GEDIS

Your expert partner
for application
and system development

GEDIS – a subsidiary of the Rohde & Schwarz company group

In times of ever tougher competition and rapid innovation …

For large user organizations (e.g. industrial enterprises, service providers, internal and external security bodies), continuous innovation and automation of their business processes are of vital importance. Once they recognize the potential for improvements and savings, they want to automate their processes as quickly as possibly to maintain and further increase their competitiveness. This is where the choice of the right system partner is of crucial importance.

GEDIS

GEDIS offers a wide range of high-grade technical services based on its long-standing experience in application and system development for governmental organizations, service providers and large system and product manufacturers in the areas of
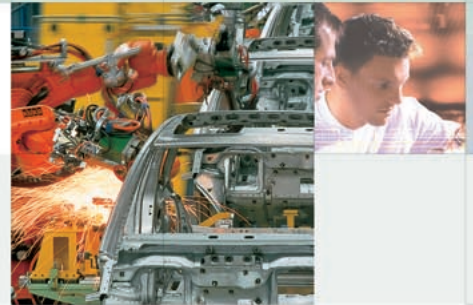
Defence and internal security

Aviation, medical engineering and telecommunication

Traffic & logistics

We can assist you by carrying out complex development projects or handling all system responsibilities associated with the implementation of application and system solutions specifically tailored to your needs. We are an experienced system partner offering an attractive price/performance ratio. Our successful projects are based on trustful, reliable and communicative cooperation with our customers, as well as on the experience, qualification, methodical approach to work and true spirit of innovation among our staff.
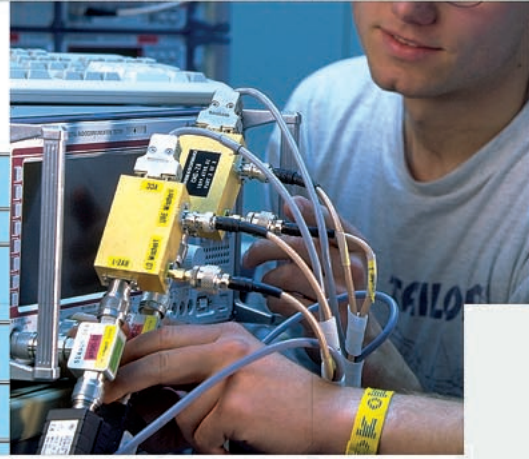
For large system houses, maintaining and expanding their customer base (account management) as well as gaining new customers (account development) are of vital importance. In this context it is often necessary to adhere to schedules and prices that involve high risks. As an "extended workbench", we offer you professional support in project management, hardware and software development, as well as in system integration. For product manufacturers, it is of crucial importance to reduce the time to market in order to maintain and expand market position. Limited development resources are concentrated on strategic product lines, often at the expense of a full range of products (peripherals) and the development and maintenance of production facilities. We offer you professional support in the development of products and production facilities.

