Jerry Jones

Worldwide Content Management Sales Support

Leveraging Information

IBM Enterprise Information Portal
relevant information in context

Agenda

- Review of federation common terminology
- Federation data model schema mapping
- Configuration issues
  - ► Components
  - ► Configuration examples
- DataStores (connectors)

IBM Enterprise Information Portal- at a glance

- Federated access to wide ranging information sources
  - ► single point of access and integrated results
  - ► structured and unstructured information
    - – relational databases
      - • DB2, Oracle, Sybase, Informix, MS SQL Server...
    - – content managers
      - • Notes/Domino, EDMSuite and DB2 Digital Library sources
      - • Documentum, SAP, file systems
  - ► web search engines
- Information in context
  - ► personalization filters and security
  - ► relevance ranking
- Fast, easy development via comprehensive API set
  - ► portal application development in days not months
  - ► comprehensive set of objects and services
    - – Visual and non-visual components, class libraries
  - ► multiple languages / programming models
    - – Java, Java Beans, C++, ActiveX, LSX...
  - ► visual development with popular tools - e.g. VisualAge for Java...
- Generally available November 30, 1999, world-wide
  - ► Start today and grow
  - ► Windows/NT
  - ► simple pricing
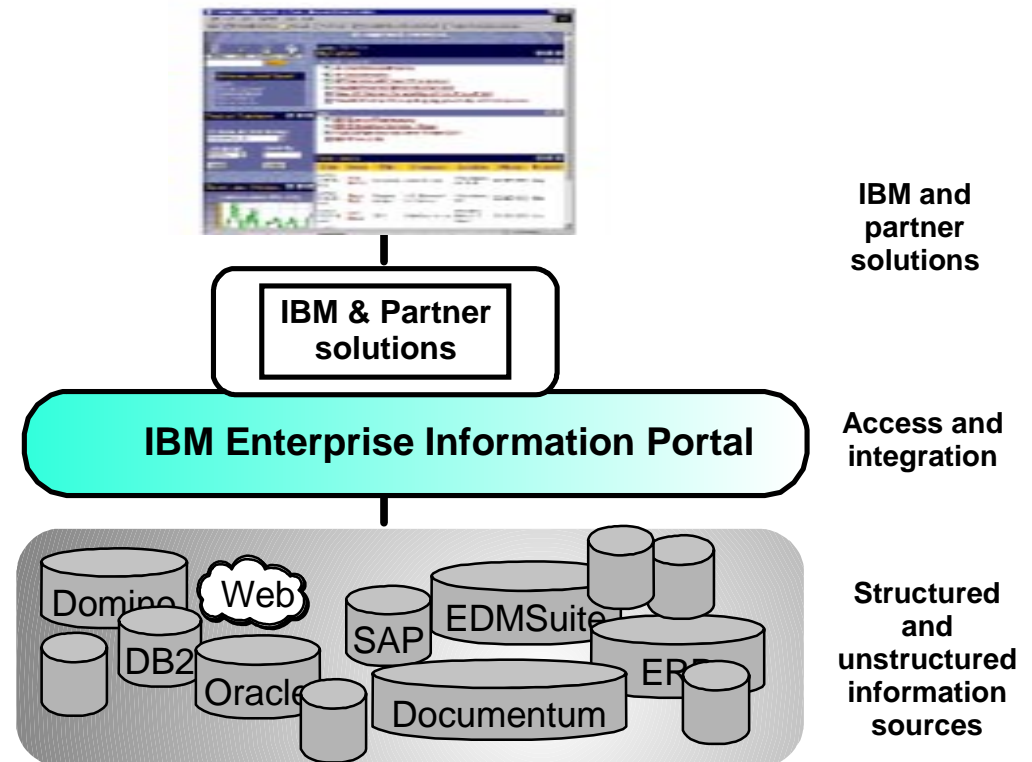   - – unlimited users and information sources
    - – $100,000 US List

