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TETRA

BOS Radio Communication

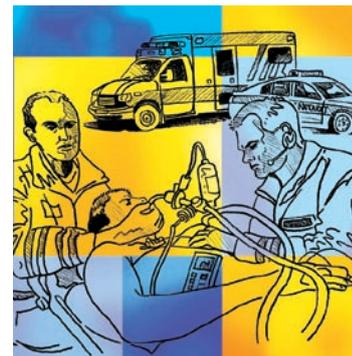
GSM



Distributor

System Integrator

Service Company



SELECTRIC Nachrichten-Systeme GmbH – more than 30 Years of Mobile Radio Communications Experience

Starting as a small service company for the regional sector of public authorities and organisations with security tasks (BOS), SELECTRIC has grown to one of Europe's leading mobile radio services company during its 30 years of existence.

Distribution and maintenance of mobile communications systems of any size and application constitute the objectives of a company that employs around 200 employees to date.



The construction of the new company building at the Münster location in 1997 and the extension by a logistics centre in 2003 represent two milestones in the company history, among others.

At Haferlandweg number 18 ideal conditions have been created for management, sales and service in order to correspond with the developments in the mobile communications sector by providing trend-setting service

and repair range.

By starting up its logistics centre, equipped according to the most modern standards, SELECTRIC sets the course for the current and future requirements of the distribution of goods via the most diverse sales channels. More than 4.000 square meters of storage space provide considerable capacities for logistics services that are administered by a fully electronically controlled inventory system and most modern logistics software.

Consequently special customer requirements can be realised in this line of business as well.

As distributor of all leading brands and partner of all well-known manufacturers in the

mobile communications business SELECTRIC today offers its customers a multitude of solutions via a network of approximately 500 sales partners. In the BOS sector (public authorities and organisations with security tasks) the company supports more than 10.000 customers featuring the most diverse requirements.

With its service area and repair levels equalling factory standard, the company ranges among the largest and most powerful companies in this line of business.



Jürgen Heußner
Chairman of the Management Board

Michael Heußner
Managing Director
GSM Hardware, Services
and Logistics

Hendrik Pieper
Managing Director
Mobile Radio and Data Communication
and Public Relations

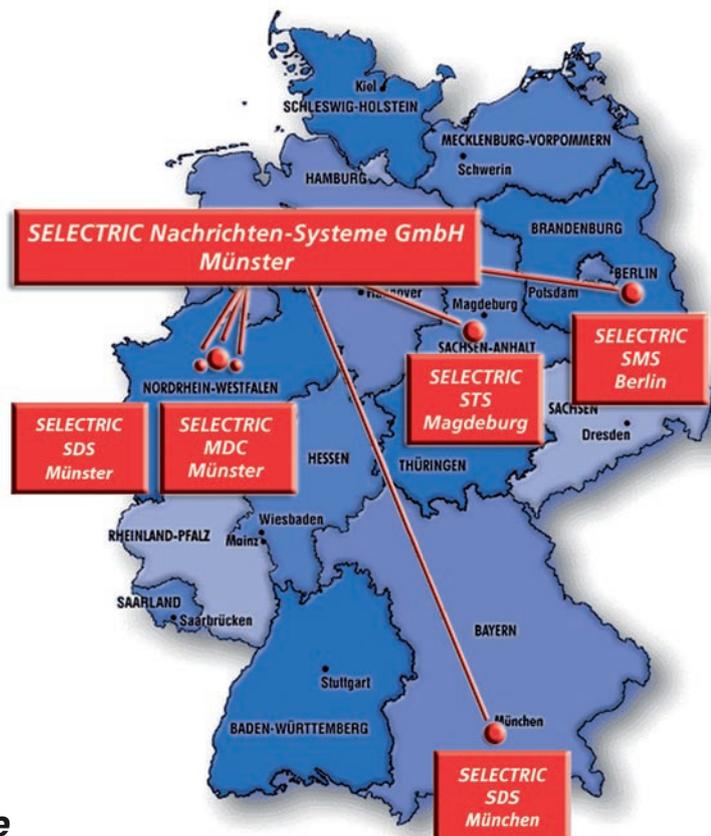
Company Data

Formation	October 1977
Managing Directors	Jürgen Heußner, Michael Heußner, Hendrik Pieper
Capital	1 million Euros nominal stock, completely family-owned
Employees	198 (as of 2009-08-01)
Group sales	as of 2007 52 mill. Euro Group Turnover

Partner Companies

Manufacturers	DAMM, GCD, Hella, Kaitec, Kathrein, Kenwood, Nextlink, Nokia, Procom, Savox, Thales, Vierling, Voxtronic, Wetech Exclusive Partner of Sepura plc / England for German BOS-Market
Network Providers	T-Mobile, Vodafone, Eplus, O2 Germany
Service Providers	The Phone House

Structure of Participation



DIN EN ISO 9001:2000 Compliance

In April 2004 the company has been certified according to DIN EN ISO 9001:2000 followed by the subsidiaries in Münster, Brumby an Gosen in March 2006.

Head Office SELECTRIC Münster/Westf.



