

# **Application is measuring the “Virtual emissions”**

## **How to avoid next Diesel Gate scandal?**

Peter Lacher team made some extra money last year. The company is happy and the customer is doing great.

## **German automotive producer with luxury cars**

Peter is a Service Delivery Manager (SDM). He takes care to deliver everything what customer ordered, in requested quality, amount and time. As he is saying, the work load is great, but people in his team at Application Operation are handling it all well. Maybe they are inspired by their customer who is famous with its German quality.

The customer is keeping his original production lines as one of few. Some components are ordered from external suppliers (for example one company in Košice) but the assembly lines are working in Germany. Peter Lacher visited one of the plants. Daily it is visited by 100 to 150 visitors who are coming with TAXI, leaving on their new car. This brand still has a big respect. The surprising fact is that the most customers of this company are from Asia, China, South Korea, or some Arabian country.

## **DOC and PRINT**

In case you would be selling one car a day, it is no problem to print all needed papers. But if you are selling hundreds of luxurious cars a month, you need to get the proper documentation with each car, you need a system. This is assured by an application from T-Systems Slovakia. It has two

parts DOC and PRINT. It handles each car and prepares the proper certificates, contracts, everything. The customer is editing the content and visuals, but he has no admin rights. We are interfering the system if needed, as a provider of this service.

The customer needed more processing power. From three servers they went to fifteen ones. So the profits went higher as well. The whole thing was started by the famous „Diesel gate“ scandal. What was the Diesel gate scandal about? Just remind ourselves – the emission certificates of Volkswagen were not totally „cosher“. Even other companies felt the pressures from outside with regards to the certificates correctness, they needed to make a step forward.



## **Diesel gate scandal – how to avoid it?**

The new app should simulate car drive and it measures CO values. So called virtual emissions. These data are strictly protected, saved in the special database, nobody has the access to that. This system will deliver true information regarding the emissions. it can simultaneously simulate several drives at once. The integration environment has been finished and production will be released in first half of 2018. It will be tested for several months. The deadline is in

year 2019, in that time special German Inspection Office needs to check the data. This application has been developed in cooperation with Microsoft company, which has provided application components.

How is it possible to measure virtual emissions? It needs to collect a lot of real data, based on what the virtual ones are simulated. The real data are for example the age of car, motor type, what fuel, ...

## **The man checks the quality, the robot handles the rest**

And now couple of facts from the production line. The production of one luxurious car takes four days, starting from sheets cutting, ending with the quality check. The welding job is handled by robots. They have a special welding hall with no windows. The robots are not getting tired, they have no sick days, they do not mind the fumes, the smells. In this way company was able to keep the costs down. The robot can lift the desk of 150 kilos as the feather.

regarding the final touch – this is the stage where men are needed. Higher sensitiviti is required.

And why such a high class expensive car is sold so well? The answer is quality. Ten or more years old cars are still running like new ones. As Peter said: „Guys in operation say that if their car has 5000 thousand km behind, it is only starting. Some types of these vehicles have the life guarantee.”