

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

TERADATA OPERATIONS, INC.
Petitioner

v.

BERKELEY*IEOR
Defendant

Covered Business Method Review

DECLARATION OF SYLVIA HALL-ELLIS, PH.D.

I. INTRODUCTION

1. My name is Sylvia Hall-Ellis. I have been retained as an expert by Teradata Operations, Inc.

2. I have written this report at the request of Teradata Operations, Inc. to provide my expert opinion regarding the public availability and authenticity of several books. My declaration sets forth my opinions in detail and provides the basis for my opinions regarding the public availability and authenticity of these books.

3. I reserve the right to supplement or amend my opinions, and bases for them, in response to any additional evidence, testimony, discovery, argument, and/or other additional information that may be provided to me after the date of this report.

4. I am being compensated for my time spent working on this matter at my normal consulting rate of \$300 per hour, plus reimbursement for any additional reasonable expenses. My compensation is not in any way tied to the content of this report, the substance of my opinions, or the outcome of this litigation. I have no other interests in this proceeding or with any of the parties.

5. All of the materials that I considered are discussed explicitly in this declaration.

II. QUALIFICATIONS

6. I am currently an Adjunct Professor in the School of Information at San José State University. I obtained a Masters of Library Science from the University of North Texas in 1972 and a Ph.D. in Library Science from the University of Pittsburgh in 1985. Over the last forty-five years, I have held various positions in the field of library and information resources. I was first employed as a librarian in 1966 and have been involved in the field of library sciences since, holding numerous positions.

7. I am a member of the American Library Association (ALA) and its Association for Library Collections & Technical Services (ALCTS) Division, and I served on the Committee on Cataloging: Resource and Description (which wrote the new cataloging rules) and as the chair of the Committee for Education and Training of Catalogers and the Competencies and Education for a Career in Cataloging Interest Group. I also served as the Chair of the ALCTS Division's Task Force on Competencies and Education for a Career in Cataloging. Additionally, I have served as the Chair for the ALA Office of Diversity's Committee on Diversity and as a member of the national REFORMA Board of Directors.

8. I have also given over one hundred presentations in the field, including several on library cataloging systems and Machine-Readable Cataloging

(“MARC”) standards. My current research interests include library cataloging systems, metadata, and organization of electronic resources.

9. My full curriculum vitae is attached hereto as Attachment 1c.

III. LIBRARY CATALOGING PRACTICES

10. I am fully familiar with the library cataloging standard known as the MARC standard, which is an industry-wide standard method of storing and organizing library catalog information.¹ MARC was first developed in the 1960’s by the Library of Congress. A MARC-compatible library is one that has a catalog consisting of individual MARC records for each of its items. Today, MARC is the primary communications protocol for the transfer and storage of bibliographic metadata in libraries.²

¹ The full text of the standard is available from the Library of Congress at <http://www.loc.gov/marc/bibliographic/>.

² Almost every major library in the world is MARC-compatible. *See, e.g., MARC Frequently Asked Questions (FAQ)*, LIBRARY OF CONGRESS, <https://www.loc.gov/marc/faq.html> (last visited August 8, 2018) (“MARC is the acronym for MACHine-Readable Cataloging. It defines a data format that emerged from a Library of Congress-led initiative that began nearly forty years ago. It

11. A MARC record comprises several fields, each of which contains specific data about the work. Each field is identified by a standardized, unique, three-digit code corresponding to the type of data that follows. For example, a work's title is recorded in field 245, the primary author of the work is recorded in field 100, an item's International Standard Book Number ("ISBN") is recorded in field 020, an item's Library of Congress call number is recorded in field 050, and the publication date is recorded in field 260 under the subfield "c." If a work is a periodical, then its publication frequency is recorded in field 310, and the publication dates (e.g., the first and last publication) are recorded in field 362, which is also referred to as the enumeration/chronology field.

12. The library that created the record is recorded in field 040 in subfield "a" with a unique library code. When viewing the MARC record online via Online Computer Library Center's ("OCLC") Connexion database, hovering over this code with the mouse reveals the full name of the library. I used this method of

provides the mechanism by which computers exchange, use, and interpret bibliographic information, and its data elements make up the foundation of most library catalogs used today."). MARC is the ANSI/NISO Z39.2-1994 (reaffirmed 2016) standard for Information Interchange Format.

“mousing over” the library codes in the OCLC database to identify the originating library for the MARC records discussed in this report. Where this “mouse over” option was not available, I consulted the Directory of OCLC Libraries in order to identify the institution that created the MARC record.³

13. MARC records also include several fields that include subject matter classification information. An overview of MARC record fields is available through the Library of Congress at <http://www.loc.gov/marc/bibliographic/>. For example, 6XX fields are termed “Subject Access Fields.” See <http://www.loc.gov/marc/bibliographic/bd6xx.html>. Among these, for example, is the 650 field; this is the “Subject Added Entry – Topical Term” field. See <http://www.loc.gov/marc/bibliographic/bd650.html>. The 650 field is a “[s]ubject added entry in which the entry element is a topical term.” *Id.* These entries “are assigned to a bibliographic record to provide access according to generally accepted thesaurus-building rules (e.g., *Library of Congress Subject Headings* (LCSH), *Medical Subject Headings* (MeSH)).” *Id.* Further, MARC records include call numbers, which themselves include a classification number. For example, the 050 field is the “Library of Congress Call Number.” See

³ <https://www.oclc.org/en/contacts/libraries.html>.

<http://www.loc.gov/marc/bibliographic/bd050.html>. A defined portion of the Library of Congress Call Number is the classification number, and “source of the classification number is *Library of Congress Classification* and the *LC Classification-Additions and Changes*.” *Id.* Thus, included in the 050 field is a subject matter classification. Each item in a library has a single classification number. A library selects a classification scheme (*e.g.*, the Library of Congress Classification scheme just described or a similar scheme such as the Dewey Decimal Classification scheme) and uses it consistently. When the Library of Congress assigns the classification number, it appears as part of the 050 field. If a local library assigns the classification number, it appears in a 090 field. In either scenario, the MARC record includes a classification number that represents a subject matter classification.

14. The OCLC was created “to establish, maintain and operate a computerized library network and to promote the evolution of library use, of libraries themselves, and of librarianship, and to provide processes and products for the benefit of library users and libraries, including such objectives as increasing availability of library resources to individual library patrons and reducing the rate of rise of library per-unit costs, all for the fundamental public purpose of furthering ease of access to and use of the ever-expanding body of worldwide scientific,

literary and educational knowledge and information.”⁴ Among other services, OCLC and its members are responsible for maintaining the WorldCat database (<http://www.worldcat.org/>), used by independent and institutional libraries throughout the world.

15. OCLC also provides its members online access to MARC records through its OCLC Connexion database. When an OCLC member institution acquires a work, it creates a MARC record for this work in its computer catalog system in the ordinary course of its business. MARC records created at the Library of Congress are tape-loaded into the OCLC database through a subscription to MARC Distribution Services daily or weekly. Once the MARC record is created by a cataloger at an OCLC member institution or is tape-loaded from the Library of Congress, the MARC record is then made available to any other OCLC members online, and therefore made available to the public. Accordingly, once the MARC record is created by a cataloger at an OCLC member institution or is tape-loaded from the Library of Congress or another library anywhere in the world, any

⁴ Third Article, Amended Articles of Incorporation of OCLC Online Computer Library Center, Incorporated (available at <https://www.oclc.org/content/dam/oclc/membership/articles-of-incorporation.pdf>).

publication corresponding to the MARC record has been cataloged and indexed according to its subject matter such that a person interested in that subject matter could, with reasonable diligence, locate and access the publication through any library with access to the OCLC Connexion database or through the Library of Congress.

16. When an OCLC member institution creates a new MARC record, OCLC automatically supplies the date of creation for that record. The date of creation for the MARC record appears in the fixed field (008), characters 00 through 05. The MARC record creation date reflects the date on which the item was first acquired or cataloged. Initially, field 005 of the MARC record is automatically populated with the date the MARC record was created in year, month, day format (YYYYMMDD) (some of the newer library catalog systems also include hour, minute, second (HHMMSS)). Thereafter, the library's computer system may automatically update the date in field 005 every time the library updates the MARC record (*e.g.*, to reflect that an item has been moved to a different shelving location within the library). Field 005 is visible when viewing a MARC record via an appropriate computerized interface, but when a MARC record is printed to hardcopy, no "005" label appears. The initial field 005 date (*i.e.*, the date the MARC record was created) does appear, however, next to the

label “Entered.”⁵ The date upon which the most recent update to field 005 occurred also appears, next to the label “Replaced.” Thus, when an item’s MARC record has been printed to hardcopy—as is the case with the exhibits to this report—the date reflected next to the label “Entered” is on the date the library first cataloged and indexed the underlying item.

17. Once one library has cataloged and indexed a publication by creating a MARC record for that publication, other libraries that receive the publication do not create additional MARC records—the other libraries instead rely on the original MARC record. They may update or revise the MARC record to ensure accuracy, but they do not replace or duplicate it. This practice does more than save libraries from duplicating labor. It also enhances the accuracy of MARC records. Further, it allows librarians around the world to know that a particular MARC record is authoritative (in contrast, a hypothetical system wherein duplicative records were created would result in confusion as to which record is authoritative).

18. The date of creation of the MARC record by a cataloger at an OCLC member institution reflects when the underlying item is accessible to the public.

⁵ In this declaration, I sometimes refer to the “Entered” entry as field 008, characters 00-05.

Upwards of two-thirds to three-quarters of book sales to libraries come from a jobber or wholesaler for online and print resources. These resellers make it their business to provide books to their customers as fast as possible, often providing turnaround times of only a single day after publication. Libraries purchase a significant portion of the balance of their books directly from publishers themselves, which provide delivery on a similarly expedited schedule. In general, libraries make these purchases throughout the year as the books are published and shelve the books as soon thereafter as possible in order to make the books available to their patrons. Thus, books are generally available at libraries across the country within just a few days of publication.

19. Catalogers can create MARC records for all types of print, online, and digital resources. For example, MARC records cover serial publications, including both serially-published monographs and journals. OCLC hosts MARC records for more than 320 million serial publications. Serial publications are those publications that have the same collective title but are intended to be continued indefinitely with enumeration such as a volume or issue number (*e.g.*, magazines, journals, etc.). In the OCLC Connexion database, the first issue of the serial publication is typically cataloged (*i.e.*, a corresponding MARC record is created), but the date is left open-ended with the use of a punctuation mark such as a dash.

OCLC serial publication MARC records represent the entire run of the serial title. With knowledge of the first issue published, future issues can be predicted based on the information provided in the MARC record, for example in field 362. In my extensive professional experience, is it highly unusual for a library to stop collecting and shelving a serial publication prior to the end of its publication run. If a subscription to a serial publication ends its run or is cancelled before the end of its run, the library will denote that it has stopped receiving new volumes by filling in the end date in the MARC record.

20. When individual issues of a serial publication are received by a library, the individual issue is indexed, added to library holdings records, and made available for library visitors. Typically, individual issues are available within a few days of receipt by the library—or at most a few weeks. The issue is checked in and then processed so that it can be placed out in a public area for patrons. The foregoing process has been standard library practice longer than I have been working in the profession. I first learned the steps in the process in the late 1970s and later supervised it. Although the checking in process has become automated and now links electronically to holdings records for the MARC record for each serial title, the manual stamping and placing the issue in a public area has not changed for 50 years. Unless I note otherwise below in reference to a specific

serial publication, it is my expert opinion that this standard protocol was followed for each of the serial publications discussed below.

21. The handling of printed journal subscriptions is shown on the covers of individual issues. As was the best practice among libraries, issues arrived at a central facility and were immediately received, verified as part of a subscription, checked in, and stamped with the institution's name and date. Determining that the issue was part of the library subscription ensured that the entire set of publications for the year had been received so that they could be professionally bound and retained. This process also verified that all of the published issues arrived so that the library staff did not have to request or claim an issue that did not arrive as expected. In large public libraries with branches and multi-campus libraries within academic institutions, the journals were sorted and delivered to the subscribing unit. The issues were frequently stamped again to acknowledge receipt. The new issue was placed in the public area; the older issue was stored so that it remained available.

22. The foregoing process has been standard library practice longer than I have been working in the profession. I first learned the steps in the process in the late 1970s and later supervised it. Although the checking in process has become automated and now links electronically to holdings records for the MARC record

for each serial title, the manual stamping and placing the issue in a public area has not changed for 50 years. Unless I note otherwise below in reference to a specific serial publication, it is my expert opinion that this standard protocol was followed for each of the serial publications discussed below.

23. In preparing this report, I used authoritative databases, such as the OCLC Connexion database and the Library of Congress Online Catalog, to confirm citation details of the various publications discussed. Unless I note otherwise below in reference to a specific serial publication, it is my expert opinion that this standard protocol was followed for each of the serial publications discussed below.

24. *Indexing.* A researcher may discover material relevant to his or her topic in a variety of ways. One common means of discovery is to search for relevant information in an index of periodical and other publications. Having found relevant material, the researcher will then normally obtain it online, look for it in libraries, or purchase it from the publisher, a bookstore, a document delivery service, or other provider. Sometimes, the date of a document's public accessibility will involve both indexing and library date information. However, date information for indexing entries is often unavailable. This is especially true for online indices.

25. Indexing services use a wide variety of controlled vocabularies to provide subject access and other means of discovering the content of documents. The formats in which these access terms are presented vary from service to service.

26. Online indexing services commonly provide bibliographic information, abstracts, and full-text copies of the indexed publications, along with a list of the documents cited in the indexed publication. These services also often provide lists of publications that cite a given document. A citation of a document is evidence that the document was publicly available and in use by researchers no later than the publication date of the citing document.

27. Prominent indexing services include the following:

a. *ACM Digital Library*. This index is produced by the Association for Computing Machinery, the world's largest scientific and educational computing society. AMC Digital Library contains the full text of all AMC publications, hosted full-text publications from selected publishers, and the ACM Guide to Computing Literature—a comprehensive bibliography of computing literature beginning in the 1950s with more than a million entries. All metadata in the database are freely available on the Web, including abstracts, linked references, citing work, and usage statistics. Full-text articles are available with subscription.

28. *IEEE Xplore*. This scholarly research database includes indexes,

abstracts, and full-text for articles and papers on computer science, electrical engineering, and electronics. The database mainly covers material from the Institute of Electrical and Electronics Engineers (IEEE) and the Institution of Engineering and Technology. The IEEE *Xplore* digital library provides Web access to more than 4.3-million full-text documents from some of the world's most highly cited publications. The content comprises over 180 journals, over 1,400 conference proceedings, more than 3,800 technical standards, over 1,800 eBooks and over 400 educational courses. Approximately 20,000 new documents are added to IEEE Xplore each month. Abstracts are free to access, but access to full text requires a subscription or institutional login.

29. In preparing this report, I used authoritative databases, such as the OCLC Connexion database and the Library of Congress Online Catalog, to confirm citation details of the various publications discussed. Unless I note otherwise below in reference to a specific serial publication, it is my expert opinion that this standard protocol was followed for each of the serial publications discussed below.

