CompAir

iConn
Service 4.0

#staysafe

GO DIGITAL!

iConn

Proactive Maintenance and
Service with iConn Monitoring

More efficiency, productivity and investment protection

iConn ensures you remain competitive

Together with an increase in competition, demands on manufacturing companies are also growing. Production machines would have to run without interruption in order to satisfy the high demand from markets. In practice however, it is not possible to achieve one hundred percent capacity utilisation of production facilities. Certain maintenance cycles are required to ensure that product quality does not deteriorate and unexpected damage to machines is avoided. But at what intervals do you have to carry out maintenance?

This is exactly where proactive maintenance with iConn comes into play! Today, manufacturers must become more active in the areas of software and service. The Internet of Things (IoT) helps you to remain competitive in the future. Proactive maintenance, also known as Predictive Maintenance (PM), is an important core aspect in the implementation of IoT in a company, which should undoubtedly be included in your planning process. The IoT Journey shows you which steps an IoT campaign has to go through to gradually minimise maintenance costs and other losses.

The 4 steps of the IoT Journey
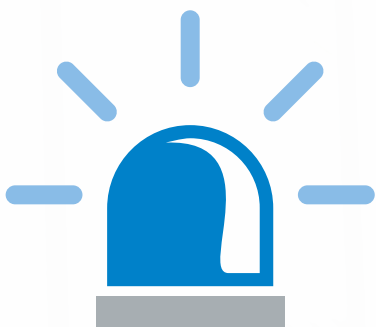
1. Reactive

The starting point of the IoT Journey relates to the old service model, where maintenance intervention only occurred when it was already too late. As soon as a part is found to be defective, the service team, based on little feedback, are contacted and the time-consuming process of a providing a solution begins.
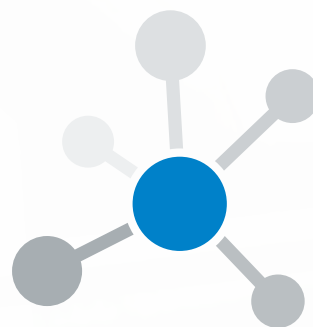
2. Networked

IoT networked devices communicate with each other and send selected data to the machine operator, hence the condition of the plant can be better assessed. Intervention by the service teams is less frequently required, and if they are needed, the definitive issue or problem can be determined by remote diagnosis.

> iConn allows you to stay connected with your compressed air – anytime, anywhere – for increased efficiency, productivity and protection.

3. Analysed

From this point on, proactive maintenance begins. Through the analysis of the collected data, valuable conclusions can be drawn. Indicators like operating time and component wear clearly show the service technician when the next maintenance interval is due.

4. Optimised

At its core, the entire IoT Journey revolves around just one topic, namely optimisation. Before IoT, the first plans for prototypes were usually based on the rough requirements of customers and certain empirical values. Increasing networking makes it possible to monitor real-time data and information on a component with the developers knowing definitively, which properties to focus on. Targeted optimisation can also be used to minimise the time between maintenance intervals.

iConn – intelligent connection for the future, now!

