
Integrated Electronic Document Strategies

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THIC Meeting, DoubleTree Hotel at Tysons Corner

Fairfax VA 22043

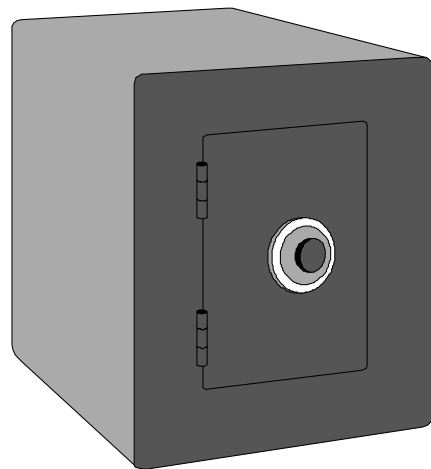
April 23, 1997

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Electronic Record Storage... Why?

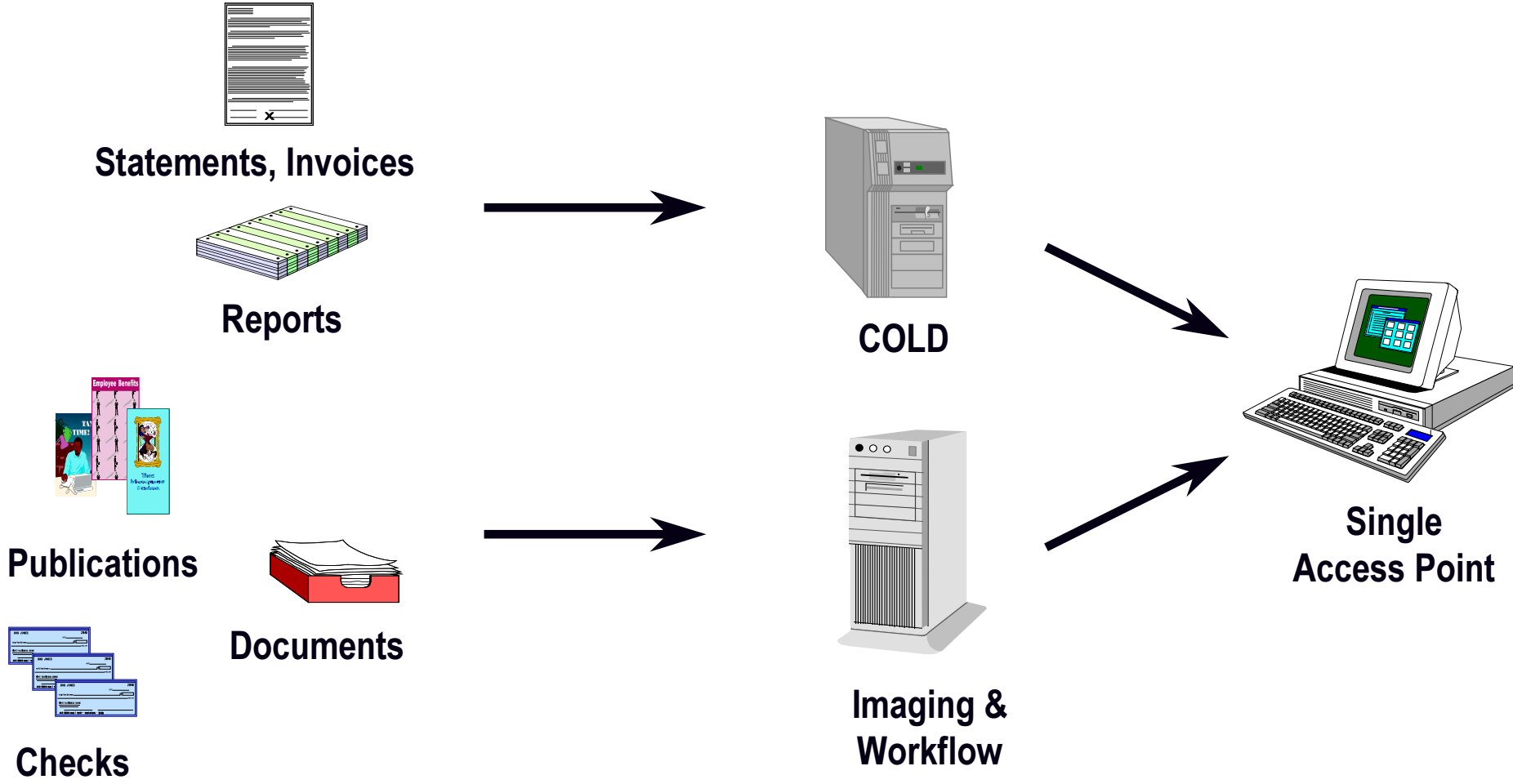
- **Customer Service**
- **Regulatory Compliance**
- **Litigation - Risk Avoidance**



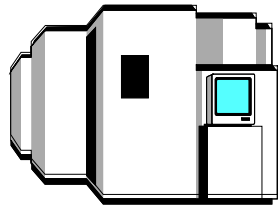
Document Types

- **Computer Output**
- **Scanned Images**
- **Published Documents**
- **Check Images**

