



Company Presentation

Funkwerk AG and HFWK

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kölleda

Funkwerk AG

4 Business Segments

Traffic & Control Communication	Automotive Communication	Enterprise Communication	Security Communication
Communication Systems Management Systems Information Systems	Accessories ASM Car Equipment OEM Telematic Systems Avionics	Networks Voice CPE Terminals	Mobil Security Video Surveillance Site Security System

Customer Focus

Public Transportation Transport Operators Energy Supply Corps	Distribution Automotive manufacturers Transport Operators	System Integrators Companies Distribution	Enterprises Public Institutions Energy Supply Corps
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- Company Presentation
- Portfolio
- Service / Maintenance
- Quality Assurance



Funkwerk AG

Company History

Funkwerk is a leader in market and technology for professional communication systems.

1992

15.04.1992

Formation of Hörmann Funkwerk Kölleda GmbH
→ 150 employees, 12 Mio. € turnover

2000

16.08.2000

Formation of Funkwerk Aktiengesellschaft
→ 280 employees, 38 Mio. € turnover

15.11.2000

Going on stock exchange with business segments
Traffic & Control and Automotive Communication

2001

Formation of a 3rd business segment Enterprise Communication

today

2006 Funkwerk AG all over Germany

2007 → 1.615 employees, 291 Mio. € turnover

2008 Formation of a 4th business segment → Security Communication

— Company Presentation

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The company

Hörmann Funkwerk Kölleda GmbH

Professional Communication Systems

Headquarter: Im Funkwerk 5
99625 Kölleda

Shareholder: Funkwerk AG

Managing Directors: Uwe Lehmann
Kerstin Schreiber
Harald Steglich

Capital stock: 1.700.000,- EURO

Employees: 279 (31-12-2007)

Certification: DIN EN ISO 9001 since 1994
EG-Certificate through Federal Office for Railways
Q1-suppliers certificate of the German Railways
A-supplier of the German Railways



— Funkwerk AG

→ **Company**

— Subsidiaries

— Mobile Radio Systems

— stationary
Communication Systems

— mobile
Communication Systems

— References

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Hörmann Funkwerk Kölleda GmbH

Company History

- **1945** Formation as Neutrowerk GmbH
- **1948** VEB Funkwerk Kölleda
- **1990** Formation to Funkwerk Kölleda GmbH
- **15.04.1992** Formation of Hörmann Funkwerk Kölleda GmbH
- **since 1994** TÜV CERT in accordance with DIN EN ISO 9001
- **16.08.2000** Formation of Funkwerk AG
- **01.11.2003** Formation of Funkwerk plettac electronic GmbH as subsidiary of HFWK
- **05.08.2004** Formation of Funkwerk infosystems GmbH as subsidiary of HFWK (since 01.04.2007 Funkwerk IT Karlsfeld)
- **13.10.2004** Acquisition of KJ GmbH Dresden (since 01.04.07 Funkwerk IT Karlsfeld)
- **Jan. 2007** Acquisition of mikroSYST GmbH, Vossloh IT and Kapsch Traffic Com Rail (KTC-R) / Vienna
- **01.04.2007** Rearrangement of the business segment Traffic & Control Communication taking over of the mikroSYST GmbH and formation of Funkwerk IT Karlsfeld GmbH, Funkwerk Systems Austria GmbH as well as Funkwerk Ungarn GmbH as subsidiaries of HFWK

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Fields of Activity

- **Mobile Radio Systems**
 - Digital (GSM-R) and analog train radio systems
 - Radio terminals and radio modules
 - Digital Mobile Radio DMR
- **Stationary Communication Systems**
 - Exchange systems
 - Telecommunication workplaces and Dispatcher centers
 - Electro-acoustic systems (ELA)
- **Mobile Communication Systems**
 - Bord computer
 - System applications
- **Service and Hotline**



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Development Production Engineering Sales Service

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Hörmann Funkwerk Kölleda GmbH