IV. PRELIMINARIES

30. *Scope of this declaration.* I am not an attorney and will not offer opinions on the law. I am, however, rendering my expert opinion on the authenticity of the documents referenced herein and on when and how each of

these documents was disseminated or otherwise made available to the extent that persons interested and ordinarily skilled in the subject matter or art, exercising reasonable diligence, could have located the documents before April 9, 1999.

31. I am informed by counsel that a printed publication qualifies as publicly accessible as of the date it was disseminated or otherwise made available such that a person interested in and ordinarily skilled in the relevant subject matter could locate it through the exercise of ordinary diligence.

32. While I understand that the determination of public accessibility under the foregoing standard rests on a case-by-case analysis of the facts particular to an individual publication, I also understand that a printed publication is rendered “publicly accessible” if it is cataloged and indexed by a library such that a person interested in the relevant subject matter could locate it (*i.e.*, I understand that cataloging and indexing by a library is sufficient, though there are other ways that a printed publication may qualify as publicly accessible). One manner of sufficient indexing is indexing according to subject matter category. I understand that the cataloging and indexing by a single library of a single instance of a particular printed publication is sufficient, even if the single library is in a foreign country. I understand that, even if access to a library is restricted, a printed publication that has been cataloged and indexed therein is publicly accessible so long as a

presumption is raised that the portion of the public concerned with the relevant subject matter would know of the printed publication. I also understand that the cataloging and indexing of information that would guide a person interested in the relevant subject matter to the printed publication, such as the cataloging and indexing of an abstract for the printed publication, is sufficient to render the printed publication publicly accessible.

33. I understand that routine business practices, such as general library cataloging and indexing practices, can be used to establish an approximate date on which a printed publication became publicly accessible.

34. *Persons of ordinary skill in the art.* I am told by counsel that the general subject matter of this proceeding relates to financial accounting systems, management information systems, databases.

35. I have been informed by counsel that a “person of ordinary skill in the art at the time of the inventions” is a hypothetical person who is presumed to be familiar with the relevant field and its literature at the time of the inventions. This hypothetical person is also a person of ordinary creativity, capable of understanding the scientific principles applicable to the pertinent field.

36. I am told by counsel that persons of ordinary skill in this subject matter or art would have had a bachelor’s degree in computer science, accounting,

or management information systems, or a similar field with at least two years of experience in accounting or finance software or a person with a master's degree in computer science, accounting, or management information systems, or a similar field with a specialization in accounting or finance software. I also understand that person with less education but more relevant practical experience may also meet this standard.

37. It is my opinion that such a person would have been engaged in research, learning through study and practice in the field and possibly through formal instruction the bibliographic resources relevant to his or her research. In the 1980s and 1990s such a person would have had access to a vast array of long-established print resources in computer science, accounting or finance software or management information systems as well as to a rich set of online resources providing indexing information, abstracts, and full text services for these fields.

V. Document 1 – Ernst & Young

38. Document 1 is a book, *The Ernst & Young Guide to Performance Measurement for Financial Institutions: Methods for Managing Business Results*, revised edition, (hereafter “Ernst & Young”) and issued by Probus Publishers in 1995. The exhibit filed in this proceeding as Exhibit 1005 is a true and correct copy of the Document 1 title page for each volume, title page verso, table of contents, and all 19 chapters as held by the University of Colorado – Boulder

Libraries. I obtained this book from the University of Colorado – Boulder Libraries and Exhibit 1005 is a copy. Specifically, the text of the chapters from Document 1 are complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. Exhibit 1005 was found within the custody of a library – a place where, if authentic, a copy of this book would likely be. Exhibit 1005 is a true and correct copy in a condition that creates no suspicion about its authenticity.

39. Attached hereto as Attachment 1a is a true and correct copy of the MARC record for this book from the University of Colorado – Boulder Libraries. The library ownership is indicated by the presence of the library's code (COD) in the 049 field. The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. I personally identified and retrieved the library catalog record which is Attachment 1a.

40. Based on finding a print copy of Document 1 in the University of Colorado – Boulder Libraries and MARC record in its online library catalog attached as Attachment 1a, it is my opinion that *The Ernst & Young Guide to Performance Measurement for Financial Institutions: Methods for Managing Business Results*, revised edition, was available in the University of Colorado –

Boulder Libraries as of April 3, 1995, as shown in Field 008.

41. Attached hereto as Attachment 1b is a true and correct copy of the MARC record for *The Ernst & Young Guide to Performance Measurement for Financial Institutions: Methods for Managing Business Results*, revised edition, obtained from the OCLC bibliographic database. I personally identified and retrieved the MARC record that is Attachment 1b. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 1b, that library code is “CTC,” which means that the MARC record for this book was created at the Comptroller of Currency Library. The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. As can be seen in the “Entered” field in the MARC record for this exhibit, a cataloger at the Comptroller of Currency Library created OCLC record number 32246362 on April 3, 1995.

42. Attachment 1b further includes an entry in field 050 (“HG1615⁶ #b .E76 1995”)—as described above, this includes a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal System). Attachment 1b further includes an entry in field 082

⁶ HG1615 = bank management

(“332.1⁷”), a subject matter consistent with the Dewey Decimal Classification System. Attachment 1b further includes four English language field 650 entries reading “Financial institutions ‡x Management,” “Bank management,” “Portfolio management,” and “Banks and banking ‡x Accounting.” Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 1b was indexed according to its subject matter by virtue of at least three independently sufficient classifications: the field 050 entry, the field 082 entry, and the field 650 entries. Further, as of April 3, 1995, the MARC record attached hereto as Attachment 1b was accessible through any library with access to the OCLC bibliographic database, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

43. Attachment 1b indicates that the book *The Ernst & Young Guide to Performance Measurement for Financial Institutions: Methods for Managing Business Results*, revised edition, as cataloged at the Comptroller of Currency Library is currently available from 73 libraries. In view of above, this monograph *The Ernst & Young Guide to Performance Measurement for Financial Institutions: Methods for Managing Business Results*, revised edition, was publicly available no

⁷ 332.1 = banks

later than April 3, 1995, because by that date it had been received, cataloged, and indexed at the Comptroller of Currency Library, made part of the OCLC bibliographic database, and received at the University of Colorado – Boulder Libraries. For these reasons, it is my opinion that Exhibit 1005 was published and accessible to the public no later than April 3, 1995.

VI. Document 2 – Horngren

44. Document 2 is a book, *Cost Accounting: A Managerial Emphasis*, 9th edition, by Charles T. Horngren, George Foster, and Srikant M. Datar (hereafter “Horngren”) and issued by Prentice Hall Publishers in 1997. The exhibit filed in this proceeding as Exhibit 1013 is a true and correct copy of the Document 2 title page for each volume, title page verso, table of contents, all 26 chapters, and appendices as held by the Library of Congress. I obtained this book from the Library of Congress and Exhibit 1013 is a copy. Specifically, the text of the chapters from Document 2 are complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. Exhibit 1013 was found within the custody of a library – a place where, if authentic, a copy of this book would likely be. Exhibit 1013 is a true and correct copy in a condition that creates no suspicion about its authenticity.

45. Attached hereto as Attachment 2a is a true and correct copy of the MARC record for this book from the Library of Congress. The library ownership is indicated by the presence of the library's code (DLC) in the 035 field. The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. I personally identified and retrieved the library catalog record which is Attachment 2a.

46. Based on finding a print copy of Document 2 in the Library of Congress and MARC record in its online library catalog attached as Attachment 2a, it is my opinion that *Cost Accounting: A Managerial Emphasis*, 9th edition, by Horngren, *et. al.*, was available in the Library of Congress as of March 27, 1996, as shown in Field 008.

47. Attached hereto as Attachment 2b is a true and correct copy of the MARC record for *Cost Accounting: A Managerial Emphasis*, 9th edition, by Horngren, *et. al.* obtained from the OCLC bibliographic database. I personally identified and retrieved the MARC record that is Attachment 2b. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 2b, that library code is "DLC," which means that the MARC record for this book was created at the Library of Congress. As can be

seen in the “Entered” field in the MARC record for this exhibit, a cataloger at the Library of Congress created OCLC record number 34564820 on March 27, 1996.

48. Attachment 2b further includes an entry in field 050 (“HF5686.C8⁸ #b H59 1997”)—as described above, this includes a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal System). Attachment 2b further includes an entry in field 082 (“658.15/11⁹”), a subject matter consistent with the Dewey Decimal Classification System. Attachment 2b further includes two English language field 650 entries reading “Cost accounting” and “Costs, Industrial.” Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 2b was indexed according to its subject matter by virtue of at least three independently sufficient classifications: the field 050 entry, the field 082 entry, and the field 650 entries. Further, as of March 27, 1996, the MARC record attached hereto as Attachment 2b was accessible through any library with access to the OCLC bibliographic database, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

⁸ HF5686.C8 = cost accounting, activity-based costing

⁹ 658.15 = financial management

49. Attachment 2b indicates that the book *Cost Accounting: A Managerial Emphasis*, 9th edition, by Horngren, *et. al.*, as cataloged at the Library of Congress is currently available from 305 libraries. In view of above, this book *Cost Accounting: A Managerial Emphasis*, 9th edition, was publicly available no later than March 27, 1996, because by that date it had been received, cataloged, and indexed at the Library of Congress and made part of the OCLC bibliographic database. For these reasons, it is my opinion that Exhibit 1013 was published and accessible to the public no later than March 27, 1996.

VII. Document 3 – ASAP World Consultancy

50. Document 3 is a book, *Using SAP R/3*, special edition, by ASAP World Consultancy and Jonathon Blain with Mark Denning, Kate Hill, Bernard Dodd, Jonathan Lingard, Gray Elkington, Eric Matthews, Wendy Hewson, Jonathan R. Tate, and Phillipa Worth, with contributions by Christian Dannerman and Steve Walsh (hereafter “ASAP World Consultancy”) and issued by Que Publishers in 1996. The exhibit filed in this proceeding as Exhibit 1006 is a true and correct copy of the Document 3 title page for each volume, title page verso, table of contents, all 41 chapters, and appendices as held by the Library of Congress. I obtained this book from the Library of Congress and Exhibit 1006 is a copy. Specifically, the text of the chapters from Document 3 are complete; no

pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. Exhibit 1006 was found within the custody of a library – a place where, if authentic, a copy of this book would likely be. Exhibit 1006 is a true and correct copy in a condition that creates no suspicion about its authenticity.

51. Attached hereto as Attachment 3a is a true and correct copy of the MARC record for this book from the Library of Congress. The library ownership is indicated by the presence of the library's code (DLC) in the 035 field. The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. I personally identified and retrieved the library catalog record which is Attachment 3a.

52. Based on finding a print copy of Document 3 in the Library of Congress and MARC record in its online library catalog attached as Attachment 3a, it is my opinion that *Using SAP R/3*, special edition, by ASAP World Consultancy, *et. al.* was available in the Library of Congress as of September 20, 1996, as shown in Field 008.

53. Attached hereto as Attachment 3b is a true and correct copy of the MARC record for *Using SAP R/3*, special edition, by ASAP World Consultancy, *et. al.* obtained from the OCLC bibliographic database. I personally identified and

retrieved the MARC record that is Attachment 3b. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 3b, that library code is “DLC,” which means that the MARC record for this book was created at the Library of Congress. As can be seen in the “Entered” field in the MARC record for this exhibit, a cataloger at the Library of Congress created OCLC record number 36292402 on September 20, 1996.

54. Attachment 3b further includes an entry in field 050 (“QA76.76.I57¹⁰ ðb U88 1996”)—as described above, this includes a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal System). Attachment 3b further includes an entry in field 082 (“650/.0285/53769¹¹”), a subject matter consistent with the Dewey Decimal Classification System. Attachment 3b further includes an English language 630 entry reading “SAP R/3” and three English language field 650 entries reading “Integrated software,” “Client/server computing,” and “ABAP/4 (Computer program language).” Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 3b was indexed according to its subject matter by virtue of at least four independently sufficient classifications: the

¹⁰ QA76.76.I57 = computer software, integrated software

¹¹ 650.0285 = business computer applications

field 050 entry, the field 082 entry, the field 630 entry, and the field 650 entries. Further, as of September 20, 1996, the MARC record attached hereto as Attachment 3b was accessible through any library with access to the OCLC bibliographic database, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

55. Attachment 3b indicates that the book *Using SAP R/3*, special edition, by ASAP World Consultancy, *et. al.* as cataloged at the Library of Congress is currently available from 39 libraries. In view of above, this monograph *Using SAP R/3*, special edition, by ASAP World Consultancy, *et. al.* was publicly available no later than September 20, 1996, because by that date it had been received, cataloged, and indexed at the Library of Congress and made part of the OCLC bibliographic database. For these reasons, it is my opinion that Exhibit 1006 was published and accessible to the public no later than September 20, 1996.

VIII. Document 4 – Date I

56. Document 4 is a book, *A Guide to the SQL Standard*, 2nd edition, by C. J. Date (hereafter “Date I”) and issued by Addison-Wesley in 1989. The exhibit filed in this proceeding as Exhibit 1004 is a true and correct copy of the Document 4 title page for each volume, title page verso, table of contents, all 12 chapters, and appendices as held by the Library of Congress. I obtained this book from the

Library of Congress and Exhibit 1004 is a copy. Specifically, the text of Exhibit 1004 is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. Exhibit 1004 is held within the custody of a library – a place where, if authentic, a copy of this book would likely be. Exhibit 1004 is a true and correct copy in a condition that creates no suspicion about its authenticity.

57. Attached hereto as Attachment 4a is a true and correct copy of the MARC record for this book from the Library of Congress. The library ownership is indicated by the presence of the library's code (DLC) in the 040 field. The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. I personally identified and retrieved the library catalog record which is Attachment 4a.

58. Based on finding a print copy of Document 4 in the Library of Congress and MARC record in its online library catalog attached as Attachment 4a, it is my opinion that *A Guide to the SQL Standard*, 2nd edition, was available in the Library of Congress as of January 27, 1989, as shown in Field 008.

59. Attached hereto as Attachment 4b is a true and correct copy of the MARC record for *A Guide to the SQL Standard*, 2nd edition, obtained from the OCLC bibliographic database. I personally identified and retrieved the MARC

record that is Attachment 4b. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 4b, that library code is “DLC,” which means that the MARC record for this book was created at the Library of Congress. The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. As can be seen in the “Entered” field in the MARC record for this exhibit, a cataloger at the Library of Congress created OCLC record number 19268000 on January 27, 1989.