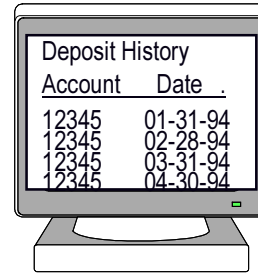
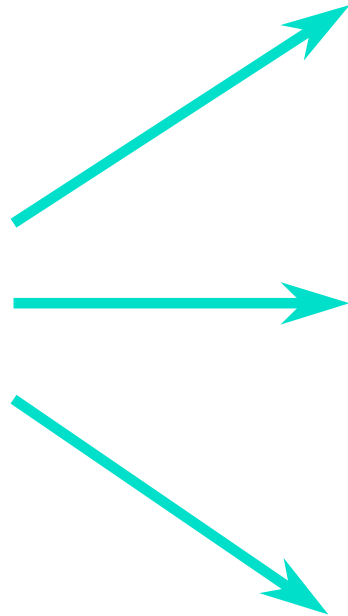
Integrated Solution



Information Access Alternatives

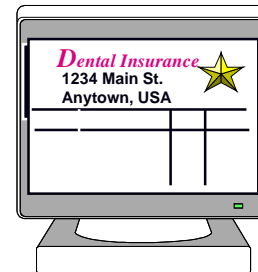


Host System



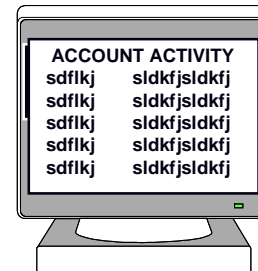
On-line System

- Record display
- Indexing
- No form overlay



COLD System

- Page display
- Indexing
- Form overlay



Report Distribution System

- Page display
- No indexing
- No form overlay

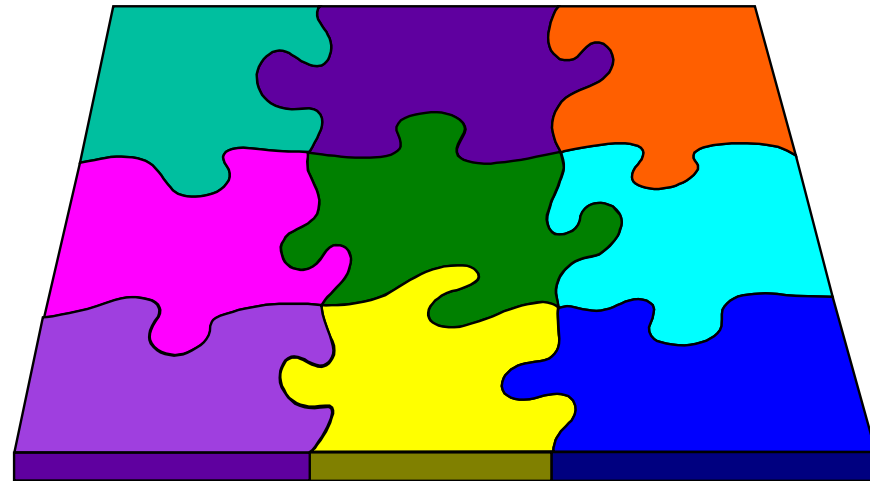
Why Documents?

- **Exact replica vs. record view**
- **Single screen presentation vs. multiple screens**
- **Instant reprints vs. batch reruns**
- **Internet access**

