MMM Group

RUMED 360®

Software applications for the RUMED

Process documentation
Monitoring
Energy management

MMM. Protecting human health.

#networking

#documenting

#monitoring

#coordinating

#visualizing

#archiving

#distributing
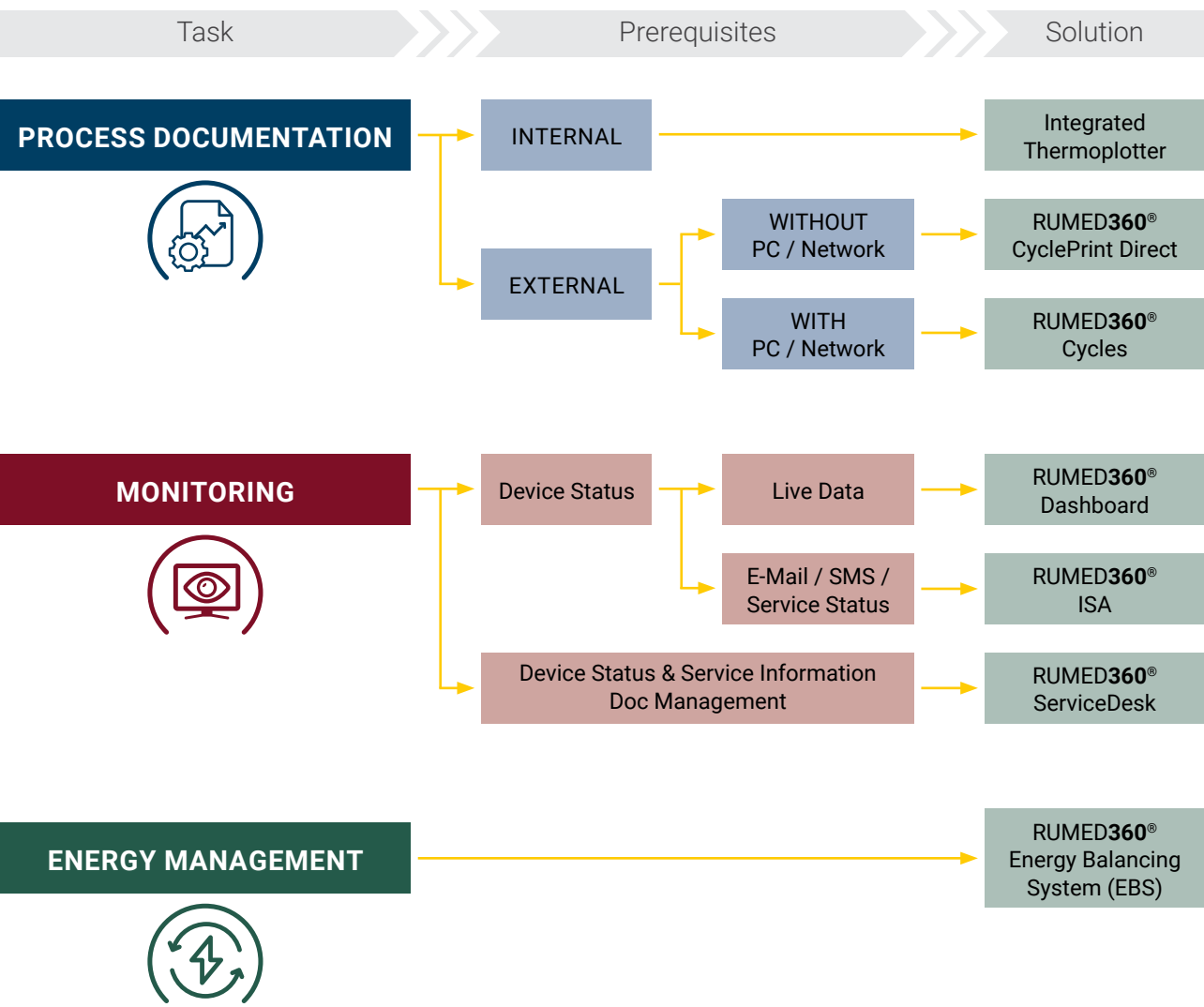
#planning

#optimizing

All using **RUMED**360®

Software applications that make your everyday work in the RUMED easier and safer.