Subsidiary Companies of SELECTRIC Nachrichten-Systeme GmbH



SELECTRIC Mobilfunk-Dienstleistungszentrum, Münster



SELECTRIC Telekommunikations- und Sicherheits-Systeme GmbH, Brumby/Magdeburg



SELECTRIC Digitalfunk-Systeme NRW GmbH, Münster

SELECTRIC Digitalfunk-Systeme Bayern GmbH, Iffeldorf/München



SELECTRIC Mobilfunk-Systeme GmbH, Gosen/Berlin

SELECTRIC Nachrichten-Systeme GmbH – „All from one“

Distribution

In respect of turnover, distribution currently signifies the largest growth factor for SELECTRIC.

As distributor of mobile radio communications products, SELECTRIC has a partner network of approx. 1.000 specialist dealers throughout Germany. In addition to marketing mobile communications products via authorised specialist dealers, SELECTRIC also supplies more than 10.000 end customers, originating mainly from the sectors public authorities and organisations with security tasks (BOS) but also industry, the utilities sector, security, public transport, military, aviation and rail. On a federal-state basis SELECTRIC often succeeds to close perennial agreements, e.g., for delivery of digital and analogue radios to the police.

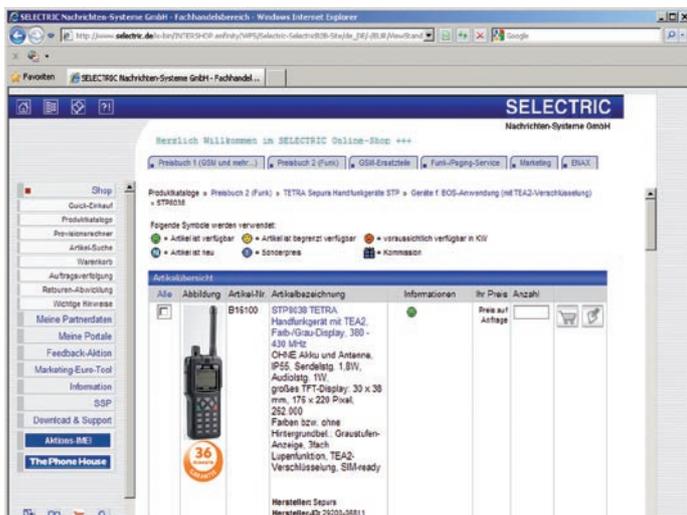
SELECTRIC offers a wide range of mobile communications products and accessories of all leading manufacturers as EADS, GCD, Kenwood and Sepura.

Especially in the area of special accessories, where applications require intensive counselling, customers find professional solutions at SELECTRIC.

Qualified customer advisors with a practical background (e.g. from active service at a fire brigade) develop technically and economically sensible solutions in close co-operation with the customers.

In the centre of this counselling are the special requirements of each user, i.e., ear protection for industrial applications, full protection for fire brigades or the hidden wear of headsets for police on duty.

www.selectric.de – Information and Ordering System for Specialist Dealers



For many years now SELECTRIC's online platform **www.selectric.de** represents the linchpin for a rapid supply of the partner network with goods and information.

As many as 95% of all incoming orders are already placed via Internet: A degree of utilisation that emphasises the outstanding quality of SELECTRIC's online shop.

To guarantee a fast and efficient processing of online orders, SELECTRIC installed an entirely digital work flow during the past years.

This allows for a quick forwarding of the incoming orders directly to the shipping department without elaborate or time-consuming manual order processing. Numerous value-added functions complete the SELECTRIC online shop and support the daily routine of the customers.

Partner of Mobile Communications Service Provider The Phone House

On April 1, 2005, SELECTRIC Nachrichten-Systeme GmbH has become the partner of The Phone House.

The Phone House

The Phone House Germany – situated in Münster as well - is a 100 % subsidiary of Best Buy Europe Ltd. Its parent company, situated in London, is a joint enterprise of the British Carphone Warehouse Group, the world's largest independent retailer of telecommunications and the US business group Best Buy, the world's largest consumer electronics retailer.

In Germany The Phone House offers the complete service and product range for mobile communications and fixed-network telephony under

one umbrella. In addition the company positions itself with a clear focus on an extensive choice of end devices and accessories as well as on first-class counselling and support services tailor-made to customer requirements.

In the context of comprehensive services SELECTRIC provides its partner The Phone House with its know-how and performance capability. Among these services on the one hand are GSM logistics services including the supply of the specialist dealer partner network with GSM hardware and accessories, whereby almost 100% of the orders are placed via the SELECTRIC online platform.

On the other hand the extensive logistics services cover also the dispatch of marketing material to the approximately 100 service provider shops and to more than 600 specialist dealers. The orders are completely effected via SELECTRIC online system. With a sales volume of about 30 million Euros in 2005 SELECTRIC took on substantial financial services like granting commercial credits and commission payments. Thereby SELECTRIC Nachrichten-Systeme GmbH is responsible for the complete commission calculation for the specialist dealer partner network.

Since February 2009 SELECTRIC supports on its own authority all specialist dealers of The Phone House offering a product range tailored to the particular needs of this sales channel as well as marketing support, complete commission calculation, hotline support and service. It is also in this area that the company consequently emphasises its online platform, supplying the partners with all necessary data promptly and comfortably.



Systems Engineering and Radio Control Station Technology

THALES SELECTRIC possesses special knowledge in the field of systems engineering and project planning, implementation and maintenance of complete infrastructures for area-wide radio-electric coverage.

After the reunion the new federal states [the former German Democratic Republic] revealed a great demand for modern radio control station technology, because the existing communications systems did not comply with the latest standards regarding medical emergency help, fire protection and the notification of rescue teams.