Locations



Headquarter Kölleda

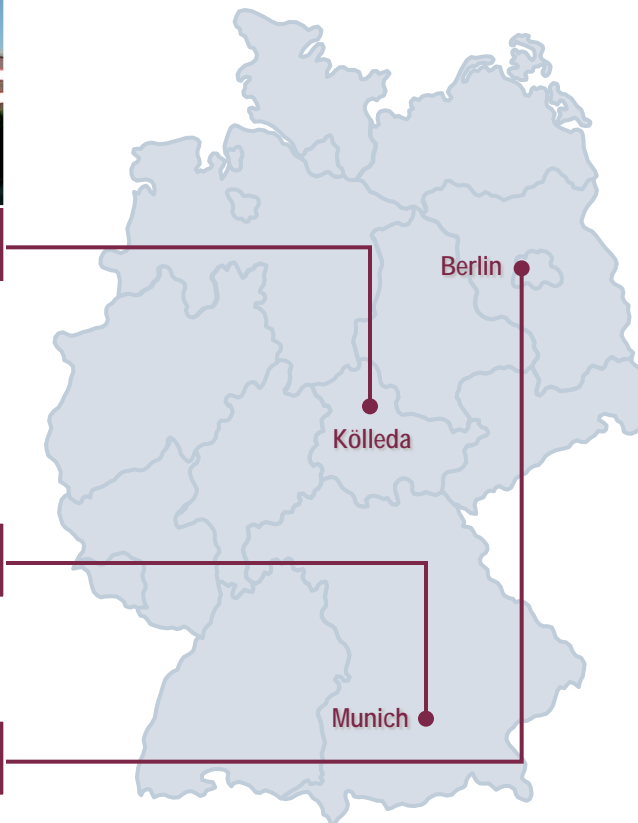
Im Funkwerk 5
99625 Kölleda
Germany
Phone: +49 (0) 3635 458 - 0
Fax: +49 (0) 3635 458 - 599

Branch office Munich

Frankf. Ring 193A
80807 Munich
Phone: +49 89 680777 - 35

Branch office Berlin

Kufürstenstr. 79
10787 Berlin
Phone: +49 30 263908 - 60



Subsidiary Companies

Funkwerk
Information
Technologies
Karlsfeld GmbH

mircoSYST
Systemelectronic
GmbH (Weiden)

Funkwerk
systems austria
GmbH (Vienna)

Funkwerk
Ungarn Kft. (Budapest)