IBM EIP partner support

- Provides customers with end-to-end solutions and choice of industry-leading products
- Supports partners with education, technical support and marketing programs
- Including, today:
  - ► AdWare
  - ► Ancept
  - ► Adplex
  - ► BPS/Savoir
  - ► Brio
  - ► Citrix
  - ► Data Channel
  - ► Epicentric
  - ► Hyperion
  - ► ICO
  - ► IKON
  - ► Intel
  - ► Plumtree
  - ► Provider Solutions
  - ► Syscom
  - ► VIP

IBM and partner solutions

IBM & Partner solutions

IBM Enterprise Information Portal

Access and integration

Domino Web SAP EDMSuite DB2 Oracle Documentum ERP

Structured and unstructured information sources

More than a launch pad...

Integrated access to information, applications and people in context

More than a launch pad...

e-business

Access / search
delivering information in context regardless of type, location, platform

Expertise / profiling
driving the user's experience based on a set of organizational priorities and personal behavior

Categorization
cataloging information assets and understanding relationships via metadata

Application integration
integrating information with process

Security / management
protecting assets and simplifing the user's experience with all the underlying technology

Collaboration
the ability to connect users of a similar interest and work together

Personalization
customizing the user's experience based on their preferences

Development
providing tools, interfaces and componants for rapid development

IBM

IBM Enterprise Information Portal

	IBM	Oracle	Microsoft
Product deliveries	●	○	○
Federated results	●	◐	◐
Information in context	◐	○	○
Content management	●	○	◐
Collaboration	●	○	◐
Expertise	◐	○	○
Portal development support	◐	◐	◐
Application integration	●	○	○