With the formation of its subsidiary company „Telekommunikations- und Sicherheitssysteme GmbH“ in Brumby, south of Magdeburg early 1991, SELECTRIC could prove its leading position by implementing new radio control stations for fire protection and rescue services in Saxony-Anhalt.

The urgent need for action called for immediate proceedings. During just a few weeks new radio control stations could be planned and put into practice by implementing standard modules developed by SELECTRIC, assembling the systems in accordance with requirements of the individual radio control stations. Simultaneously and also in best time SELECTRIC planned and implemented the necessary infrastructure including the planning and installing of antenna sites.

na sites.

Thus it was possible to build an area-wide network of radio control stations for the authorities and organisations with security tasks (BOS) in administrative districts and municipalities following the concept that had been successfully implemented in the Western federal states. SELECTRIC still accounts not only for the further extension of the infrastructure but also for the substantial service and maintenance tasks.



A systems partner of THALES, SELECTRIC offers its BOS customers (public authorities and organisations with security tasks) the reliable and cost-effective systems engineering technology of the market leader, a successful co-operation partner of SELECTRIC of many years. In the federal states Brandenburg, Northrhine-Westfalia, Saxony-Anhalt and Saxony SELECTRIC is authorised to act as sole agent.

NORUMAT
4000

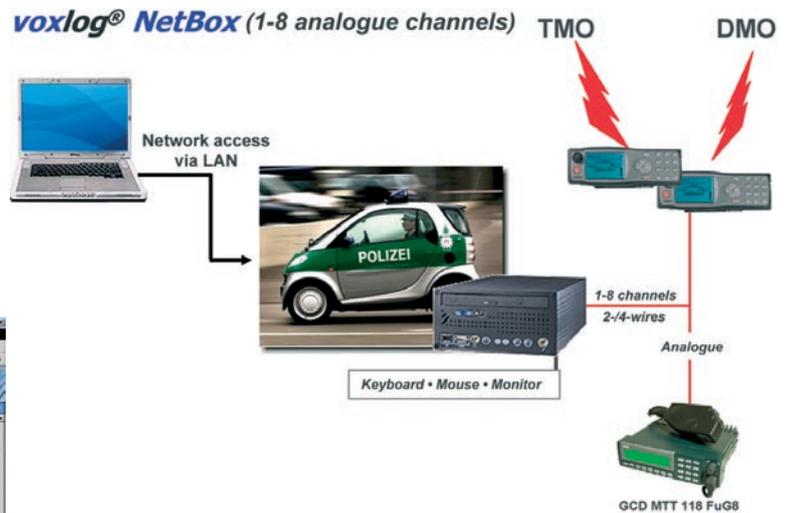
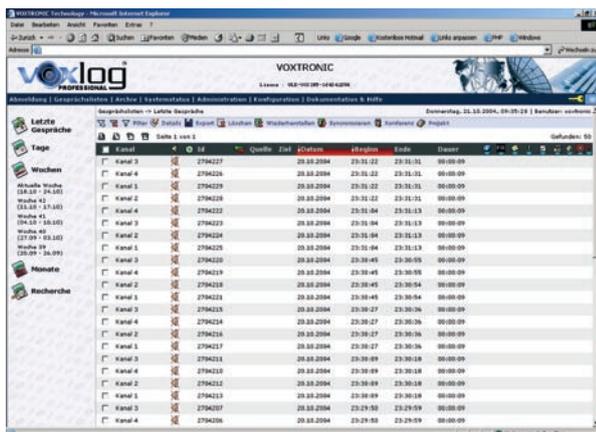
Intelligent radio control station technology like NORUMAT 4000 and its successor NORUMAT TIP provide state of the art emergency call technology. It fulfils both, the high security requirements of the BOS (Public Authorities and Organisations with Security Tasks) as well as the requirements of the civil sector i. e. radio control stations of local public transport companies or airports.

NORUMATTIP

Voice Recording Systems

Voice recording today constitutes an important security aspect in many areas. For the BOS customers (public authorities and organisations with security tasks) in Germany SELECTRIC exclusively offers the innovative voice recording systems of Austrian manufacturer VOXTRONIC.

With its system „voxlog professional“ VOXTRONIC provides the most advanced system for analogue and digital voice recording for radio control stations currently available.



By means of web-based user-interface and modularly upgradeable hardware “Voxlog” offers both easy handling for the user and manageable investment.

The new “Voxlog Netbox II” has been developed in collaboration with SELECTRIC and has been successfully introduced to the market.

First of all in the mobile sector the Netbox II - fitted in a 19”-housing - provides innovative voice recording technology for documenting communication in radio control stations.



TETRA – The New Digital Radio Standard

The German Public Authorities and Organisations with security tasks (BOS) together with police, fire and ambulance services intend to start setting up a finally area-wide digital radio network based on the TETRA 25 standard in mid 2006.



In that context the security features associated with the TETRA network constitute an especially high significance for the BOS. Calls can practically not be intercepted because voice and data transmissions are encrypted. In addition, the signalling data and the user's identities are also encrypted, so that no movement data and user's identities of communicating partners can be analysed.

sepura The use of dynamic encryptions, also made available by TETRA, increases security even more.

Even in places where no TETRA network radio cells have yet been installed, the communication of police, fire and ambulance services with digital end devices can be guaranteed; over a limited distance these can also establish a contact directly, without interconnected base station, similar to classic 2-way radios.



