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AGRITECHNICA 2019

*ELECTRONICS IN MOTION*

Designing, Manufacturing & Operating

*FOR A SMART MOBILITY*

Connected, Sustainable, Safe & Secure

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#1

## ACTIA: FOR A CONNECTED ON BOARD ARCHITECTURE MANAGING CYBERSECURITY CHALLENGES

Digitalization has rapidly disrupted the agricultural industry. This is good news as we must be prepared to meet the needs of a rising population, keeping in mind environmental concerns. Nevertheless, using technology as a sustainable and scalable resource, agricultural sector also increases dependency towards software and hardware applications and this new level of connectivity inevitably creates vulnerability. « Agroterrorism » threats like hacking, viruses and other thefts, not speaking of intellectual property espionage, are now taken seriously by governments and industries, as cyberattacks would have heavy human and financial consequences. ACTIA has a strong legacy in cybersecurity since 2005, when ACTIA designed highly secured ECU, as a supplier for the defence industry. The subject of cybersecurity is doubled by an Information security aspect and a Product security aspect.

### Cybersecurity in terms of Information

ACTIA was awarded the ISO 27001 certification for its electronic and software production activities.

With ever-increasing threats (cybercrime, international competition, etc.), this certification enables ACTIA to build confidence among its ecosystem: customers, suppliers, employees, partners and other stakeholders. ACTIA offers complete solutions countering cybersecurity risks, protecting assets and information, maintaining the availability and continuity of resources, and complying with information security requirements.

- ISO/IEC 27001 is an international information security standard co-published by the ISO and the IEC. First published in October 2005 and revised in 2013, its title is "Information technology - Security techniques - Information security management systems - Requirements".
- ISO/IEC 27001 describes the definition, implementation, control and improvement of a management system, based on the management of information security risks.

### Cybersecurity in terms of product

While the European automotive community is taking the first steps towards consumers to enhance the safety of connected vehicles (see ACEA's publication, "6 Commandments"), ACTIA was already tackling the issue of the cybersecurity for its products and solutions dedicated to the automotive market.

ACTIA takes an active part in the international group of experts in which the engineering practices to develop cybersecured products are defined. The outcomes of this group of expert are expected in October 2020, it will be used in the international standard for the cybersecurity of connected and autonomous vehicles.

"Technological advances and inter-connectivity between vehicles are already powerfully exploited by the automotive sector. All these new opportunities bear their own risks, entailing profound organisational changes for an equipment manufacturer like ACTIA as a partner of manufacturers from the very beginning. This impacts our development and production practices, our daily work procedures and our conduct in general.

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We have put in place an action plan integrating a continuous improvement program, good internal practices and of course our own information security management system. As part of the ISO/SAE cybersecurity standards group, ACTIA will forecast and meet any requirements of its actual and future customers. There is no doubt that cybersecurity will be one of the compulsory assets of manufacturers in future calls for tender, and ACTIA will be ready for it."

*Jacques KUNEGEL*, ACTIA Product Safety Manager Leader of the Drafting team of the ISO/SAE 21434 standard (Automotive Cybersecurity Engineering)

## **ACTIA telematics solution TGU-R supports a cybersecurity strategy**

Each customer has to undertake a vulnerability analysis to define its cybersecurity strategy (assets identification, threat & impact analysis, etc.).

- TGU-R is delivered in a secured state, the aim is to verify authenticity and integrity of all executable code running on the platform.
- Some interfaces are disabled to stop any possible communication interception or intrusion by hackers.

ACTIA provides a comprehensive cybersecurity manual with the TGU-R, thus helping customers in their cybersecurity strategy.

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## FROM TELEMATICS & DIAGNOSTICS EXPERTISE TO VALUABLE CONNECTED SERVICES

ACTIA is a market leader in electronic diagnostics for automotive manufacturers. In the agricultural market, ACTIA has supplied for several years diagnostics solutions for medium/big –sized tractors OEMs. ACTIA diagnostics solutions are both hardware and software, off the shelves and customized solutions according to different customer needs whether engineering, after-sales or manufacturing. With ACTIA diagnostics solutions, the customer is able to manage and store diagnostics and non-diagnostics data related to the entire life cycle of the vehicle. At the same time, ACTIA becomes a key player in telematics for industrial vehicles. Its range of telematics devices is already implemented in the major heavy vehicle brands. The key success of ACTIA in telematics lies in the expertise in international communication standards and cybersecurity with a strong know-how in onboard electronics architecture and operating services.

Today, the challenge is to perform a part of these diagnostics functions remotely, and at the same time to increase the level of services with limited operating costs.

### Diag4Agri : the ACTIA Diagnostics Solutions for the agricultural world

In partnership with its customers, ACTIA has developed innovative telediagnosics products that combine our strong experience in diagnostics and telematics. By connecting to the onboard telematics device, the diagnostic tool performs remotely all the main diagnostics functions while the vehicle is wire connected in the workshop. DIAG4Agri wipes out geographical limits, reduces the technical assistance time and automatizes the updates and the configuration of the vehicle. This telediagnosics solution can be coupled with ACTIA Fleet4Agri which is a complete services portal.

### ACTIA Fleet 4 Agri for manufacturers and Farmers

ACTIA Fleet4Agri is a stand-alone or a complementary product of telediagnosics. It offers the possibility to gather and process data relevant to OEMs and Farmers.

The application portal for OEMs allows the tracking of the vehicles on the field and the data collection of the vehicle's status, usage, environmental data and any other information about the vehicle while in operation. The data can be displayed in different forms as per the needs of the OEM.

The application portal for Farmer provides the Farmer with several tools and data analysis. These features allow the farmer to plan and structure agricultural processes, to simplify back office management and administrative work, and to help him carry out his cost efficiency analysis.

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## **The advantages of a complete solution for manufacturers in agricultural industry**

The use of a tele-diagnostic solution with a telematics portal is also a real asset for manufacturers as they now can provide many other services to their customers: control of scheduled/in time maintenance, collection of operational data, real time statistical analysis... and thus reduce the after sales costs (technical assistance, maintenance, quality).

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## #ABOUT ACTIA

### An ambition

The ACTIA group specializes in the DESIGN, MANUFACTURE AND OPERATION of electronics for systems management in the automotive, aeronautics, railway, telecommunication networks and energy sectors.

At the heart of today's world, ACTIA is committed to meeting the new challenges of a SMART MOBILITY: CONNECTED, SAFE & SECURE, SUSTAINABLE. This commitment gives meaning to the choices and orientations of all our employees and to everyone within the group.

### A family-owned, intermediate-sized company

The ACTIA group is a FAMILY-OWNED, INTERMEDIATE-SIZED COMPANY with its head office in France. This family aspect plays a vital role in what ACTIA is today and what the group will be tomorrow. It guarantees the group's sustainability and independence, with a constantly renewed entrepreneurial drive.

### An international industrial group

ACTIA's culture draws its richness from the PIONEERING SPIRIT that has driven the Group since its creation and from its INDUSTRIAL IDENTITY. All ACTIA products are designed in the group's design offices and manufactured in its factories according to standards of quality that meet, notably, the requirements of the automotive and aerospace sectors. The ACTIA group is present in some fifteen countries all over the world. This international dimension is an advantage for SUPPORTING OUR CUSTOMERS by specifically addressing their local challenges. It is also a driving force for the performance of the Group's purchasing policy, industrial policy and innovation strategy.

### ACTIA Key figures

- 2019 Consolidated Turnover: €520.4 million.
- More than 3,800 employees worldwide.
- 24 sites in 16 countries.
- 14 to 17 % of turnover invested in R&D each year.

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