BENEFIT FROM NEW VALUE CREATION IN THE INTERNET OF THINGS (IOT) WITH DEVICE INSIGHT, ONE OF EUROPE’S LEADING SUPPLIERS OF SOLUTIONS FOR SUCCESSFUL MACHINE-TO-MACHINE COMMUNICATION.

OUR CENTERSIGHT® WEB-BASED IOT PLATFORM COMMUNICATES AUTOMATICALLY WITH ANY AND ALL OF YOUR MACHINES, EQUIPMENT AND DEVICES – AT ANY TIME AND WHEREVER IN THE WORLD THESE ARE LOCATED. WHAT THIS BRINGS YOU IS NOT ONLY A WHOLE NEW LEVEL OF OPERATIONAL CLARITY AND CONTROL – IT STREAMLINES YOUR BUSINESS PROCESSES, SAVING YOU A GREAT DEAL OF TIME AND EFFORT.
Device Insight has more than 15 years of expertise gained from the successful design and implementation of over 100 IoT projects around the world. This in-depth experience across a huge range of industrial sectors by one of the IoT pioneers means one thing – you receive an IoT solution that seamlessly matches your operational environment and raises your business processes to a higher level. From business case analysis and design through to implementation – and even operation – of a CENTERSIGHT® solution, we at Device Insight have the knowhow, the resources and the skills to transform your business.
CENTERSIGHT® unites all of the functionality needed by industry with unlimited scalability and collaboration via the Internet. The CENTERSIGHT® system concept is based on a central server system operated in failsafe data centers, thus guaranteeing connection with machines and devices around the clock.

Because all applications can be easily accessed via a web browser, you have an immediate, accurate and easy-to-interpret overview of all operations ready at hand.

Device Insight studies your existing technical solutions and incorporates these into the final IoT solution. Moreover, all other components or even the entire solution can be supplied, maintained and operated by Device Insight if desired.

**CENTERSIGHT® ADVANTAGES**

> High-performance platform for company-specific IoT projects
> Quick, flexible configuration with extensive core functions:
  > Operating data capture
  > Reporting
  > Condition monitoring
  > Remote service
  > Business logic
  > Alarming
> Maximum security and scalability for both large and small projects
> Data exchange with all machines, plant and devices using, for example, GPRS or DSL
> Secure and flexible mobile connections across the globe via Vodafone GDSP
> Open IT standards without technical changes to devices
> Seamless integration into existing IT environments
> Operation as a Software-as-a-Service (SaaS) or as an in-house solution
> Internationally installed at leading companies in many industries
> Very short time-to-market and fast return on investment
Online analysis of operating data
With CENTERSIGHT®, operating data, fault conditions and machine configurations are available worldwide and around the clock. This gives you a decided competitive advantage. Moreover, the integrated reporting engine lets you perform analyses down to the smallest detail.

Interactive map system
CENTERSIGHT® shows you, in exact and easy-to-interpret form, position data along with the relevant operating parameters — no matter where in the world your equipment is. You always track your machines’ behavior as if you were on the spot.

Intuitive operation
All applications can be used via a convenient web-based user interface. But it remains secure — comprehensive rights management means that every user can access only his personal IoT applications and data.

Alarm generation for fault conditions
CENTERSIGHT® gives you all the functions you need for the monitoring of decentralized machines — like fault detection, fault handling and notification. Nothing escapes its attention — bringing you the safety your operations demand.

All at a single glance
CENTERSIGHT® stores data for the long term but makes this available extremely quickly. Dashboards are utilized to convert this data into valuable information in exactly the form and layout you need to get answers when you need them and as fast as you need them.

The basic version of CENTERSIGHT® already consists of an extensive range of software modules. These are much more flexible than simply listing their specifications would suggest, however. Depending on the requirements you lay down, even single modules can be adapted to special needs or used standalone as a turnkey solution. What this means in practice is that you get the full IoT functionality you need, but at a price that takes cost-effectiveness to a new level.