In addition to the „ordinary“ features of mobile radio networks and the simultaneous transmission of data and voice, the TETRA radio network offers several „specialties“ that also are of particular interest for public authorities and organisations with security tasks (BOS sector).

Thus the users can communicate in the TETRA network by using the end terminal in different ways :

- in normal telephone mode,
- in PMR mode (alternate communication)
- or in group mode

Therewith a user can call many different partners simultaneously - e.g. in case of an emergency call – or can dial into a defined group at any given time, if his end terminal has been configured as such.



Exclusive Partner for German BOS Sector



In order to offer high-quality end terminals to the German BOS Sector and to the conventional digital PMR sector, SELECTRIC co-operates since January 2006 with one of the market leaders of digital TETRA end devices, the network-independent Sepura Limited from England. Thirty years of professional competence and experience of SELECTRIC in building infrastructures, marketing end terminals and performing comprehensive repair and maintenance services unite with one of the leading suppliers of TETRA end terminals. The reliability and great flexibility of Sepura terminals in realising individual requirements are documented by the successful deployment of these terminals in Great Britain, Russia and the entire EMEA area.



With more than 200 staff members at the company's headquarters in the university town of Cambridge and a network of sales and integration partners around the world, Sepura is the specialist for TETRA and TETRA terminals in the most diverse operational areas BOS (public safety authorities and organisations), military or industrial applications.

It is the wide distribution of digital Sepura terminals in Great Britain, Russia and the whole EMEA area that demonstrates the terminals' reliability and flexibility in realising individual requirements.

SELECTRIC has been appointed exclusive partner for the German BOS market. In this context SELECTRIC not only represents distribution and after-sales service of Sepura terminals but is likewise responsible for repair services at its Münster/Westphalia headquarters.



STP8000 – the new digital flagship hand-portable of Sepura



The brandnew hand-portable STP8000 of Sepura opens a new dimension in performance for digital TETRA hand-portables. Fascinating technology without compromise together with a maximum of security, user-friendliness and a tough (due to an internal metal frame) but light and compact housing – that is how the new STP8000 is “ready for action”.

Classified protection class IP55 and equipped with the up-to-date largest front-facing loudspeaker in a TETRA hand-portable (one-watt audio power) the STP8000 provides ideal features for daily use in the fields of public safety, military, transport and logistics; especially under extreme usage conditions.

By means of RF-Power up to 1,8 W in TMO and DMO Mode and deployable as well as DMO-Repeater Type 1 the STP8000 has enough capacity reserve available for every case of operation.

The extreme large 30 X 38mm high resolution TFT-display displays navigation maps and photos in up to 262 K clear and brilliant colours. Without backlight the STP8000 (e.g. in case of direct solar irradiation) display is switching to monochrome mode; therefore it is much better readable compared to a conventional display. Three selectable text modes and the 180 degree rotatable display make it unique.

Several integrated encryption algorithm provide security regarding voice and data transmission as well as a guaranteed future with respect to the technical equipment of the device. By means of the “BOS-Security Card” the STP8000 supports the operative-tactical ISSI-address and end-to-end encryption. An additional Micro SD Card with up to 8 GB currently allows the use of further security and other applications.

More features:

- SGPS integrated option with integrated sGPS antenna and optional Bluetooth™ Module
- Maximum of 9000 Talkgroups in TMO/DMO
- Easy and quick change of battery
- Standard SMA-Antenna-Connection for use of external antennas



Special solutions for special requirements - made by Sepura



STP8100 – the solution for fire fighters

As a variant of the Flagship STP8000 Sepura's STP8100 series offers a special solution targeting fire fighters.

Offering nearly all performance features of the STP8000 the STP8100 abandons the alphanumeric keyboard and thus allows fire fighters an easier handling of the unit. Usage of the same accessory, the same connectors and the same programming software make the hand-portables of STP8100 series an ideal solution for every day use.

Like the related types of the STP8000 series the STP8100 can optionally be equipped with a so called "man-down" function" or a "man-down switch" as well as a position and motion detector.

The latter one provides the same sensorial complexity that is known i.e. from the world's leading game console Nintendo Wii. The sensor of the radio records movements and the current position of a fireman in the room in three dimensions,

Via GPS – or Blue Tooth if requested – the radio is equipped to transfer movement profiles to the control station. As soon as the man-down function is activated, in an emergency case both, the control station and members of the active talk group are informed via emergency call SDS and thus can initialize rescue operation immediately.

A familiar look: The Hand Based Console HBC.

Presenting exactly the same "look and feel" as the STP8000, the hand based console (HBC) not only is the first hand based console for TETRA digital radios but also offers the user the familiar handling he already knows from the STP8000.

The persuasive advantages of this innovative product include a pleasing handling as well as a simplified assembly in the car – and thus a considerable saving potential of assembly costs – as well as the option to even increase savings when using the car phone preparation.





STP8000 – a terminal that meets many requirements

The radios of the STP8000 series offer excellent performance characteristics not only for standard operations. Also with regards to special requirements on communications technology, e.g. “covert surveillance”, the radios combined with the relevant headsets ensure perfect communication between users.

The connection of the pictured so called “Remote Control Unit” (RCU) from Phonax allows e.g. the remote, inconspicuous operation of the radio (i. e. turning on or off the loudspeaker, changing talk groups).