— Company Presentation

— Portfolio

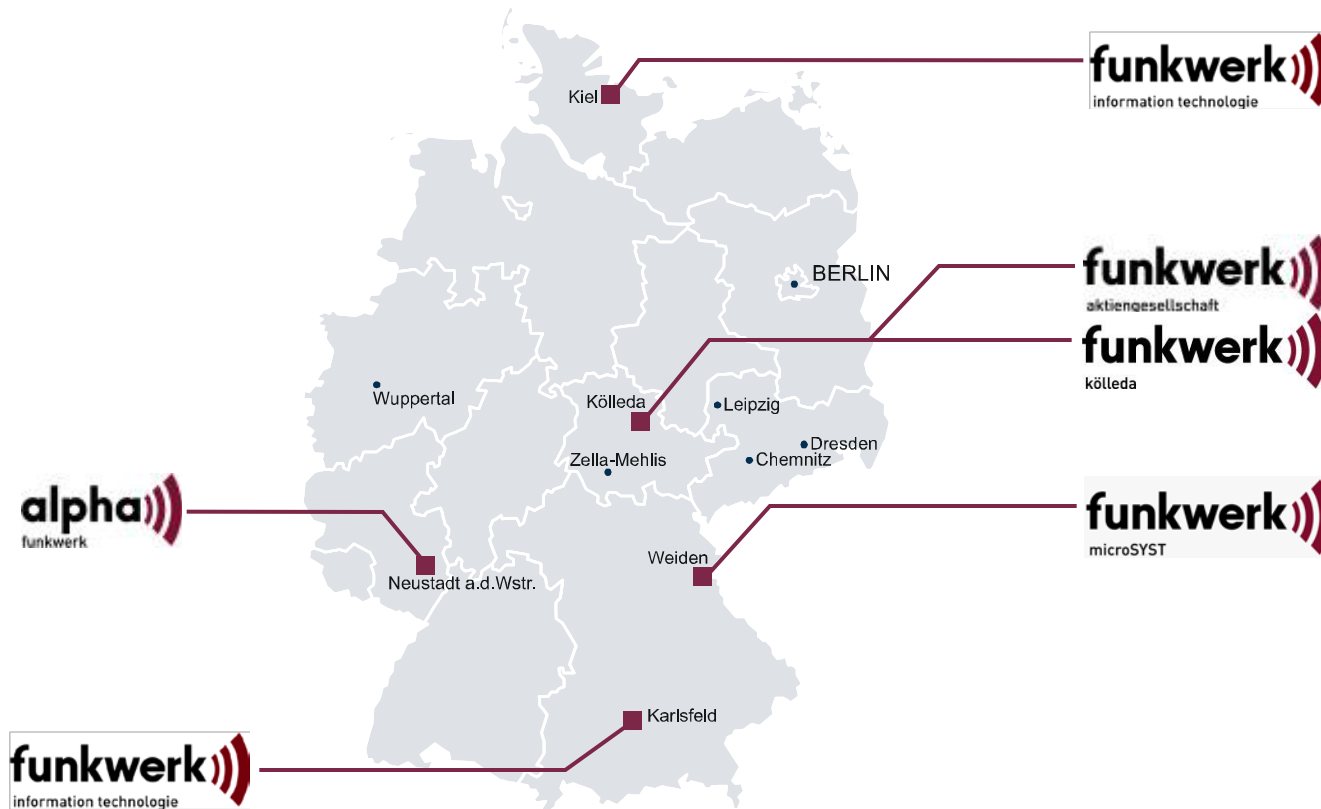
— Service / Maintenance

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Traffic & Control Communication

Locations in Germany



■ Companies of the Funkwerk AG - TCC

• Branch Offices and Offices

→ Funkwerk AG

— Company

— Subsidiaries

— Mobile Radio Systems

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microSYST Systemelectronic GmbH

Headquarter: Zur Centralwerkstätte 10
92637 Weiden

In the Funkwerk-Group since 01.03.2007

Managing Directors: Silvan Hartwig,
Kerstin Schreiber



Display Systems

- **Display Systems**
Small built-in displays, text displays and video screens
- **Industrial Communication**
The interface technology of microSYST covers all field bus systems like Profibus, CAN, ARC-NET, InterBus, Ethernet, ASi
- **Product development and Production**



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Funkwerk plettac electronic GmbH

Headquarter: Würzburger Straße 150
90766 Fürth

Formation: 01.11.2003

Managing Directors: Matthias Bierling,
Gerard Monin,
Karl-Heinz Tonk



Video and Security Systems

- Security concepts, CCTV-system solutions & -integration
- Video management and signalling centers
- System surveillance cameras, pan-tilt head unit, Dome
- Transmitting systems (analog & digital)
- Video analysis / sensor technology

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➔ **Subsidiaries**

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Funkwerk Information Technologies Karlsfeld GmbH

Headquarter: Liebigstraße 1a
D-85757 Karlsfeld

Formation: Jan.2007

Managing Directors: Dr. Manfred Schmidt



Passenger Information Systems

- **Stationary Passenger Information Systems**
 - Acoustic and visual information systems
 - Information manager – automatic control of the display and announcement systems
 - Passenger's safety – signalling systems (RWS)
- **Mobile Passenger Information Systems**
 - Acoustic and visual passenger information systems
 - passenger information, entertainment systems
 - Security equipment (emergency call, video surveillance)
- **Display Technology**
LCD, TFT, flip-digit displays, BiLED, VFD and LED as well as electronic ink (in development)



