

TONI –
TELEMATICS
ON IMPLEMENT

CLAAS

Data for the entire
working unit. Any time.



EASY.
Simply more.



EASY
Efficient Agriculture
Systems by CLAAS.

on board

on field

on track

on farm

Go on. Go easy.

EASY can be broken down into four groups – each a specialisation, together a powerful team.

on board

Machine control and performance optimisation directly from the cab.

on field

Increased productivity directly in the field.

on track

Machine monitoring and remote diagnostics.

on farm

Software solutions for agricultural operations.

The name says it all.

CLAAS has bundled its entire competence in the field of electronics under one name: EASY.

EASY: a new and fitting name for the full range of electronic systems from CLAAS. EASY stands for Efficient Agriculture Systems. From machine configuration and steering systems to software solutions for wide-ranging applications, EASY brings it all together. Harmonised systems are the key to tapping the full potential of your farm and machine.

TONI – TELEMATICS ON IMPLEMENT helps you analyse and optimise your work processes and also allows you to save on service time.



Data must flow.





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Save time and money.

Optimisation where it's needed.

Keeping track of what each machine is doing on the farm at any one time is a challenging task for farm managers. Especially when maximum efficiency is required at all times. Has the optimum speed been selected? Are the right quantities being applied per hectare? Do the machines have enough seeds or fuel? Have the raw materials and nutrient substrates used been precisely documented? Do the machine settings guarantee peak performance?

For perfect results it makes sense to combine the data from the tractor and implements. By analysing the entire working unit, synergy effects can be exploited and maximum efficiency achieved.





Good reasons for TONI.

- Analyse work processes and improve deployment planning
- Optimise operating times for tractor and implements combined
- Make full use of the installed machine capacity, avoid incorrect settings
- Train and motivate drivers, make their job easier
- Document spraying rates and locations on a site-specific basis
- Monitor filling levels and optimise logistics processes
- Save time and costs on maintenance and repair work

Telemetric system for use with any brand.

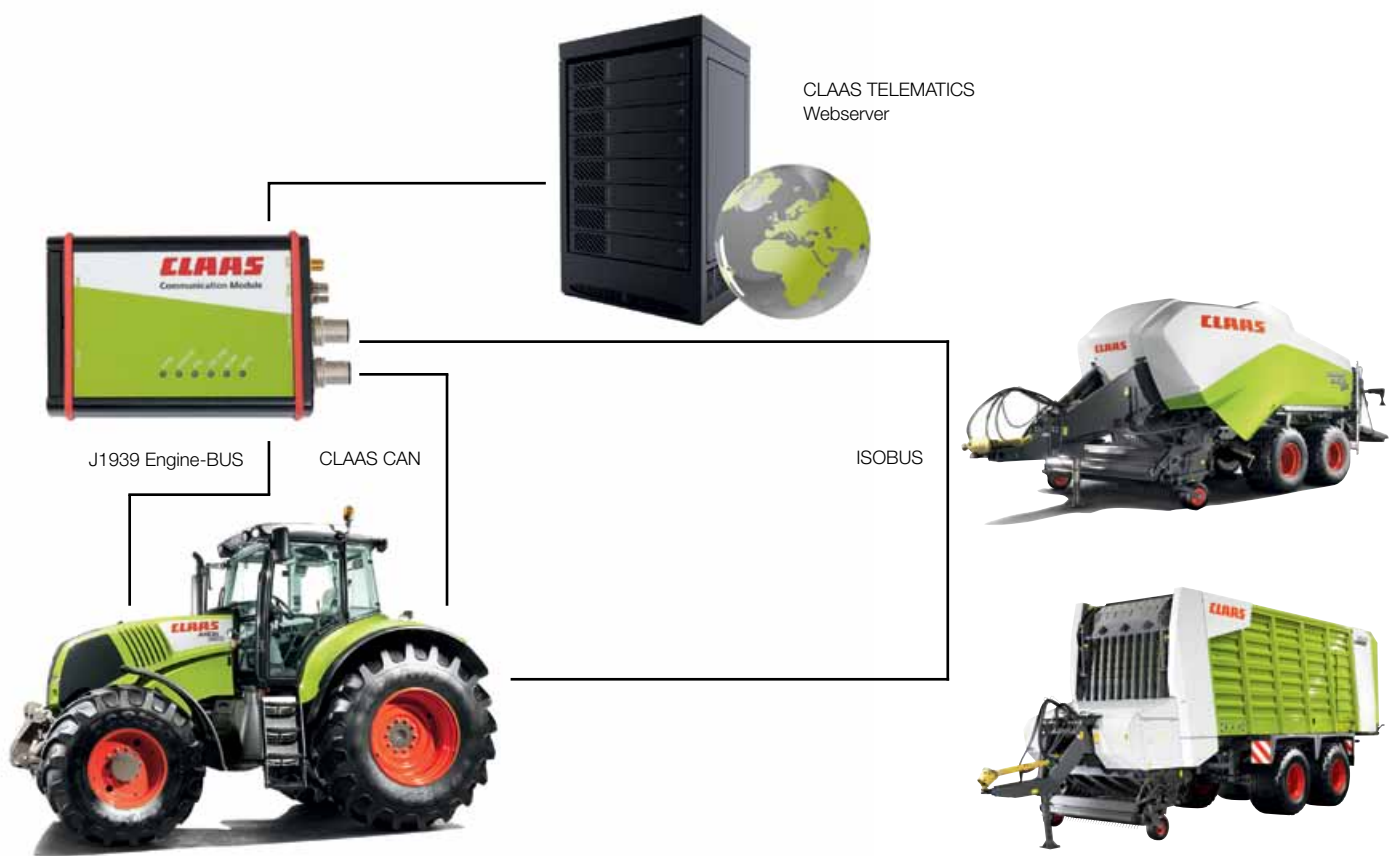
TONI makes it possible for the first time ever to monitor the tractor and implements together via ISOBUS. It's no longer the individual machine that is the point of focus but the tractor and implements as one combined unit. TONI functions on CLAAS tractors AXION and XERION fitted with implements from Amazone, Lemken, Horsch, SGT, Zunhammer and Kaweco. All the data for the entire working unit can be captured directly online, documented for any brand and invoices generated at the same time.

