TECHNISCHE UNIVERSITÄT WIEN
VIENNA UNIVERSITY OF TECHNOLOGY
Institut für Softwaretechnik
und Interaktive Systeme

Wissenschafterinnenkolleg Internettechnologien

Das Wissenschafterinnenkolleg Internettechnologien lädt gemeinsam mit der Fakultät für Informatik der TU Wien und der Österreichischen Computer Gesellschaft ein zum:

Tutorial

BEST PRACTICES IN META DATA MANAGEMENT AND ENTERPRISE DATA WAREHOUSE DEPLOYMENT

Dr. Stephen Brobst

Chief Technology Officer, Teradata Division

Wann: Freitag, 30. April 2004
9:00 - 14:00

Wo: Technische Universität Wien
Neues Elektrotechnisches Institutsgebäude
EI 9 Hlawka Hörsaal
1040 Wien, Gußhausstraße 27-29, Erdgeschoß

Abstract

This tutorial provides a taxonomy of data warehouse topologies and discussion of best practices for enterprise data warehouse deployment. Characterization of performance, total cost of ownership, and business functionality will be used to describe tradeoffs among various choices in topology and architecture deployment. Implementation techniques using integrated, federated, and data mart architectures will be discussed as well as the deployment of 4 distinct classes of meta data (end user meta data, design meta data, technical meta data and semantic meta data) which will be described in the context of creating a single source of truth for enterprise decision making - across multiple lines of business and functionally oriented organizational boundaries.

Content:

- OLTP vs. DSS characteristics
- The role of data integration
- Enterprise data model deployment
- Data warehouse architecture
- Data mart architecture (dependent, independent, integrated, virtual)
- Multi-mart topologies
- Federated topologies
- Hub-and-spoke topologies
- Active data warehouse topologies
- End user meta data
- Design meta data management
- Semantic meta data management
- Transformation meta data management
- Phased implementation strategies

Bio

Stephen Brobst is the Chief Technology Officer for Teradata, a division of NCR Corporation. He is widely regarded as the foremost expert in data warehousing and joined Teradata in October of 1999. Prior to joining Teradata, Stephen successfully launched three start-up companies related to high-end database products and services in the data warehousing and e-business marketplaces: Tanning Technology Corporation (TANN on NASDAQ), NexTek Solutions (acquired by IBM), and Strategic Technologies & Systems (acquired by NCR).

Previously, Brobst taught graduate courses at Boston University and the Massachusetts Institute of Technology in both the MBA program at the Sloan School of Management and in the Computer Science departments of both universities. He received the instructor of the year award for two of his last five years in the MET Computer Science department at Boston University and continues to guest lecture frequently at the Massachusetts Institute of Technology and the Kellogg Graduate School of Management.

Brobst performed Masters and PhD research at the Massachusetts Institute of Technology where his dissertation work focused on load-balancing and resource allocation for parallel computing architectures. He also holds an MBA with joint course and thesis work at the Harvard Business School and the MIT Sloan School of Management. Brobst completed his undergraduate work in Electrical Engineering and Computer Science in just three years at University of California, Berkeley, and was awarded the highest honor given to a graduating senior in the College of Engineering (Bechtel Engineering Award). Brobst is an elected member of the Phi Beta Kappa, Eta Kappa Nu, Tau Beta Pi, Sigma Xi, New York Academy of Sciences, University of California, Berkeley Alumni Scholars Association, and the California Scholarship Federation honor societies. He also serves as an advisor to the National Academy of Sciences in the area of IT workforce development.

Brobst has authored numerous journal and conference papers in the fields of data management and parallel computing environments and is an internationally recognized practitioner in the area of breakthrough systems implementation. He recently co-authored a book, Building a Data Warehouse for Decision Support, published by Prentice Hall PTR. Brobst is currently working on a second book focused on high performance database design for VLDB data warehouse implementations. He has published dozens of technical articles in Intelligent Enterprise Magazine, The International Journal of High Speed Computing, Communications of the ACM, The Journal of Data Warehousing, Enterprise Systems Journal, DM Review, Database Programming and Design, and many others. Brobst has been on the faculty of the Data Warehousing Institute since 1996 and teaches courses related to Active Data Warehousing and High Performance Data Warehouse Design.

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Unterstützung

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Anmeldung

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Hinweis

Vortrag in englischer Sprache; Teilnahme kostenlos!