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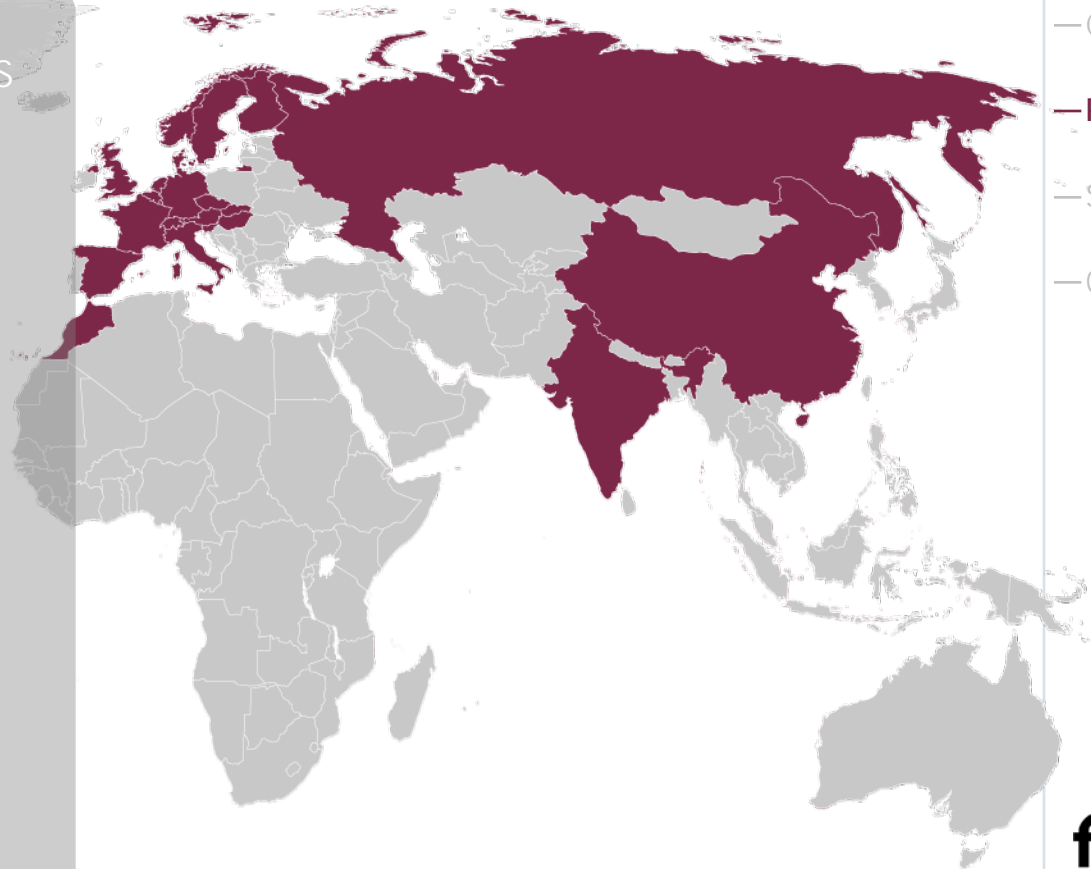
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Market and Projects

Overview

Funkwerk's Success - Cab Radio, MT and TEOoS

- Austria
- Belgium
- Bulgaria
- China
- Czech Republic
- Denmark
- Finland
- France
- Germany
- Great Britain
- Hungary
- India
- Italy
- Luxembourg
- Morocco
- Netherlands
- Norway
- Russia
- Slovenia
- Slovakia
- Spain
- Sweden
- Switzerland



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Market and Projects

Cab Radio

■ Funkwerk as main supplier of GSM-R mobiles

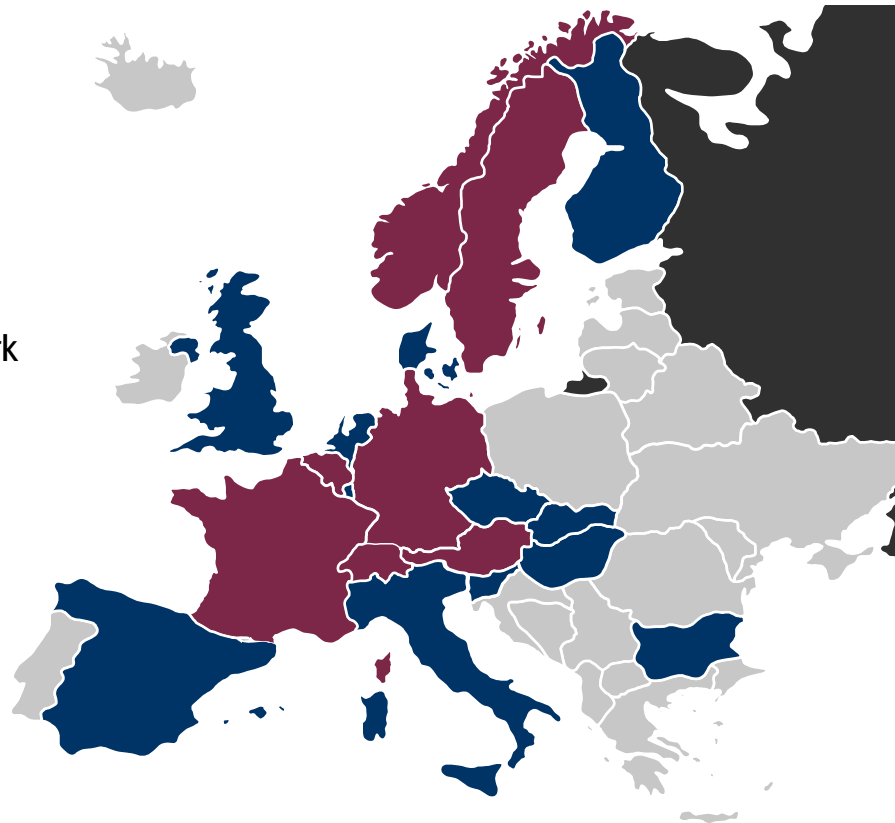
Germany	Switzerland
France	Norway
Belgium	Sweden
Austria	