Sepura Desk Mount Console



The newly developed Desk Mount Console for remote use of the transceiver unit offers an outstanding operating comfort.

Two different models of the console are available, designed to be used for different requirements and conditions. The so called „10 m type” for short distances as well as a LAN based 100 m type designed to bridge larger distances between console and transceiver.

Whereas for the 10 m type standard cables are used, the connection of the LAN based 100 m type is realised as CAT connection between Desk Mount Console and the site where the transceiver unit is installed.

TETRA Accessories

With an extensive accessory range SELECTRIC offers of course numerous solutions for the digital radio communications as well. A large number of products are available for both, standard requirements and special operational conditions and requirements.

As exclusive distributor of the supplier SAVOX, SELECTRIC offers a wide range of innovative headsets and PTT units to be connected to digital radios. With products from Phonak (e. g. the "Profilo" for covered wear), IMTRADEX (e.g. the headset "Aurelis) and INVISIO there are also headsets available which are particularly orientated to the enhanced functions of digital radios. In addition to voice communication these headsets are provided for further data applications that could be made available for the user via the hand microphone.

A large range of charging accessories, antennas, covert antennas and covert accessories of different manufacturers rounds out our portfolio.



NiTD – mobile remote control for Sepura TETRA-Terminals



The launching of digital TETRA-Radio system technology opens plenty of new possibilities regarding Voice- and Data-Communication for the police, fire brigades and rescue services. This affects in particular tactical relevant functions e.g. control and observations of TETRA terminals by mobile radio control centres.

A convenient and effective organisation of a multitude of radios and mobile radio units with different tasks (e.g. radio, repeater or gateway) and independent of the TETRA-net infrastructure constitutes a basic technical challenge to mobile dispatcher-workstations.

Especially for this purpose Selectric developed in collaboration with Sepura the so-called “Network independent TETRA Dispatcher” (NiTD), a unique and innovative solution, meeting the special BOS requirements.

In connection with the Sepura terminals the NiTD for the first time offers the possibility of complete remote control and observation of operating radios by using special status signals - so-called “Status triggered functions”.

Thus both in TMO-mode and net independent in DMO-mode it is possible either for single device or groups e. g. to change talkgroups or to switch from one operating-mode to another (FMO, DMO, Repeater- or Gateway-function).

Via intuitive user interface, inter alia optically displaying the current geo data, the responsible dispatcher is getting information regarding the current situation and activity of single persons and task forces. Using “drag and drop” more than 70 radio-functions can be observed and controlled depending on the operations circumstances. Change of subscriber group membership as well as setting up of dynamic groups can be carried out quickly and easily.

Predefined operating scenarios including building plans, group classification and further details support comfortable and effective organisation - especially in case of major emergency.

By means of “performance monitoring” as integral part of NiTD it is possible to check and document signal quality of Sepura terminals and radio coverage via SDS. “Automatic Vehicle Location” in connection with GPS allows determination and on-screen display of the position of single Sepura terminals as well as of the distances between them.



TetraFlex® – a simple and affordable way in digital radio systems

As a sales partner of the Danish manufacturer DAMM Cellular Systems, one of the leading manufacturers of Tetra technology for the PMR/PAMR-market, SELECTRIC rounds out her portfolio in the range of private and public trunked radio offering intelligent but still affordable solutions for the upgrade from analog to digital radio systems.



With the single-cell, complete Micro TETRA-system TetraFlex® by DAMM, SELECTRIC offers a digital radio solution to build up local or regional TETRA networks.

Fixed in a robust, weather proof casing the size of a shoe box, TetraFlex® outdoor base stations deliver with up to 4 carriers divided among 16 time slots for voice and data transfer. If more capacity is needed or other harsh conditions require, the TetraFlex® indoor base stations deliver with up to 8 carriers the equivalent of 32 time slots.

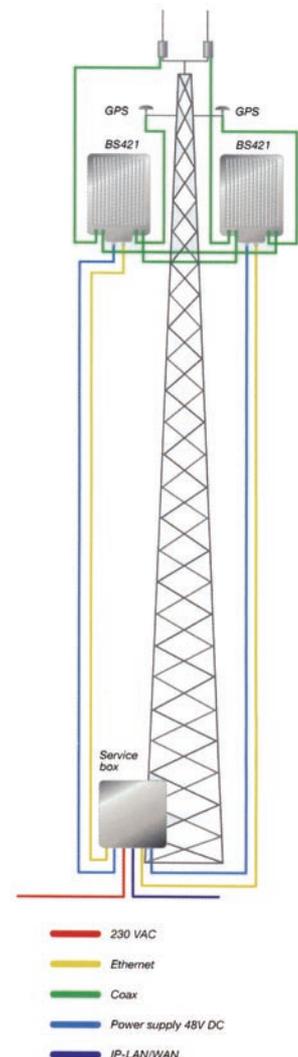


Due to the flexible architecture of TetraFlex® system, place and type of application can be adapted to the current tasks and requirements.

The system is made for fixed use at an aerial mast as well as for mobile application and thus allows digital speech and data communication between colleagues, vehicles and engines within a radius of up to several kilometers. Radio participants can communicate one-to-one or in groups; the connection is available immediately after pressing the terminal's PTT-key.