The approach of using a Dashboard gives you an immensely powerful and infinitely flexible view of your entire operations — a view that is organized and tailored to achieve a maximum of clarity and information transfer. Specific overviews for particular areas can be used to drill down to visualize detail that would otherwise be invisible. Secondary sources of information or seemingly unrelated events can be viewed in any grouping to establish how they cross-link in practice.

IoT – YOUR ADVANTAGES
Clear cost reduction
Less downtime
Higher service quality
More client satisfaction
New business models
What improvements or new possibilities?
In the first step towards the overall solution we analyze the entire process chain: best-fitting components.
We take care to couple this single source approach with manufacturer-neutral interfaces so that we always utilize the approach with manufacturer-neutral responsibility for the IoT solution is ours.
quickly and in high quality because ultimate complete end-to-end solution for you principle. We can therefore implement a CENTERSIGHT® is based on a modular principle. We can therefore implement a complete end-to-end solution for you quickly and in high quality because ultimate responsibility for the IoT solution is ours.

CENTERSIGHT® FAST GO-LIVE AT A FIXED PRICE

Implementation is carried out by experienced project managers and engineers at a fixed price. After the Go-live we ensure technical operation of the IoT solution on the basis of SLAs as well as ongoing optimization of the system and support.

CENTERSIGHT® generally only requires around 20 percent specific modification as 80 percent is built on proven system components. This corresponds to our philosophy of providing solid and flexible core products that can be adapted to your needs with little effort.

First approaches to a solution concept are quickly generated to give an initial specifica-
tion of the proposed IoT project. Our proven procedural model subsequently gives the basis on which we work with your experts to produce the final plan. This cooperation includes defining hardware, data communication and IT interfaces and includes the existing IT and equipment environment as far as is desired.

CENTERSIGHT® COMPLETE SOLUTION FROM A SINGLE SOURCE

CENTERSIGHT® supports all data communication standards and covers the entire spectrum with regard to functions, technolo-
gies and tariff conditions. The best communication media – for example wired or wireless – is determined in conjunction with you. This ensures that the communication infrastructure settled on is not only efficient, but also highly cost-effective.

Device Insight, together with its partner Vodafone, offers you secure and reliable mobile connectivity solutions that are especially suited to IoT applications and include management of aspects such as SIM cards and tariffs via CENTERSIGHT®

For communication with technical equipment we utilize a multitude of proven products with standardized protocols from over 30 hardware manufacturers and thus can handle any and all gateway requirements. The components are specifically selected for perfect communication with CENTERSIGHT®. We can, however, just as easily include your own gateways or existing communication devices.

Good to know

> CENTERSIGHT® communicates with any technical device.
> CENTERSIGHT® communicates via all media, whether by mobile connection or DSL.
> The Vodafone global 2M2 platform (GDSP) is seamlessly integrated into CENTERSIGHT®
> Device Insight delivers CENTERSIGHT® complete with SIM cards and gateways from a single source.
> Device insight uses open data protocols; we orient ourselves to the project requirements and jointly select the most suitable communication methods for your company from a large pool.
> Our flexible gateways are suitable both for retrofitting existing equipment and integration into new models.
> In larger installations in particular, CENTERSIGHT® Device Management forms the ideal basis for managing the overall solution.
No matter in which industry you operate and how big your company is – with CENTERSIGHT® you can count on an IoT solution that brings you both major economic benefits and a great deal of flexibility. Based on our experience and intensive dialog with our clients, we have developed numerous standard applications suitable for every industry. CENTERSIGHT® easily accommodates existing technical requirements and can be integrated into any process environment – without change to machines or equipment. This makes every CENTERSIGHT® implementation a powerful yet economical IoT solution that completely meets your needs.

CENTERSIGHT® gives you an intelligent IoT concept that optimizes the operation of all your machines and plant – anywhere in the world. As a result you save on costs for operation, maintenance and repair from many perspectives. In addition, predictive maintenance avoids machine downtimes that, particularly in this industry, mean immensely high costs.

