

SOFTWARE & SERVICES

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RiCAD 3D

Greater efficiency in plant design

Whichever CAD system you use, RiCAD 3D helps you to maximise the efficiency and productivity of your plant design work.

It includes both 2D and 3D drawings for virtually all Rittal products, together with an extensive range of system accessories.

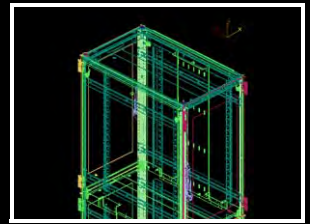
Four options for retrieving the CAD data

- Online: Request data from the product page on the Rittal website
- Online: Retrieve data via the Web platform "PARTcommunity"
- Online: As an app
- Offline: RiCAD 3D as a database on your hard drive

Benefits for users of RiCAD 3D

- All CAD data may be transferred into any commercially available CAD system, thanks to the intelligent, native 2D/3D multiCAD-compatible format.
- The accurately detailed and validated drawings allow users to create design drawings with optimum planning confidence, in a fraction of the time taken for conventional design, by simply remodelling.
- Thanks to the freely selectable level of detail in CAD models, these may be represented in a greatly simplified format, enabling huge performance enhancements among users.

Fast online access to original data in all commercially available CAD formats with direct downloading facility available at: **www.rittal.com**



Therm software

Precise, efficient climate control

The Therm software takes care of the time-consuming calculation of the required cooling or heating output, and proposes a suitable selection of products.

Benefits:

- Fast, thorough determination of climate control requirements
- Cost savings by identifying the correct climate control measures
- Easy calculation of the required actual cooling output, as well as any upgrades or enhancements to the switchgear.
- Detailed documentation is supplied with the calculation

Note:

- Download Therm for free at www.rittal.com



Therm app

The Therm app for smartphones handles the time-consuming process of calculating climate control requirements for individual enclosure assemblies. With its fast selection feature, the app is a compact variant of the full "Therm" software version.

The results can be sent quickly and easily as an e-mail. A user-friendly interface guides the operator to the most suitable, correctly dimensioned climate control component using the typical control elements of a smartphone.

All evaluations are closely based on the requirements of IEC/TR 60 890 AMD 1/02.95 and DIN EN 14 511 for enclosure cooling units.

Note:

- The Therm app can be downloaded for free from the App Store and from the Google Play Store



Android app



iPhone app



Tools/CAD data



Blue e+ app

The Blue e+ app supports the contactless exchange of information as well as quick on-site analysis via the NFC interface.

Benefits:

- Saves time when reading the units
- Access restriction via PIN request (PIN of cooling unit)
- Superior operational reliability, thanks to improved fault and maintenance management
- Identical displays and menu prompting as on the Blue e+ device display
- Direct links to online shop and service team
- Simple repair, maintenance and spare parts enquiries may be sent directly via your smartphone

Note:

- Download the Blue e+ app for free from the Google Play Store



Android app



RiDiag II

For the diagnosis, maintenance and long-term data capture of TopTherm units with e-Comfort controller. RiDiag logs equipment data and prepares an error list. RiDiag also allows you to display and set the device's operating parameters. Logged measurement data can be tracked in real time in the form of a diagram.



RiDiag III

Diagnosis software for the analysis and parameterisation of Blue e+ cooling units.

The following functions may be used in the device and efficiency cockpit:

- Quick analysis and setting of all parameters
- Display configuration: e.g. NFC, language, PIN
- Reading of historical data from the last two years
- Creation of service enquiries and selection of spare parts

- All parameters stored locally for reuse
- Software and firmware updates for devices

Note:

- Download RiDiag III for free at www.rittal.com



Rittal Power Engineering

Planning software for RiLine busbar systems and Ri4Power low-voltage switchgear with design certificate

The multi-lingual software package includes the following functions:

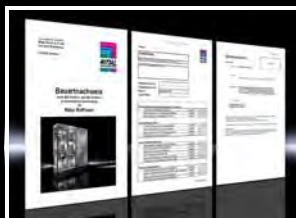
- Project handling, from the initial enquiry through to ordering
- Configuration of RiLine busbar systems in the TS enclosure, compact enclosure AE, CM, KS and free-standing enclosure SE
- Configuration of low-voltage switchgear with Ri4Power systems Form 1-4 and ISV
- Fully automated generation of complete parts lists and a calculation program for quote preparation
- Input and evaluation of assembly times to calculate man hours
- Access to the entire range of Rittal products
- Output of automatically generated system documentation with rated current and heat loss calculation
- Generation of special customer-configured fields with graphical processing in the CAD view