Via modern voice over IP connections (VoIP), telephone calls can be made free of charge to the private telephone system or at fixed network charges to the public network. Short messages can be sent to other participants either directly or IP based via the integrated SDS-gateway using other services. An Application Programming Interface (API) allows to connect special speech and data applications and thus to realize remote measurement, remote control and malfunction message systems easily.

The DAMM Mikro-TETRA system offers an affordable solution for the internal mobile communication that allows to use the advantages of the current standard of digital radio technique simply, quickly and safely.



Mobile Radio PC – control center of BOS emergency vehicles



Full-Scale of the housing:
120x100x44mm

Nowadays the technical equipment of the BOS emergency vehicles is highly complex and comprises of different components. Already today, in addition to the analogue radio technology also technical enhancements like navigation via automatic FMS vehicle routing and use of rear view cameras have found their way especially into the emergency service.

The introduction of TETRA digital radio communication offers new, interesting and tactically valuable performance characteristics and yet, during the migration phase, many vehicles will be equipped with analogue and digital radio technology at the same time.

In order to ensure an easy and fast operation – especially against the background of the high number of systems and components installed – it is indispensable to pay high attention to a well thought out operating concept. In this connection the fast development and market penetration of so called Car PCs provide an approach – also for BOS – for a central control of radios, rear view cameras, navigation equipment, etc.



With its Mobile Radio PC SELECTRIC presents a solution for emergency vehicles. Combined with a TFT touchscreen, which is provided for quick integration, and a clearly arranged user interface, all components mentioned above can be operated quickly and easily. The application of a transfective TFT display ensures outstanding contrast values and an excellent operability even in case of extreme solar irritation.

In an emergency case most challenges are time critical and thus the technical equipment used must be ready for operation at short notice. Long start-up periods not allowing an immediate use of such equipment or prompt communication cannot be accepted.

The Mobile Radio PC of SELECTRIC makes all functions available within a very short time after power on. Via a separate controller it is also possible to switch on the PC per TETRA status message (SDS) – e. g. from a control station. In addition radio communication will be secured and maintained in the last selected talk group – even in case the PC is not activated.

It is the successful mobile radio SRG3900 of Sepura which is used as TETRA terminal. This radio as well as an already existing analog radio (i. e. FuG 8/9) is completely controlled via the TFT touchscreen. If necessary the analogue radio may be replaced by a digital radio (Sepura SRG) later on. Especially for the operation in rescue and emergency services the Mobile Radio PC provides an interface for an electrical registration of the patient data.

As a flexible solution, navigation is provided via maps of Map&Guide.

RFID – Innovative Device and Fleet Management for Sepura Terminals

The Radio Frequency Identification (RFID) is a key technology that fundamentally changes processes, e. g. in logistics, transport and merchandise management as it allows non-contact data transfer. However, RFID not only changes the processes in the trade in goods fundamentally but also supports a number of applications in many different areas.



Especially with regards to the implementation of TETRA digital radio communication RFID technology is an excellent approach to meet the high requirements in logistics and administration for the supply of thousands of terminals. The typical field of application of RFID radio chips is their individual identification with regards to the logistic and administrative processing of terminals - as replacement of the typical type label.



So based on its specific data that is stored on the RFID radio chip it is possible to automatically identify each single device. In the framework of the device and fleet management special reading devices are able to read-out and allow to electronically process data contactless and without manually opening the packaging of the device.

Besides the advantages of the RFID technology in logistics and administration there are further applications available when using this innovative technology in combination with Sepura digital terminals, e. g. time recording, access control and local positioning.



Within the framework of the access control to certain areas, e. g. used in buildings or for time recording, it is possible to record arrival and leaving times and break times. For this purpose the user only has to put his hand-portable that is equipped with a RFID radio chip near the reading device of a terminal.

The Sepura terminals of the SRG and STP series can be supplied with RFID radio chips on request. Due to the tamper-proof connection of the chip with the Sepura hand-portable or mobile radio, its clear identification is guaranteed at all times. The specific data of each terminal, e. g. serial number, TEI number and manufacturer data are stored on the chip.



Portable TetraFlex®-Box – Digital Radio In Every Situation



Tetra-Net introduction requires also innovative solutions regarding radio at deployment locations. Established coordination processes and command structures ought to be retained and at the same time the possibilities of the digital radio technology should be used optimally.

Concerning smaller operations digital technology offers by means of DMO-mode a suitable alternative to today's analogue radio. But when operating in DMO, TETRA-features are only available with restrictions. Cases of major disasters with complex requirements to communication at deployment locations demand too much of Tetra-Technology as sole communication channel.

Based on DAMM's worldwide successful TETRA-System Selectric has developed a portable Tetra-Box that provides an innovative solution regarding these special and spontaneous operating scenarios!

The compact, extremely flexible and at the same time completely self-sustainable portable Tetra-Box enjoys all the advantages of TETRA radio at deployment locations. The portable Tetra-box as standard equipment in mobile control centres depending on the area typology even provides digital radio coverage for large-area operations.

If no optimal radio coverage can be set up on the deployment location, the portable Tetra-Box offers the possibility to set up the digital radio net from a site with better radio conditions e. g. from

the top of a multi-storey building or from higher location. In doing so the power supply is secured either by the vehicle power supply or an external generator or the integrated emergency power supply battery.

The rugged and spacious hard-top outdoor-box contains the complete TETRA-unit, but in spite of this it is easy to handle and protecting the system from humidity, sand and dust.