Real-time Industry 4.0 solutions deliver major benefits to compressed air users

Digitally networking the components of a compressed air system (e.g. compressor, filter, dryer etc) can minimise costs and increase the availability of the system.
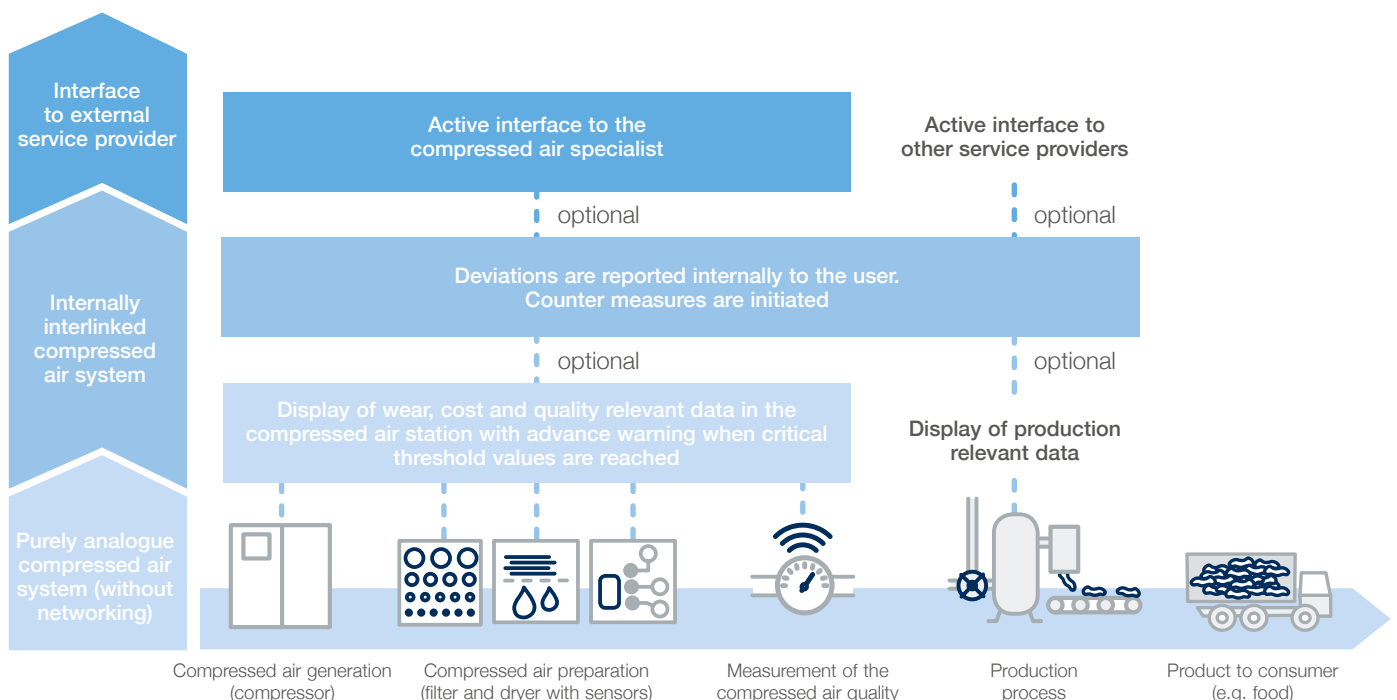
Networking is a major lever for savings – influencing and reducing energy and service costs, while leading to greater process reliability and cost control.

The data that Industry 4.0 solutions provide relating to wear, costs and quality, can be used to significantly increase functional reliability and productivity. Savings made on reduced operating costs deliver a short return on investment.

Put your trust in Industry 4.0 solutions and iConn – an open platform supporting compressed air products and ancillaries from any brand, providing truly meaningful insight that delivers gains, whichever way you look at it.

Networking and a compressed air plant

Interface to external service provider	Active interface to the compressed air specialist	Active interface to other service providers
	optional	optional
Internally interlinked compressed air system	Deviations are reported internally to the user. Counter measures are initiated	
	optional	optional
	Display of wear, cost and quality relevant data in the compressed air station with advance warning when critical threshold values are reached	Display of production relevant data
Purely analogue compressed air system (without networking)		

Compressed air generation (compressor) • Compressed air preparation (filter and dryer with sensors) • Measurement of the compressed air quality • Production process • Product to consumer (e.g. food)

Source: VDMA

> CompAir's significant investment in the development of iConn, translates into real benefits for the future of our industries and applications

What can iConn deliver?

iConn monitoring supplies compressed air users with comprehensive machine data in real time, which is required for precise production planning and to protect their investment.

iConn keeps you in touch with your compressed air, anytime, anywhere

▶ **ADVANCED REMOTE ANALYSIS** of compressed air supply through cloud-based condition monitoring of operating parameters

▶ **EVALUATES HISTORICAL DATA** and provides predictive and cognitive analysis

▶ **REDUCES THE RISK** of downtime through monitoring and warning

▶ **ENABLES** simple, proactive monitoring of remote locations

▶ **MAXIMISES ENERGY EFFICIENCY** of the compressed air supply

▶ **OPTIMISES COMPRESSOR PERFORMANCE** through machine parameters and trend analyses

▶ **WORKS TO AN OPEN STANDARD** and can easily support compressed air products from other manufacturers

▶ **MAINTENANCE** is performed exactly when and only when the probability of a failure increases

▶ **NEW COMPRESSORS** from CompAir are already factory-fitted with iConn at the factory

iConn is compatible with all CompAir devices, is user-friendly, easy to install and can be integrated as a retrofit solution into existing (and third-party) equipment. With iConn you can now monitor your entire compressor fleet/compressed air system – anywhere in the world – via PC, tablet or smartphone.