P. of	Model No.
1 pc(s).	3020.500

- Import/export interfaces for product and CAD data
- Export function for order and parts in Excel format
- Interface to Eplan Electric P8, for the export of CAD data and parts lists
- The extra benefit for engineering and planning offices: Output of detailed tender texts based on systems that were project-planned in Power Engineering in MS Word format
- Output of project-specific assembly plans together with field and plant definitions
- Integral configurator for the generation of drawings and parts lists to create connection kits for connecting air circuit-breakers (ACB)
- Simple generation of the design verification to IEC 61 439

Supply includes:

- DVD-ROM
- Languages: German/English/French/Dutch/Danish/Swedish/Czech/Italian/Spanish/Polish/Russian/Chinese



Enclosures

Menu-prompted configurators will help you to select the right enclosure and matching standard accessories, providing you with the Rittal item numbers for your parts list definition.

Rittal Configuration System

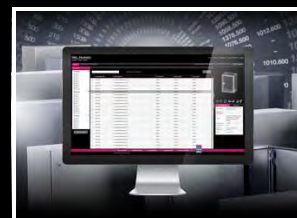
Plausibility-checked system configuration

Small enclosure types KL and EB and compact enclosure systems AE are now easily configured with the system configurator Rittal Configuration System. You choose your preferred enclosure and the matching accessories, and position them directly in the enclosure. Cut-outs e.g. for fan-and-filter units, switches, connectors and cable entries are easily planned and positioned directly on the enclosure with the Rittal Configuration System. Parts lists, drawings and technical documents for your configuration are generated automatically.

Benefits:

- Plausibility-checked, error free enclosure and accessory configuration
- Control of the ongoing configuration status with 3D visualisation
- Simple planning of modifications and machining of enclosures and housings
- Direct data transfer of the configuration results into EPLAN Pro Panel

www.rittal.com



Large enclosure selector

For the baying system TS 8 and the system enclosure SE 8, the principal accessory components such as base/plinth, side panel or light are quickly selected to match the enclosure.

Benefits:

- Simple, menu-prompted selection of free-standing enclosures or bayed suites.
- Accessories for interior installation to match the enclosure are quickly selected.
- The end result is a plausibility-checked parts list for downloading, or you may request a quote for your current configuration.

www.rittal.com



TS 8 CAD configurator

A complete enclosure configured in just eight clicks, including parts list and 3D model.

Benefits:

- Easy menu-prompted configuration of a bayed TS 8 enclosure with base/plinth, side panels and the required handle system.
- Mounting rails and punched sections with mounting flanges can be pre-assembled for interior installation
- This will produce a 3D drawing that can be incorporated directly into the system design or integrated into the CAD system

www.rittal.com



CM configurator

Rittal CM compact system enclosures combine the advantages of the AE compact system enclosure with the configuration diversity of the TS 8 top enclosure system.

Benefits:

- Easy, menu-prompted selection of a CM enclosure including base/plinth and gland plates to meet the requirements
- Appropriate interior installation accessories can also be selected to match the chosen enclosure
- The end result will enable you to request a quote for your current configuration

www.rittal.com



Configurators

Human/machine interface, climate control

Human/machine interface

Operation and monitoring play an increasingly vital role in mechanical and plant engineering. Rittal meets the exacting requirements placed on the "packaging" of the sensitive yet powerful electronics, with its integrated modular system at the human/machine interface.

Design, function and ergonomics are the distinguishing features of this product range. Rittal provides free Internet planning tools to assist with planning and engineering of the command panels and support arm systems. In this way, the right product for your customer application is achieved simply, quickly and reliably.



Command panel configurators for aluminium command panels

The online configurators for Comfort Panel and Opti-panel allow you to configure individual, perfectly coordinated panel solutions. Using a catalogue of questions, the configurators automatically guide you through the individual selection masks until you have compiled a complete system. The system also has a built-in smart consistency check to ensure that your configuration is complete and error-free.

