Wind, rain, tornadoes, lightning strikes, storms - at STW, we know the conditions under which your vehicles and installations have to work. The locations are remote, the cost of failure is high and the time and money needed to replace critical components are exorbitant.

Rigorous environmental testing, German engineering and unmatched flexibility drive widespread use of STW controllers, sensors and peripherals in the mobile oil and gas well service industry. Our projects have involved designing both software and hardware for well-stimulation equipment, drill rigs, nitrogen and fluid pumpers and other oil and gas equipment.
HIGH RELIABILITY
STW's freely programmable controllers are renowned for their ability to withstand vibration, shock, temperature extremes and precipitation. With 30 years of experience in design and manufacturing of robust electronics, STW is recognized as having the most reliable hardware in the industry.

UNMATCHED QUALITY
Quality control is a hallmark of German engineering and manufacturing and highly valued in the multiple vehicle applications that are found in the well service industry. STW conducts full functional testing of every single device it manufactures unlike many other companies who conduct testing on a limited sample. The tests consist of automated optical inspection, a full in-circuit test and complete functional testing done at normal temperatures and then again in climate chambers at temperature extremes (-40°C and +85 °C).

SAFETY
We understand that safety at well servicing sites is of paramount importance. Our products are built to the highest safety standards. STW is a leader in meeting the rigorous hardware and software requirements for Safety Integrity Level (SIL) 2 based on the IEC61508 standard.

DESIGN FLEXIBILITY
The ESX-3Xx family of controllers (with 4 CAN/ J1939 ports and up to 128 I/O) comes in two different models with slots for three or six expansion boards respectively. With over 15 different expansion boards to choose from with a variety of configurations of analog and digital I/O and communication interfaces, the flexibility for configuration is almost unlimited. All of this is available as standard, off-the-shelf product that can function as the main vehicle controller, or as remote I/O modules on a CAN network.

PROGRAMMING FLEXIBILITY
STW controllers are also very flexible in terms of software. They can be programmed in CoDeSys or C, and have Matlab/Simulink support for model-based development. A full-featured set of development tools and testing hardware is available.

NETWORKING AND TELEMATICS
An exciting and high impact area for controls engineering in well servicing is networking and telematics. With STW controllers, local area networking can be accomplished by the addition of an expansion board that provides Ethernet and USB networking as well as additional CAN and serial ports. Moreover, this expansion board provides a PowerPC processor with over a GB of memory and a Linux O/S to allow user applications to take full advantage of powerful Linux tools and software components. A full application framework for employing these tools is provided with the Linux system.

REMOTE NETWORKING
If remote networking, monitoring, data logging or diagnostics are needed, then STW offers a powerful telematics controller, the ESX-TC3, which in addition to the capabilities outlined above, includes communications modems for GPS, GSM/ GPRS and WLAN or Bluetooth.

WE SELL DIRECTLY TO OUR CUSTOMERS AND MAKE A BIG EFFORT TO EXACTLY UNDERSTAND THEIR NEEDS. WE ARE ALWAYS LOOKING FOR WHERE THE INDUSTRY IS MOVING AND HOW WE CAN HELP OUR CUSTOMERS GET AHEAD

Bob Geiger, President, STW

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