■ Vehicles with GSM-R by Funkwerk

Italy	Great Britain
Luxembourg	Bulgaria
Netherlands	Denmark
Spain	India
Finland	Slovakia
Czech Republic	Slovenia
Hungary	

■ Test with GSM-R by Funkwerk

Russia
China



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Market and Projects

MT² and TEQoS

■ Radio Modules MT²

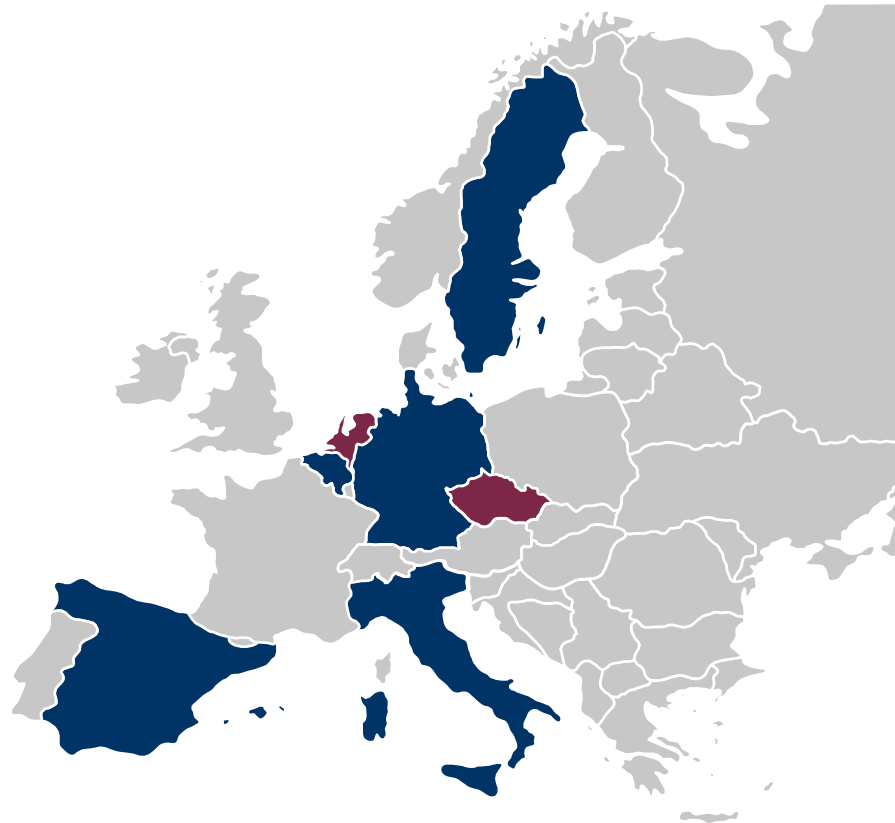
Netherlands
Czech Republic
China

■ TEQoS

Germany
Belgium
Italy
Spain
Sweden

TEQoS2

(Terminal Environment Quality of Service) is used during the start-up phase of a new GSM-R network, as well as in the ordinary operation and optimisation process, wherever measurements need to be performed to guarantee the quality of the GSM-R subsystem.



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Quality Management

- Certified according to DIN EN ISO 9001:2000
- EC-Certificate from Eisenbahnbundesamt (federal railway administration)
- Certificated through DB AG as Q1-supplier
- Certificated through DB AG as A-supplier



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Thank you
for your attention

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