Digitalization has established itself as an integral and indispensable part of healthcare and hospital facilities for some time now. In the modern working environment of a RUMED, process monitoring and digital documentation are important and essential components of an almost paperless working life. The resultant process and workflow optimization brings with it greater profitability, efficiency and safety.

The **RUMED**360® software applications developed by MMM combine all these attributes and make a significant contribution towards ensuring a user-optimized and efficient implementation of the work processes in a RUMED.

The Energy Management application, for example, helps keep the investment costs for the central energy supply at a minimum while still optimally covering the peak loads and ensuring high productivity.

To help you find the right applications for your specific requirements, we have divided the **RUMED**360® software portfolio into three categories:

Task	Prerequisites	Solution

PROCESS DOCUMENTATION
- INTERNAL → Integrated Thermoplotter
- EXTERNAL
  - WITHOUT PC / Network → RUMED360® CyclePrint Direct
  - WITH PC / Network → RUMED360® Cycles

MONITORING
- Device Status
  - Live Data → RUMED360® Dashboard
  - E-Mail / SMS / Service Status → RUMED360® ISA
- Device Status & Service Information Doc Management → RUMED360® ServiceDesk

ENERGY MANAGEMENT
- RUMED360® Energy Balancing System (EBS)
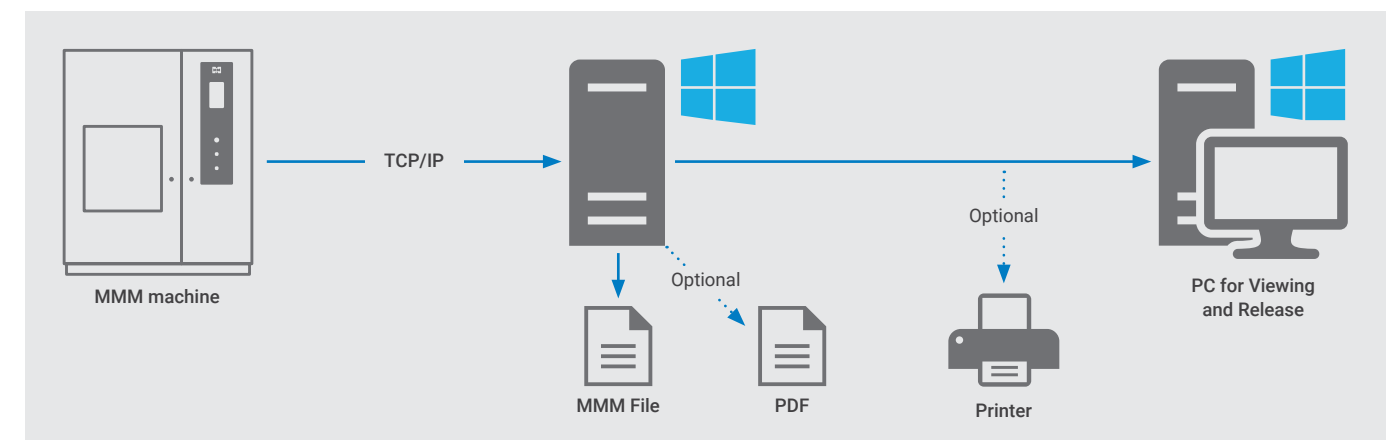
Process Documentation

RUMED360® Cycles

MMM process documentation system for user-friendly documentation with easy reviewing of the cycle data and secure archiving of the digital reports. RUMED360® Cycles connects to all MMM washer-disinfectors and sterilizers thereby ensuring all machine cycles are fully documented.