Benefits:

- Select the enclosure to match the HMI panel used (the integral database contains a variety of commercial panels from various manufacturers)
- Navigate easily through the catalogue of questions
- Quickly compile the required features
- Request a quote based on the selected data records
- Request a 3D CAD model for integration into the system design

www.rittal.com



Support arm configurator for CP 40/60/120/180

The tool will precisely define the correct support arm system using key user-specific parameters such as the jib length, enclosure weight or required cable cross-sections.

Benefits:

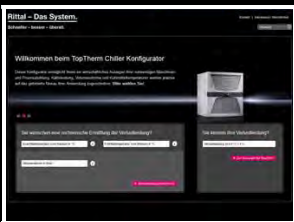
- Individual assembly tailored to the requirements of the application
- Built-in consistency check
- The outcome is a plausibility-checked parts list plus CAD data for the configured components
- Order directly from the online shop

www.rittal.com

Climate control

The right choice of climate control components has a decisive influence on the smooth functioning and cost-effective operation of your systems.

The following configurators will help you to select the optimum climate control component quickly and easily.



Chiller configurator

The chiller configurator is a cost-effective way of designing your required machine and process cooling. Cooling output, volumetric flow and refrigerant temperatures are precisely tailored to your required application.

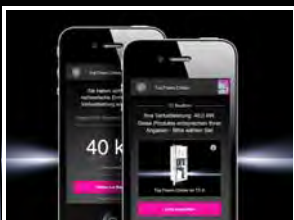
Benefits:

- Calculate the heat loss, either mathematically or manually
- Comprehensive range of accessories
- Drawings downloadable in dwg, pdf, or 3D pdf format
- Downloadable specifications/tender texts

- Interactive performance diagram: Cooling output and pump capacity
- Add option packages and download bill of materials
- Transfer order list to shopping basket
- Send a quote request

Note:

- The chiller configurator is available at www.rittal.com



Chiller app

The Chiller app allows users to make their selections from a mobile device. Designed to complement the existing online version of the chiller configurator, the app also supports automated calculation of the required cooling output. See page 475.

Note:

- Download the Chiller app for free from the App Store



iPhone app

Configurators

IT Infrastructure

IT infrastructure selector

Supports you as partner, system integrator, system engineer or end customer in selecting the right IT products for your specific application.

Selector for:

- TS IT network/server enclosures
- Power Distribution Unit
- Liquid Cooling Package DX/CW
- Monitoring system CMC III
- Monitor/keyboard unit MTE
- Fire alarm and extinguisher system DET-AC III

Benefits:

- All product segments in the data centre at a glance: Network/server enclosures, solutions for IT cooling, IT power and IT monitoring
- For added value, suitable accessories are suggested in every segment
- The result is an individual IT infrastructure, ready for you to request a quote from Rittal

www.rittal.com



RiMatrix S selector

Your selector for standardised data centres for SMEs, branch concepts and flexible cloud applications.

Your solution is configured on the basis of standardised data centre modules.

Benefits:

- RiMatrix S at a glance
- Explanation of the option packages
- Efficiency calculation for your location
- As the outcome, you can save your compiled RiMatrix S solution as a PDF file

www.rittal.com

The selector is also available as an app.



Android app



iPhone app



Edge Data Center configurator

Data centre configurator for the simple configuration of complete, turnkey private cloud solutions, see also page 583.

Benefits:

- Your data centre configuration in just a few steps
- Standardised solution
- CFD analysis

www.rittal.com



IT cooling calculator

Simple selection of water-based Liquid Cooling Packages (LCP) for rack and suite cooling for your IT infrastructure.

Benefits:

- Calculation of the cooling output of LCPs
- Consideration of the various physical parameters
- Save your finished calculation as a PDF file

www.rittal.com



CMC III Sales Tool

Compile the monitoring components for your application with this tool. The required accessory components are selected automatically.

Benefits:

- Overview of all monitoring components
- Simple selection aid
- You will be provided with a list of all required Model Nos

www.rittal.com



Micro Data Center configurator

Configuration of your security safe, including a range of configuration components.