*What technology is
available
to solve the problem?*

System Architectures

- PC Local Area Network
- Client/Server
- Mainframe



Enterprise-Wide Production System

■ Recording Speed

- Over 250,000 pages/hour
(Extract, index, compress, write)**

■ Retrieval

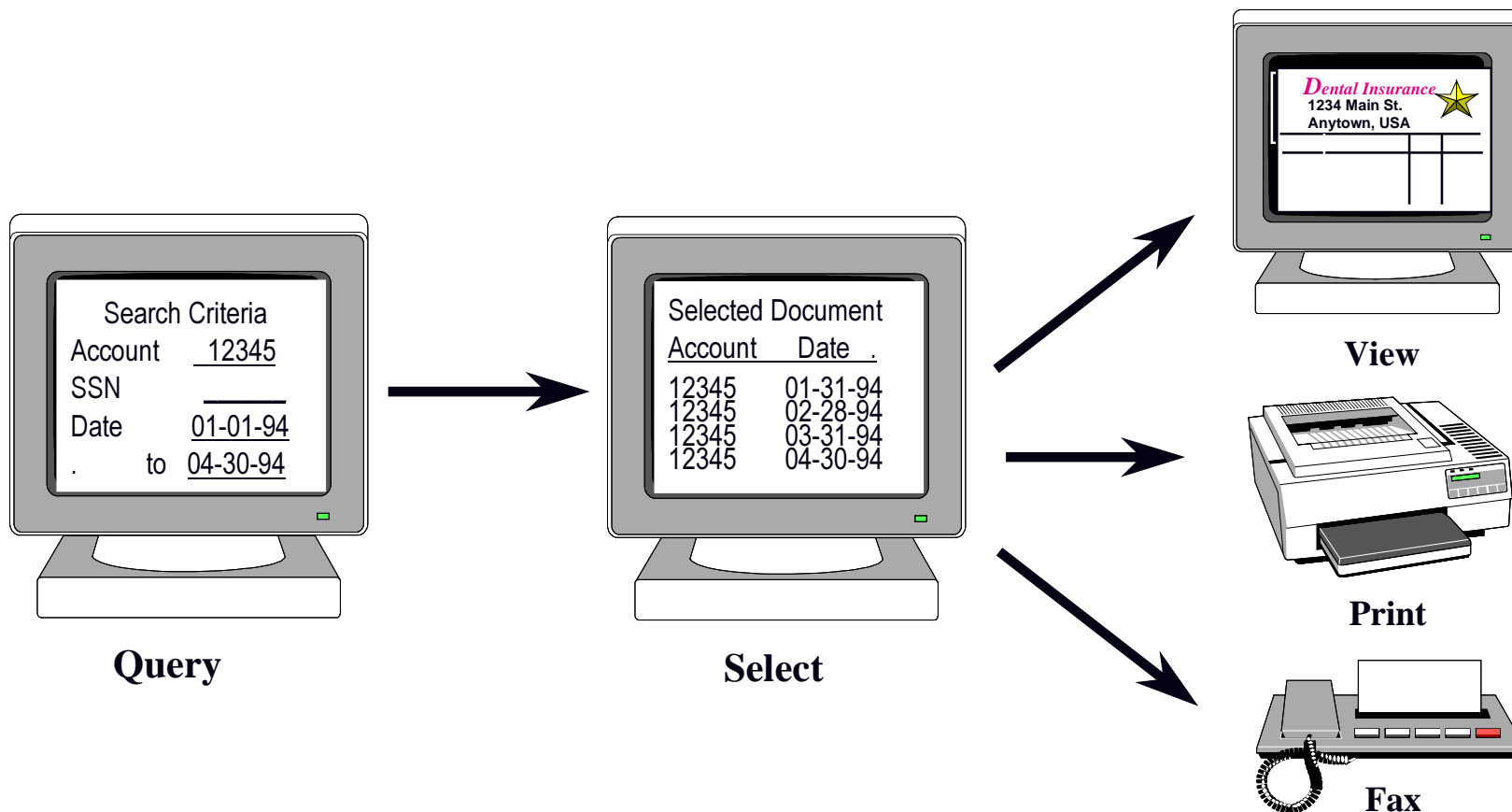
- Over 50 concurrent users**
- Page display in less than 10 seconds**