60. Attachment 4b further includes an entry in field 050 (“QA76.9.D3¹² ¶b D3695 1989”)—as described above, this includes a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal System). Attachment 4b further includes an entry in field 082 (“005.75/6¹³”), a subject matter consistent with the Dewey Decimal Classification System. Attachment 4b further includes two English language field 650 entries reading “Database management” and “SQL (Computer program language).” Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 4b was indexed according to its subject matter by virtue of at least three independently sufficient classifications: the field 050 entry, the field 082

¹² QA76.9.D3 = database management

¹³ 005.75 = Computer programming, programs, data, security based on relational databases

entry, and the field 650 entries. Further, as of January 27, 1989, the MARC record attached hereto as Attachment 4b was accessible through any library with access to the OCLC bibliographic database which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

61. Attachment 4b indicates that the book *A Guide to the SQL Standard*, 2nd edition, as cataloged at the Library of Congress is currently available from 254 libraries. In view of above, this monograph, *A Guide to the SQL Standard*, 2nd edition, was publicly available no later than January 27, 1989, because by that date it had been received, cataloged, and indexed at the Library of Congress, made part of the OCLC bibliographic database, and received at the Library of Congress. For these reasons, it is my opinion that Exhibit 1004 was published and accessible to the public no later than January 27, 1989.

IX. Document 5 – Mabberley

62. Document 5 is a book, *Activity-based Costing in Financial Institutions*, by Julie Mabberley (hereafter “Mabberley”) and issued by Pitman Publishing in 1992. The exhibit filed in this proceeding as Exhibit 1008 is a true and correct copy of the Document 5 title page for each volume, title page verso, table of contents, and all 11 chapters as held by the Arizona State University

Library. I obtained the book from the Arizona State University Library and Exhibit 1008 is a copy. Specifically, the text is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. Exhibit 1008 was found within the custody of a library – a place where, if authentic, a copy of this book would likely be. Exhibit 1008 is a true and correct copy in a condition that creates no suspicion about its authenticity.

63. Attached hereto as Attachment 5a is a true and correct copy of the MARC record for this book from the Arizona State University Library. The library ownership is indicated by the presence of the library's code (AZS) in the 049 field. The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. I personally identified and retrieved the library catalog record which is Attachment 5a.

64. Based on finding a print copy of Document 5 in the Arizona State University Library and MARC record in its online library catalog attached as Attachment 5a, it is my opinion that *Activity-based Costing in Financial Institutions*, by Mabberley was available in the Arizona State University Library as of March 30, 1993, as shown in Field 008.

65. Attached hereto as Attachment 5b is a true and correct copy of the MARC record for *Activity-based Costing in Financial Institutions* by Mabberley obtained from the OCLC bibliographic database. I personally identified and retrieved the MARC record that is Attachment 5b. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 5b, that library code is “DJB,” which means that the MARC record for this book was created at the International Monetary Fund Library. As can be seen in the “Entered” field in the MARC record for this exhibit, a cataloger at the International Monetary Fund Library created OCLC record number 27827828 on March 30, 1993.

66. Attachment 5b further includes an entry in field 050 (“HG1616.C6¹⁴ ¶b M33 1992”)—as described above, this includes a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal System). Attachment 5b further includes two English language field 650 entries reading “Financial institutions Costs” and “Financial institutions Management.” Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 5b was indexed according to its subject matter by virtue of at least two independently sufficient

¹⁴ HG1616.C6 = banking, bank management, costs, cost accounting

classifications: the field 050 entry and the field 650 entries. Further, as of March 30, 1993, the MARC record attached hereto as Attachment 5b was accessible through any library with access to the OCLC bibliographic database which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

67. Attachment 5b indicates that the book *Activity-based Costing in Financial Institutions* by Mabberley was cataloged at the International Monetary Fund Library is currently available from 71 libraries. In view of above, *Activity-based Costing in Financial Institutions* was publicly available no later than March 30, 1993, because by that date it had been received, cataloged, and indexed at the International Monetary Fund Library and made part of the OCLC bibliographic database. For these reasons, it is my opinion that Exhibit 1008 was published and accessible to the public no later than March 30, 1993.

X. Document 6 – Stuchfield

68. Document 6 is a technical report, *Modeling the Profitability of Customer Relationships: Development and Impact of Barclays De Zoete Wedd's BEATRICE*, by Nic Stuchfield and Bruce Weber (hereafter “Stuchfield”) and issued by New York University in 1992. The exhibit filed in this proceeding as

Exhibit 1009 is a true and correct copy of the title page and text downloaded from the SSRN website.¹⁵ I obtained this technical report and made the copies which comprise Exhibit 1009. Specifically, the text of Document 6 is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. Exhibit 1009 was found within the custody of a professional research network— a place where, if authentic, a copy of this technical report would likely be. Exhibit 1009 is a true and correct copy in a condition that creates no suspicion about its authenticity.

69. Attached hereto as Attachment 6a is a true and correct copy of the MARC record for this technical report from the New York University Library. I personally identified and retrieved the library catalog record which is Attachment 6a.

70. Based on finding a digital copy of Document 6 on the Internet, a print copy in the New York University Library, and MARC record in its online library catalog attached as Attachment 6a, it is my opinion that the technical report, *Modeling the Profitability of Customer Relationships: Development and Impact of Barclays De Zoete Wedd's BEATRICE*, by Stuchfield and Weber was available in the New York University Library as of March 23, 1993, as shown in Field 008.

¹⁵ https://papers.ssrn.com/sol3/papers.cfm?abstract_id=1288500.

71. Attached hereto as Attachment 6b is a true and correct copy of the MARC record for the technical report *Modeling the Profitability of Customer Relationships: Development and Impact of Barclays De Zoete Wedd's BEATRICE*, by Stuchfield and Weber obtained from the OCLC bibliographic database. I personally identified and retrieved the MARC record that is Attachment 6b. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 6b, that library code is "ZYU," which means that the MARC record for this book was created at the New York University Library. As can be seen in the "Entered" field in the MARC record for this exhibit, a cataloger at the New York University Library created OCLC record number 77659190 on March 23, 1993.

72. Attachment 6b further includes an entry for the "Working paper series of the Center for Research on Information Systems in the Leonard N. Stern School of Business," as indicated in field 830. Further, as of March 23, 1993, the MARC record attached hereto as Attachment 6b was accessible through any library with access to the OCLC bibliographic database which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

73. Attachment 6b indicates that the technical report, *Modeling the Profitability of Customer Relationships: Development and Impact of Barclays De Zoete Wedd's BEATRICE*, by Stuchfield and Weber as cataloged at the New York University Library is currently available from 1 library. In view of above, this technical report by Stuchfield and Weber was publicly available no later than March 23, 1993, because by that date it had been received, cataloged, and indexed at the New York University Library and made part of the OCLC bibliographic database. For these reasons, it is my opinion that Exhibit 1009 was published and accessible to the public no later than March 23, 1993.

XI. Document 7 – McKenzie

74. Document 7 is a Canadian federal document, *The Economic Effects of Dividend Taxation*, by Kenneth J. McKenzie and Aileen J. Thompson (hereafter “McKenzie”) and issued by the Canadian Department of Finance in 1996.¹⁶ The exhibit filed in this proceeding as Exhibit 1011 is a true and correct copy of the Document 7, which I obtained from the Government of Canada website.¹⁷ Specifically, the text is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible

¹⁶ The electronic document was published concurrently in French under the title *Les effets économiques de l'imposition des dividendes*

¹⁷ <http://publications.gc.ca/site/eng/69206/publication.html>

alterations to the document. Exhibit 1011 was found within the custody of the issuing agency – a place where, if authentic, a copy of this document would likely be. Exhibit 1011 is a true and correct copy in a condition that creates no suspicion about its authenticity.

75. Attached hereto as Attachment 7a is a true and correct copy of the MARC record for the federal document *The Economic Effects of Dividend Taxation*, by McKenzie and Thompson obtained from the OCLC bibliographic database. I personally identified and retrieved the MARC record that is Attachment 7a. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 7a, that library code is “NLC,” which means that the MARC record for this book was created at Archives and Library Canada. As can be seen in the “Entered” field in the MARC record for this exhibit, a cataloger at Archives and Library Canada created OCLC record number 37195115 on April 25, 1997.

78. Attachment 7a further includes an entry in field 050 (“HJ4631¹⁸ #b .M35 1996”)—as described above, this includes a subject matter classification number consistent with the Library of Congress classification system (analogous to

¹⁸ HJ4631 = Internal revenue, income tax, income from investments, capital gains tax

the Dewey Decimal System). Attachment 7a further includes an entry in field 082 (“336.24¹⁹”), a subject matter consistent with the Dewey Decimal Classification System. Attachment 7a further includes two English language field 650 entries reading “Dividends - Taxation” and “Dividends - Taxation - Canada.” Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 7a was indexed according to its subject matter by virtue of at least three independently sufficient classifications: the field 050 entry, the field 082 entry, and the field 650 entries. Further, as of April 25, 1997, the MARC record attached hereto as Attachment 7a was accessible through any library with access to the OCLC bibliographic database which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

79. Attachment 7a indicates that the federal document *The Economic Effects of Dividend Taxation*, by McKenzie and Thompson as cataloged at Archives and Library Canada is currently available from 32 libraries. In view of above, the federal document *The Economic Effects of Dividend Taxation*, by McKenzie and Thompson was publicly available no later than April 25, 1997, because by that date it had been received, cataloged, and indexed at

¹⁹ 336.24 = income taxes

Archives and Library Canada and made part of the OCLC bibliographic database. For these reasons, it is my opinion that Exhibit 1011 was published and accessible to the public no later than April 25, 1997.

XII. Document 8 – Date II

80. Document 8 is a book, *An Introduction to Database Systems*, 6th edition, by C. J. Date (hereafter “Date II”) and issued by Addison-Wesley in 1995. The exhibit filed in this proceeding as Exhibit 1014 is a true and correct copy of the Document 8 title page for each volume, title page verso, table of contents, all 25 chapters, and appendices as held by the Dayton Memorial Library at Regis University. I obtained the book from the Dayton Memorial Library at Regis University and Exhibit 1014 is a copy. Specifically, the text of Exhibit 1014 is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. Exhibit 1014 was found within the custody of a library – a place where, if authentic, a copy of this book would likely be. Exhibit 1014 is a true and correct copy in a condition that creates no suspicion about its authenticity.

81. Attached hereto as Attachment 8a is a true and correct copy of the MARC record for this book from the Dayton Memorial Library at Regis University. The library ownership is indicated by the presence of the library’s

code (COR) in the 049 field. The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. I personally identified and retrieved the library catalog record which is Attachment 8a.

82. Based on finding a print copy of Document 8 in the Dayton Memorial Library at Regis University and MARC record in its online library catalog attached as Attachment 8a, it is my opinion that *An Introduction to Database Systems*, 6th edition, was available in the Dayton Memorial Library at Regis University as of February 1, 1994, as shown in Field 008.

83. Attached hereto as Attachment 8b is a true and correct copy of the MARC record for *An Introduction to Database Systems*, 6th edition, obtained from the OCLC bibliographic database. I personally identified and retrieved the MARC record that is Attachment 8b. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 8b, that library code is "DLC," which means that the MARC record for this book was created at the Library of Congress. The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. As can be seen in the "Entered" field in the MARC record for this exhibit, a cataloger at the Library of Congress created OCLC record number 29843502 on February 1, 1994.

84. Attachment 8b further includes an entry in field 050 (“QA76.9.D3²⁰ ¶b D3659 1995”)—as described above, this includes a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal System). Attachment 8b further includes an entry in field 082 (“005.74²¹”), a subject matter consistent with the Dewey Decimal Classification System. Attachment 8b further includes an English language field 650 entry reading “Database management.” Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 8b was indexed according to its subject matter by virtue of at least three independently sufficient classifications: the field 050 entry, the field 082 entry, and the field 650 entry. Further, as of February 1, 1994, the MARC record attached hereto as Attachment 8b was accessible through any library with access to the OCLC bibliographic database which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

85. Attachment 8b indicates that the book *An Introduction to Database Systems*, 6th edition, as cataloged at the Library of Congress is currently available

²⁰ QA76.9.D3 = database management

²¹ 005.74 = data files and databases

from 508 libraries. In view of above, this monograph, *An Introduction to Database Systems*, 6th edition, was publicly available no later than February 1, 1994, because by that date it had been received, cataloged, and indexed at the Library of Congress, made part of the OCLC bibliographic database, and received at the Dayton Memorial Library at Regis University. For these reasons, it is my opinion that Exhibit 1014 was published and accessible to the public no later than February 1, 1994.

XIII. Document 9 – Kimball

86. Document 9 attached hereto as Exhibit 1010 is a true and correct copy of an article, “Calculating and Using Risk-Adjusted ROE for Lines of Business” by Ralph C. Kimball (hereafter “Kimball”) published in Volume 7, Number 1 of the journal *Bank Accounting & Finance* found in the Library of Congress. The Kimball article appears beginning on page 17 of this issue dated Fall 1993. Exhibit 1010 is a true and correct copy of the issue cover and the article (pages 17-27). I obtained this copy of the article from the Library of Congress, which comprises Exhibit 1010. Specifically, the text of the article is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. Exhibit 1010 was found within the custody of a library – a place where, if authentic, a copy of this

journal would likely be. Exhibit 1010 is a true and correct copy in a condition that creates no suspicion about its authenticity.

87. The cover of the Fall 1993 issue of the journal *Bank Accounting & Finance* has a stamp affixed at the Library of Congress which shows that it was received, verified, and checked in on November 2, 1993. Therefore, this issue of the journal *Bank Accounting & Finance* would have been available to users at the Library of Congress on that date.

88. Attached hereto as Attachment 9a is a true and correct copy of the MARC record for the journal *Bank Accounting & Finance* at the Library of Congress. The library ownership is indicated by the presence of the library's code (DLC) in the 049 field. I personally identified and retrieved the MARC record that is Attachment 9a. I personally identified and retrieved the library catalog record which is Attachment 9a.

89. As noted in the holdings information, the Library of Congress has received the journal *Bank Accounting & Finance* since Fall 1987 and continues to receive the publication. Based on finding a print copy of Exhibit 1010 in the Library of Congress and MARC record in its online library catalog attached as Attachment 9a, it is my opinion that the Kimball article was available in the Library of Congress as of November 2, 1993. In view of the MARC record for

Exhibit 1010, the Kimball article was publicly available no later than November 2, 1993, because the serial title had been received, cataloged, and indexed at the Library of Congress and made part of its online catalog database.

90. Attached hereto as Attachment 9b is a true and correct copy of the MARC record for the journal *Bank Accounting & Finance* obtained from the OCLC bibliographic database. I personally identified and retrieved the MARC record that is Attachment 9b. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Exhibit 1010, that library code is “NSD,” which means that the MARC record for this serial was created as part of the National Series Data Program at the Library of Congress. The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. As can be seen in the “Entered” field in the MARC record for this exhibit, a cataloger at the Library of Congress created OCLC record number 16068783 on June 24, 1987. The “BLvl” entry in Attachment 9b is “s,” which indicates that the journal *Bank Accounting & Finance* is a serial publication. Field 310 of Attachment 6b reads “Bimonthly, 2002-.” The Field 321 entry of Attachment 9b indicates that the frequency had been quarterly (1987-2001). Accordingly, the MARC record in Attachment 9b corresponds to

those issues of the journal *Bank Accounting & Finance* from the time of the serial title began publication in Fall 1987 to the present day.

