Chapter II

An Overview of SAP Technology

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Abstract

This chapter commences with a brief description of Enterprise Resource Planning (ERP), follows by a description of SAP, the largest enterprise software provider in the world. The timeline of activities since its inception in 1972 are summarized in a table. SAP’s flagship software program, the R/3 system, is portrayed in more detail. The capabilities of the R/3 system, the three-tier client/server technology it employs, its hardware and software, and several problems associated with its implementation and use are discussed. The two R/3 implementation tools – namely, the Accelerated SAP and the Ready to Run systems – are also described.

Introduction

Since first envisioned in the 1960s, integrated information systems have expanded tremendously in scope, evolving from inventory tracking systems, to
Enterprise Resource Planning (ERP) is the process of integrating all the business functions and processes in an organization. It achieves numerous benefits. First, a single point of data entry helps to reduce data redundancy while saving employees time in entering data, thereby reducing labor and overhead costs as well (Jacobs & Whybark, 2000). Second, the centralization of information, decision-making, and control leads to increases in efficiencies of operations and productivity, as well as coordination between departments, divisions, regions, and even overseas operations. This is especially true for multinational corporations, for which global integration could result in better communications and coordination around the world and the global sourcing and distribution of parts and services could provide appropriate benchmarks for worldwide operations. Third, the sharing of a centralized database provides business managers with accurate and up-to-date information with which to make well-informed business decisions. Further, it reduces data redundancy while improving data integrity. Fourth, functional integration consolidates all sorts of data, such as financial, manufacturing, and sales, to take advantage of bulk discounts. ERP is especially important for companies that are “intimately connected” to their vendors and customers, and that use electronic data interchange to process sales transactions electronically. Therefore, the imple-
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