Permanent operating data capture from machines, plant and production processes You always have an overview of live data from all machines and can take action immediately if necessary. There are separate access levels for the manufacturer, service, operator and end user.

Analysis of all operating data and automatic documentation (reporting, performance metering) All data is recorded at the central point for evaluation and stored over the long term. This data can be easily linked in to existing IT systems.

Automatic alarm generation upon fault and remote service Through shorter reaction times, you save on downtime and repair costs. Configuration and analysis take place per remote service via secure VPN connections.

Condition monitoring combined with predictive maintenance Necessary maintenance work can be determined precisely and depending on status. Targeted service calls coupled with good spare parts management significantly improve first repair success quotas.

CENTERSIGHT® EFFECTS

+ Thanks to optimally set machine parameters, a plant operator saves around 35 percent operating costs on average.
+ By using predictive maintenance, a machine manufacturer was able to lower service and maintenance costs by 35 percent.
+ A service company was able to reduce the time required to remedy damage from 48 to 24 hours.

* Typical order of magnitude in machine-building.
BUILDING AUTOMATION

RETAIL

SAVE UP TO 50 PERCENT ENERGY COSTS AND MORE. MONITOR YOUR REAL ESTATE ONLINE.

This focuses on monitoring and optimizing energy consumption as well as ensuring the smooth operating of all technical equipment. By using CENTERSIGHT®, it is no longer necessary to have to operate a complex control system on-site. CENTERSIGHT® centrally provides optimal building opera-
tion via secure Internet connections – with a minimum of technical effort.

Permanent recording of operating data such as temperatures, consumption, operating conditions

On basis of this data, you can generate individual analyses for your clients at any time and can implement energy management in accordance with ISO 50001.

Access to all live data

There are separate user levels and authorization structures for the manufacturer, system integrator and end user.

Efficient interaction of different types of technical equipment

Particularly with a large number of buildings that are distributed across a wide area, this aspect gives you security that all equipment and devices are working optimally and efficiently.

Automatic fault identification and alarm forwarding

Faulty operation can be remotely identified and corrected. If faults occur, you can diagnose these and coordinate remedial action.

Remote Service for reprogramming of equipment or operating parameters

This can also be carried out quickly, easily and from any location across the globe.

CENTERSIGHT® EFFECTS

> Chain store operators can look after their branches online.
> A heating manufacturer provides remote service to system integrators via a central web platform and thus improves service and customer loyalty.
> A logistics company centrally monitors temperatures in cold stores and in this way ensures complete documentation of the cooling chain in accordance with HACCP.

Decisive competitive advantages in modern fleet management include above all the exchange of operating data in real time as well as position determination. CENTERSIGHT® offers the right combination of a central control system for coordinated information access combined with suitable mobile based onboard units.

Permanent operating data capture of, for example, speed, consumption and usage Visible at all times – all information is available in real time whether for documentation purposes or for identifying problems in a timely manner.

Position determination in conjunction with geo-fencing

Vehicle position and the route traversed are indicated on maps. If a vehicle leaves the defined sector you are informed immediately (geo-fencing).

Commercial Vehicles

Automotive

KNOW WHAT’S HAPPENING. RECORD YOUR VEHICLE POSITIONS ALONG WITH LIVE OPERATING DATA.

Alteration of vehicle parameters, driver authorizations and order lists

All information supporting efficient work processes can be exchanged with the vehicle via mobile connectivity.

Recognition of incorrect operation and taking action remotely

The more quickly you can react, the higher the cost savings for downtime and repair. The configuring and analyzing of faults, as well as any action necessary, is carried out by remote service.

CENTERSIGHT® EFFECTS

> A fleet manager has access to up-to-date position and vehicle operating data.
> A manufacturer of fork-lift trucks gives his clients the possibility to change driver authorizations via the Internet.
> A manufacturer of agriculture machinery has expanded his portfolio to include a new online service for order scheduling.