■ Connectivity

- Multiple servers (not co-located)**
- Any network**

Power of Document Indexing

Single Search for Multiple Documents

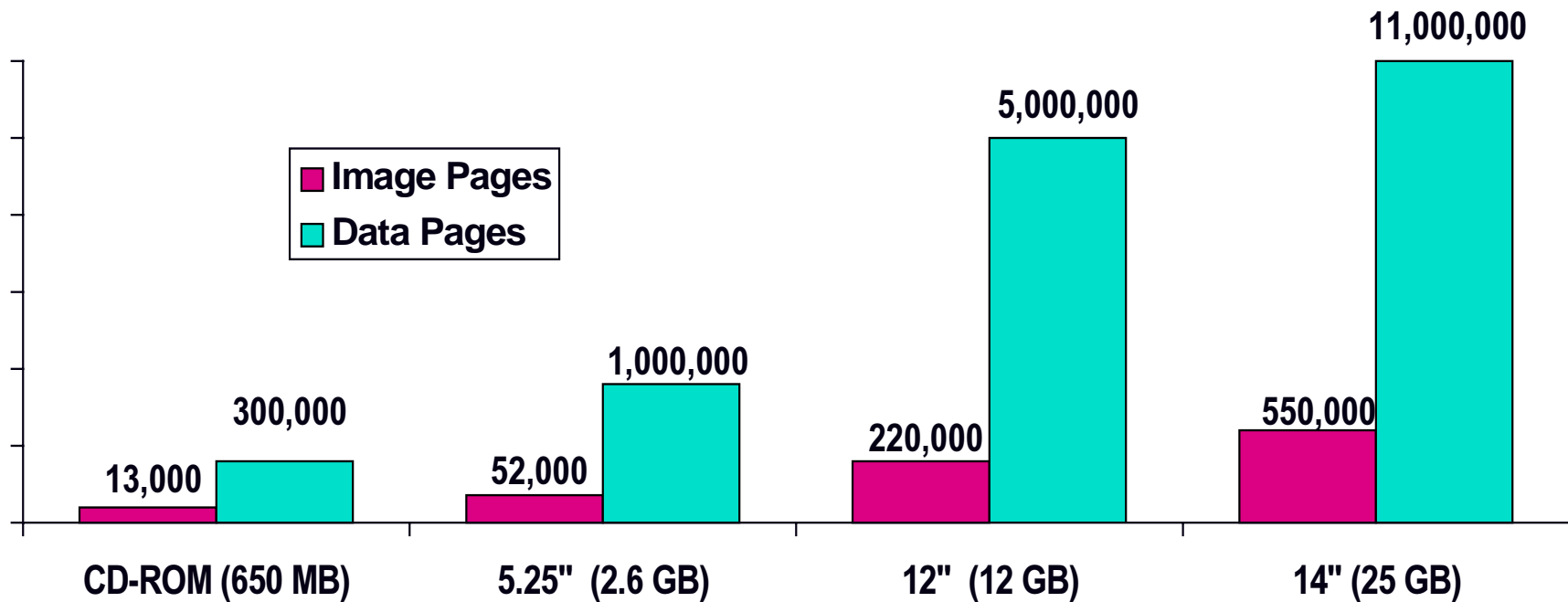


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Image vs. Data

Storage Capacity per Optical Disk

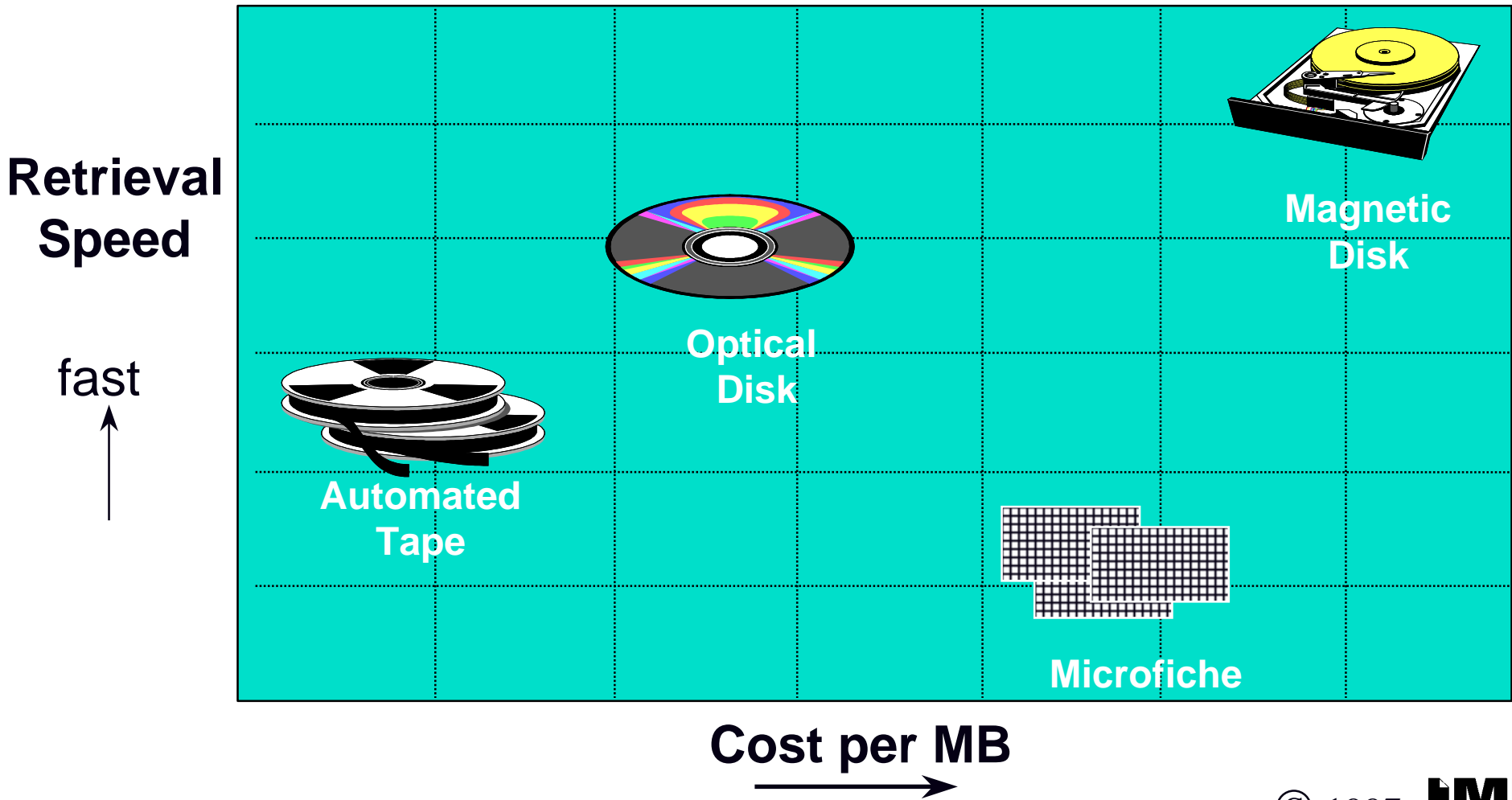


Compressed data page is approximately 2,000 bytes Compressed image page is approximately 50,000 bytes

Integrated Electronic Documents

Features

Media Options




Storage Price per MB Year 2000

IBM Mainframe	17 cents
Unix / NT	5 to 7 cents
Optical DVD-R	1 to 2 cents (including jukebox)
1/2" magnetic tape	2 to 3 cents (including silo)
1/2" helical scan tape	3/4 cent (including silo)

All Points Addressable Data

IBM AFP and Xerox Metacode

- Multiple Fonts - A, A, A
- Multiple Point Sizes - A, A, A
- Variable Line Spacing
- Image Objects
 - Logos
 - Signatures