91. Attachment 9b further includes an entry in field 050 (“HG1707²² ‡b .B287”)—as described above, this includes a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal System). Attachment 9b further includes an entry in field 082 (“657/.8333/0097305²³”), a subject matter consistent with the Dewey Decimal Classification System. Attachment 9b further includes an English language field 650 entry reading “Banks and banking ‡z United States ‡x Accounting ‡v Periodicals.” Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 9b was indexed according to its subject matter by virtue of at least three independently sufficient classifications: the field 050 entry, the field 082 entry, and the field 650 entry. Further, as of June 24, 1987, the MARC record attached hereto as Attachment 9b was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that subscribed to this journal, which means that the corresponding publication was publicly available on or before that same date

²² HG1707 = banking, accounting, bookkeeping, general works

²³ 657.8333 = finance in the United States

through any library with access to the OCLC bibliographic database or through an individual library.

92. Attachment 9b indicates that the journal *Bank Accounting & Finance* as cataloged at the Library of Congress is currently available from 96 libraries. In view of above, this issue of the journal *Bank Accounting & Finance* was publicly available no later than November 2, 1993, because by that date it had been received, cataloged, and indexed at the Library of Congress and made part of the OCLC bibliographic database. For these reasons, it is my opinion that Exhibit 1010 was published and accessible to the public no later than November 2, 1993.

XIV. Document 10 – Frei

93. Document 10 is a technical report, *Innovations in Retail Banking*, by Frances X. Frei, Patrick T. Harper, and Larry W. Hunter (hereafter “Frei”) and issued by The Wharton School at the University of Pennsylvania in 1998. The exhibit filed in this proceeding as Exhibit 1012 is a true and correct copy of the title page and text downloaded from the SSRN website.²⁴ I obtained this technical report and made the copies which comprise Exhibit 1012. Specifically, the text of Document 10 is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible

²⁴ https://papers.ssrn.com/sol3/papers.cfm?abstract_id=89168

alterations to the document. Exhibit 1012 was found within the custody of a professional research network— a place where, if authentic, a copy of this technical report would likely be. Exhibit 1012 is a true and correct copy in a condition that creates no suspicion about its authenticity.

94. Based on finding a digital copy of Document 10 on the Internet, it is my opinion that the technical report, *Innovations in Retail Banking*, by Frei, *et. al.*, was available to the public as of January 31, 1998, or shortly thereafter, as shown on the cover of the report.

XV. Document 11 – Wells Fargo

95. Document 11 is a technical report, *1996 Annual Report*, issued by Wells Fargo & Company (hereafter “Wells Fargo”) in 1997. The exhibit filed in this proceeding as Exhibit 1018 is a true and correct copy of the title page and text downloaded from the Wells Fargo corporate website.²⁵ I obtained this technical report and made the copies which comprise Exhibit 1018. Specifically, the text of Document 11 is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. Exhibit 1018 was found within the custody of the

²⁵

https://www.wellsfargohistory.com/download/annualreports/1996annualreport_wf.pdf

issuing corporation – a place where, if authentic, a copy of this technical report would likely be. Exhibit 1018 is a true and correct copy in a condition that creates no suspicion about its authenticity.

96. Based on finding a digital copy of Document 11 on Wells Fargo's website, it is my opinion that the technical report, *1996 Annual Report*, by Wells Fargo was available to the public as of March 6, 1997, or shortly thereafter, as shown on page 5 of the report.

XVI. Document 12 – SAP -IS-B

97. Document 12 is a technical report, *Funktionen im Detail: System R/3 IS-B The SAP Industry Solution For Banks*, issued by SAP (hereafter "SAP-IS-B") in 1995. The exhibit filed in this proceeding as Exhibit 1022 is a true and correct copy of documents downloaded from the Internet Archive, the Wayback Machine.²⁶ The Wayback Machine provided the copies which comprise Exhibit 1022 and I have visited the listed websites and confirmed that they accurately reflect the documents as stored in the Wayback Machine. In addition, I note that the text of Document 12 is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. Exhibit 1022 was found within the custody of

²⁶ The website addresses are reflected in the declaration provided in Exhibit 1015.

a digital library of archived websites – a place where, if authentic, a copy of this archival document would likely be. Exhibit 1022 is a true and correct copy in a condition that creates no suspicion about its authenticity.

98. The Internet Archive is a non-profit digital library founded in 1996. The Internet Archive maintains an archive of webpages collected from the Internet using software called a crawler. Crawlers automatically create a snapshot of webpages as they existed at a certain point in time. The WayBack Machine is an application using a crawler created by the Internet Archive to search its archive of Web page URLs and to represent, graphically, the date of each crawler capture. The Internet Archive captures data that is publicly available. Some sites are “not archived because they were password protected, blocked by robots.txt, or otherwise inaccessible to our automated systems. Site owners might have also requested that their sites be excluded from the WayBack Machine.”

99. Many Internet Archive captures made by the WayBack Machine have a banner at the top with the capture date prominently displayed. Other dates when captures of the same URL have been made are indicated to the right and left of the date provided in the banner. Some captures may lack this banner. In any case, the URL for the capture begins with the identification of the Internet Archive page (e.g., <http://web.archive.org/web/>) followed by information that dates and time

stamps the capture as follows: year in yyyy, month in mm, day in dd, time code in hh:mm:ss (e.g., 20071120082013, or November 20, 2007 at 8:20:13 a.m.). These elements are then followed by the URL of the original capture site. When links are active, the WayBack Machine is programmed to produce the archived file with the closest available date (not the closest available prior date) to the page upon which the link appeared and was clicked. I and other librarian professionals are familiar with the Internet Archive and the Wayback Machine.²⁷

100. Based on finding a digital copy of Document 12 within the custody of the Wayback Machine on the Internet, it is my opinion that the technical report, *Funktionen im Detail: System R/3 IS-B The SAP Industry Solution For Banks*, issued by SAP was available to the public as of July 21, 1997, or shortly thereafter, as shown in the URL above.

XVII. Document 13 – *ComputerWorld*

101. Document 13 is attached hereto as Exhibit 1024 is a true and correct copy of SAP advertisements (hereafter “Computerworld”) published in the Special Editorial Supplement, Volume 31, Number 30 of the journal *Computerworld* found

²⁷ For more information about the Internet Archive see the WayBack Machine FAQ, https://archive.org/about/faqs.php#The_Wayback_Machine.

in the University of Wisconsin – Madison Library. The *Computerworld* advertisements appear beginning on page 65 of this issue dated July 28, 1997. Exhibit 1024 is a true and correct copy of the issue cover and the advertisements (pages 65-66). I obtained this copy of the advertisements from the University of Wisconsin – Madison Library which comprises Exhibit 1024. Specifically, the text of the advertisements is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. Exhibit 1024 was found within the custody of a library – a place where, if authentic, a copy of this journal would likely be. Exhibit 1024 is a true and correct copy in a condition that creates no suspicion about its authenticity.

102. Attached hereto as Attachment 13a is a true and correct copy of the MARC record for the journal *Computerworld* at the University of Wisconsin --- Madison Library. I personally identified and retrieved the MARC record that is Attachment 13a. I personally identified and retrieved the library catalog record which is Attachment 13a.

103. Based on finding a print copy of Exhibit 1024 in the University of Wisconsin – Madison Library and MARC record in its online library catalog attached as Attachment 13a, it is my opinion that the SAP advertisements were

available in the University of Wisconsin – Madison Library as of July 28, 1997, or shortly thereafter.

104. As noted in the holdings information, the University of Wisconsin – Madison Library has received the journal *Computerworld* since 1967 and continued to receive the publication until it ceased operations in 2014. In view of the MARC record for Exhibit 1024, the SAP advertisements were publicly available no later than July 28, 1997, or shortly thereafter, because the serial title had been received, cataloged, and indexed at the University of Wisconsin – Madison Library and made part of its online catalog database.

105. Attached hereto as Attachment 13b is a true and correct copy of the MARC record for the journal *Computerworld* obtained from the OCLC bibliographic database. I personally identified and retrieved the MARC record that is Attachment 13b. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 13b, that library code is “PIT,” which means that the MARC record for this serial was created in the Hillman Library at the University of Pittsburgh. As can be seen in the “Entered” field in the MARC record for this exhibit, a cataloger in the Hillman Library at the University of Pittsburgh created OCLC record number 2259660 on June 20, 1976. The “BLvl” entry in Attachment 13b is “s,” which indicates that the journal

Computerworld is a serial publication. Field 310 of Attachment 13b reads “Semimonthly, Sept. 2009-.” The Field 321 entry of Attachment 13b indicates that the frequency varied, beginning as Weekly (except last week in Dec. & first week in Jan.), <1967>-Aug. 2009). Accordingly, the MARC record for Exhibit 1024 corresponds to those issues of the journal *Computerworld* from the time of the serial title began publication in 1967 to the time that the publication ceased operations in 2014.

106. Attachment 13b further includes an entry in field 050 (“QA76 .C5816”)—as described above, this includes a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal System). Attachment 13b further includes an entry in field 082 (“001.64”), a subject matter consistent with the Dewey Decimal Classification System. Attachment 13b further includes three English language field 650 entries reading “Computers ‡v Periodicals,” “Computer industry ‡v Periodicals,” and “Electronic data processing ‡v Periodicals.” Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 13b was indexed according to its subject matter by virtue of at least three independently sufficient classifications: the field 050 entry, the field 082 entry, and the field 650 entries. Further, as of June 20, 1976, the MARC record attached hereto as

Attachment 13b was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that subscribed to this journal, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

107. Attachment 13b indicates that the journal *Computerworld* as cataloged in the Hillman Library at the University of Pittsburgh is currently available from 1,067 libraries. In view of above, this issue of the journal *Computerworld* was publicly available no later than July 28, 1997, or shortly thereafter, because by that date it had been cataloged and indexed in the Hillman Library at the University of Pittsburgh, made part of the OCLC bibliographic database, and received at the University of Wisconsin – Madison. For these reasons, it is my opinion that Exhibit 1024 was published and accessible to the public no later than July 28, 1997, or shortly thereafter.

XVIII. Document 14 – CIO

108. Document 14 is attached hereto as Exhibit 1025 is a true and correct copy of SAP advertisements (hereafter “CIO”) published in Volume 10, Number 19 of the journal *CIO* found in the University of Wisconsin – Madison Library. The *CIO* advertisements appear beginning on page 91 of this issue dated August

1997. Exhibit 1025 is a true and correct copy of the issue cover, the table of contents, and the advertisements (pages 91-93). I obtained this copy of the advertisements from the University of Wisconsin – Madison Library which comprises Exhibit 1025. Specifically, the text of the advertisements is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. Exhibit 1025 was found within the custody of a library – a place where, if authentic, a copy of this journal would likely be. Exhibit 1025 is a true and correct copy in a condition that creates no suspicion about its authenticity.

109. Attached hereto as Attachment 14a is a true and correct copy of the MARC record for the journal *CIO* at the University of Wisconsin --- Madison Library. I personally identified and retrieved the MARC record that is Attachment 14a. I personally identified and retrieved the library catalog record which is Attachment 14a.

110. Based on finding a print copy of Exhibit 1025 in the University of Wisconsin – Madison Library and MARC record in its online library catalog attached as Attachment 14a, it is my opinion that the SAP advertisements were available in the University of Wisconsin – Madison Library as of August 31, 1997, or shortly thereafter.

111. As noted in the holdings information, the University of Wisconsin – Madison Library has received the journal *CIO* since 1987 and continued to receive the publication until it ceased operations in 2015. In view of the MARC record for Exhibit 1025, the SAP advertisements were publicly available no later than August 31, 1997, or shortly thereafter, because the serial title had been received, cataloged, and indexed at the University of Wisconsin – Madison Library and made part of its online catalog database.

112. Attached hereto as Attachment 14b is a true and correct copy of the MARC record for the journal *CIO* obtained from the OCLC bibliographic database. I personally identified and retrieved the MARC record that is Attachment 14b. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 13b, that library code is “NSD,” which means that the MARC record for this serial was created as part of the National Series Data Program at the Library of Congress. As can be seen in the “Entered” field in the MARC record for this exhibit, a cataloger at the Library of Congress created OCLC record number 16315402 on July 29, 1987. The “BLvl” entry in Attachment 14b is “s,” which indicates that the journal *CIO* is a serial publication. Field 310 of Attachment 14b reads “Semimonthly (monthly in July and Aug., combined issue, Dec. 15/Jan. 1), <1994->.” The Field 321 entries

of Attachment 14b indicates that the frequency varied: bimonthly (Sept./Oct 1987-Nov./Dec. 1987) and monthly (Sept. 1988-Feb. 1989). Accordingly, the MARC record for Exhibit 1025 corresponds to those issues of the journal *CIO* from the time of the serial title began publication in 1987 to the time that the publication ceased print operations in 2015. The publication is currently published online.

113. Attachment 14b further includes an entry in field 050 (“T58.6 ßb .C5”)—as described above, this includes a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal System). Attachment 14b further includes an entry in field 082 (“658.4/038/05”), a subject matter consistent with the Dewey Decimal Classification System. Attachment 14b further includes three English language field 650 entries reading “Management information systems ßv Periodicals,” “Executives ßv Periodicals,” and “Information resources management ßv Periodicals.” Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 14b was indexed according to its subject matter by virtue of at least three independently sufficient classifications: the field 050 entry, the field 082 entry, and the field 650 entries. Further, as of July 29, 1987, the MARC record attached hereto as Attachment 14b was accessible through any library with access to the OCLC bibliographic database or the online

catalog at a library that subscribed to this journal, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

114. Attachment 14b indicates that the journal *CIO* as cataloged at the Library of Congress is currently available from 285 libraries. In view of above, this issue of the journal *CIO* was publicly available no later than August 31, 1997, or shortly thereafter, because by that date it had been cataloged and indexed at the Library of Congress, made part of the OCLC bibliographic database, and received at the University of Wisconsin – Madison. For these reasons, it is my opinion that Exhibit 1025 was published and accessible to the public no later than August 31, 1997, or shortly thereafter.

XIX. Document 15 – German-SAP-IS-B

115. Document 15 is a German language technical report, *Funktionen im Detail – IS-B – System R/3: Einzelgeschäftskalkulation*, (hereafter “German-SAP-IS-B”) and was issued by SAP AG in 1996. By visual inspection, it appears to be a German language counterpart, with minor differences, to Document 12 discussed above. German-SAP-IS-B was made publicly available in at least two ways: (1) it was available on SAP’s website (www.sap.com) and archived by the Wayback

Machine; and (2) deposited in many libraries throughout Germany.