Benefits:

- Your complete micro data centre in just a few steps
- Individual selection of configuration components
- The end result will enable you to request a quote for your current configuration

www.rittal.com



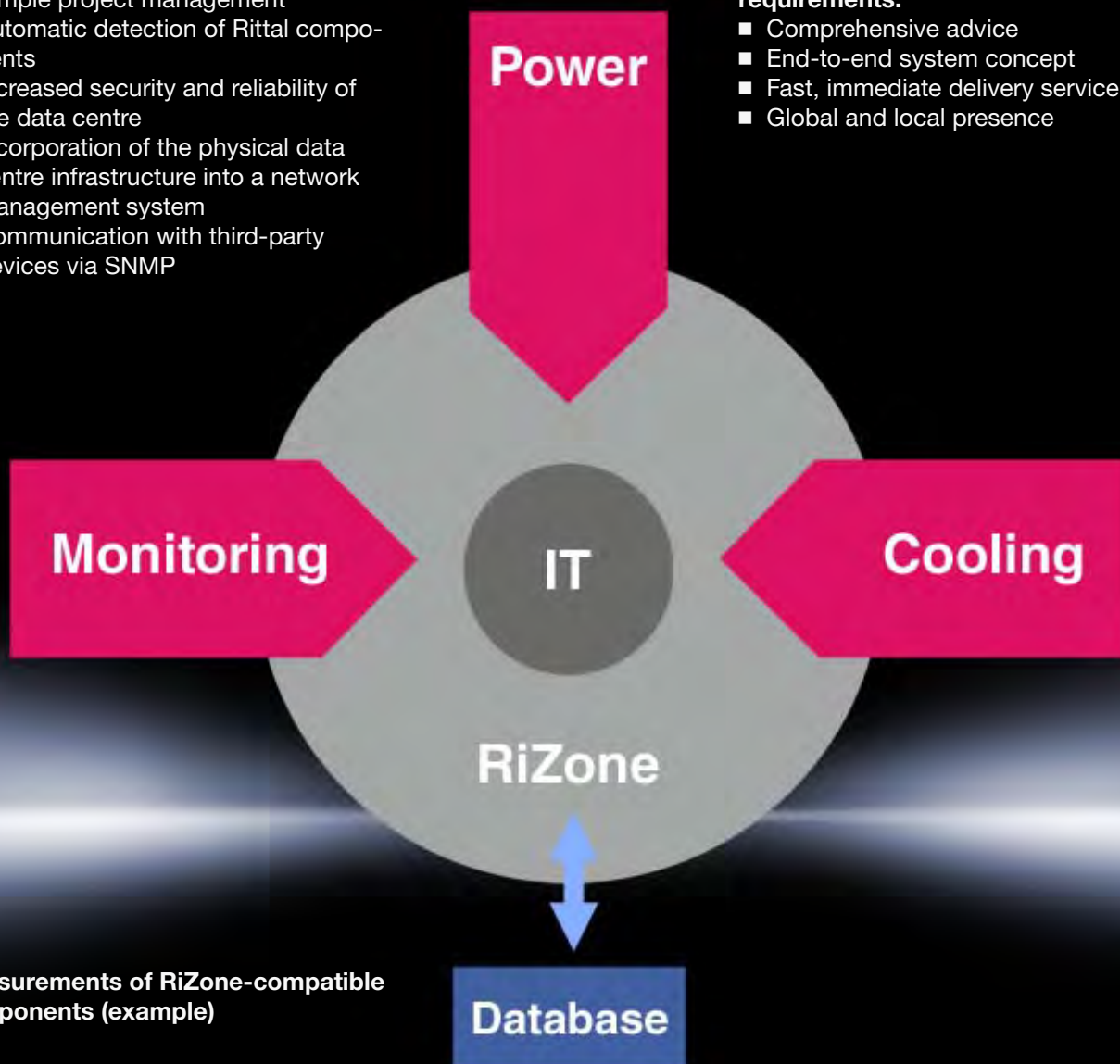
RiZone – Customer-focused, cost-efficient

Six good reasons to choose RiZone

- Energy optimisation throughout the entire data centre
- Simple project management
- Automatic detection of Rittal components
- Increased security and reliability of the data centre
- Incorporation of the physical data centre infrastructure into a network management system
- Communication with third-party devices via SNMP

Combine the sum total of all RiZone benefits with the particular benefits offered by Rittal, whatever your requirements.