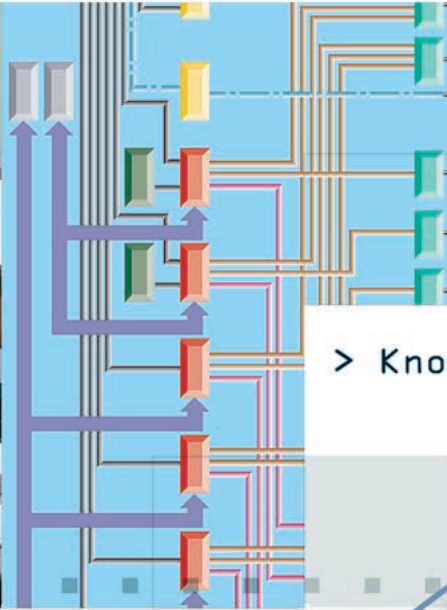# … it is vital to create plannability, flexibility and efficiency in development, …
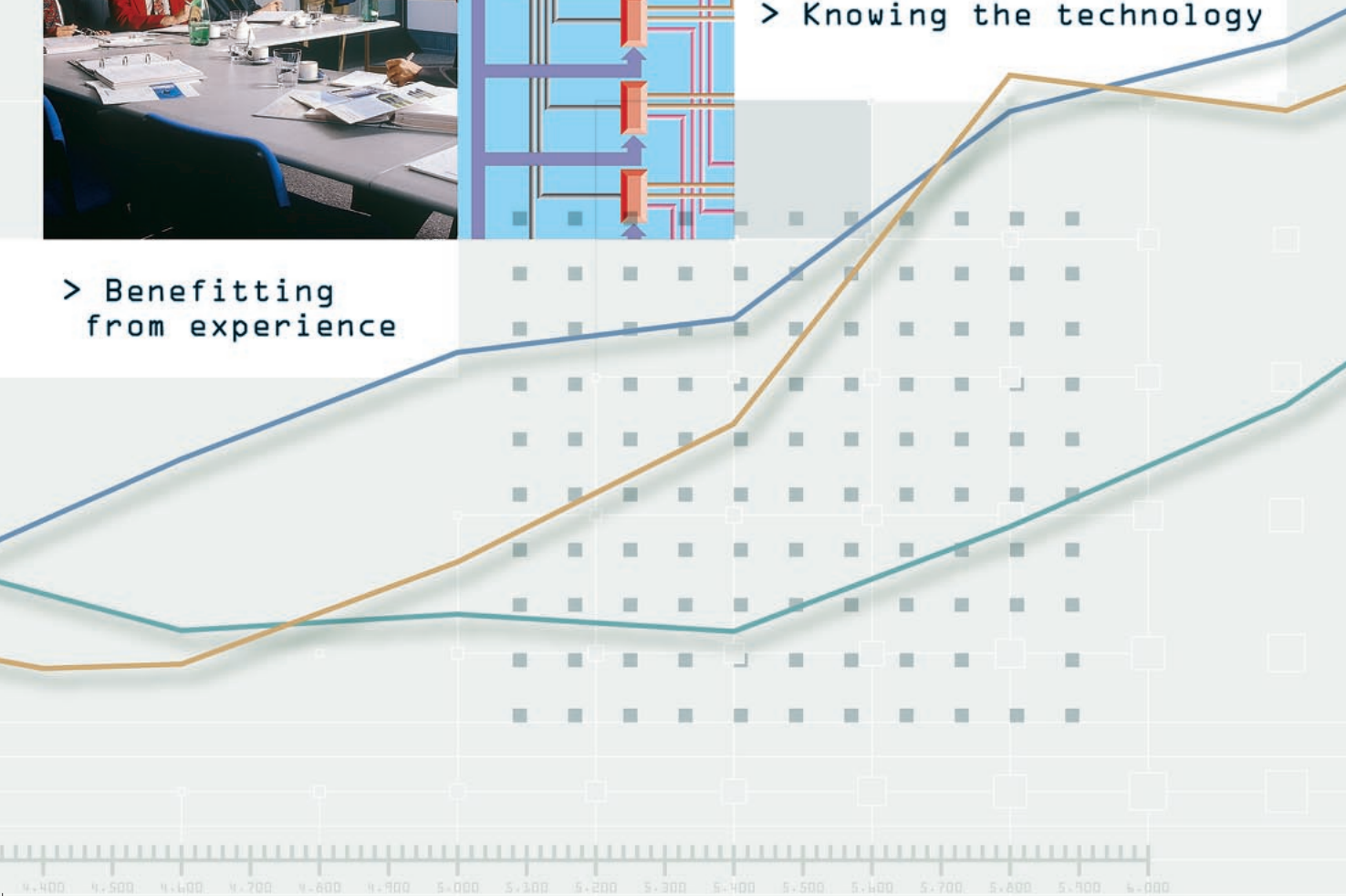
> Working methodically

> Knowing the technology

> Benefitting from experience

...and these are our capabilities

Equipment and system development

Tasks

Development of production facilities

Development of products to round out product ranges

Development and supply of small batches

Development services for manufacturers (e.g. in line with DO 178)

Development of test and verification systems

Modifications and adaptation developments

Solutions from GEDIS

- Test and inspection systems for the repair of optical and electronic equipment in Leopard I and II battle tanks
- Development of digital control for hydraulically stabilized platforms
- Test and validation systems for engine control
- Software development for cabin control in Airbus aircraft
- Development of in-seat power control unit for Airbus aircraft
- Development study for audio concentrator in Airbus aircraft

- Test and validation systems for telecommunication systems
- Development and supply of special electronic parts for medical equipment
- Further development of electronic modules and equipment for high-grade and durable capital goods in the defence, aviation and medical technology sectors
- Services provided by our EMC test lab

System development and system integration

Tasks

Implementation of user requirements in turnkey IT systems

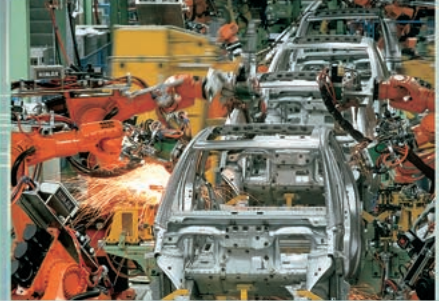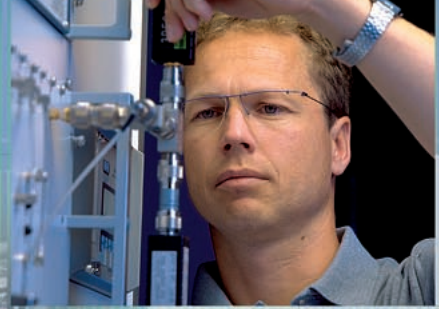**Carrying out of development projects supported by secret service**