116. With respect to German-SAP-IS-B's availability in libraries, I have performed the following steps. Specifically, the exhibit filed in this proceeding as Exhibit 1021 is a true and correct copy of the entire report from the University of Stuttgart Library. I requested a scanned copy of this report from the University of Stuttgart Library and the copy that comprises Exhibit 1021 is the version that I received. Specifically, the text of the pages of Exhibit 1021 are complete; further, there are no visible alterations to the document. Exhibit 1021 was found within the custody of a library – a place where, if authentic, a copy of this book would likely be. Exhibit 1021 is a true and correct copy in a condition that creates no suspicion about its authenticity.

117. Attached hereto as Attachment 15a is a true and correct copy of the catalog record for this technical report held by the University of Stuttgart Library. I personally identified and retrieved the library catalog record which is Attachment 15a. During my search to verify the public availability of *Enzelgeschäftskalkulation*, I located a copy at the University of Applied Sciences – München Library as well. Attached hereto as Attachment 15c is a true and correct copy of the catalog record for this technical report held by the University of Applied Sciences - München Library. I personally identified and retrieved the

library catalog record which is Attachment 15c. Based on finding a print copy of Document 15 in the University of Applied Sciences - München Library and record in its online library catalog attached as Attachment 15c, it is my opinion that *System R/3: Einzelgeschäftskalkulation* was available in the University of Applied Sciences - München Library as of September 24, 1997.

118. Based on finding a print copy of Document 15 in the University of Stuttgart Library and record in its online library catalog attached as Attachment 15a, it is my opinion that *System R/3: Einzelgeschäftskalkulation* was available in the University of Stuttgart Library as of January 13, 1999. In addition, it is my opinion that *System R/3: Einzelgeschäftskalkulation* was available at the University of Applied Sciences - München Library September 24, 1997.

119. Attached hereto as Attachment 15b is a true and correct copy of the MARC record for *System R/3: Einzelgeschäftskalkulation* obtained from the OCLC bibliographic database. I personally identified and retrieved the MARC record that is Attachment 15b. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 15b, that library code is “GBVCP,” which means that the MARC record for this book was created at the Verbundzentrale des Gemeinsamen Bibliotheksverbundes. As can be seen in the “Entered” field in the MARC record for this exhibit, a cataloger at the

Verbundzentrale des Gemeinsamen Bibliotheksverbundes created OCLC record number 258626467 on September 24, 1997.

120. Attachment 15b further includes an entry in field 084 (“QH 500”)—as described above, this includes a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal System). Attachment 10b further includes three German language field 650 entries reading “Bank,” “Kalkulation,” and “SAP R/3.” Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 15b was indexed according to its subject matter by virtue of at least two independently sufficient classifications: the field 084 entry and the field 650 entries. Further, as of September 24, 1997, the MARC record attached hereto as Attachment 15b was accessible through any library with access to the OCLC bibliographic database which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

121. Attachment 15b indicates that the book *System R/3: Einzelgeschäftskalkulation* as cataloged at the Verbundzentrale des Gemeinsamen Bibliotheksverbundes is currently available from 7 libraries. In view of above, this monograph, *System R/3: Einzelgeschäftskalkulation*, was publicly available no

later than September 24, 1997, because by that date it had been received, cataloged, and indexed at the Verbundzentrale des Gemeinsamen Bibliotheksverbundes and made part of the OCLC bibliographic database. For these reasons, it is my opinion that Exhibit 1010 was published and accessible to the public no later than September 24, 1997.

122. In addition, with respect to German-SAP-IS-B's availability on the Wayback Machine, as discussed above with respect to Document 12, I personally performed the following actions to download the relevant documents from the Internet Archive's Wayback Machine:

- Accessed SAP's website for "SAP Banking - the Industry Solution from SAP" at the following address:

https://web.archive.org/web/19970721213816fw_/http://www.sap.com:80/products/industry/banking/index.htm

The website address above indicates this webpage was available as of July 21, 1997.

- Clicked on the link for "Media Center" to go to the following address:

https://web.archive.org/web/19970722003811/http://www.sap.com:80/products/industry/banking/media/mc_bank.htm

The website address above indicates this webpage was available as of July

22, 1997.

- Clicked on the link for “IS-B Einzelgeschäftskalkulation / Meldewesen” to go to the following address:

<https://web.archive.org/web/19970724064908/http://www.sap.com:80/products/industry/media/50011316.htm>

The website address above indicates this webpage was available as of July 24, 1997.

- Clicked on the following items which were links to the parts of the publication stored in PDF format and whose links indicate that they were available as of July 24, 1997:

- o “Titel” at the following address:

https://web.archive.org/web/19970724064908/http://www.sap.com:80/products/industry/media/pdf/11316_ti.pdf

- o “Inhalt” at the following address:

https://web.archive.org/web/19970724064908/http://www.sap.com:80/products/industry/media/pdf/11316_co.pdf

- o “Einleitung” at the following address:

https://web.archive.org/web/19970724064908/http://www.sap.com:80/products/industry/media/pdf/11316_01.pdf

- o “Einbindung in das SAP – Umfeld” at the following address:
https://web.archive.org/web/19970724064908/http://www.sap.com:80/products/industry/media/pdf/11316_02.pdf
- o “Die IS-B-Architektur” at the following address:
https://web.archive.org/web/19970724064908/http://www.sap.com:80/products/industry/media/pdf/11316_03.pdf
- o “IS-B-Anwendungsfunktionen” at the following address:
https://web.archive.org/web/19970724064908/http://www.sap.com:80/products/industry/media/pdf/11316_04.pdf
- o “Anwendungsneutrale Eigenschaften” at the following address:
https://web.archive.org/web/19970724064908/http://www.sap.com:80/products/industry/media/pdf/11316_05.pdf
- o “Einführungsstrategie” at the following address:
https://web.archive.org/web/19970724064908/http://www.sap.com:80/products/industry/media/pdf/11316_06.pdf
- o “Glossar” at the following address:
https://web.archive.org/web/19970724064908/http://www.sap.com:80/products/industry/media/pdf/11316_gl.pdf

I printed the webpages to PDF and downloaded the PDFs referenced above. They

were then combined together into an exhibit that is filed in this proceeding as Exhibit 1023. In addition, the PDF's identified above (*e.g.*, beginning with the "Titel" file and going down) are accurately reflected in the exhibit filed in this proceeding as Exhibit 1007. Specifically, the PDFs I downloaded are shown combined and without page separators in Exhibit 1007 beginning after the page entitled "GERMAN VERSION" in Exhibit 1007. Thus, I confirm that the version of German-SAP-IS-B found in Exhibit 1007 was available on SAP's website no later than July 24, 1997.

123. I also considered whether the version of German-SAP-IS-B I collected via the Wayback Machine and the version of German-SAP-IS-B I collected from the University of Stuttgart were the same. Although I noted that there were pagination differences (*e.g.*, because of spacing differences between the PDF copy and the printed copy, two lines on page 1-1 of the PDF version (Exhibit 1023) are pushed to page 1-2 of the printed version found in the University of Stuttgart (Exhibit 1021)), I have confirmed that the substance and text of the documents is identical. The only additional substance appearing in the book (Exhibit 1021) are the three pages at the end, listing SAP's Office Contact information.

124. I also considered how a searcher might locate the version of SAP-IS-

B (Exhibit 1021) in a library. Specifically, I performed four sample searches using terms that a researcher in the relevant field might use on WorldCat (a well-known library search tool used by researchers) in 1998:

- Searching WorldCat up to the year 1998 for the terms: “SAP R/3” AND “bank” AND “kalkulation” (the German word for calculation) yields only one result – German-SAP-ISB (see Attachment 15d);
- Searching WorldCat up to the year 1998 for the terms: “SAP R/3” AND “bank” yields only 13 results, and German-SAP-ISB is the fourth result (see Attachment 15e);
- Searching WorldCat up to the year 1998 for the terms: “SAP R/3” AND “kalkulation” yields only eight results, and German-SAP-ISB is the fourth result (see Attachment 15f);
- Searching WorldCat up to the year 1998 for the terms: “bank” and “kalkulation” yields 77 results and German-SAP-IS-B is the 32nd result (see Attachment 15g).

XX. SUMMARY OF OPINIONS

125. In view of the foregoing, it is my opinion that the publications described above were publicly available no later than the corresponding date listed in the table below:

Exhibit	Publication	Publicly Available No Later Than
1005	<i>The Ernst & Young Guide to Performance Measurement for Financial Institutions: Methods for Managing Business Results</i> . Rev. ed. Chicago, IL: Probus Publishing, c1995.	April 3, 1995
1013	Horngren, Charles T., George Foster, and Srikant M. Datar. <i>Cost Accounting: A Managerial Approach</i> . 9th ed. Upper Saddle River, NJ: Prentice Hall, c1997.	March 27, 1996
1006	ASAP World Consultancy and Jonathan Blain with Mark Denning, Kate Hill, Bernard Dodd, Jonathan Lingard, Gray Elkington, Eric Matthews, Wendy Hewson, Jonathan R. Tate, and Phillipa Worth; contributions by Christian Dannerman and Steve Walsh. <i>Using SAP R/3</i> . Special ed. Indianapolis, IN: Que, c1997.	September 20, 1996
1004	Date, C. J. <i>A Guide to the SQL Standard</i> . 2d ed. Reading, MA: Addison-Wesley, c1989.	January 27, 1989
1008	Mabberley, Julie. <i>Activity-based Costing in Financial Institutions</i> . Financial Times series. London: Pitman Publishing, 1992.	March 30, 1993
1009	Stuchfield, Nic, and Bruce Weber. <i>Modeling the Profitability of Customer Relationships: Development and Impact of Barclays De Zoete Wedd's BEATRICE</i> . NYU Information Systems Working Papers Series IS-92-23 (August 1992). New York: New York University, 1992.	March 23, 1993
1011	McKenzie, Kenneth J., and Aileen J. Thompson. <i>Economic Effects of Dividend Taxation</i> . Technical Committee on Business Taxation, Working Paper 96-7 (December 1996). Ottawa, Ontario, Canada: Department of Finance, 1996.	April 25, 1997

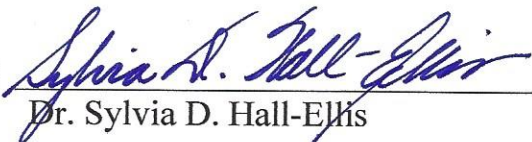
Exhibit	Publication	Publicly Available No Later Than
1014	Date, C. J. <i>Introduction to Database Systems</i> . 6th ed. Reading, MA: Addison-Wesley, c1995.	February 1, 1994
1010	Kimball, Ralph C. "Calculating and Using Risk-Adjusted ROE for Lines of Business." <i>Bank Accounting & Finance</i> , vol. 7, no. 1 (Fall 1993): 17-27.	November 2, 1993
1012	Frei, Frances X., Patrick T. Harper, and Larry W. Hunter. <i>Innovations in Retail Banking</i> . Wharton Financial Institutions Center, January 1998, 97-48-B. Philadelphia, PA: The Wharton School, University of Pennsylvania, 1998.	January 31, 1998
1018	Wells Fargo & Company. <i>1996 Annual Report</i> . San Francisco, CA: Wells Fargo, 1997.	March 6, 1997
1022	<i>Funktionen im Detail: System R/3 IS-B The SAP Industry Solution For Banks</i> . ("SAP-IS-B"). Walldorf, Germany: SAP AG, c1995.	July 21, 1997
1024	"SAP Advertisement." <i>Computerworld</i> , Special Editorial Supplement, vol. 31, no. 30 (28 July 1997): 65-66.	July 28, 1997
1025	"Smooth Transitions: SAP Advertisements." <i>CIO</i> , vol. 10, no. 19 (August 1997): 91-93.	August 31, 1997
1007 (translated copy), 1021 (library copy), and 1023 (Wayback machine printouts)	<i>Funktionen im Detail – IS-B – System R/3: Einzelgeschäftskalkulation</i> . Walldorf, Baden-Württemberg, Germany: SAP AG, 1996.	July 24, 1997

126. In signing this Declaration, I recognize that the Declaration will be filed as evidence in a case before the Patent Trial and Appeal Board of the United States Patent and Trademark Office. I also recognize that I may be subject to cross-examination in the case and that cross-examination will take place within the United States. If cross-examination is required of me, I will appear for cross-

examination within the United States during the time allotted for cross-examination.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code.

DATED: November 10, 2018

By: 
Dr. Sylvia D. Hall-Ellis

ATTACHMENT 1a

001 32246362
 003 OCoLC
 005 19951030170401.0
 008 950403s1995 ilua b 001 0 eng d
 020 1557387370
 035 .b22791747|bbus |c-
 040 CTC|cCTC|dFXG|dCOD
 049 CODG
 090 HG1615|b.E76 1995
 090 HG1615|b.E76 1995
 245 04 The Ernst & Young guide to performance measurement for
 financial institutions :|bmethods for managing business
 results
 246 3 Ernst and Young guide to performance measurement for
 financial institutions
 246 30 Guide to performance measurement for financial
 institutions
 246 30 Performance measurement for financial institutions
 250 Rev. ed
 260 Chicago, Ill. :|bProbus Pub.,|c©1995
 300 xv, 341 pages :|billustrations ;|c24 cm
 336 text|btxt|2rdacontent
 337 unmediated|bn|2rdamedia
 338 volume|bnc|2rdacarrier
 490 1 A Bankline publication
 504 Includes bibliographical references and index
 583 |3Items in PASCAL: |acommitted to retain|c20170101
 |d20420101|5CoU|fAlliance Shared Trust|uhttps://
 www.coalliance.org/shared-print-archiving-policies)
 650 0 Financial institutions|xManagement
 650 0 Bank management
 650 0 Portfolio management
 650 0 Banks and banking|xAccounting
 710 2 Ernst & Young
 830 0 Bankline publication
 907 .b22791747|b12-18-08|c10-31-95
 907 .b22791747|b08-07-08|c10-31-95
 944 RDA ENRICHED
 944 MARS
 945 |iU183017422598|lbusst|t0
 945 |lbusst
 946 jg

ATTACHMENT 1b

OCLC		32246362		No holdings in XXX - 73 other holdings			
Books	Rec Stat	c	Entered	19950403	Replaced	20150303205339.8	
Type	a	ELvl	I	Src	d	Audn	Ctrl
BLvl	m	Form		Conf	0	Bio	MRec
		Cont	b	GPub		LitF	0
Desc	a	Ills	a	Fest	0	DtSt	s
						Dates	1995,
040	CTC	#b eng	#c CTC	#d FXG	#d OCLCQ	#d OCLCF	#d OCLCQ
020	1557387370						
020	9781557387370						
050	_4	HG1615	#b .E76	1995			
082	04	332.1					
245	04	The Ernst & Young guide to performance measurement for financial institutions : #b methods for managing business results.					
246	30	Guide to performance measurement for financial institutions					
246	30	Performance measurement for financial institutions					
246	3_	Ernst and Young guide to performance measurement for financial institutions					
250		Rev. ed.					
260		Chicago, Ill. : #b Probus Pub., #c ©1995.					
300		xv, 341 pages : #b illustrations ; #c 24 cm.					
336		text #b txt #2 rdacontent					
337		unmediated #b n #2 rdamedia					
338		volume #b nc #2 rdacarrier					
490	1_	A Bankline publication					
504		Includes bibliographical references and index.					
650	_0	Financial institutions #x Management .					
650	_0	Bank management .					
650	_0	Portfolio management .					
650	_0	Banks and banking #x Accounting .					
650	_7	Bank management. #2 fast #0 (OCoLC)fst00826723					
650	_7	Banks and banking #x Accounting. #2 fast #0 (OCoLC)fst00826868					
650	_7	Financial institutions #x Management. #2 fast #0 (OCoLC)fst00924676					
650	_7	Portfolio management. #2 fast #0 (OCoLC)fst01072072					
710	2_	Ernst & Young .					
776	08	#i Online version: #t Ernst & Young guide to performance measurement for financial institutions. #b Rev. ed. #d Chicago, Ill. : Probus Pub., ©1995 #w (OCoLC)749162507					
830	_0	Bankline publication .					