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ENERGY MANAGEMENT
SMART METERING

MONITOR YOUR ENERGY CONSUMPTION. EVERYWHERE, ANYTIME. IN REAL TIME.

Energy efficiency and cost reduction are among the most important subjects of our time. Thanks to its innovative technology, CENTERSIGHT® makes possible the operation of comprehensive energy management conforming to ISO 50001 and the possibility to make enormous energy savings. Permanent monitoring and reporting keep you informed on all consumption data and critical conditions – always and anywhere.

Consumption data capture for electricity, heating and water in real time.
You have live consumption data available at all times. You receive long-term evaluations and recommendations for actions based on automated monitoring. All data can be linked to existing IT systems.

Energy consumption evaluations and individual invoicing
From industrial clients to private customers – you can easily invoice according to tariff even if the tariff varies depending on the time of day.

Access to consumption data across various user levels
There are own levels for energy providers, operators and private customers via which they can access the data – including via mobile devices.

Automatic alarm generation upon fault and remote service
Due to continuous monitoring, spikes and load peaks, runaway and load tip are identified at an early stage, allowing countermeasures to be automatically taken.

CENTERSIGHT® EFFECTS
» Through consistent energy management, an industrial company has lowered its electricity costs.
» An energy provider offers private customers the possibility to call up current daily consumptions via the Internet and mobile devices.
» A city monitors and drives its street lights via mobile connectivity.

CENTERSIGHT® IN MEDICAL TECHNOLOGY
CENTERSIGHT® supports the device management of medical equipment and keeps it at the latest software level. Data is only exchanged over secure connections. Particularly when higher numbers are out in the field, comprehensive device management based on CENTERSIGHT® gives a considerable advantage with respect to efficiency and security.

Device management for medical devices
You have an overview of all devices all of the time. Automatic reporting briefs you on the technical status. All software and configuration statuses can be updated centrally.

Security during data exchange
Secure data communication is guaranteed thanks to central encryption procedures and access via CENTERSIGHT® middleware.

CENTERSIGHT® IN HEALTHCARE
CENTERSIGHT® records biometric values and environment data and makes this available to care services and physicians.

The solutions in this sector are suitable for social and care facilities, pharmaceutical companies, health services and providers of health insurance.

Secure access to biometric data
People-related data is held separately from recorded medical data and processed in encrypted form.

Graded authorizations
Access to different data levels is ensured in a secure manner through a graded authorization concept for the various user groups.

CENTERSIGHT® EFFECTS
» A manufacturer of medical equipment carries out remote maintenance analysis and service updates.
» A manufacturer of blood pressure measuring instruments offers an online service for end users.
» A health service offers Ambient Assisted Living so that older needy people can stay longer in their own domestic environment.
WHAT DRIVES US AT DEVICE INSIGHT IS OUR PASSION FOR THE INTERNET OF THINGS.

Our motivation

The Internet of Things has stepped out of its infancy and is the next revolutionary technology for the transformation of pure data into valuable information. This is what drives us and determines our company strategy. We turn this vision into innovative software products and customer-specific solutions that offer both cost-effectiveness and efficiency while remaining straightforward.

To this vision we bring our knowledge, experience and our ability to understand precisely the requirements and goals involved. This vision is what drives us and helps us develop ourselves, our products and our services to better serve you.

Our services

» Analysis of process change and cost-saving potential
» Economic feasibility, analysis of new business models
» Manufacturer-neutral consultancy along the entire IoT value chain
» Precise implementation of any IoT project
» Project analysis and definition
» Development, integration and testing
» Software operation and system maintenance
» Training

Proof of Concept

Are you interested in an IoT solution but have until now no experience with one? If so, we can very quickly offer you a “Proof of Concept” specifically tailored to your company that comprises the most important CENTERSIGHT™ system components and attachment of up to ten technical devices. If you are interested, simply contact us. We will be happy to provide you a non-binding proposal.