



Benefits

- Improve connectivity
- Reduce travelling costs for maintenance
- Challenge long distance communication

Remote maintenance of gas turbine thanks to eWON router and Talk2M

The time when service technicians had to travel through the dark of night and inclement weather to put stuck systems back into operation appears to be gone for good. The keyword nowadays is « connectivity ». The most important objective of connectivity is carrying out remote maintenance.

William van den Akker, system integrator at Liberty Control Systems (an affiliate of Liberty Gasturbine Holland in Putten, the Netherlands) knows all about this from personal experience. The machines produced by the company are fairly special. They go by the name « Steamexfire », which means « steam extinguishes fire », and the Steamexfire units are indeed fire extinguishing units. The heart of each unit is a jet fighter turbine that can produce enormous quantities of oxygen-free steam. This steam can be used to put out fires in large enclosed spaces, such as coal mines and tunnels.

A mining company in the Ukraine purchased two more Steamexfire units last December. Due to the long distance between Putten and the Ukraine (2500 km), Liberty Control System outfitted the extinguishing units with eWON 2101 Internet routers.

Talk2M: Helping the maintenance department

William van den Akker explained: « The mine in the Ukraine produces a lot of methane, so there is a considerable risk of explosion. The Steamexfire units there are constantly available and have been used several times already. We have a link to the machines from Putten because we have connected the PLCs there to eWON 2101 routers.

We receive a text message here via GPRS each time the machine starts or stops. We can also upload data log files. For this we use Talk2M, a free Internet service from eWON. We also use this service to implement software updates from our site here. However, the most important aspect is of course remote maintenance.

Now we can see whether there is a cable problem or a sensor is dirty or simply defective. With this information, we can tell the maintenance department on site what to do.»

“ I wanted something that was guaranteed to work, and we arrived at this choice after studying what was available and practical testing ”

Customer: Liberty Control System
Country: Netherlands
Sector: Fire fighting
Solution: eWON 2101



William van den Akker, system integrator at Liberty Control Systems, with an new panel equipped with a Vipa PLC and eWON 2101 router



The heart of each Steamexfire is a jet fighter turbine producing enormous quantities of oxygen-free steam. This steam can be used to put out fires in large enclosed spaces

GPRS communication

Are there any other machines where you use eWON routers? William van den Akker: « We supply systems to surrounding countries such as Belgium and Germany, and we are presently developing a controller for a generator set for South Africa. This is a two-megawatt gas turbine that will be used in a recycling company.

This gas turbine will also be equipped with an eWON 2101 router, which again makes GPRS communication an excellent choice. All of the gas turbine systems that we build now are fitted with eWON routers. The reason for this is actually quite simple: our machines are always mobile, and they are used in the most unlikely places. For this reason, I wanted something that was guaranteed to work, and we arrived at this choice after studying what was available and practical testing.»

Conclusion

The company's machines operate all over the world, and in order to ensure that they can be accessed from company headquarters in a village in the Veluwe region of the Netherlands, he combines PLC controllers with eWON industrial Internet routers. The major advantages of eWON are ease of use, security, infrastructure independence and low cost.

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