The following data is transmitted:

1. Performance
2. Quantities
3. Positions
4. Machine settings
5. Residual quantities and consumption
6. Operating hours

TONI supports data export to all standard management programmes via ISOXML.

Optimisation
where it's needed



How TONI works.

TONI – TELEMATICS ON IMPLEMENT bundles and speeds up direct data transfer from the tractor and implements to the office via an ISOBUS. The telemetric system provides an overview of the entire working unit (tractor and implements) and allows you to complete all your documentation, evaluation and analyses as well as optimise settings, independent of brand.

With TONI you can call up all the key information about your machines and implements via the Internet at any time from any location. As well as including the current location of the machine, the information stream provides a comprehensive overview of the performance and machine data. Furthermore it is also possible to call up service information or run an initial fault diagnosis.

TONI records data concerning more than 200 different parameters and automatically transmits it to the TONI web server at regular intervals via the mobile phone network. This means that you, or, if you want, an authorised service partner, can access and evaluate the relevant information via the Internet.

The data connection is encrypted and therefore protected against misuse by third parties (128-bit SSL encryption).

Fewer components – more uses.



TONI components.

- Communication module
- GPS aerial
- Memory card
- Mobile telephone SIM card^{1s}

There's no need to equip two machines (tractor and implements) with a telemetric system any more in order to ensure complete documentation. If the tractor and implements are equipped with an ISOBUS, only one system is required - that saves costs and also means that the implements for which there are currently no telemetric solutions can be integrated into the telemetric system.

¹ Not included in scope of delivery

Improve work processes: Operating time analysis.

Get the most out of your machines.

Performance and campaign data for the tractor and implements can be read precisely using the Internet and adjusted in line with one another. The farm manager can track what's going on in the field in real time and if he sees that something needs optimising, he can step in immediately to help - all the performance data are available and provide information about the current performance.

TONI offers the farm manager a tool for analysing and optimising agricultural workflows, for example liquid manure logistics, chopping processes, sowing, seed bed preparation, crop protection and fertiliser and water logistics. Are machines standing idle for too long? Have the wrong settings been selected for the machine implements? TONI recognises and remedies these errors quickly.

Apart from optimising processes directly in this way, TONI also provides the data required to perform more detailed

operational analyses and make improvements. The telemetric system automatically supplies the data required for site-specific documentation of spraying rates. TONI optimises the use of resources and manpower in all areas via ISO-BUS. Thanks to the integrated weighing and measuring devices, for example, the loader wagon can deliver data for green land yield mapping or for logistics optimisation.

And the driver benefits, too.

Whereas in the past status information was sent to the farm manager by phone, data is now transmitted automatically in the background. The driver no longer has to bother with transferring data and so, can concentrate on his core tasks.



