railway companies as well as at electric utilities, gas and oil industry, waterworks and even in the nuclear power plant in Paks. We keep delivering our products to utilities in Germany and have various references in Eastern Europe too.

Technology

Interlocking System Extension for CTC (Centralized traffic control): ProSigma

In the field of railway interlocking systems copper-based, long distance connections exist between relay switches and remote equipment. In the case of constructing a new system, the state-of-the-art solution is to apply signal transmission based on GSM or fibre-optic communication. Since our company has gained a wealth of experience in Safety Integrity Level 4 (SIL4) certified safety systems whilst developing relay based railway safety equipment, we took it upon ourselves to design and create a Safety Signal Transmitter (SST).

Our equipment called ProSigma (3. Figure - ProSigma) provides fail-safe signal transmission ensuring the availability of SIL4 using GSM or fibre optic communication. The project is funded by the European Union and the European Regional Development Fund.

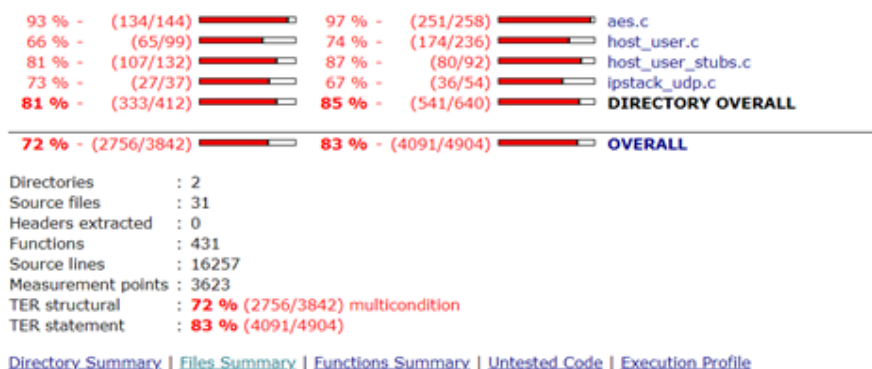


3. Figure - ProSigma

ProSigma's software is very complex and it has to meet the EN50126, EN50128, EN50129, EN50159 standards. We need to run requirement tests and unit tests, to reach this goal. So we looked for a compiler independent code coverage tool, which can handle numerous source code and can give information about source code's MCDC coverage.

Testwell CTC++ performs this conditions, and it is a certificated tool (it is a very important aspect in the safety software developing and testing), so we chose it.

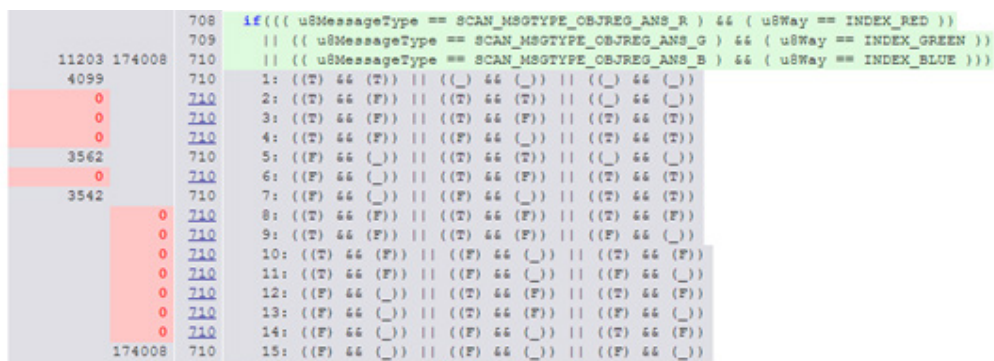
We run it several times, numerous source codes. The result is a very informative HTML pages (4. Figure - HTML output of Testwell CTC++) every time and it can be grouped according to different aspects.



4. Figure - HTML output of Testwell CTC++

Testwell CTC++

If we choose a source file then we can get information about the code coverage very easily (5. Figure - MCDC coverage).



5. Figure - MCDC coverage

In conclusion, Testwell CTC++ is an easy-to-use tool, informative and has certification.



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