Dental Insurance 1234 Main St. Anytown, USA				
John Smith 456 Any St. Anytown, USA				Acct: 123456
Date	Transaction	Amt.	Bal.	
01-03-94	Root Canal	\$2,500	\$2,500	
03-04-94	Cleaning	\$ 100	\$2,600	
03-31-94	Payment	(\$2,600)	\$ 0	

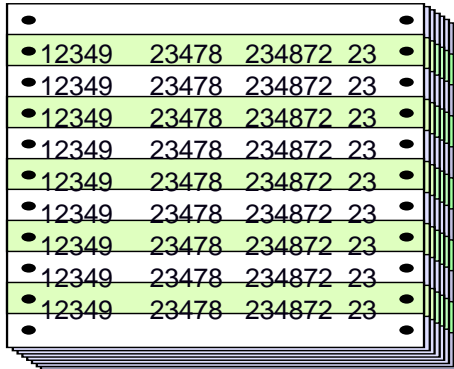
All Points Addressable Formats

- **AFP (IBM)**
- **Metacode/DJDE (Xerox)**
- **SGML**
- **PDF (Adobe)**
- **Postscript (Adobe)**
- **HP-PCL (Hewlett-Packard)**

Analysis/Ad-hoc Reporting Benefits

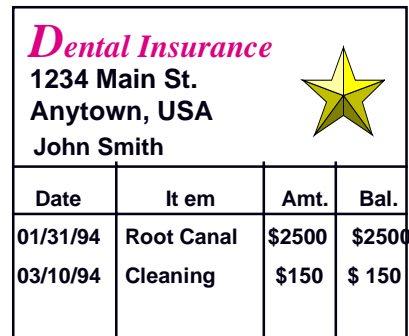
- **Analyze historical database information**
- **Retrieve specific information**
- **Format output to user requirements**
 - **New report**
 - **Other applications**

The Document is the Database



•	•
•12349 23478 234872 23 •	•
•12349 23478 234872 23 •	•
•12349 23478 234872 23 •	•
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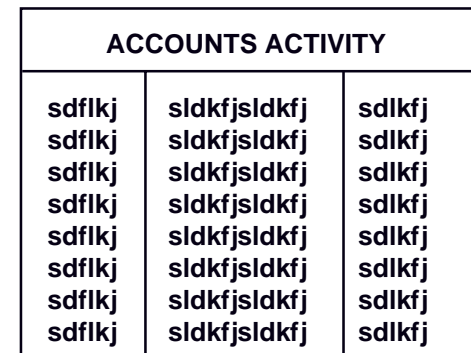
Reports



Dental Insurance
1234 Main St.
Anytown, USA
John Smith

Date	Item	Amt.	Bal.
01/31/94	Root Canal	\$2500	\$2500
03/10/94	Cleaning	\$150	\$ 150

Statements /
Invoices



ACCOUNTS ACTIVITY		
sdfkj	sldkfjsldkfj	sdlkfj
sdfkj	sldkfjsldkfj	sdlkfj
sdfkj	sldkfjsldkfj	sdlkfj
sdfkj	sldkfjsldkfj	sdlkfj
sdfkj	sldkfjsldkfj	sdlkfj
sdfkj	sldkfjsldkfj	sdlkfj
sdfkj	sldkfjsldkfj	sdlkfj
sdfkj	sldkfjsldkfj	sdlkfj
sdfkj	sldkfjsldkfj	sdlkfj