ATTACHMENT 2a

- 0013997479
- 00520080410141329.0
- 008 960327s1997 njua b 001 0 eng
- 035__ |**9** (DLC) 96015750
- 010__ |**a** 96015750
- 020__ |**a** 0132329018
- 040__ |**a** DLC |**c** DLC |**d** DLC
- 05000 |**a** HF5686.C8 |**b** H59 1997
- 08200 |**a** 658.15/11 |**2** 20
- 1001_ |**a** Horngren, Charles T., |**d** 1926-
- 24510 |**a** Cost accounting : |**b** a managerial emphasis / |**c** Charles T. Horngren, George Foster, Srikant M. Datar.
- 250__ |**a** 9th ed.
- 260__ |**a** Upper Saddle River, NJ : |**b** Prentice Hall, |**c** c1997.
- 300__ |**a** xxviii, 1012 p. : |**b** col. ill. ; |**c** 29 cm.
- 440_0 |**a** Prentice Hall series in accounting
- 504__ |**a** Includes bibliographical references (p. 974-976) and indexes.
- 650_0 |**a** Cost accounting.
- 650_0 |**a** Costs, Industrial.
- 7001_ |**a** Foster, George, |**d** 1948-
- 7001_ |**a** Datar, Srikant M.
- 906__ |**a** 7 |**b** cbc |**c** orignew |**d** 1 |**e** ocip |**f** 19 |**g** y-gencatlg
- 955__ |**a** pc05 to sa00 03-27-96; sc09 04-04-96; sc17 04-09-96; sc02 to DDC 04-10-96; CIP ver. pv01 04-03-97
- 991__ |**b** c-GenColl |**h** HF5686.C8 |**i** H59 1997 |**t** Copy 1 |**w** BOOKS

ATTACHMENT 2b

OCLC 34564820 No holdings in XXX - 305 other holdings

Books	Rec Stat	c	Entered	19960327	Replaced	20171221100831.5
Type	a		ELvl		Src	Audn
BLvl	m		Form		Conf	0
			Cont	b	GPub	
Desc	a		Ills	a	Fest	0
					LitF	0
					DtSt	s
					Ctrl	
					MRec	
					Indx	1
					Dates	1997,
					Lang	eng
					Ctry	nju

- 010 96015750
- 040 DLC \$b eng \$c DLC \$d UBA \$d UKM \$d ZNC \$d BAKER \$d BTCTA \$d YDXCP \$d NZPET \$d UKV3G \$d NLGGC \$d OCLCG \$d NLE \$d ZWZ \$d DEBBG \$d GBVCP \$d OCLCO \$d OCLCF \$d OCLCQ \$d EYM \$d OCLCO \$d ILM \$dOCLCQ \$d OCLCA
- 015 GB9677130 \$2 bnb
- 019 35829276 \$a 39986603 \$a 59654205 \$a 974756953
- 020 0132329018
- 020 9780132329019
- 020 0135712173 \$q (pbk.)
- 020 9780135712177 \$q (pbk.)
- 020 0132640864
- 020 9780132640862
- 050 00 HF5686.C8 \$b H59 1997
- 082 00 658.15/11 \$2 20
- 084 85.25 \$2 bcl
- 084 QP 830 \$2 rvk
- 100 1_ Horngren, Charles T., \$d 1926-
- 245 10 Cost accounting : \$b a managerial emphasis / \$c Charles T. Horngren, George Foster, Srikant M. Datar.
- 250 9th ed.
- 260 Upper Saddle River, NJ : \$b Prentice Hall, \$c ©1997.
- 300 xxviii, 1012 pages : \$b color illustrations ; \$c 29 cm.
- 336 text \$b txt \$2 rdacontent
- 337 unmediated \$b n \$2 rdamedia
- 338 volume \$b nc \$2 rdacarrier
- 490 1_ Prentice Hall series in accounting
- 504 Includes bibliographical references (pages 974-976) and indexes.
- 505 0_ pt. 1. Cost Accounting Fundamentals -- pt. 2. Tools for Planning and Control -- pt. 3. Cost Information for Decisions -- pt. 4. Cost Allocation and Revenues -- pt. 5. Quality and JIT -- pt. 6. Capital Budgeting -- pt. 7. Management Control Systems -- App. A. Surveys of Company Practice -- App. B. Recommended Readings -- App. C. Notes on Compound Interest and Interest Tables -- App. D. Cost Accounting in Professional Examinations.
- 650 0_ Cost accounting.
- 650 0_ Costs, Industrial.
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- 650 7_ Costs, Industrial. \$2 fast \$0 (OCoLC)fst00880748
- 650 17 Cost accounting. \$2 gtt
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[655](#) _4 Lehrbuch.
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[700](#) 1_ [Datar, Srikant M.](#)
[830](#) _0 [Prentice-Hall series in accounting.](#)
[856](#) 41 [#3](#) Table of contents [#u](#) <http://www.gbv.de/dms/bowker/toc/9780135712177.pdf>

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- 040__ |**a** DLC |**c** DLC |**d** DLC
- 05000 |**a** QA76.76.I57 |**b** U88 1996
- 08200 |**a** 650/.0285/53769 |**2** 21
- 24500 |**a** Using SAP R/3 / |**c** written by ASAP World Consultancy and Jonathon Blain, with Mark Denning ... [et al.] ; contributions by Christian Dannerman, Steve Walsh.
- 2463_ |**a** Special edition using SAP R/3
- 250__ |**a** Special ed.
- 260__ |**a** Indianapolis, IN : |**b** Que, |**c** c1996.
- 300__ |**a** xxxix, 1138 p. : |**b** ill. ; |**c** 24 cm.
- 500__ |**a** Includes index.
- 650_0 |**a** Integrated software.
- 63000 |**a** SAP R/3.
- 650_0 |**a** Client/server computing.
- 650_0 |**a** ABAP/4 (Computer program language)
- 7001_ |**a** Blain, Jonathon.
- 7102_ |**a** ASAP World Consultancy.
- 906__ |**a** 7 |**b** cbc |**c** orignew |**d** 2 |**e** opcn |**f** 19 |**g** y-gencatlg
- 920__ |**a** ** LC HAS REQ'D # OF SHELF COPIES **
- 922__ |**a** ad
- 955__ |**a** pb16 09-20-96; pb21 12-09-96 to cat.; jf00 12-16-96; jf09 to subj 12-17-96; jf11 to sl 12-18-96; je10 01-21-97; jf11 02-03-99
- 991__ |**b** c-GenColl |**h** QA76.76.I57 |**i** U88 1996 |**p** 00034281312 |**t** Copy 1 |**w** BOOKS

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246	3_	Special edition using SAP R/3											
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504	Includes bibliographical references (pages 1085-1087) and index.												
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700	1_	Blain, Jonathon.											
710	2_	ASAP World Consultancy.											
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 040 DLC|cDLC|dm/c|dCOD
 049 CODI
 050 0 QA76.9.D3|bD3695 1988
 050 0 QA76.9.D3|bD3695 1988
 100 1 Date, C. J
 245 12 A guide to the SQL standard :|ba user's guide to the
 standard relational language SQL /|cC.J. Date
 260 Reading, Mass. :|bAddison-Wesley Pub. Co.,|c1988, ©1987
 300 xiv, 205 pages ;|c24 cm
 336 text|btxt|2rdacontent
 337 unmediated|bn|2rdamedia
 338 volume|bnc|2rdacarrier
 500 Reprinted with corrections April, 1988
 500 Includes index
 504 Bibliography: pages 199-201
 590 Eng [c.1] sz
 650 0 Database management
 650 0 SQL (Computer program language)
 907 .b17102145|b12-16-08|c11-23-94
 907 .b17102145|b05-09-07|c11-23-94
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016 7 020-15020 \$2 Uk

019 26365488 \$a 1001175171

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082 00 005.75/6 \$2 19

084 DAT 652f \$2 stub

084 ST 271 \$2 rvk

090 \$b

100 1 Date, C. J.

245 12 A guide to the SQL standard : \$b a user's guide to the standard relational language SQL / \$c C.J. Date.

246 3 SQL Standard

250 2nd ed.

260 Reading, Mass. : \$b Addison-Wesley Pub. Co., \$c ©1989.

300 xii, 228 pages : \$b illustrations ; \$c 24 cm

336 text \$b txt \$2 rdacontent

337 unmediated \$b n \$2 rdamedia

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504 Includes bibliographical references (pages 221-223) and index.

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650 0 SQL (Computer program language)

650 7 Database management. \$2 fast \$0 (OCoLC)fst00888037

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650 7 Banques de données \$x Gestion. \$2 ram

650 7 SQL (langage de programmation) \$2 ram

650 07 SQL. \$2 swd

653 0 Relational databases

776 08 \$i Online version: \$a Date, C.J. \$t Guide to the SQL standard. \$b 2nd ed. \$d Reading, Mass. : Addison-Wesley Pub. Co., ©1989 \$w (OCoLC)681059153

856 41 \$3 Table of contents \$u <http://www.gbv.de/dms/bowker/toc/9780201502091.pdf>

ATTACHMENT 5a

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245 10\$aActivity-based costing in financial institutions
/\$cJulie Mabberley.
260 ##\$aLondon :\$bFinancial Times :\$bPitman,\$c1992.
300 ##\$avii, 226 p. :\$bill. ;\$c24 cm.
500 ##\$aIncludes index.
650 #0\$aFinancial institutions\$xCosts.\$0(uri)
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650 #0\$aFinancial intermediaries\$2LCSH\$041-LIBRARY_OF_CONGRESS-
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084 85.25 \$2 bcl

084 QK 330 \$2 rvk

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100 1 Mabberley, Julie.

245 10 Activity-based costing in financial institutions / \$c Julie Mabberley.

260 London : \$b Financial Times : \$b Pitman, \$c 1992.

300 vii, 226 pages : \$b illustrations ; \$c 24 cm

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337 unmediated \$b n \$2 rdamedia

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650 0 Financial institutions \$x Costs.

650 0 Financial institutions \$x Management.

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650 7 Institutions financières \$x Coût. \$2 ram

650 7 Comptabilité par activités. \$2 ram

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090	i 03/26/93 CT
1001	a Stuchfield, Nic.
24510	a Modeling the profitability of customer relationships : b development and impact of Barclays de Zoete Wedd's Beatrice / c by Nic Stuchfield, Bruce Weber.
260	a New York, N.Y. : b Leonard N. Stern School of Business, New York University Department of Information Systems, c 1992.
300	a [32] p. ; c 28 cm.
4901	a Working paper series ; v Stern IS-92-23
504	a Includes bibliographical references.
7001	a Weber, Bruce.
830 0	a Working paper series (Leonard N. Stern School of Business. Center for Research on Information Systems) ; v STERN IS-92-23.
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100 1 Stuchfield, Nic.

245 10 Modeling the profitability of customer relationships : \$b development and impact of Barclays de Zoete Wedd's Beatrice / \$c by Nic Stuchfield, Bruce Weber.

260 New York, N.Y. : \$b Leonard N. Stern School of Business, New York University Department of Information Systems, \$c 1992.

300 32 unnumbered pages ; \$c 28 cm.

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504 Includes bibliographical references.

700 1 Weber, Bruce.

830 0 Working paper series (Leonard N. Stern School of Business. Center for Research on Information Systems) ; \$v STERN IS-92-23.

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- 086__ |a F21-4/96-7
- 1001_ |a McKenzie, Kenneth J. |q (Kenneth James), |d 1959-
- 24514 |a The economic effects of dividend taxation / |c Kenneth J. McKenzie, Aileen J. Thompson ; prepared for the Technical Committee on Business Taxation.
- 260__ |a Ottawa : |b The Committee, |c 1996.
- 300__ |a 30 p. ; |c 28 cm.
- 4901_ |a Working paper ; |v 96-7
- 500__ |a Distributed by the Government of Canada Depository Services Program.
- 500__ |a Issued also in French under the title: Les effets économiques de l'imposition des dividendes.
- 7001_ |a Thompson, Aileen J.
- 7101_ |a Canada. |b Technical Committee on Business Taxation.
- 830_0 |a Working paper (Canada. Technical Committee on Business Taxation) ; |v 96-7.

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100 1 McKenzie, Kenneth J. \$q (Kenneth James), \$d 1959-

245 14 The economic effects of dividend taxation / \$c Kenneth J. McKenzie, Aileen J. Thompson ; prepared for the Technical Committee on Business Taxation.

260 Ottawa : \$b The Committee, \$c 1996.

300 30 p. ; \$c 28 cm.

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490 1 Working paper ; \$v 96-7

500 Distributed by the Government of Canada Depository Services Program.

500 Issued also in French under the title: Les effets économiques de l'imposition des dividendes.

504 Includes bibliographical references (pages 25-28).

650 0 Dividends \$x Taxation.

650 0 Dividends \$x Taxation \$z Canada.

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651 7 Canada. \$2 fast \$0 (OCoLC)fst01204310

700 1 Thompson, Aileen J.

710 1 Canada. \$b Technical Committee on Business Taxation.

830 0 Working paper (Canada. Technical Committee on Business Taxation) ; \$v 96-7.

856 41 \$u <http://publications.gc.ca/site/eng/69206/publication.html>

856 42 \$u <http://dsp-psd.pwgsc.gc.ca/Collection/F21-4-96-7E.pdf>

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 090 QA76.9.D3 D3659 1995
 100 1 Date, C. J.
 245 13 An introduction to database systems /|cC.J. Date.
 250 6th ed.
 260 Reading, Mass. :|bAddison-Wesley Pub. Co.,|cc1995.
 263 9409
 300 xxiii, 839 p. :|bill. ;|c25 cm.
 490 1 The Systems programming series
 504 Includes bibliographical references and index.
 650 0 Database management.
 830 0 Addison-Wesley systems programming series.
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100 1 Date, C. J.

245 13 An introduction to database systems / \$c C.J. Date.

250 6th ed.

260 Reading, Mass. : \$b Addison-Wesley Pub. Co., \$c ©1995.

300 xxiii, 839 pages : \$b illustrations ; \$c 24 cm.