Thanks to the digital recording of all relevant cycle parameters, RUMED360® Cycles is ideally suited for paperless, and therefore environmentally-responsible process documentation. The reports can be viewed simply and easily at any time using the integrated viewer to check the relevant process parameters.

The viewer offers various zoom functions for examining specific process points in detail, or to display the relevant permissible tolerance band for review purposes. Furthermore, all relevant parameters are shown in plain text in addition to the graphical data (process curves). This enables the processes to be confidently and quickly released.

It also possible to securely and digitally archive all cycle data, thereby eliminating the need for time-consuming storage of endless files containing printouts of reports. This saves time, space, and resources – and therefore money. The process reports can of course be printed out in DIN A4 format if required.

RUMED360® CyclePrint Direct

MMM process documentation system with an external log printer. User-friendly documentation and simple checking of logs with color printout of process curves along with the measured values. All information at a glance.

System (designed for one machine) consisting of:
» Ethernet port on the machine controller
» Log printer
» TCP/IP crossover cable with a length of 10m

The log printer is equipped with an Ethernet port. Printouts are in DIN A4 format and contain the logged measurement values as well as pressure and temperature process curves based on actual values.

Printout of date, institution and department name, selected program, machine number, cycle number, program start time, all significant program phases, actual values for pressures and temperatures, program end time, process result, and recorded barcodes.

MMM machine — TCP/IP Direct connection — Printer

MMM machine — TCP/IP — Windows — Optional: MMM File — PDF — Optional: Printer — Optional — PC for Viewing and Release

RUMED360® CycleView

Process information in graph form and plain text.

In display mode, the program offers various zoom functions for examining specific process points in detail, or to display the relevant permissible tolerance band for review purposes. Furthermore, all relevant parameters are shown in plain text in addition to the graphical data (process curves).
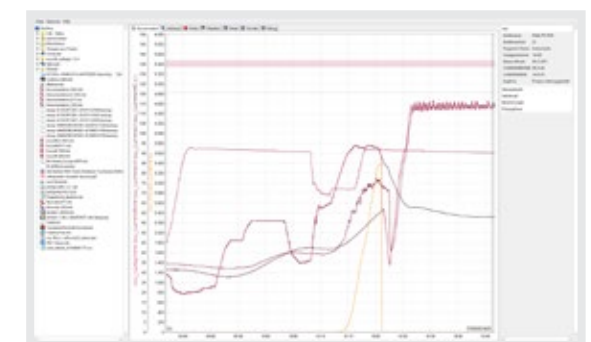
All important process information displayed clearly and informatively

Prerequisites:

An already installed RUMED360® Cycles.

RUMED360® Dashboard

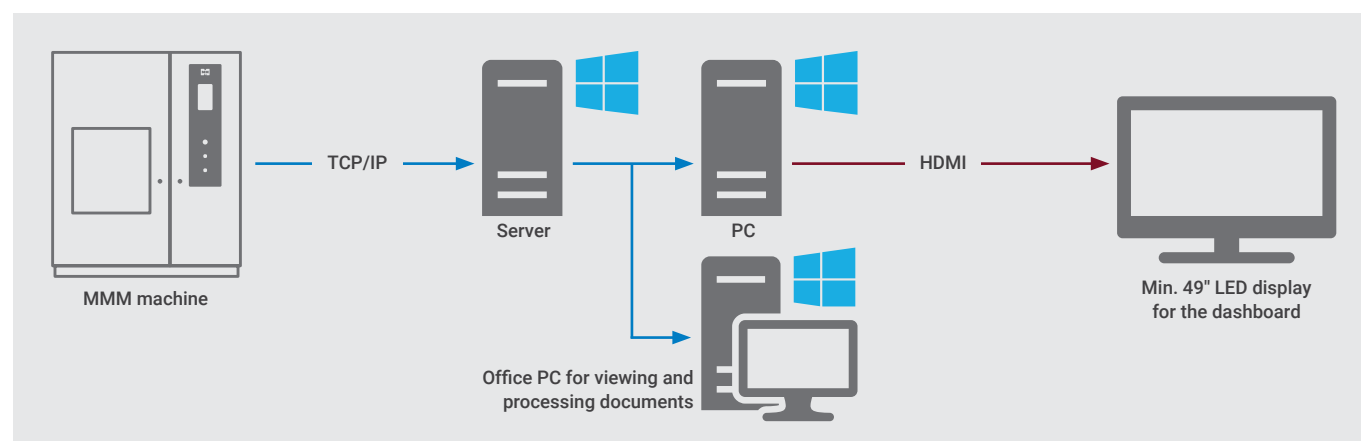The status of all machines at a glance.