Solutions from GEDIS

■ For the air force of one of the NATO member countries, GEDIS has developed a detached remote monitoring and control system which provides continuous remote monitoring of the radar systems located throughout the country. Any faults are identified down to line replaceable units (LRU) and are reported. The system detects, locates and describes the causes of the fault and supports the maintenance personnel in the repair. The heart of the system is a self-learning expert system for recognizing repaired faults.

■ For the German Navy, GEDIS has carried out a project for improving the mission effectiveness of the naval reconnaissance system. In this project, the various sources of information of the measuring equipment on board the fleet service vessels of the German Navy were combined, signal sources classified, geographical position displays derived, and the signals processed for subsequent evaluation.

■ For a customer with specific requirements regarding IT security, GEDIS has developed a mail guard system. This system ensures adherence to procedure, e.g. that the need-to-know principle is also followed in the communication with other IT systems. As part of an evaluation beind conducted in parallel with development, the core of the system is being certified inc accurdance with „E4+/high" by the German Information Security Agency. The system will be the first IT system of its kind to obtain a certificate for this quality level. This includes a secure development environment, trustworthiness in development, verification of the formal model and secure system generation.

Application development and consulting

Tasks

Determination of user requirements

Implementation of user requirements in turnkey IT systems

Solutions from GEDIS

■ GEDIS has developed a computer-aided public works management system for operators of public works (local public transport, logistics service providers). Based on touch-free identification (transponders, displays, barriers, etc), the system includes modules for operations planning, cost recording, repair, vehicle status diagnostics and parking lot management.

■ For a multinational airline company, a tracking & tracing system (trolley management) has been implemented that traces and controls on a worldwide basis the flow of the food and beverage trolleys (aircraft, store, repair, catering, etc).

■ Leading car manufacturers use a car body identification system from GEDIS to control their production and material flow.

■ For paper mills, a free storage space management system has been developed that provides functions for the disposition and monitoring of packages, control of forklifts, management of storage locations, and tracking of all processes for storage, transfer of storage and removal from storage.

■ For an engine manufacturer, GEDIS has developed a system test facility (STF) for verification of the electronic engine control functions (EEC) and the hydro-mechanical rig (HMR). To perform the control verification with the STF under highly realistic conditions, the two test benches can be coupled so that the EEC is partly operated with real engine components.

Who we are and what we do

GEDIS is a system house with an international presence in the field of information and communication technology. The company is headquartered in Kiel, capital of one of the northern states of Germany. Highly motivated and qualified project managers, application experts, technical program managers and developers – predominantly information scientists, physicists, engineers and technicians – are the basis of our success.

Rohde & Schwarz, our majority shareholder, is Europe's largest manufacturer of electronic test and measurement equipment and a leading supplier of professional intelligence, IT security, broadcasting and radiocommunication technology.

Clearly defined responsibilities and fast decisions are our forte. Our name is synonymous with quality, flexibility and an attractive price/performance ratio. Being a member of the Rohde & Schwarz group of companies means reliability and security for our customers.

Today GEDIS is active in the following areas:

Equipment development

Application and system development

Consulting and system integration

We offer products and services for governmental organizations, service providers and large system and product manufacturers in the areas of defence and internal security, aviation, medical engineering, telecommunication, traffic and logistics.

Some of our customers

German Federal Office for Defence Technology and Procurement · Controlware GmbH · Daimler Chrysler Aerospace AG · Danish Army Maintenance Centre · Dornier Medizintechnik · Deutsche Post AG · Hagener Straßenbahn AG · Krauss-Maffei-Wegmann GmbH & Co. KG · KID Systeme GmbH · Lufthansa AG · National Defence Headquarters Canada · Papierfabrik Varel GmbH & Co. KG · Philips Medical Systems · Rohde & Schwarz GmbH & Co. KG · Rolls-Royce Aero Engines GmbH · Scandinavian Airlines System · Stadtwerke Lübeck.

Certifications and accreditations

Our quality management system is certified to ISO 9001 and we operate an EMC test lab accredited by DATech.

GEDIS

If you want to know more, just call us:

+49(431)-60051-0

You can also visit us on the Internet:

www·gedis-online·de

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