Transaction
Registers

Print Copy Find Next Sync
PrestigeFixed 9
Sum Drill Chart Prev Next Help

Report

MAYNARD CORPORATION
ACTIVE EMPLOYEE REPORT

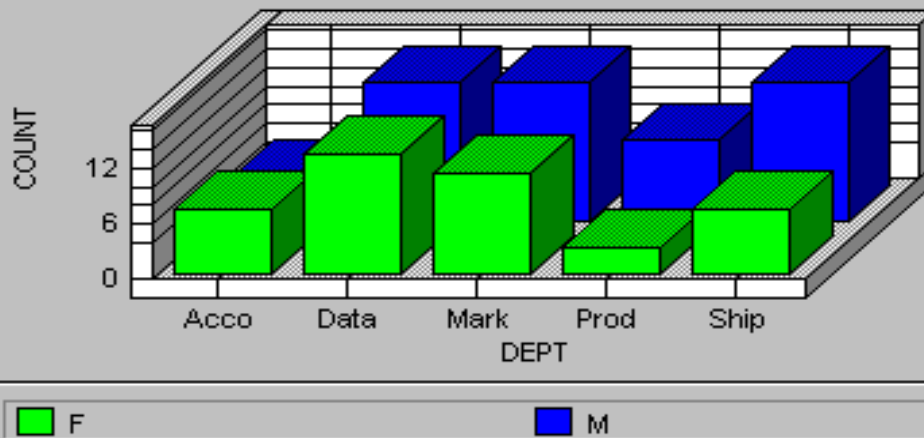
PAGE

LASTNAME	STREET	CITY	STATE	ZIP	HIREDATE	SEX	DEPT	SALARY
McPherson	410 Market St	Boston	MA	02115	06/14/91	M	Data Processing	27800.00
Bender	624 Holiday Hill	Burlington	MA	01803	11/20/93	M	Shipping	37400.00
Ungermann	1615 Del Terrace	Concord	MA	01742	05/17/84	M	Marketing	23500.00
Finnley	207 Anglewood Rd	Littleton	MA	01460	05/25/80	M	Shipping	29500.00
Daley	5 Dixwell Blvd	Lexington	MA	02173	01/30/82	M	Accounting	29600.00
Stancowicz	91 Belmont Dr	Maynard	MA	01754	10/11/86	F	Accounting	32600.00
Tracy	23 Mountain View	Maynard	MA	01754	12/12/86	M	Data Processing	28800.00
Bradford	888 Centre Park Rd	Brookline	MA	02146	07/24/94	M	Marketing	52300.00
Williams	9 Lawrence St	Burlington	MA	01803	03/26/89	M	Data Processing	42200.00

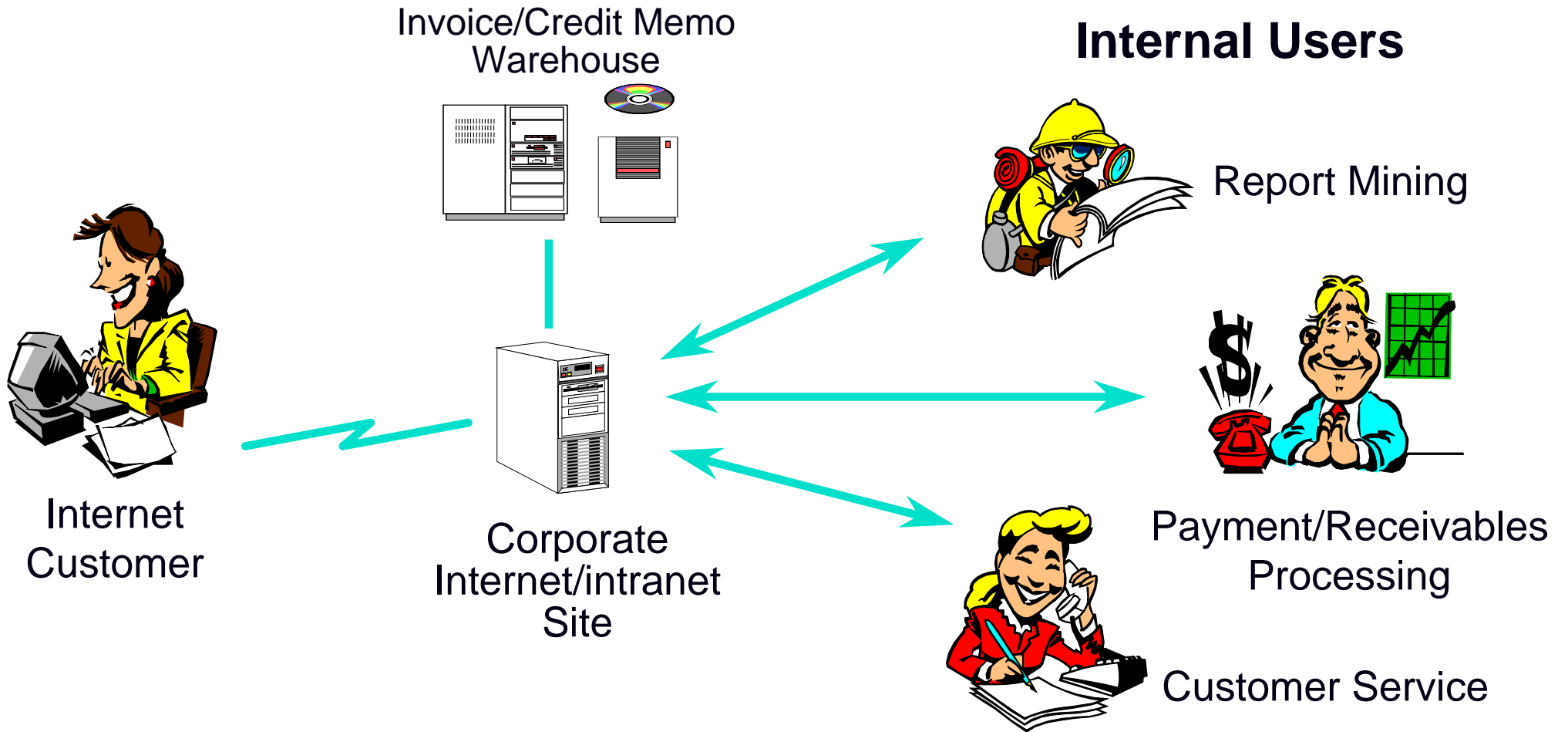
Summary - COUNT2

	DEPT	SEX	COUNT
1	Accounting	F	7
2		M	5
3			12
4			
5	Data Processing	F	13
6		M	15
7			28
8			
9	Marketing	F	11
10		M	15
11			26