336 text \$b txt \$2 rdacontent

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653 0 Databases

776 08 \$i Online version: \$a Date, C.J. \$t Introduction to database systems. \$b 6th ed. \$d Reading, Mass. : Addison-Wesley Pub. Co., ©1995 \$w (OCoLC)604564556

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ATTACHMENT 9a

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- 040__ |a NSD |b eng |c NSD |d IUL |d NST |d GUA |d DLC |d GUA |d OCLCQ |d DLC |d OCLCQ |d GBVCP |d OCLCO |d OCLCQ |d OCLCF |d LIP |d XFH |d GILDS |d OCLCO
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- 222_0 |a Bank accounting & finance
- 24500 |a Bank accounting & finance.
- 24630 |a Bank accounting and finance
- 260__ |a Boston : |b John Colet Press, |c ©1987-
- 300__ |a volumes : |b illustrations ; |c 28 cm
- 310__ |a Bimonthly, |b 2002-
- 321__ |a Quarterly, |b 1987-2001
- 336__ |a text |b txt |2 rdacontent
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- 338__ |a volume |b nc |2 rdacarrier
- 3620_ |a Vol. 1, no. 1 (fall 1987)-
- 500__ |a Title from cover.
- 550__ |a Published: Chicago, Ill. : CCH Inc., <2004-2006>
- 588__ |a Latest issue consulted: Vol. 19, no. 2 (Feb./Mar. 2006).
- 590__ |a SERBIB/SERLOC merged record
- 650_0 |a Banks and banking |z United States |x Accounting |v Periodicals.
- 650_7 |a Betriebliche Finanzwirtschaft. |2 stw
- 650_7 |a Bilanzierung. |2 stw
- 650_7 |a Bilanzielle Bewertung. |2 stw
- 650_7 |a Portfolio-Management. |2 stw
- 650_7 |a Kostenrechnung. |2 stw
- 650_7 |a Kostenmanagement. |2 stw

- 650_7 |a Banks and banking |x Accounting. |2 fast |0 (OCoLC)fst00826868
- 651_7 |a United States. |2 fast |0 (OCoLC)fst01204155
- 655_7 |a Periodicals. |2 fast |0 (OCoLC)fst01411641
- 655_7 |a Periodicals. |2 lcgft
- 7102_ |a CCH Incorporated.
- 850__ |a DeU |a DLC |a GU |a InU |a KyU |a NN |a TxCM
- 85941 |3 Table of contents
available: |u <http://www.bankaccountingandfinance.com/RecentIssues.htm>
- 85320 |8 1 |a v. |b no. |u 4 |v r |i (year) |j (season) |w q
- 86341 |8 1.1 |a 1 |b 1 |i 1987 |j 23
- 85320 |8 2 |a v. |b no. |u 6 |v r |i (year) |j (month) |w b
- 86341 |8 2.1 |a 15 |b 1 |i 2002 |j 01
- 890__ |a Bank accounting & finance. |i 93-640841
- 906__ |a 7 |b cbc |c serials |d u |e ncip |f 19 |g n-oclcserc
- 920__ |a Keep 1
- 984__ |a srvf |d 2000-10-02
- 991__ |b c-GenColl |h HG1707 |i .B287 |w SERIALS
- 992__ |b SER |w SERLOC

ATTACHMENT 9b

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015 01579413X \$2 dnb

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019 220436602 \$a 990744553 \$a 994549974 \$a 1000708521

022 0 0894-3958 \$l 0894-3958 \$2 1

032 001866 \$b USPS

037 \$b John Colet Press, 31 St. James Ave., Boston, MA 02116

042 nsdp \$a pcc

043 n-us---

050 00 HG1707 \$b .B287

082 00 657/.8333/0097305 \$2 20

090 \$b

210 0 Bank account. finance

222 0 Bank accounting & finance

245 00 Bank accounting & finance.

246 30 Bank accounting and finance

260 Boston : \$b John Colet Press, \$c ©1987-

300 volumes : \$b illustrations ; \$c 28 cm

310 Bimonthly, \$b 2002-
 321 Quarterly, \$b 1987-2001
 336 text \$b txt \$2 rdacontent
 337 unmediated \$b n \$2 rdamedia
 338 volume \$b nc \$2 rdacarrier
 362 0 Vol. 1, no. 1 (fall 1987)-
 500 Title from cover.
 550 Published: Chicago, Ill. : CCH Inc., <2004-2006>
 588 Latest issue consulted: Vol. 19, no. 2 (Feb./Mar. 2006).
 650 0 Banks and banking \$z United States \$x Accounting \$v Periodicals.
 650 7 Betriebliche Finanzwirtschaft. \$2 stw
 650 7 Bilanzierung. \$2 stw
 650 7 Bilanzielle Bewertung. \$2 stw
 650 7 Portfolio-Management. \$2 stw
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 655 7 Periodicals. \$2 lcgft
 710 2 CCH Incorporated.
 850 DeU \$a DLC \$a GU \$a InU \$a KyU \$a NN \$a TxCM
 856 41 \$3 Table of contents available: \$u
<http://www.bankaccountingandfinance.com/RecentIssues.htm>
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 891 41 \$9 863 \$8 2.1 \$a 15 \$b 1 \$i 2002 \$j 01

ATTACHMENT 13a

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035 \$a(CONSER)sf 84005996

035 \$a(EXLCZ)99110978978551249

037 \$bComputerworld, 500 Old Connecticut Path, Box 9171,
Framingham, Mass. 01701-9171

042 \$apcc\$ansdp

050 00 \$aQA76\$b.C5816

082 04 \$a001.64

222 0 \$aComputerworld\$b(Framingham, Mass.)

245 00 \$aComputerworld.

246 \$aComputerWorld (Spanish Language)

246 17 \$aComputerworld campus edition

246 3_ \$aComputer world

260 \$a[Framingham, Mass., etc.,\$bComputerworld Inc., etc.]

300 \$av.\$bill.\$c31-40 cm.

310 \$aSemimonthly,\$bSept. 2009-

321 \$aWeekly (except last week in Dec. & first week in Jan.),
\$b<1967>-Aug. 2009

362 1_ \$aBegan in 1967.

500 \$aSpecial issues have also individual titles, e.g.,
Computerworld buyer's guide, Computerworld on communications,
Computerworld office automation, Computerworld focus.

515 \$aAdditional special issues also published.

555 \$aAnnual subject and author index issued separately with title:
Computerworld index, 1967-1983; Computerworld. Editorial index,
1984-

580 \$aHas also supplements: On communications, published 1984-86;

Computerworld client/server journal; Computerworld electronic commerce journal; and: Computerworld ROI.

580 \$aIssued also in a Special campus ed., Careers ed., and: Campus ed.

650 _0 \$aComputers\$vPeriodicals.

650 _0 \$aComputer industry\$vPeriodicals.

650 _0 \$aElectronic data processing\$vPeriodicals.

740 02 \$aComputerworld buyer's guide.

740 02 \$aComputerworld on communications.

740 02 \$aComputerworld office automation.

740 02 \$aComputerworld focus.

740 02 \$aComputerworld index.

740 02 \$aComputerworld.\$pEditorial index.

740 02 \$aComputerworld ROI

776 \$x0217-8362

853 20 \$81\$av.\$bno.\$u51\$vr\$i(year)\$j(month)\$k(day)\$w51

853 20 \$82\$av.\$bno.\$u24\$vr\$i(year)\$j(month)\$k(day)\$ws

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863 41 \$82.1\$a<44>\$b<1>\$i<2010>\$j<01>\$k<04>

906 \$aJOURNAL

ATTACHMENT 13b

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082 04	001.64										
222 _0	Computerworld ‡b (Framingham, Mass.)										
245 00	Computerworld.										
246 3_	Computer world										
260	[Framingham, Mass., etc., ‡b Computerworld Inc., etc.]										
300	v. ‡b ill. ‡c 31-40 cm.										
310	Semimonthly, ‡b Sept. 2009-										
321	Weekly (except last week in Dec. & first week in Jan.), ‡b <1967>-Aug. 2009										
362 1_	Began in 1967; ceased with v. 48, no. 11 (June 23, 2014).										

- [500](#) Special issues have also individual titles, e.g., Computerworld buyer's guide, Computerworld on communications, Computerworld office automation, Computerworld focus.
- [515](#) Additional special issues also published.
- [515](#) Vol. 23, no. 10 (Mar. 13, 1989) not published.
- [530](#) Also available on microform and online.
- [555](#) Annual subject and author index issued separately with title: Computerworld index, 1967-1983; Computerworld. Editorial index, 1984-
- [580](#) Has also supplements: On communications, published 1984-86; Computerworld client/server journal; Computerworld electronic commerce journal; and: Computerworld ROI.
- [580](#) Issued also in a Special campus ed., Careers ed., and: Campus ed.
- [650](#)_0 [Computers](#) ‡ v [Periodicals](#).
- [650](#)_0 [Computer industry](#) ‡ v [Periodicals](#).
- [650](#)_0 [Electronic data processing](#) ‡ v [Periodicals](#).
- [650](#)_7 Computer industry. ‡ 2 fast ‡ 0 (OCoLC)fst00872154
- [650](#)_7 Computers. ‡ 2 fast ‡ 0 (OCoLC)fst00872776
- [650](#)_7 Electronic data processing. ‡ 2 fast ‡ 0 (OCoLC)fst00906956
- [655](#)_7 Periodicals. ‡ 2 fast ‡ 0 (OCoLC)fst01411641
- [655](#)_7 [Periodicals](#). ‡ 2 lcgft
- [655](#)_4 Electronic journals.
- [740](#) 02 Computerworld buyer's guide.
- [740](#) 02 Computerworld on communications.
- [740](#) 02 Computerworld office automation.
- [740](#) 02 Computerworld focus.
- [740](#) 02 Computerworld index.
- [740](#) 02 Computerworld. ‡ p Editorial index.
- [740](#) 02 Computerworld ROI
- [770](#) 1_ ‡ t On communications ‡ x 8750-7854 ‡ w (DLC)
85648228 ‡ w ([OCoLC](#))[11447108](#) ‡ g Nov. 1984-86
- [770](#) 1_ ‡ t Computerworld client/server journal ‡ x 1077-5803 ‡ w (DLC)
95652803 ‡ w ([OCoLC](#))[29423264](#)

770 1_ [† t](#) Computerworld electronic commerce journal [† w](#) (DLC)sn
 98047959 [† w](#) ([OCOLC](#))[34880526](#)

770 1_ [† t](#) Computerworld ROI [† w](#) (DLC) 2001220069 [† w](#) ([OCOLC](#))[46630086](#)

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776 08 [† i](#) Online version: [† t](#) Computerworld [† w](#) ([OCOLC](#))[696040858](#)

785 04 [† t](#) Computerworld digital magazine [† w](#) (DLC)
 2016234964 [† w](#) ([OCOLC](#))[913619356](#)

856 41 [† u](#) <http://www.computerworld.com/>

891 20 [† 9](#) 853 [† 8](#) 1 [† a](#) v. [† b](#) no. [† u](#) 51 [† v](#) r [† i](#) (year) [† j](#) (month) [† k](#) (day) [† w](#) 51

891 41 [† 9](#) 863 [† 8](#) 1.1 [† a](#) <28> [† b](#) <20> [† i](#) <1994> [† j](#) <05> [† k](#) <16>

891 20 [† 9](#) 853 [† 8](#) 2 [† a](#) v. [† b](#) no. [† u](#) 24 [† v](#) r [† i](#) (year) [† j](#) (month) [† k](#) (day) [† w](#) s

891 41 [† 9](#) 863 [† 8](#) 2.1 [† a](#) <44> [† b](#) <1> [† i](#) <2010> [† j](#) <01> [† k](#) <04>

936 Unknown [† a](#) Vol. 43, no. 32 (Nov. 2, 2009)

ATTACHMENT 14a

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035 \$a(EXLCZ)99954921408301

042 \$ansdp\$apec

050 00 \$aT58.6\$b.C5

082 00 \$a658.4/038/05\$220

210 \$aCI O THE MAGAZINE FOR INFORMATION EXECUTIVES

210 0_ \$aCIO\$b(Framingham Mass.)

222 _0 \$aCIO\$b(Framingham, Mass.)

245 00 \$aCIO.

246 \$aCIO (Germany, German Language)

246 1_ \$iSome issues accompanied by:\$aCIO wrapsheet.

246 3_ \$aChief information officer

246 3_ \$aChief information officer magazine

246 3_ \$aCIO Web business

246 3_ \$aCIO enterprise

260 \$a[Framingham, Mass. :\$bCIO Pub.,\$cc1987-

300 \$av. :\$bill. (some col.) ;\$c28 cm.

310 \$aSemimonthly (monthly in July and Aug., combined issue,
Dec. 15/Jan. 1),\$b<1994- >

321 \$aBimonthly,\$bSept./Oct. 1987-<Nov./Dec. 1987>

321 \$aMonthly,\$b<Sept. 1988-Feb. 1989>

362 0_ \$aVol. 1, no. 1 (Sept./Oct. 1987)-

500 \$aTitle from cover.

515 \$aBeginning with v. 11 in Oct. 1997 each no. issued in 2
sections, with section 2 for the first of each month

called CIO Web business and for mid-month called CIO enterprise.

521 8_ \$a"The magazine for information executives."

525 \$aSpecial issues accompany some issues.

650 _0 \$aManagement information systems\$vPeriodicals.

650 _0 \$aExecutives\$vPeriodicals.

650 _0 \$aInformation resources management\$vPeriodicals.