Monitoring

RUMED360® ServiceDesk

The RUMED360® ServiceDesk gives you an overview of the status of your machines at the click of a button. The central online monitoring and display of one or more machines minimizes the response time in the event of a fault and, thanks to the detailed error description, enables the fault to be resolved quickly. It also gives you the ability to review at a glance all relevant service parameters per machine, coordinate and plan targeted service measures, and minimize the downtimes of your machines.

Besides the dashboard view, which clearly displays the status of all connected machines, the ServiceDesk can be used to display detailed information on a per-machine basis, for example

- » Maintenance interval period
- » Service life of various consumables
- » Realtime information about the pressure and temperature in the chamber
- » Most recently performed tests
- » Realtime display of error messages
- » Activated programs, active users, early start
- » E-mail out the machine statuses

RUMED360® Documents

A further component of the RUMED360® ServiceDesk is the document module. This module helps you sort, catalog and archive all machine and/or AEMP related documents so they can be quickly and easily displayed when needed.

Smart filtering options enable you to reduce the number of unneeded documents in a targeted manner, and thereby quickly display only the necessary documents. The module supports all common file types.

Document search with smart filtering options
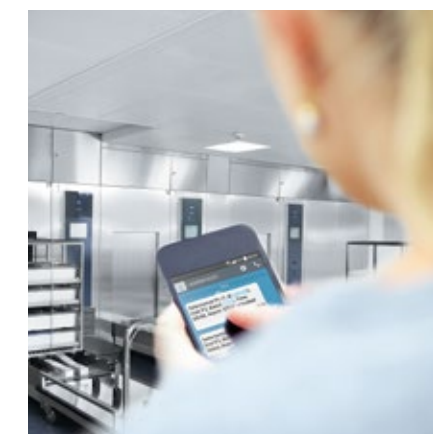

Add and archive new documents

Display and open documents

RUMED360® Dashboard

Real-time visualization of the status of the connected MMM machines in a simple and clear manner, thereby helping optimize the processes in the RUMED.

The following machine statuses and process information are displayed

- » Ready to load/start
- » In-progress
- » Cycle successfully completed, ready to unload
- » Error
- » Program canceled
- » Energy saving mode
- » Machine is switched off
- » Active program
- » Remaining time
- » Current batch
- » Process step

We recommend displaying the dashboard on an LED display with a minimum diagonal measurement of 49". The dashboard resolution has been designed for a full HD display (1920 x 1080 px). Alternatively, the dashboard could also be displayed on a PC monitor.

RUMED360® ISA

The RUMED360® ISA Server extends the ServiceDesk with the ability to automatically send out machine status information in an e-mail.

Data are sent automatically, i.e. in case of program interruption, program end and maintenance information, or at the request of an operator by pressing a button on the machine display. The debug message includes a range of useful information on the status of the machine. The program interruption message enables fast analysis and diagnosis in the event of a fault.

Energy Management

Customer service: Reliable & effective

Our knowledgeable service organization is here for you around the clock to help ensure continuous, trouble-free operation of your installed systems. With branches and representative offices located for optimal coverage throughout the world, we're always close by and can quickly arrive on-site in case of an emergency.