Headcount by Department



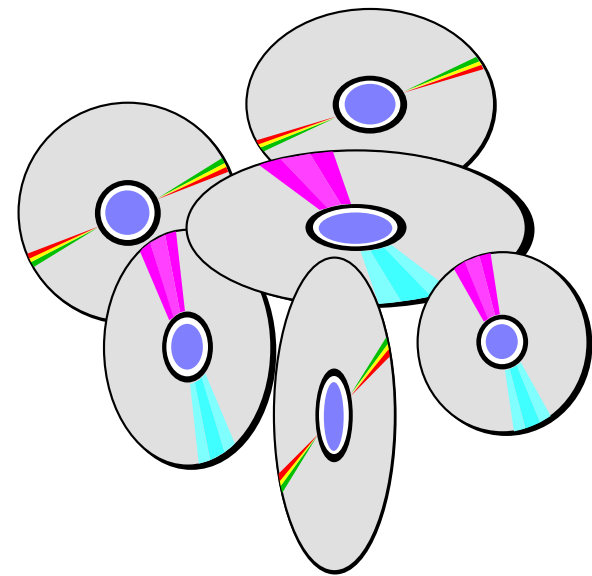
Internet COLD Invoice Access



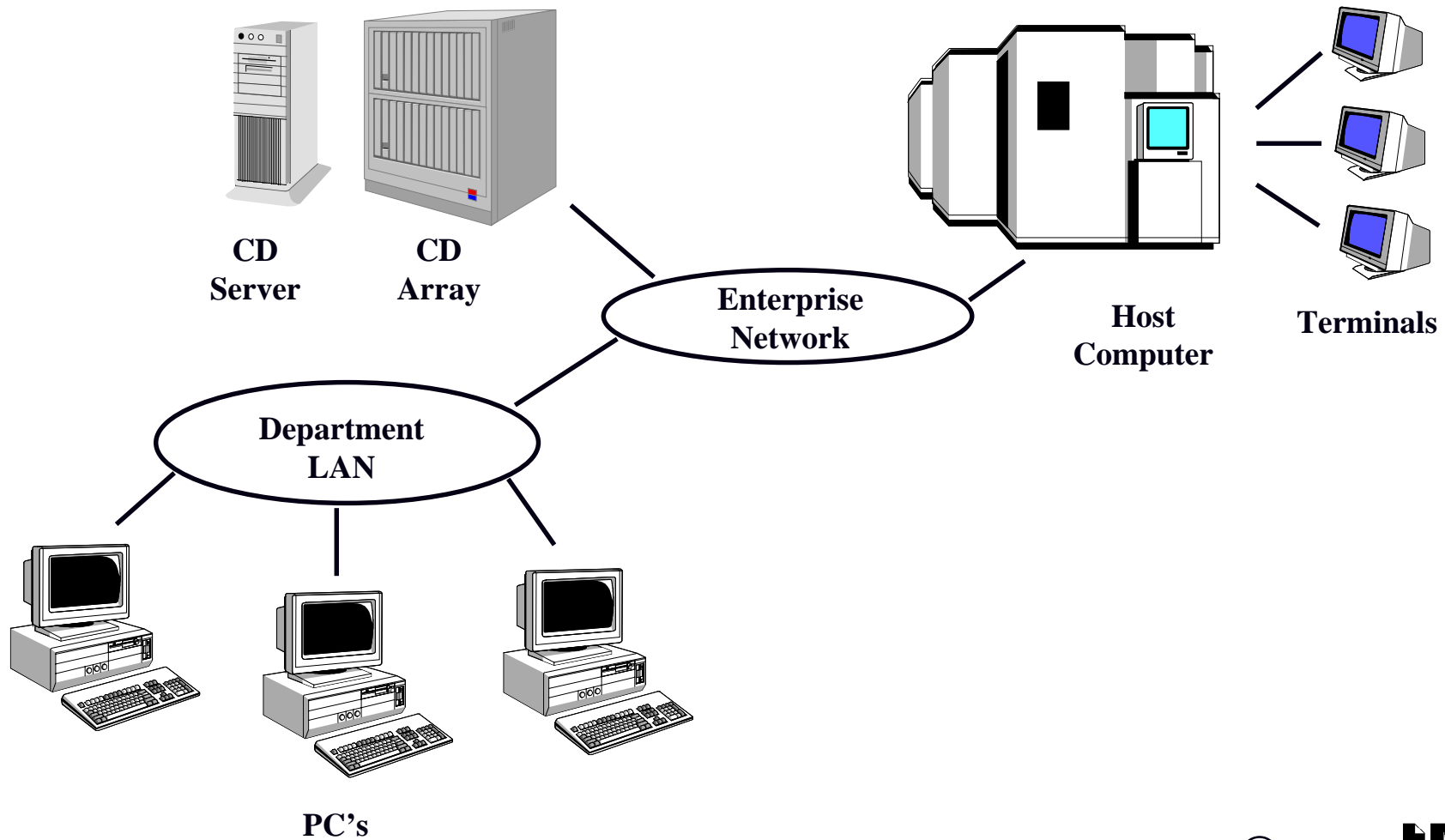
CD-Recordable Storage

■ Direct write to CD optical disks

- Cost effective
- Interchangable industry-standard
- Fast retrieval

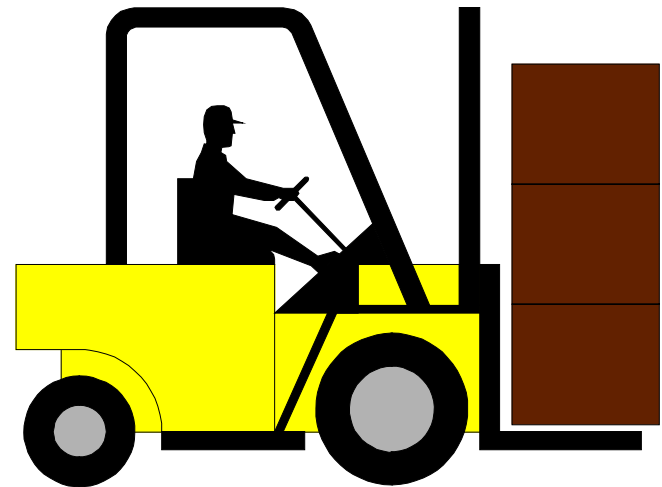


Real-time CD Array