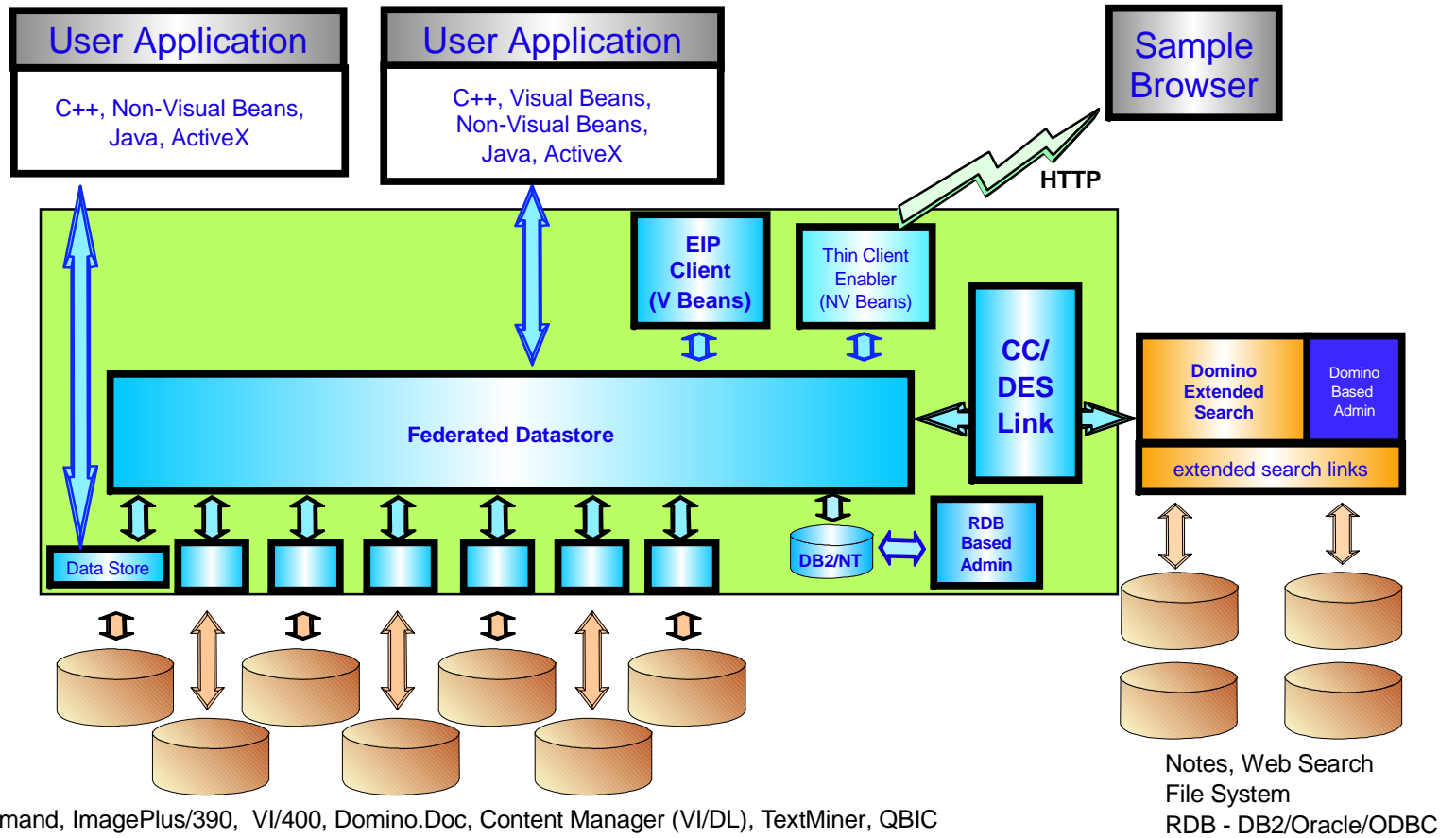● Rich capability from vendor

○ Some or no capability from vendor

Enterprise Information Portal

User Application

C++, Non-Visual Beans,
Java, ActiveX

User Application

C++, Visual Beans,
Non-Visual Beans,
Java, ActiveX

Sample
Browser

HTTP

EIP
Client
(V Beans)

Thin Client
Enabler
(NV Beans)

CC/
DES
Link

Domino
Extended
Search

Domino
Based
Admin

extended search links

Federated Datastore

Data Store

DB2/NT

RDB
Based
Admin

OnDemand, ImagePlus/390, VI/400, Domino.Doc, Content Manager (VI/DL), TextMiner, QBIC

Notes, Web Search
File System
RDB - DB2/Oracle/ODBC

Federated Search Common Terminology

Datastore Type	Data Source	Entity	Attribute	View
DB2	database	table	column	view
DL/VI or VI/400	Library Server	index-class	attribute key attribute	index-class view
ImagePlus / 390	IP/390 Server	entity	attribute	N/A
OnDemand	OnDemand server	application group search template	field criteria	N/A
Domino.Doc	Domino Server	library cabinet binder	field	N/A
Domino Extended Search	DES Server	database	field	N/A
Federated Datastore	mapping server	federated entity	federated attribute	search template*

Data Model Independent Schema Mapping

Permits a simple mapping of dissimilar document information in multiple different servers.