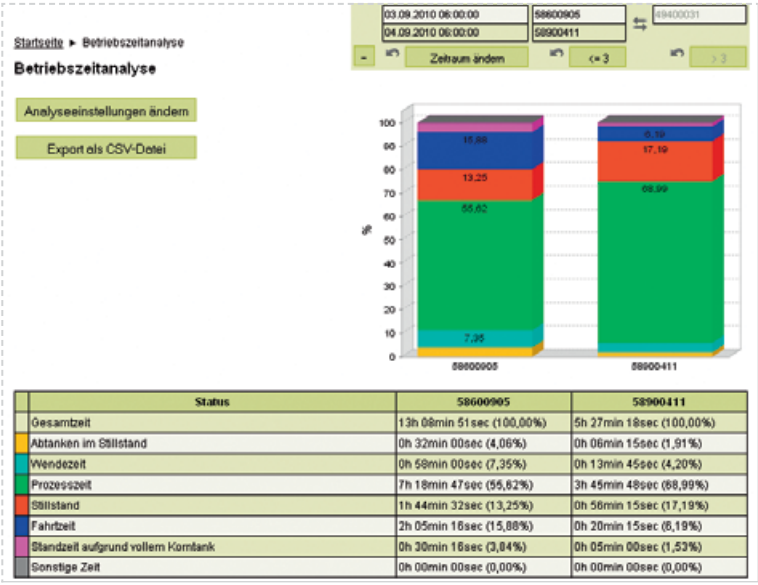
Moisture: 5 %
 Pressure: 180 bar
 Fuel consumption: 0,9 l

Quelle: Auszug aus dem Geobasisdaten der Niedersächsischen Vermessungs- und Katasterverwaltung, © 2005
 GLL LGN

Keep a clear view of things.

The event log is a valuable tool for making differentiated analyses and comparing with reference data. It also helps the user to make the right decisions and select the best processes and settings for future jobs.

- Detailed graphical analysis tools for spraying rates, fuel consumption filling levels and capacity indicators, for example.
- Evaluations can be displayed as tables or graphs.



Data recording: Simplify your documentation. Increase transparency.

Real-time data direct from the field.

Correct documentation of business processes is essential and goes without saying for many farms. Every time a machine is deployed, a lot of data is recorded, either to generate the invoice, optimise operations or comply with other documentation requirements..

Contractors in particular have a keen interest in managing all the specific customer data efficiently. The goal is to document all jobs automatically and ensure simple, fast and accurate invoicing. Rather than only becoming available once the chip card has been read, with TONI the data can be exported to the farm's commuter as soon as the job is completed. Straight from the field without long waiting periods. This makes it possible for invoicing to be performed quickly and very conveniently.





Data preparation.

Sollen die importierten Daten um zusätzliche auftrags- und schlagbezogene Informationen ergänzt werden, so kann die Datenerfassung mit den Bausteinen Auftragsmanagement und Ertragskartierung erweitert werden. Die CLAAS Software AGROCOM MAP, AGROCOM NET und AGROCOM LU stehen hier als Ergänzungen zur Verfügung.

TONI exports data in ISOXML-format which means that it can be imported directly into all popular farm management software solutions.



Convenient means online

Farms and contractors can use TONI to generate their own yield and application maps which can be displayed in graphical form. Data can be automatically exported online to the farm management software, saving valuable time and facilitating site-specific farming.

Data in real time



Partners:



Good reasons for even higher performance with TONI.

- Analyse your work processes and improve your deployment planning and transport logistics
- Optimise the operating time of your tractors and implements combined: AXION and XERION fitted with implements made by Amazone, Lenken, Horsch, SGT, Zunhammer & Kaweco.
- Make full use of the installed machine capacity through performance comparison and optimisation of settings
- Save costs by avoiding incorrect settings
- Train and motivate inexperienced drivers, help to make their job easier
- Direct and easy online data capture for documentation and fast invoicing, independent of brand
- Simplify your site-specific documentation of spraying rates and locations
- Easy data export into all popular farm management software packages via ISOXML
- Perform a detailed graphical analysis of spraying rates, fuel consumption, filling levels and capacity indicators, for example
- Data can be presented in tables or graphs
- Monitor filling levels and optimise your logistics processes
- Improve scheduling and speed up maintenance and repair work
- Direct service staff straight to the right in the right field
- Both you and your CLAAS dealer can save time and costs

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