The sophisticated and innovative design of our systems and devices allow functional impairments to be resolved in little time in many cases, thanks to remote diagnostics performed by qualified personnel. Based on our professional maintenance planning, we can guarantee you the highest possible availability of your systems.

However, our goal is to prevent any problems from arising in the first place. We won't hand over our systems to you until everything is running flawlessly, until all programs have been tested/validated and accepted in accordance with your individual customer specifications, and until operating personnel have been trained to use our systems.

In addition to performing maintenance and repair, we also make sure that the installed systems are up-to-date. Tailor-made solutions for adapting to changing conditions, optimizing the use of consumables, and continuously meeting new individual needs and legal requirements increase the service life and cost-effectiveness of the systems and secure the value of your investment.
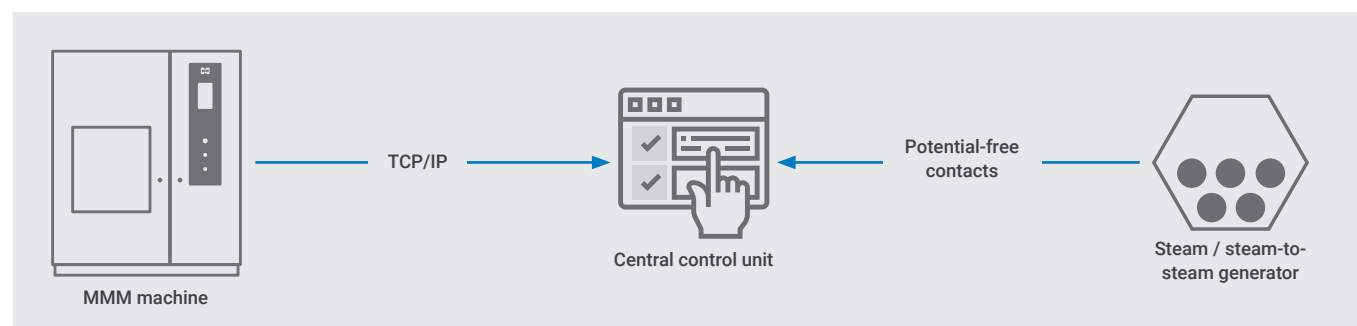
RUMED360® Energy Balancing System (EBS)

An intelligent load management system for the latest generation of MMM machines. A variety of washer-disinfectors, steam sterilizers, steam generators and steam-to-steam generators can be integrated into the system.

By managing the connected machines, it is possible to optimize shared resources (e.g., heating steam circuit) during operation.

This centralized control of resource consumption provides the following advantages:

» The design capacity of resources (e.g. heating steam circuit) can be reduced, i.e. components can be dimensioned smaller and investment costs reduced
» The available resources are utilized more uniformly
» The machines can continue to be used when subsystems fail (e.g. all sterilizers can continue to be operated even when a pure steam-to-steam generator is offline due to maintenance work)
» The emergency operation enables the connected machines to be switched from heating steam operation to electrical operation at the push of a button (if supported by the hardware)
» Connected MMM steam generators / steam-to-steam generators can be controlled from the central control panel (switched on and off)

The validated processes are not affected by the use of the MMM Energy Balancing System.

MMM machine — TCP/IP — Central control unit — Potential-free contacts — Steam / steam-to-steam generator

RUMED360® Care

The software maintenance agreement includes the following services:
» Provision of bug fixes
» Provision of updates
» Phone support or support via email
» Online support via remote maintenance access
» Special terms when upgrading the system

