Basis for Development and Projected Future Development

Since 1986 SAP has provided standard software for plant maintenance. The RM-INST System - the SAP host solution based upon R/2 technology - was developed together with pilot customers and successfully implemented in several hundred installations in companies from a wide variety of industries.

The PM System was developed as a Client/Server solution based on this knowledge and represents a continuation of the current development philosophy at SAP, which aims to create systems that replicate reality in close contact with its customers.

As a result, the experience that SAP has gained since 1986 from the numerous successful implementations in the various industries has been included in the development of the PM System.

The following list of industries demonstrates the innumerable implementation possibilities of the SAP Plant Maintenance System within the processing industries, repetitive or make-to-stock manufacturing, in the transport industry or in servicing.

❑ Chemical   **List of Industries**

❑ Pharmaceutical

❑ Oil refineries

❑ Primary industries

❑ Food industry

❑ Steel

❑ Metal working

❑ Mechanical engineering

❑ Electricity

❑ Precision engineering

❑ Paper industry

❑ Energy suppliers

❑ Transport industry

❑ Commerce and service industries

Over and above individual customer requirements, there are organizations and professional associations who keep track of developments in Plant Maintenance in the SAP Systems, and who pass on targeted suggestions to SAP. Furthermore, a continual exchange of information between industry and SAP development is ensured by info days, user work seminars and SAP congresses.

The PM System will therefore continue to be developed along these lines.

Plans for Development   Alongside functional enhancements of existing PM functions, concrete plans for development exist in the following areas:

❑   **Counter and measurement readings**
Activity counters and measurement points can be defined for technical systems. The counter and measurement readings for these are documented chronologically, providing important information about the condition of the technical system

❑   **Activity-based maintenance**
Based on counter readings, activity-based maintenance and inspections can be performed on technical systems. Work can be performed based solely on the counter development or based on a combination of counter development and time (for example, inspection every 10,000 km or at the lastest after one year).

❑   **Technical and work permits**
Different forms of permits can be managed in maintenance processing. There are both technical permits, and activity-related permits (for example, welding permit). Both types of permit are entered in order processing and control work processing.

❑   **Activity planning**
Activity catalogs can be defined to simplify planning of internal or external labor. These activity catalogs simplify work and order planning and the processing of external labor.

❑   **Capacity and resource planning**
There are possibilities for capacity levelling in capacity planning. After capacity levelling has been carried out, the order can be distributed in the various resource groups. This means that all the necessary effective methods for short-term resource planning are available in the system.

❑   **Manually-created order history**
Each completed order is archived. These archived orders are available for long-term evaluations. Orders that are performed at a certain point in time but which were not created in the PM System, can be manually entered in the order history. This provides complete documentation of all orders. The corresponding evaluations are therefore complete.

❑   **Management of serial numbers**
Materials, which have to be individually monitored, can be identified using serial numbers. Various forms of management are possible:

❍ serial number assignment in material movements just for information

❍ serial numbers with master record check without a history

❍ serial numbers with master record check with a history

❍ where-used lists for serial numbers

The following development points have already been described in detail earlier in this booklet:

❑ equipment hierarchies

❑ maintenance as a customer service