What the servers have in their data models

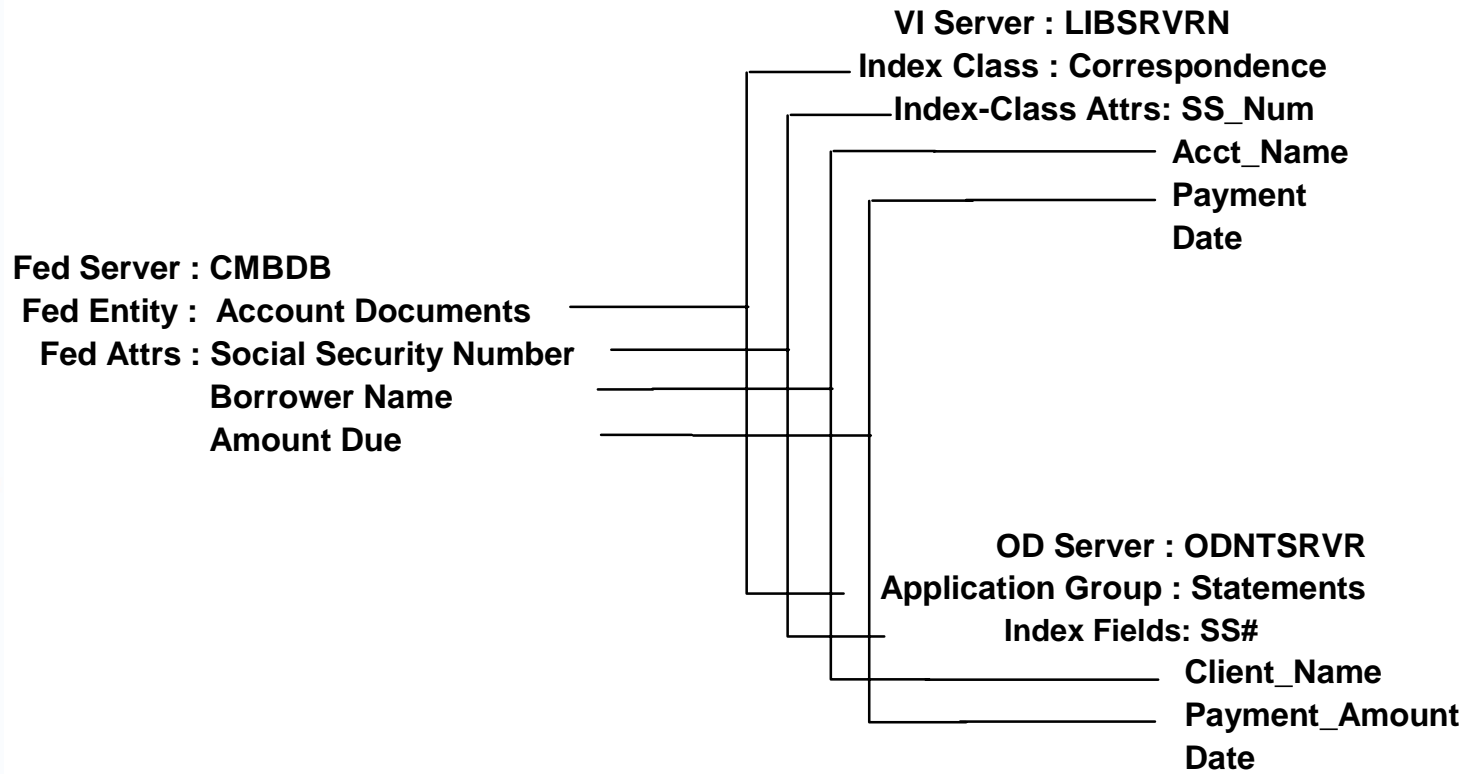| Data Source	Entity	Attribute
VisualInfo System -A	Correspondence	SS_Num
OnDemand System-B	Statements	SS#

What the client actually sees

Federated Entity	Federated Attribute
Account Documents	Social Security Number

Federated Search Schema Mapping

Fed Server : CMBDB
Fed Entity : Account Documents
Fed Attrs : Social Security Number
Borrower Name
Amount Due

VI Server : LIBSRVRN
Index Class : Correspondence
Index-Class Attrs: SS_Num
Acct_Name
Payment
Date

OD Server : ODNTSRVR
Application Group : Statements
Index Fields: SS#
Client_Name
Payment_Amount
Date

Configuration Issues

- EP offers a flexible client/mid-tier/server configuration
- Many components to choose from at install time
- What components are installed depends on overall system configuration
- Considerations include performance and system requirements
- Post-installation configuration tasks

Components

- Client application
  - turnkey, "out of the box" ContentConnect client application (written in Java)
  - custom developed client application written using Java, C++ or ActiveX APIs
- Mid-tier connectors
  - client and client/server packages
  - most available in Java and C++, some ActiveX
  - separate packages for each backend server type
  - may run RMI server program
- Backend servers
  - Ten different backend content servers including the Federated DataStore