- Comprehensive advice
- End-to-end system concept
- Fast, immediate delivery service
- Global and local presence



Measurements of RiZone-compatible components (example)

CMC

- Temperature
- Humidity
- Vandalism
- Airflow
- Differential pressure
- Early fire detection
- Fire extinguishing
- Leakage
- Access

Cooling/LCP

- Inlet temperature
- Setpoint (target value)
- Averaged intake temperature

Chillers

- Inlet and return temperature
- Pump speed
- Operating mode
- Power consumption

Ri4Power

- Current
- Voltage
- Energy
- Capacity

UPS

- Inverter status
- Status of primary network
- Battery status

PSM/PDU

- Current measurement of PSM bars
- Measurement of power consumption per socket with active PSM
- Switching of individual sockets

DCIM – Data Centre Infrastructure Management

RiZone – Perfect support of IT infrastructure components

Optional support of Rittal components – from server enclosures to power supply and climate control, through to security and monitoring technology – during integration and in the operational phase, with coordinated sensors and control systems.

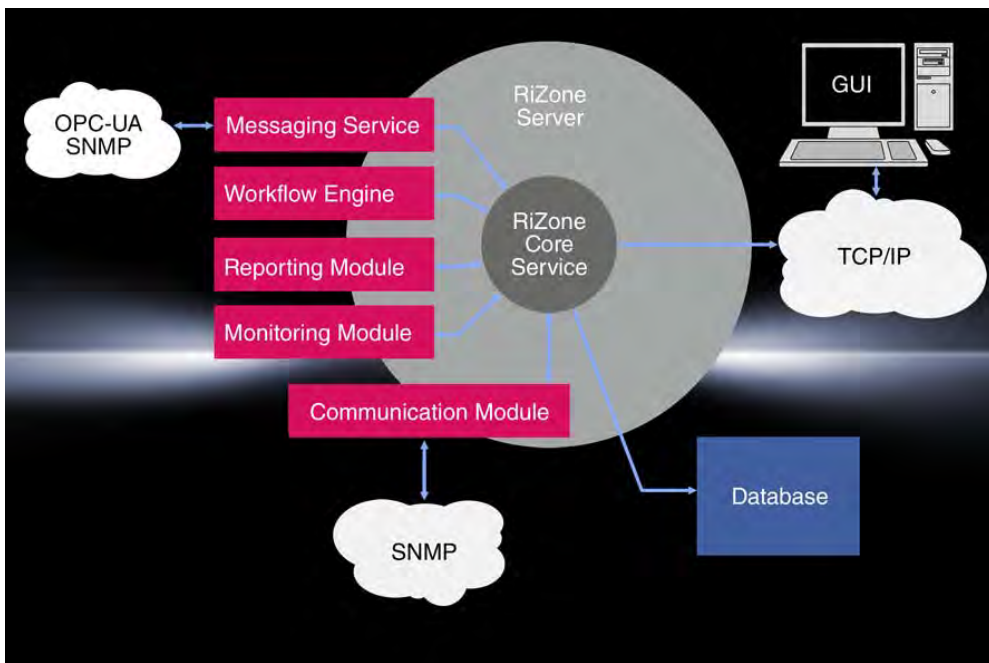
- The physical data centre infrastructure is incorporated into a data centre infrastructure management system.
- Simple configuration
- Automatic detection of Rittal components
- Workflow editor for user-defined scenarios (what happens if ...)
- Enhanced security and reliability
- Energy optimisation in the data centre
- Integration of SNMP-compatible third-party equipment
- **Autodiscovery**
Detection of all SNMP-compatible IT infrastructure components
- **Database**
In-house SQL database or link to external MS-SQL and Oracle databases
- **Capacity management**
 - Monitoring of capacities in the data centre
 - Graphical representation of the servers in the server enclosure
 - Redundancy monitoring of the climate control and power supply
 - Determination of optimum server installation positions
 - In conjunction with DRC, online reconciliation with the server enclosure and built-in components
- **Off-line project planning**
 - Pre-configuration of RiZone projects
 - Supports Rittal CMC III components as well as RiMatrix S
 - Components are easily replaced using drag and drop

- **Central access control**
 - Central administration of access users and PINs
 - One-time PIN function
 - Emergency PIN function
 - 2-way authorisation
- **User administration**
 - Granular user administration within RiZone
 - Supports AD
- **Open Virtualization Format (OVF)**
 - The virtual RiZone appliance is supplied in the industry standard OVF
- **Active Directory**
 - The RiZone server may be a member of a directory service
 - RiZone user administration from directory service
- **CMC III access**
 - Central administration of access control by RiZone
 - Administration of transponder cards
 - Centralised administration of access data
 - Import function

RiZone plus Rittal components creates a system solution with maximum energy efficiency.

