Commercial Use of Database Technology

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Abstract

This session provides insight into two different European products for the E-commerce/database market. First, Martin Meijsen, Software AG, gives an overview on Tamino, Software AG's XML DBMS while the second presentation by Eva Kühn of TECCO AG, Austria discusses technical details of products that provides "zero-delay access to data warehouses",

1. Tamino & Co. - Software AG's database technology

Software AG's most recent data management system is the Tamino XML server, which comprises a native XML database system. Traditional database strengths are combined with the novel aspects of XML storage and retrieval. For example, XML documents might have a very detailed schematic description which has to be validated when the documents are stored or modified, but on the other hand documents can live without having any schema information. Tamino handles both extremes as well as scenarios in-between in a uniform manner, without compromising traditional database qualities such as storage structure independence.

The talk will shed light on the methods used by Tamino to meet the specific requirements arising from the management of XML data in an intranet and internet scenario. Users are rapidly adopting the various XML standards such as XML schema and XQuery, which are rapidly evolving and require new approaches in database systems. The talk will give an overview of the various contexts and application areas where Tamino is used, demonstrating the broad range of emerging XML usage in productive environments. Typical application architectures will be discussed, and the integration of Tamino into solution frameworks will be illustrated. Thirty years in the database market and five years of experience with an XML server have formed Software AG's view towards future requirements for database systems in the context of the web and XML. The talk will present the major trends that we envision, and the most critical requirements to be met in the future.

2. The Zero-Delay Data Warehouse: Mobilizing Heterogeneous Databases

„Now is the time… for the real-time enterprise": In spite of this assertion from Gartner Group the heterogeneity of today's IT environments and the increasing demands from mobile users are major obstacles for the creation of this vision. Yet its technical foundation is available: software architectures based on innovative middleware components that offer a level of abstraction superior to conventional middleware solutions, including distributed transactions and the seamless integration of mobile devices using open standards, crossing the borders between heterogeneous platforms and systems. Space based computing is a new middleware paradigm meeting these demands. As an example we present the real time build-up of data warehouses.