



NSA Espionage Now In a Tractor?

STW Technic, a premier manufacturer of mobile controllers and measurement technology, demonstrates state of the art data networking and telematics in off-highway vehicles with an exhibition model.

NORCROSS, Ga. - Dec. 15, 2013 - [PRLog](#) -- STW Technic, a premier manufacturer of mobile controllers and measurement technology, demonstrates state of the art data networking in off-highway vehicles with an exhibition model.

Is there NSA espionage now even in the tractor? No! At least it hasn't been discovered yet! STW presented the "data octopus" at Agritechnica to show how networked data systems are implemented in modern off-highway vehicles and mobile machines.

The pneumatically actuated model, with sensors on the tentacles, demonstrates how data is collected, stored and made available to the primary "brain" in the head. It is there that the data is processed and distributed, but unlike the NSA, with everybody's knowledge!

STW demonstrates a variety of data sources in this model: orientation and acceleration sensors, pressure, temperature and position sensors, as well as a keyboard, a joystick and an operator display. The components are integrated so that the information is passed to a central control unit. It is there that the received data is processed and used to control the arms of the data octopus through 24 pneumatic cylinders. At the same time data is sent over the 3G mobile phone network to the Internet. The integrated GPS/GLOSNASS receiver, Wireless LAN, Ethernet, Bluetooth, CAN and USB interfaces ensure that this leviathan earns his name the "data octopus".

With such a system, manufacturers of industrial vehicles and mobile machines have the capability to offer a transparent, flexible and powerful centralised data system. For the end user, this means that with a single system, he or she can monitor and document the vehicle performance, optimising field operations from home and the office. Machines can deliver every imaginable type of information. When desired, thanks to the single source, all relevant data can be made available anywhere in the world.

STW showed the friendly, useful side of the data octopus at Agritechnica with excellent reviews. Similarities with the NSA affair are a coincidence, but unavoidable!

STW is an award-winning provider of a full spectrum of freely programmable controllers, I/O modules, pressure sensors and telematics to a wide range of industries such as mining, construction, agriculture and oil and gas. STW controllers, I/O modules and Telematics units (<http://www.stw-technic.com/products/teleservice/>) have attained a leading role in these industries due to their rigorous testing, high quality German engineering and unmatched flexibility. All of STW's products are mobile off-highway rated. STW (www.stw-technic.com) is also in the forefront of developing and prototyping hybrid drive technologies – generators and motors – for mobile applications.

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