2 integrated ventilators guarantee an error-free running system even during continuous operation with closed top. N-shaped HF-connectors and Neutric-plug connections with mechanical arrest bring out the outdoor features!



sepura

In connection with digital terminals e.g. by Sepura it therefore is possible to setup and use a digital network fast and trouble-free.

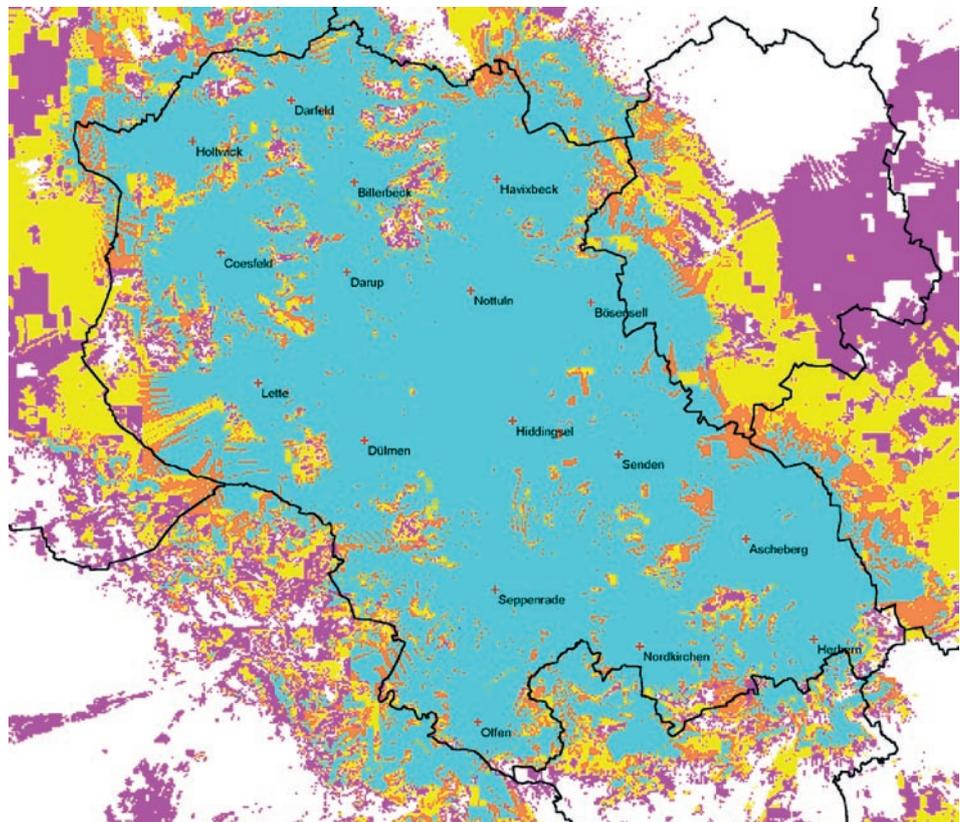
Network Project Planning for Radio Systems

While commercialising radio systems the planning of locations for the radio stations is essential for the customer. In close co-operation with the customer SELECTRIC determines possible locations by using special software tools and from there calculates the project planning basis.

Afterwards, these planning data will be verified on site and optimised according to the conditions found „in the field“.

Based on the acquired data SELECTRIC generates for the customer an individual and complete supply proposal for the projected radio network.

Example of a computer-aided radio network planning for digital alert:



System Maintenance / Maintenance Contracts

Highly complex systems in the particularly sensitive BOS sector, as described on the previous pages, require continuous maintenance and support. Furthermore, the operators of communication facilities not only expect a high operational system availability but likewise short response times in respect of fault analysis and repair.



With this team of radio communications specialists SELECTRIC ensures the continuous availability of the set up radio control organizations, common wave radio and alert systems as well as digital TETRA radio communications systems.

This allows an extremely short response time in case of a necessary fault analysis and repair. The scope of the repair activity and support is defined and fixed by contract individually for each customer.

SELECTRIC offers its customers the so-called preventive maintenance as part of the maintenance contract, thus increasing the fail-safety once more. This preventive maintenance are carried out in compliance once a year at a minimum.



Logistic



By launching its new state-of-the-art logistics centre in October 2003 SELECTRIC set the course for the current and future requirements regarding distribution of goods through the most diverse distribution channels. For logistics services extensive capacities are available which enable the realisation of special customer requirements.



A fully electronic inventory control system together with modern logistics software administer more than 4000 square metres of storage; thus single devices as well as bulk orders on pallets can be prepared for despatch within the shortest of time. Orders being placed at SELECTRIC before 16.00 hrs (before 17:00 hrs in case of express

despatch) will usually be despatched on the same day.

A central logistics service supplier, SELECTRIC supports the distribution channels of mobile communication providers in the field of GSM. For the specific logistics requirements of the BOS sector, like direct delivery of goods to end users, SELECTRIC is also positioned most favourably.



Additional capacities for a central BOS end devices' logistics are available for immediate use.

Order-related special programming and customisation of end devices, as often required in the BOS sector will be carried out in compliance with the respective federal states' requirements within a response time of 6 hours. Particular customising of end devices is already part of our service in the GSM sector.

Security

Due to its core competences distribution, logistic and service SELECTRIC sets a high value on security inside and outside its company premises. For the protection of the sensitive BOS and GSM hardware and for all company areas SELECTRIC installed state-of-the-art safety features and equipment.