MMM. Our global branches.
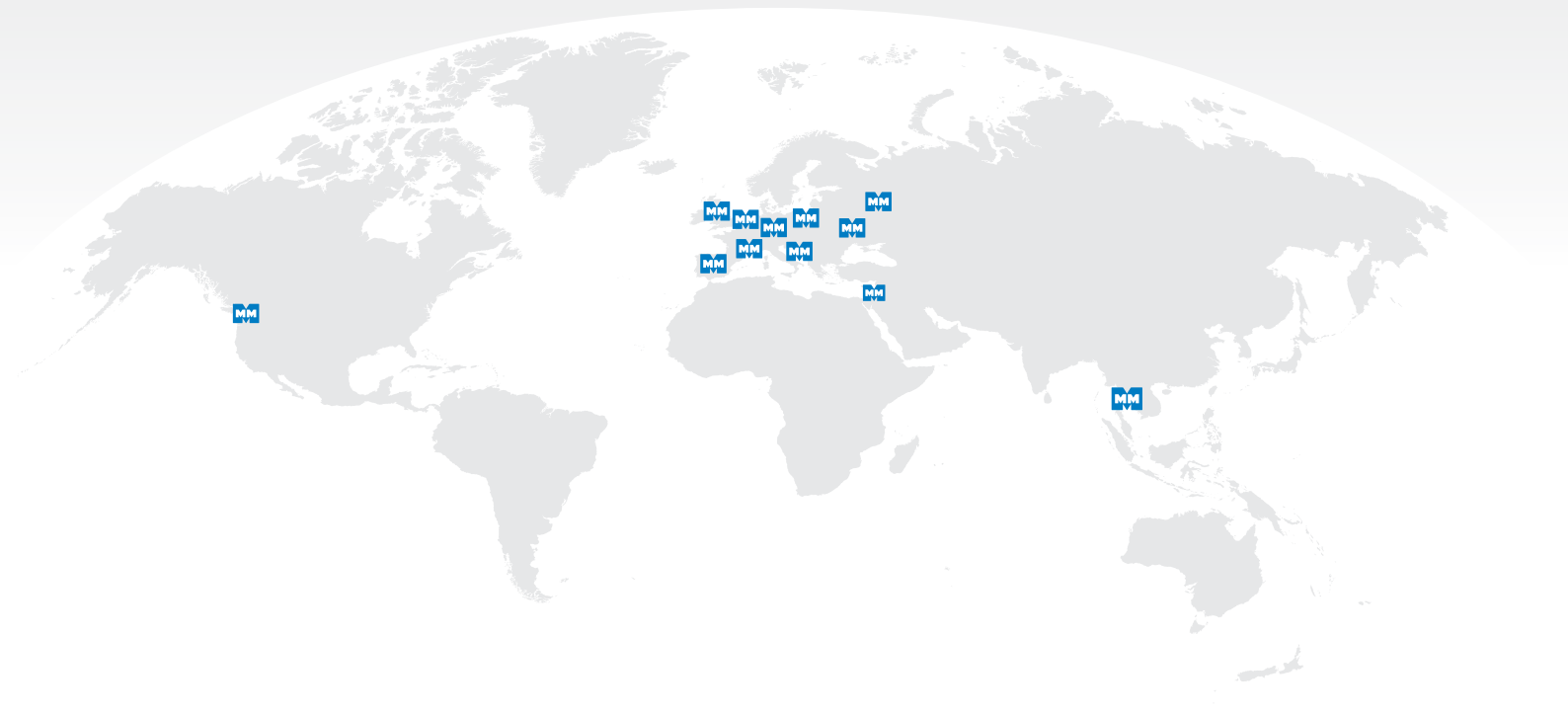
Healthcare

Life Science

Customer Service

MMM Group

MMM has been operating worldwide as one of the leading system providers in service of health since 1954. With a complete range of products and services relating to all aspects of cleaning, disinfection and sterilization systems for the fields of Healthcare and Life Science, MMM has positioned itself as a major driver of quality and innovation in both the German and international markets. Our products are individually adapted to the requirements of our customers all over the world. The high vertical range of manufacturing in our production plants ensures that we fulfill the most stringent demands for quality in the medical technology industry. More than 1200 employees apply their expertise and dedication to the mission of the MMM Group: **Protecting human health.**

Made in Germany

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