770 0_ \$tWebMaster\$w(CKB)991042732676850\$w(DLC)\$w(OCOLC)\$x1088-5455

906 \$aJOURNAL

ATTACHMENT 14b

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042		nsdp ‡a pcc									
050	00	T58.6 ‡b .C5									
082	00	658.4/038/05 ‡2 20									
210	0_	CIO ‡b (Framingham Mass.)									
222	_0	CIO ‡b (Framingham, Mass.)									
245	00	CIO.									
246	1_	‡i Some issues accompanied by: ‡a CIO wrapsheet									
246	17	CIO magazine									
246	3_	Chief information officer									
246	3_	Chief information officer magazine									
246	3_	CIO Web business									
246	3_	CIO enterprise									

260		[Framingham, Mass.] : # b [CIO Pub.], # c [©1987-[2015]
300		29 volumes : # b illustrations (some color) ; # c 28 cm
310		Semimonthly (monthly in July and Aug., combined issue, Dec. 15/Jan. 1), # b <1994->
321		Bimonthly, # b Sept./Oct. 1987-<Nov./Dec. 1987>
321		Monthly, # b <Sept. 1988-Feb. 1989>
336		text # b txt # 2 rdacontent
337		unmediated # b n # 2 rdamedia
338		volume # b nc # 2 rdacarrier
362	0_	Vol. 1, no. 1 (Sept./Oct. 1987).
362	1_	Ceased in print with v. 29, no. 2 (November 1, 2015); continued online only.
500		Title from cover.
515		Beginning with v. 11 in Oct. 1997 each no. issued in 2 sections, with section 2 for the first of each month called CIO Web business and for mid-month called CIO enterprise.
521	8_	"The magazine for information executives."
525		Special issues accompany some issues.
530		Also issued on microfilm and online.
588		Latest issue consulted: Vol. 29, no. 2 (November 1, 2015).
650	_0	Management information systems # v Periodicals .
650	_0	Executives # v Periodicals .
650	_0	Information resources management # v Periodicals .
650	_7	Executives. # 2 fast # 0 (OCoLC)fst00917875
650	_7	Information resources management. # 2 fast # 0 (OCoLC)fst00972603
650	_7	Management information systems. # 2 fast # 0 (OCoLC)fst01007271
655	_7	Periodicals. # 2 fast # 0 (OCoLC)fst01411641
655	_7	Periodicals . # 2 lcgft
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850		AAP # a AzTeS # a DLC # a InU # a MCM # a MH- BA # a MdBj # a NcU # a PU-W # a WaU

856

41

‡ u <http://bibpurl.oclc.org/web/38330> ‡ u http://books.google.com/books?id=gwsAAAAAMBAJ&dq=cio&lr=&as_drrb_is=q&as_minm_is=0&as_miny_is=&as_maxm_is=0&as_maxy_is=&as_brr=0&as_pt=MAGAZINES

ATTACHMENT 15a

■ Ihre Aktion: suchen [und] (Suche über alles [ALL]) Einzelgeschäftskalkulation, Meldewesen / SAP AG



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2140 (SGX), 2144 (SXS)

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4010 (AED), 4012 (AEE)

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2135 (SGE)

3060 (ABL)

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0 64 B

0 66 B

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0 70 A

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2016-04-10

2016-12-29

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2140 (SGX), 2143 (GXI)	0	45	C	lsz:zr236/200
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4010 (AED), 4012 (AEE)	0	64	B	2010-07-10
2135 (SGE)	0	67	A	93
4005 (NWL), 4009 (NWE)	0	87	D	s1ub
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	0	27	A	1999-01-19 l02 12
2130 (SIG), 2133 (GSI)	0	41	C	4ja 7867
2130 (SIG), 2133 (GSI)	0	41	C	fhz:zr 736/200
2140 (SGX), 2143 (GXI)	0	45	C	4ja7867
2140 (SGX), 2143 (GXI)	0	45	C	fhz:zr736/200
4015 (SXN)	0	63	A	1999-01-19
4010 (AED), 4012 (AEE)	0	64	B	2010-07-10
2135 (SGE)	0	67	A	93
3061 (EXK)	0	71	A	1
3061 (EXK)	0	71	A	2
3061 (EXK)	0	71	A	ex
3061 (EXK)	0	71	A	freihand
3061 (EXK)	0	71	A	im
3061 (EXK)	0	71	A	in
3061 (EXK)	0	71	A	lesesaal
3061 (EXK)	0	71	A	zentrale
4005 (NWL), 4009 (NWE)	0	87	D	s1ub
8000 (EPN)	0	25	Y	332007448
	0	27	A	1998-12-10 l01 11
2130 (SIG), 2133 (GSI)	0	41	C	w 1/5
2140 (SGX), 2143 (GXI)	0	45	C	w1/5
4015 (SXN)	0	63	A	1998-12-10
4010 (AED), 4012 (AEE)	0	64	B	1998-12-10
2135 (SGE)	0	67	A	93/104
2135 (SGE)	0	67	A	93/xxx
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4 (TIT), 2022 (TIZ)	0	1	C	funktionen
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4 (TIT), 2022 (TIZ)	0	1	C	november
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1016 (ALL)	0	20	D	walldorf
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12 (PPN), 2110 (APP)	0	24	X	067542522
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4060 (BBG)	0	34	A	Aau
4010 (AED), 4012 (AEE)	0	64	A	2016-05-27
4011 (SEN)	0	65	A	1998-08-06
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29 (LSW), 1015 (GPK), 2072 (SW), 3000 (RVK), 3001 (RVU), 3002 (RVN), 3004 (RVX), 3044 (LSR)	0	17	Z	rel 20115287
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4015 (SXN)	0	63	A	2016-04-10
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2160 (LNR), 2162 (LLN)	0	66	B	22175956970002561
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3060 (ABL)	0	70	A	alma
4005 (NWL), 4009 (NWE)	0	87	D	maub
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	0	27	A	1999-01-19 l01 11
2130 (SIG), 2133 (GSI)	0	41	C	lsz:zr 236/200
4015 (SXN)	0	63	A	1999-01-19
4010 (AED), 4012 (AEE)	0	64	B	2010-07-10
2135 (SGE)	0	67	A	93
4005 (NWL), 4009 (NWE)	0	87	D	s1ub
8000 (EPN)	0	25	Y	332007464
	0	27	A	1999-01-19 l02 12
2130 (SIG), 2133 (GSI)	0	41	C	4ja 7867
2130 (SIG), 2133 (GSI)	0	41	C	fhz:zr 736/200
4015 (SXN)	0	63	A	1999-01-19
4010 (AED), 4012 (AEE)	0	64	B	2010-07-10
2135 (SGE)	0	67	A	93
3061 (EXK)	0	71	A	1
3061 (EXK)	0	71	A	2
3061 (EXK)	0	71	A	ex
3061 (EXK)	0	71	A	freihand
3061 (EXK)	0	71	A	im
3061 (EXK)	0	71	A	in
3061 (EXK)	0	71	A	lesesaal
3061 (EXK)	0	71	A	zentrale
4005 (NWL), 4009 (NWE)	0	87	D	s1ub
8000 (EPN)	0	25	Y	332007448
	0	27	A	1998-12-10 l01 11
2130 (SIG), 2133 (GSI)	0	41	C	w 1/5
4015 (SXN)	0	63	A	1998-12-10
4010 (AED), 4012 (AEE)	0	64	B	1998-12-10
2135 (SGE)	0	67	A	93/104
2135 (SGE)	0	67	A	93/xxx
3060 (ABL)	0	70	A	z0
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IKT ILN Index Key Phrase

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9002	REG	bitmap	bitmap	0x8028
9004	TAA	upshift	ascii	GER
9005	LAN	upshift	ascii	
9008	SUP	upshift	ascii	1
9030	BIB	number	number	16896

IKT Mnm Access Type Value

■ Ihre Aktion: suchen [und] (Suche über alles [ALL]) Einzelgeschäftskalkulation, Meldewesen / SAP AG



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 001B \$0BSZ:27-05-16\$t09:50:10.000
 001D \$09999:07-12-05
 001U \$0utf8
 001X \$00
 002@ \$0Aau
 002C \$aText\$btxt
 002D \$aohne Hilfsmittel zu benutzen\$bn
 002E \$aBand\$bnc
 003@ \$0067542522
 006X \$2OCLC\$0247907384
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 013G \$adruck
 016B \$aimda
 021A \$aEinzelgeschäftskalkulation, Meldewesen\$hSAP AG
 029F \$9194549208\$8SAP AG
 032@ \$aNovember 1996
 033A \$pWalldorf\$nSAP AG
 034D \$aGetr. Zählung
 034M \$agraph. Darst.
 036G \$aSystem R/3
 036G \$aFunktionen im Detail - IS-B
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 Unternehmensforschung/Wirtschaftsinformatik. Datenverarbeitung./Wirtschaftsinformatik. Datenverarbeitung. Allgemeines
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 045R \$9200945718\$8ST 610 =Informatik/Monografien/Einzelne Anwendungen der Datenverarbeitung/Datenverarbeitung in
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ILN Index Key Phrase

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0 41 C

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0 64 B

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2016-04-10

2016-12-29

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8000 (EPN)	0	25	Y	332007456
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2140 (SGX), 2143 (GXI)	0	45	C	lsz:zr236/200
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4010 (AED), 4012 (AEE)	0	64	B	2010-07-10
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4005 (NWL), 4009 (NWE)	0	87	D	s1ub
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2135 (SGE)	0	67	A	93
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3061 (EXK)	0	71	A	freihand
3061 (EXK)	0	71	A	im
3061 (EXK)	0	71	A	in
3061 (EXK)	0	71	A	lesesaal
3061 (EXK)	0	71	A	zentrale
4005 (NWL), 4009 (NWE)	0	87	D	s1ub
8000 (EPN)	0	25	Y	332007448
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2140 (SGX), 2143 (GXI)	0	45	C	w1/5
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3061 (EXK)	0	71	A	4919939
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4 (TIT), 2022 (TIZ)	0	1	C	1996
4 (TIT), 2022 (TIZ)	0	1	C	3
4 (TIT), 2022 (TIZ)	0	1	C	b
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4 (TIT), 2021 (TIH)	0	1	B	einzelgeschäfts kalkulatio
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4 (TIT), 2022 (TIZ)	0	1	C	isb
4 (TIT), 2021 (TIH)	0	1	B	meldewesen
4 (TIT), 2022 (TIZ)	0	1	C	november
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4 (TIT), 2022 (TIZ)	0	1	C	system
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2260 (TMB)	0	5	A	b
2260 (TMB)	0	5	A	detail
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1016 (ALL)	0	20	D	walldorf
2100 (VER), 2101 (VLG)	0	22	B	ag
2100 (VER), 2101 (VLG)	0	22	B	sap

59 (VLO), 2100 (VER)	0	22	A	walldorf
12 (PPN), 2110 (APP)	0	24	X	067542522
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4010 (AED), 4012 (AEE)	0	64	A	2016-05-27
4011 (SEN)	0	65	A	1998-08-06
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3061 (EXK)	0	71	A	2
3061 (EXK)	0	71	A	ex
3061 (EXK)	0	71	A	freihand
3061 (EXK)	0	71	A	im
3061 (EXK)	0	71	A	in
3061 (EXK)	0	71	A	lesesaal
3061 (EXK)	0	71	A	zentrale
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IKT ILN Index Key Phrase

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9001	MAT	upshift	ascii	B
9002	REG	bitmap	bitmap	0x8028
9004	TAA	upshift	ascii	GER
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9030	BIB	number	number	16896

IKT Mnm Access Type Value

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084 QH 500 \$2 rvk

084 QK 330 \$2 rvk

084 ST 610 \$2 rvk

090 \$b

245 00 System R/3 : \$b Einzelgeschäftskalkulation / \$c Meldewesen.

246 3 Einzelgeschäftskalkulation / Meldewesen

260 Walldorf : \$b SAP AG, \$c 1996.

300 Getr. Zählung : \$b Illustrationen, Diagramme.

336 Text \$b txt \$2 rdacontent/ger

337 ohne Hilfsmittel zu benutzen \$b n \$2 rdamedia/ger

490 1 Funktionen im Detail \$a IS-B

500 Nebent.: Einzelgeschäftskalkulation / Meldewesen.

650 07 Bank. \$2 swd

650 07 Kalkulation. \$2 swd

650 07 SAP R/3. \$2 swd

653 0 SAP R/3 ; SWD-ID: 43434393

830 0 Funktionen im Detail. \$p IS-B.

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System R/3, Einzelgeschäftskalkulation, Meldewesen

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[System R/3 : Einzelgeschäftskalkulation](#)

Print book

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	☐ 3. 915719384 3 Standardsoftware für Banken. Print book Language: German Publisher: Walldorf : SAP AG, 1996.
	☐ 4. 258626467 4 System R/3 : Einzelgeschäftskalkulation Print book Language: German Publisher: Walldorf : SAP AG, 1996.
	☐ 5. 633233033 5 System R/3, Standardsoftware für Banken by SAP-Aktiengesellschaft Systeme, Anwendungen, Produkte in der Datenverarbeitung (Walldorf, Heidelberg); Print book View all formats and languages » Language: German Publisher: Walldorf, 1996. View all editions »
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	☐ 7. 5878280052 7 Mobil SA starts laying down IT infrastructure; Standard's Internet banking product built on Solaris; New IT gear for Foschini : SA news : news by C Carrol



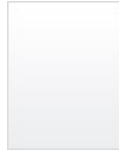
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Language: English

Publication: Computing SA, v18 n4 (Feb 2 1998):4



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[System R/3 : Risikoanalyse ; Asset Liability Management](#)

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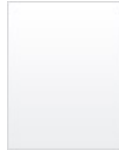
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Publisher: Walldorf SAP AG 1997



9.



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[SAP Banking : Kreditlimitsystem](#)

by SAP-Aktiengesellschaft Systeme, Anwendungen, Produkte in der Datenverarbeitung (Walldorf, Heidelberg)

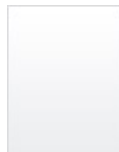


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10.



634916372

10

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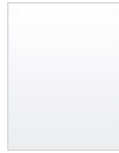
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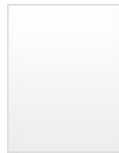
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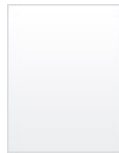
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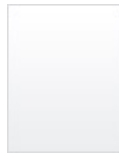
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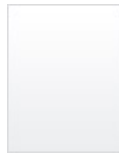
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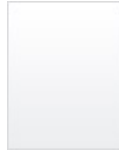
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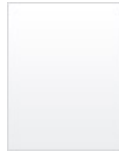
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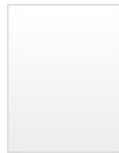
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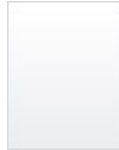
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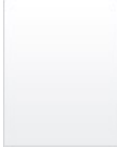
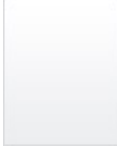
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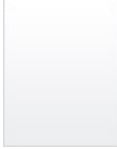
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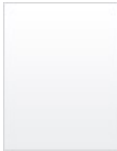
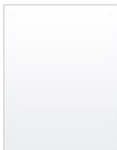
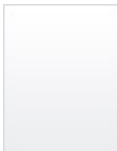
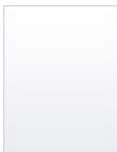
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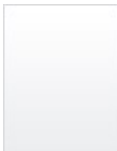
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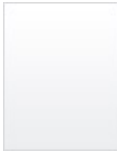
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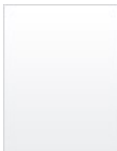
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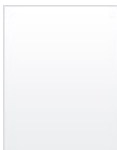
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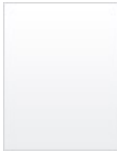
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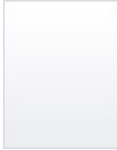
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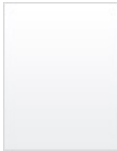
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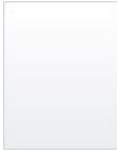
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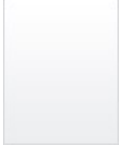
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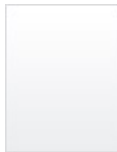
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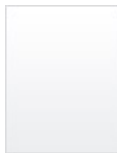
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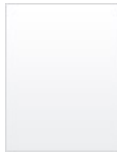
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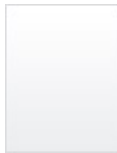
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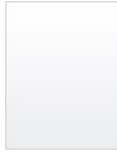
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