



Scope of Delivery R&D Solutions

The service packages of the R&D Solutions development department are closely aligned with the needs of our customers. All four variants include the development of a new product and share two key characteristics:

| Our customers receive exactly the solution they need.

| The investment in R&D Solutions services creates measurable value for our customers.

- Bronze:** Development services according to specifications, without manufacturing
- Silver:** Development services and manufacturing by GTE Industrieelektronik
- Gold:** Development services and external manufacturing (customer-side)
- Platinum:** Development services in co-design: customized solutions



Creation / Development of a New Product

	Bronze	Silver	Gold	Platinum
Support in preparing a requirements specification	✓	✓	✓	✓
Functional specification to regulate processes between the customer and R&D Solutions	✓	✓	✓	✓
Quotation for the feasibility phase according to the new product process	✓	✓	✓	✓
Quotation for phases N2 to N4 according to the new product process	✓	✓	✓	✓
Rough quotation for production by GTE	✓	✓	✓	✓
Support in accordance with the German R&D Tax Incentive Act	✓	✓	✓	✓
Prototypes after phase N2	✓	✓	✓	✓

(Included in all packages: Bronze, Silver, Gold, Platinum)



Development Results – Hardware

	Bronze	Silver	Gold	Platinum
Bill of Materials (BOM) with GTE part numbers as PDF	✓	✓	✓	✓
Bill of Materials (BOM) with GTE part numbers as XLS	✗	✓	✓	✓
SBill of Materials (BOM) with - manufacturer and - manufacturer part numbers as XLS	✗	✗	✓	✓
Bill of Materials (BOM) with customer-specific part numbers as XLS	✗	✗	✗	✓

Development Results – Electronics

Schematic as PDF	✗	✓	✓	✓
Schematic as Altium Designer file	✗	✗	✓	✓
Layout as PDF	✗	✓	✓	✓
Layout as Gerber file	✗	✓	✓	✓
Layout as Altium Designer file	✗	✗	✓	✓
Pick-and-place file	✗	✗	✓	✓
ODB++ file for test equipment manufacturing	✗	✗	✓	✓
Mechanical data of PCB and components as STEP file	✗	✗	✓	✓
Mechanical co-design with SolidWorks – Altium A365	✗	✗	✗	✓

Development Results – Mechanical Design

Drawing as PDF	✓	✓	✓	✓
3D view as PDF	✗	✓	✓	✓
3D design as STEP file	✗	✗	✓	✓
3D file as SolidWorks file	✗	✗	✗	✓

Development Results – Embedded Firmware

GTE supplies processors programmed for production	✓	✓	✓	✓
Installation files for PC software	✗	✓	✓	✓
Embedded firmware as source code (GTE know-how as binary file)	✗	✗	✓	✓
Embedded firmware as complete source code*	✗	✗	✗	✓

Development Results – Full Stack Development

Graphic design of PC software, app, or web application	✗	✗	✓	✓
Installationsdateien für PC-Programm	✓	✓	✓	✓
Source code for PC software (GTE know-how as binary file)	✗	✗	✓	✓
Source code for PC software, complete*	✗	✗	✗	✓

App / Web Application

Installation files for app or web application (iOS and Android or web)	✓	✓	✓	✓
Source code for app or web application (iOS and Android or web)	×	×	✓	✓
Source code for app or web application, complete*	×	×	×	✓
Publication in app stores as a GTE app	×	✓	✓	✓
Publication in app stores as a customer app	×	×	×	✓
Documentation of the initial setup of an application on AWS	×	×	✓	✓

Documentation for Certification According to

EMC Directive	×	✓	✓	✓
Low Voltage Directive	×	✓	✓	✓
ATEX / IECEx Directive	×	×	✓	✓
Functional safety according to Machinery Directive / Machinery Regulation or Pressure Equipment Regulation	×	×	✓	✓

Certification According to

EMC Directive	✓	✓	✓	✓
Low Voltage Directive	✓	✓	✓	✓
ATEX / IECEx Directive	×	×	✓	✓
Functional safety according to Machinery Directive / Machinery Regulation or Pressure Equipment	×	×	✓	✓
UL certification	×	×	×	✓
VdS certification	×	×	×	✓

Operating Instructions

Documentation of the technical implementation as a basis	✓	✓	✓	✓
Content draft	×	✓	✓	✓
Standards-compliant implementation	×	×	✓	✓
Graphic design and layout	×	×	✓	✓

Packaging

Product dimensions as a basis for packaging design (customer-side)	✓	✓	✓	✓
Packaging design	×	×	✓	✓

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