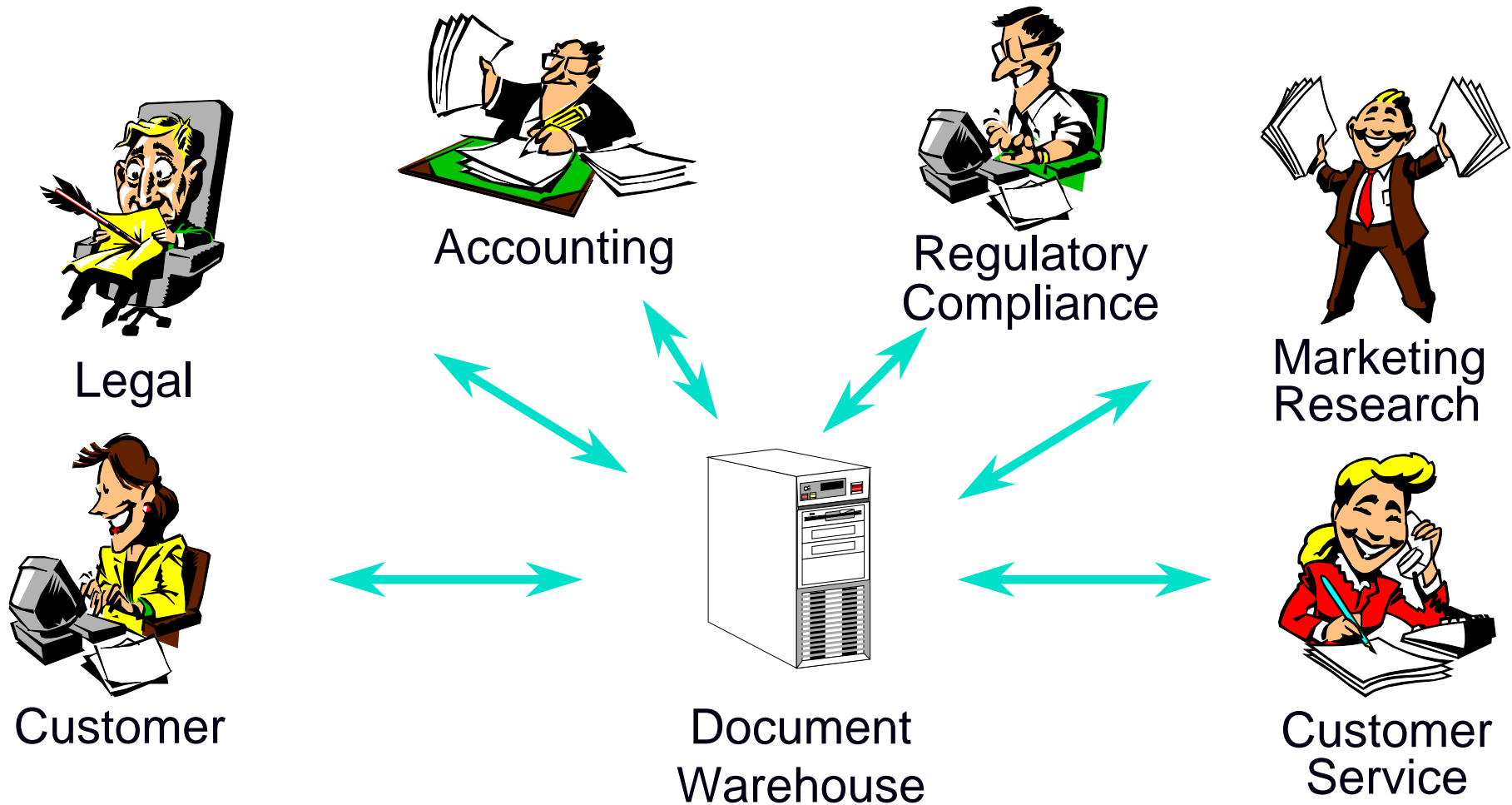


Object Server

- **Multiple data types stored on a single server**
 - **Text**
 - **Image**
 - **Data**
 - **Voice**
 - **Video**



The Document Is the Database



More Information...

Contact:

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IMERGE Consulting

www.imergeconsult.com