The iConn Portfolio at your service

Absolute Efficiency. Absolute Security

Not only does iConn allow deviations from the optimal plant condition to be detected early and countermeasures to be initiated, meaning that expensive failures and downtime is avoided, maintenance intervals are no longer time-controlled – but are based on individual component wear and actual system requirements.

Further more, confidentiality, data integrity, authenticity and protection are ALL guaranteed.

iConn from CompAir – **changing the way we do business.**

iConn benefits at a glance

Proactive real-time monitoring with iConn for your compressed air installation, delivers many benefits:

✓ **Real-time operating data available around the clock**

✓ **On-demand maintenance extends compressor life cycle and optimises costs**

✓ **Maximum compressor performance reduces energy consumption**

✓ **Predictive and preventative monitoring and warnings avoid expensive downtime**

✓ **Wear of compressed air components is identified early**

✓ **Reduce operating costs caused by increased pressure drop in filters and separators through late maintenance**

✓ **Identify potential savings by measuring costs and efficiency**

✓ **Optimised maintenance planning**

iConn – over-the-air-enabled and on-demand enhancements for total peace of mind

With the proactive iConn platform, there are no surprises or unpredicted issues – production will run smoothly and efficiently, with out fail.

Compressed Air analytics with web-based operating dashboard, which also provides a complete service, from predictive maintenance to (optional) real time energy audits, ensuring total peace of mind.

Secure iConn Data Management Variants

	iConn	iConn HD	*iConn Flow & Energy
COSTS	Free of charge	Subscription	Subscription / Leasing
DATA PUSH FREQUENCY	Every 12 hours or after alarm	Every minute	
UNIVERSAL	✔	✔	✔
ADDED VALUE FOR OUR CUSTOMERS	✔ Always immediate recognition of alarms ✔ Forwarding of alarms to customers & service providers ✔ iConn informs if it needs service ✔ Enables on-time service management	✔ Real-time data permanently available ✔ Customer can extract and analyse data ✔ Custom Dashboard **These analyses are possible:** • System performance • Long-term troubleshooting • Calculated energy consumption	✔ Real-time data permanently available ✔ Customer can extract and analyse data ✔ Custom Dashboard ✔ Measurement of volume flow and energy ✔ Compressed air leakage management **These analyses are possible:** • System performance • Long-term troubleshooting • Measured energy consumption

*Coming Soon

For more information and to watch our iConn video please scan the QR code.

CompAir

Global experience –
truly local service

With over 200 years of engineering excellence, the CompAir brand offers an extensive range of highly reliable, energy efficient compressors and accessories to suit all applications.

An extensive network of dedicated CompAir sales companies and distributors across all continents provide global expertise with a truly local service, ensuring our advanced technology is backed up with the right support.

CompAir has consistently been at the forefront of compressed air systems development, culminating in some of the most energy efficient and low environmental impact compressors on the market today, helping customers achieve or surpass their sustainability targets.

CompAir compressed air product range

Advanced Compressor Technology
Lubricated
- Rotary Screw
  - > Fixed and Regulated Speed
- Piston
- Portable

Oil-Free
- Water Injected Screw
  - > Fixed and Regulated Speed
- Two Stage Screw
  - > Fixed and Regulated Speed
- Piston
- High Speed Centrifugal - Quantima®
- Rotary Scroll

Complete Air Treatment Range
- Filter
- Refrigerant and Desiccant Dryer
- Condensate Management
- Heat of Compression Dryer
- Nitrogen Generator

Modern Control Systems
- CompAir DELCOS Controllers
- SmartAir Master Sequencer
- iConn - Smart Flow Management

CompAir policy is one of continuous improvement and we therefore reserve the right to alter specifications and prices without prior notice. All products are sold subject to the Company's conditions of sale.

Value Added Services
- Professional Air Audit
- Performance Reporting
- Leak Detection

Leading Customer Support
- Custom Engineered Solutions
- Local Service Centres
- Genuine CompAir Parts and Lubricants

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GB 09/20