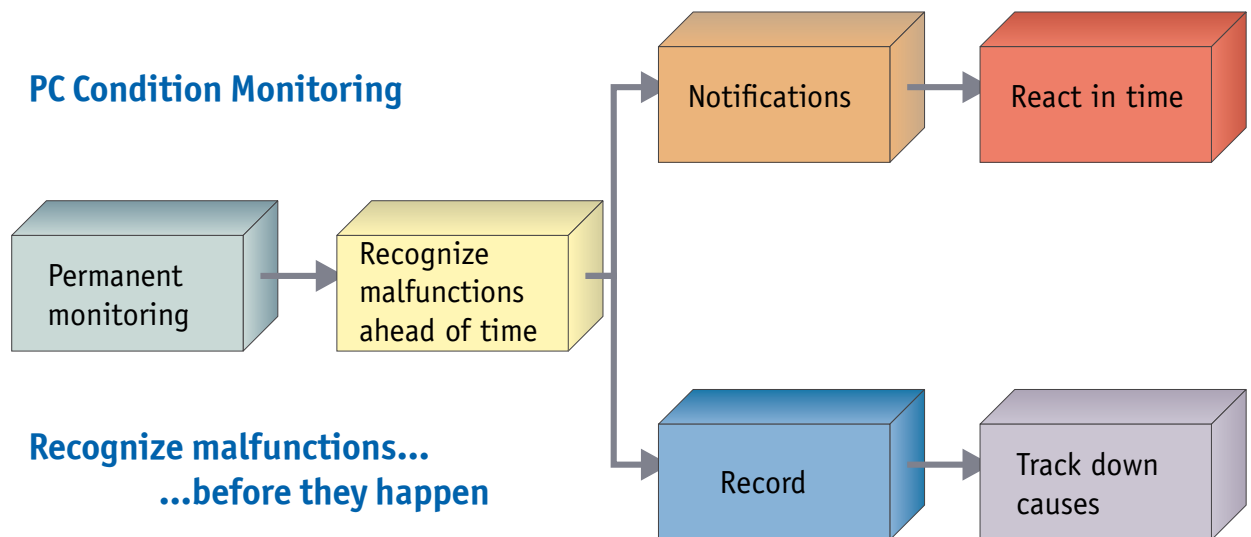


▶ PCM

PC Condition Monitoring for industrial PCs



- ▶ Monitor system-critical parameters
- ▶ Recognize impending malfunctions ahead of time
- ▶ Increase reliability

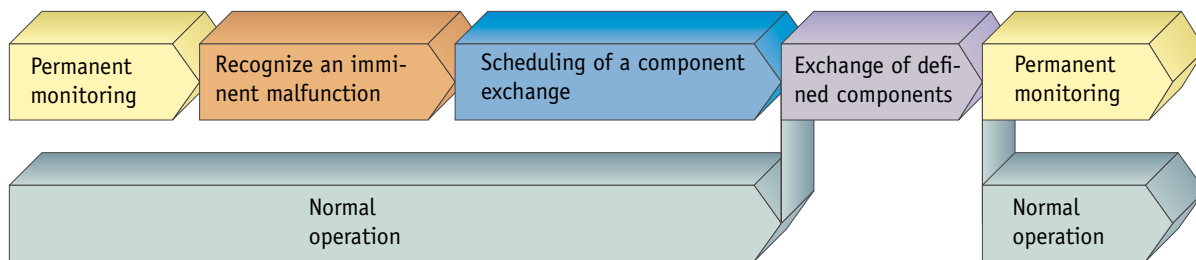
▶ Overview of available functions

- ▶ Temperature monitoring (e.g. processor, chipset, housing, hard drive)
- ▶ Fan speed monitoring (e.g. processor, graphics card, housing)
- ▶ Hard drive monitoring with S.M.A.R.T. (defective sectors, spin-up time, etc.)
- ▶ Monitoring of the supply voltages
- ▶ Integration of vendor-specific additional hardware (optional, e.g. for shock or humidity sensors, RAID subsystems)
- ▶ Individual expandability through plug-in interfaces
- ▶ In the event of malfunction, notification of the user/administrator (acoustic, optical, by e-mail or SMS, etc.)
- ▶ Display of data and logs via standard HTML browsers
- ▶ Quick overview of the current system status via intuitive traffic light display (red/yellow/green)
- ▶ Archiving of captured data, and thus access to historical data over the complete lifetime of the system
- ▶ Storage of minimum, maximum, and average values for every capture period
- ▶ Individually adjustable trigger and reset threshold values, plus time delays for noisy or peak-affected parameters
- ▶ Different storage intervals inside and outside the normal operating range
- ▶ Export of data for individual analysis
- ▶ Display of current data and messages via system tray application
- ▶ Connection to customers' systems via web service interfaces (SOAP)
- ▶ For Windows 2000/XP/Server 2003 or higher

This function overview reflects the standard functionality. In principle, however, special solutions can also be created for OEMs in order to fit their range of products and meet the special needs of their customers.

➤ Functions

- Monitoring critical system components
- Recognition of impending malfunctions
- Notification of the system administrator
- Recording of the event



➤ Advantages

- Preventive maintenance
- Reduction of downtimes
- Minimizing TCO (total cost of ownership)

➤ PC use in an industrial environment

The use of standard PC architectures in an industrial environment has long been the norm. The systems used range from desktop PCs, to industrial PCs and up to embedded systems and top-hat rail installations. The primary requirements in this area of PC use are a high degree of robustness and reliability of the systems used, because a malfunction in expensive facilities can result in high downtime costs.

➤ Permanent monitoring

Only the constant monitoring of the vital operating parameters, such as processor temperature, fan speeds, power supplies, and hard drive status, makes it possible to recognize potential hardware and software failures ahead of time and take appropriate measures.

➤ PC condition monitoring with PCCM

A technology which is already a standard in other areas of the industrial use of high-tech products is now finding its way on a wider front into the area where it is actually most obvious: PC technology. While earlier only expensive server systems were monitored automatically, PCCM opens up new possibilities in professional monitoring of industrial systems. But even the best hardware can malfunction, for example if the ambient temperature leaves the permissible range or a fan in rugged day-to-day industrial use becomes extremely dirty and no longer cools sufficiently.

➤ Technology for OEM customers

Unlike the many tools for ambitious home users, which require the user to have extensive knowledge of the personal hardware, PCCM is individually adapted to the product range of the OEM customer. Thus, the OEM users gets more security, without additional expense.

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