Note:

- RiZone Appliance Standard
 - RiZone Appliance IP node licence
 - Server shutdown software
- see page 562





Service – Global availability

Always on hand, whenever you need us!

Whenever, wherever and however you need us, we are always on hand to assist you! Simply give us a call, send an e-mail or visit our website to get in touch. Fast, simple and reliable.

The benefits to you:

- International availability
- 24-hour service
- Communicate in your local language

Faster

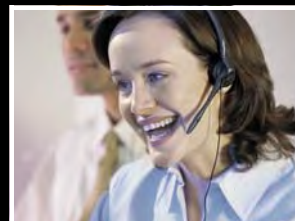
- Short paths, fast communications – with regional service support points and service partners
- Perfect interplay between service and engineering

Better

- Individual service solutions from a single source
- High qualification standards among Rittal service technicians worldwide

Everywhere

- More than 150 service partners with over 1000 service technicians



Rittal service addresses worldwide

Germany

Tel. +49 (0) 2772 505-1855
service@rittal.de

China

Tel. +86 800 820 0866
service@rittal.cn

USA

Tel. +1 800 477 4000
service@rittal.us

India

Tel. +91 (80) 2289 0792
service@rittal-india.com

Brazil

Tel. +55 (11) 3622 2377
service@rittal.com.br

Individual services for the entire product lifecycle

With Rittal products, rest assured that your production process is in safe hands.

Rittal lifecycle management goes far beyond mere statutory liability for defects and voluntary manufacturer warranties. Rittal safeguards the long-term productivity of your systems. What is more, this service is tailored to your specific requirements, because you decide for yourself which service level best caters for your risk of production downtime.

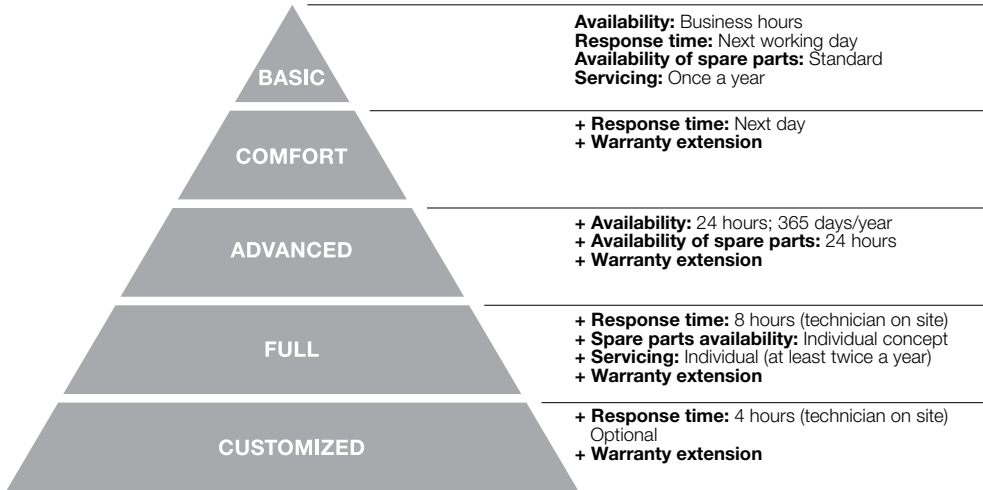
The benefits for you:

- Preserve the value of your systems and equipment
- Reduce downtimes
- Long-term cost management



Flexible service contracts: The right solution to match your requirements

Features of our Rittal service packages at a glance:



The benefits for you:

- Short response times thanks to local technicians
- Preserve the value of your equipment
- Extended warranty up to 5 years
- Spare parts held in stock
- Cost transparency

5 years

Manufacturers' warranty

**in conjunction with a
signed service agreement**



We are committed to perfection at every phase



Spare parts – any time, anywhere

Global availability of individual parts creates added value

Professional spare parts management guaranteeing maximum global availability of spare parts, and graduated service contracts matched precisely to your individual requirements: That is what you can expect from Rittal International Service. A service contract enables you to spell out many details, such as the availability of spare parts, specifically for your equipment or system. International service: At your service, any time, anywhere.

The benefits for you:

- Customer-specific components are held in stock on the basis of individual service contracts
- Decentralised warehousing to ensure fast and reliable spare parts availability
- Approved original spare parts from the manufacturer