These comprise an alarm system and a microchip-integrated access control for the staff together with an almost complete monitoring of the entire company premises by fully-automated video cameras recording every activity on video tape – using infrared light at night. In addition a security firm assures security during night hours.



Service / Repair

Furthermore the service and repair sector range among the core competences of SELECTRIC. One of the biggest and most powerful repair service suppliers in the field of mobile radio communications in Europe, the name „SELECTRIC“ stands for factory-like mass repair as well as complex and specialized detailed repairs.

Due to the increasing individualisation and complexity of end devices, with each respective device the most diverse problems have to be



tackled. After a thorough fault analysis repairs up to component level (level 3) are carried out at SELECTRIC. For this purpose the specially skilled and continuously trained service technicians can dispose of a large pool of high-tech repair tools (e.g. infrared soldering systems).

While just a few years ago the main focus of a repair was on the restoration of the devices' communications functions, today the preservation of the individual customer data stored in the device has become increasingly important. It is in this sensitive area that SELECTRIC over the past years has built up a specialist team whose specific know-how is a valuable source of information for partners in the specialised dealer sector and for end users.

In the area of warranty repairs SELECTRIC has been authorised by almost all leading manufacturers and renders these services in compliance with respective contractual agreements.

In order to secure smooth service logistics and thus to minimise the mobile devices' down time for the end user, SELECTRIC has developed a special „shuttle system“. At the customers' premises defective devices are packed into a plastic despatch box (shuttle box) provided by SELECTRIC, the box is then sealed and the insured box is picked up by UPS.



By means of a specially established hotline at SELECTRIC the state of the repair process can be inquired at any time. After the repair the shuttle box is used again, for return shipment of the repaired device(s) to the specialised dealer or end user.

This system allows for the repaired device – in clarified repair cases – to leave SELECTRIC within 48 hours and be placed at the customer's disposal.

Assembly / Special Installations



As a supplier especially in the field of BOS radio communication, SELECTRIC not only offers an extensive portfolio of end devices and accessories for many years now, but also equips up to 6 vehicles of all sizes with customised radio technique or signalling systems in its specially furnished assembly centre. According to EU regulation E1 (EMV, effective since 2002) only specialty firms are authorised to perform this sort of assembly.

Thanks to the general conditions for assembly and repair work created by SELECTRIC the vehicles' down-times during repair can be reduced to a minimum.

Special customer requests can also be realised without any problems and for mobile deployment a completely equipped vehicle is available.

Standardization (Planning and Setup of Emergency Vehicles)

Due to its longtime experience and recognised competence in the BOS sector and as a member of the DIN standardization body „ELW“, SELECTRIC was instrumental, at federal level, in the formulation of general regulations for the planning and set-up of emergency vehicles (mobile radio control stations) of all categories.

These vehicles (category ELW 2, as depicted on the left) of which the fire brigades of every administrative district and municipality possess at least one, are deployed in the case of major losses or disasters for the co-ordination of action forces and operating resources. Should a radio control station break down, these mobile commands will take over the co-ordination tasks.



Training



Permanent innovation and a distinctive competition characterise the mobile communication market. Therefore current information and ongoing training are essential to successfully operate on the market.

SELECTRIC supports its distribution partners by offering in-house trainings at the SELECTRIC training centre in Münster lasting one to several days. Online trainings via the internet enjoy increasing popularity among the partners who learn about the latest know-how and the most diverse topics relating to their business.

Experienced specialists, engineers and technicians from SELECTRIC provide information on the latest products, location analysis, marketing strategies as well as data services and service and repair techniques. Thus the SELECTRIC customers are in a position to advise their customers competently and comprehensively on all questions arising in the field of mobile communication so that the customers can repair smaller faults on the spot.

www.bosfunk.info – The Information Website all around BOS

On the occasion of the „Interschutz 2005“ SELECTRIC launched the new online information platform for the BOS world on the Internet.



This is where all prospective customers receive the latest information around the BOS world and can dive into the comprehensive product world of SELECTRIC, possibly unparalleled in this line of business! As different topics as new developments in digital radio or the latest product developments of end devices and accessories are presented here.

The user can choose between extensive information on BOS and PMR radio principles and many important subjects from the BOS sector, e.g. TETRA radio technology, in-house radio coverage, digital alert, voice recording, emergency-call query and common wave radio.

By publishing its entire radio communication product range on offer, SELECTRIC provides the registered user with a product catalogue that offers unequalled opportunities; individual requests for performance features or prices can be obtained from SELECTRIC'S specialists at the click of a button.

SELECTRIC is aiming at establishing a central turntable for information all around the BOS sector.

How to contact SELECTRIC Nachrichten-Systeme GmbH

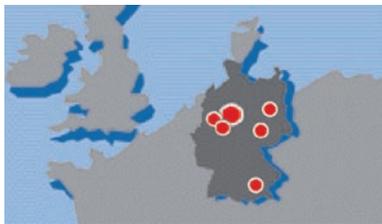
You are looking for competence in TETRA digital radio communications, BOS radio communications for Public Authorities and Organisations with Security Tasks (BOS), GSM mobile communication, Public Mobile Radio communications, planning and installation of infrastructure and radio control stations, service and maintenance services and logistics?
Please contact us:

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Your Information Platform for BOS radio communication on the internet

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