

Product specification

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Version 1.4

Protect your data with OPMONis, even during long-lasting power-outages:

In Germany alone about 200 000 power breakdowns occur each year. In an international comparison, this is a very low number. Still each of these outages is a permanent risk of data loss without an uninterruptible power supply (UPS). In case of longer lasting blackouts the bypass times of most UPS reach their limits. Even more powerful UPS are at some point no further solution.

At this point, all running processes should be gracefully stopped by the systems. A graceful shutdown in an orderly way will minimize the risk of data loss. With low investment of time and effort in configurations OPMONis will take on this task for you. In the background OPMONis will monitor your UPS system and gracefully shut down your system in the order you wish, when it is really necessary.

This way your data is safe, even during long lasting power outages.

Protect your power systems weak points with OPMONis:

- 1) Open Files: Through a graceful shutdown of applications and services buffered data will be saved and open files will be closed.
- 2) Caching: To optimize writing processes data is often temporarily stored in the cache memory. These files will be properly persisted.
- 3) File System: A graceful shutdown will avoid corrupt file systems. This will prevent your file system from serious problems at reboot.
- 4) RAID-Controller: The data which is stored in the cache memory of RAID-Controllers is properly persisted by an orderly performed shutdown.

Virtual environments need your special attention:

For different reasons, virtual environments become more and more important. Multiple virtual servers can be hosted on a single physical system. This is both cheap and useful. On the other hand, it is a real challenge for a UPS system to gracefully shutdown such environments in a reasonable order because several virtual machines are affected at the same time. These virtual servers also come with an own layer of caching. Persisting Data must be ensured from the points of view of different virtual machines.

Here is the big difference:

- OPMONis provides a central installation without the need of agents
- No installations to be made on the systems you need to control which saves you time and money
- Manufacturer independent monitoring of your UPSs.
- Monitoring of UPS that are connected by serial or USB (and recognized as batteries by windows) via WMI
- Monitoring of network UPS via SNMPv1 (this needs the standard license as minimum)
- Using only one installation, you can raise security levels for up to 10 systems or unlimited systems (depending on the chosen license)
- Short training period
- Easy to use windows user interface
- Monitoring of your UPS and controlling of your systems combined in one software
- Commandline Executable for easy access to OPMONis´ basic functions without starting the GUI.

Technical Specifications OPMONis Monitoring and System Controlling Software:

- Running on Windows platforms using .NET runtime.
- Windows service for monitoring and controlling
- Administration tool for configuration and monitoring. Communication with the windows service by named pipe.
- Controlling and status requests via commandline
- Encryption of sensitive data (i.e. passwords in the configuration)
- Controllable systems:
 - o VMware ESX / ESXi / vCenter Server
 - o XenServer
 - o Microsoft Hyper-V
 - o Microsoft Windows
 - o UNIX/Linux
 - o MAC OS X
 - o All other systems supporting SSH (Secure Shell)
- Protocols
 - o vSphere API: VMware Web Services used to monitor and control VMware ESX / ESXi / vCenter Server
 - o XenServer Management API
 - o Windows Management Instrumentation (WMI) to control Windows Systems
 - o Secure Shell (SSH)
 - o Internet Control Message Protocol (ICMP, PING)
 - o Wake on LAN (WoL)
- Monitoring UPSs
 - o WMI for requesting battery status under windows
 - o SNMPv1