Components

- Client, mid-tier connectors, and backend server can all reside on a single workstation or can be distributed across multiple workstations
- Standalone configuration is simplest and easiest for test and/or development
- Distributed configuration allows for maximum performance and flexibility
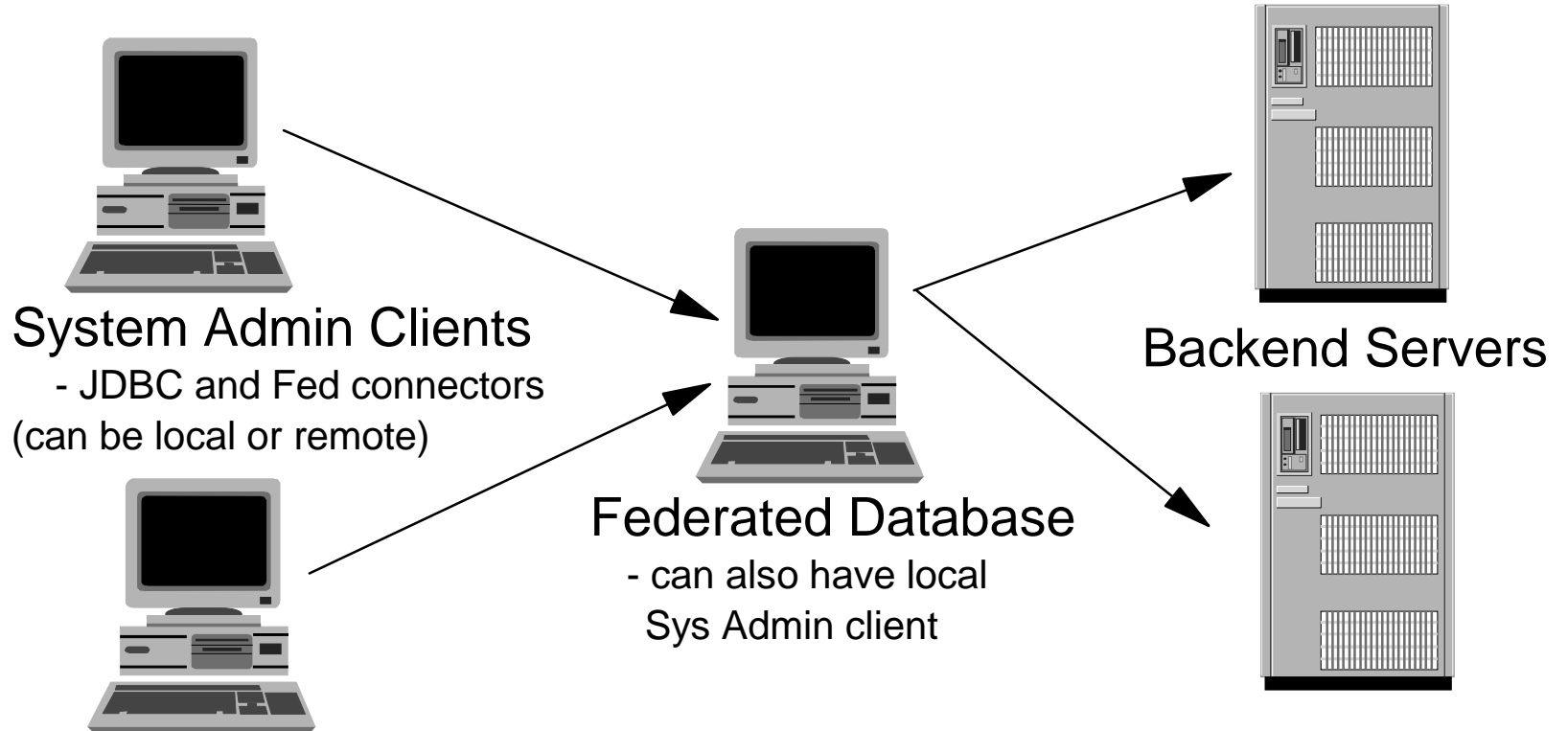- Federated database

Dynamic Configuration

RMI Server (or
Master Server with
Server Pool Members)

Backend Servers
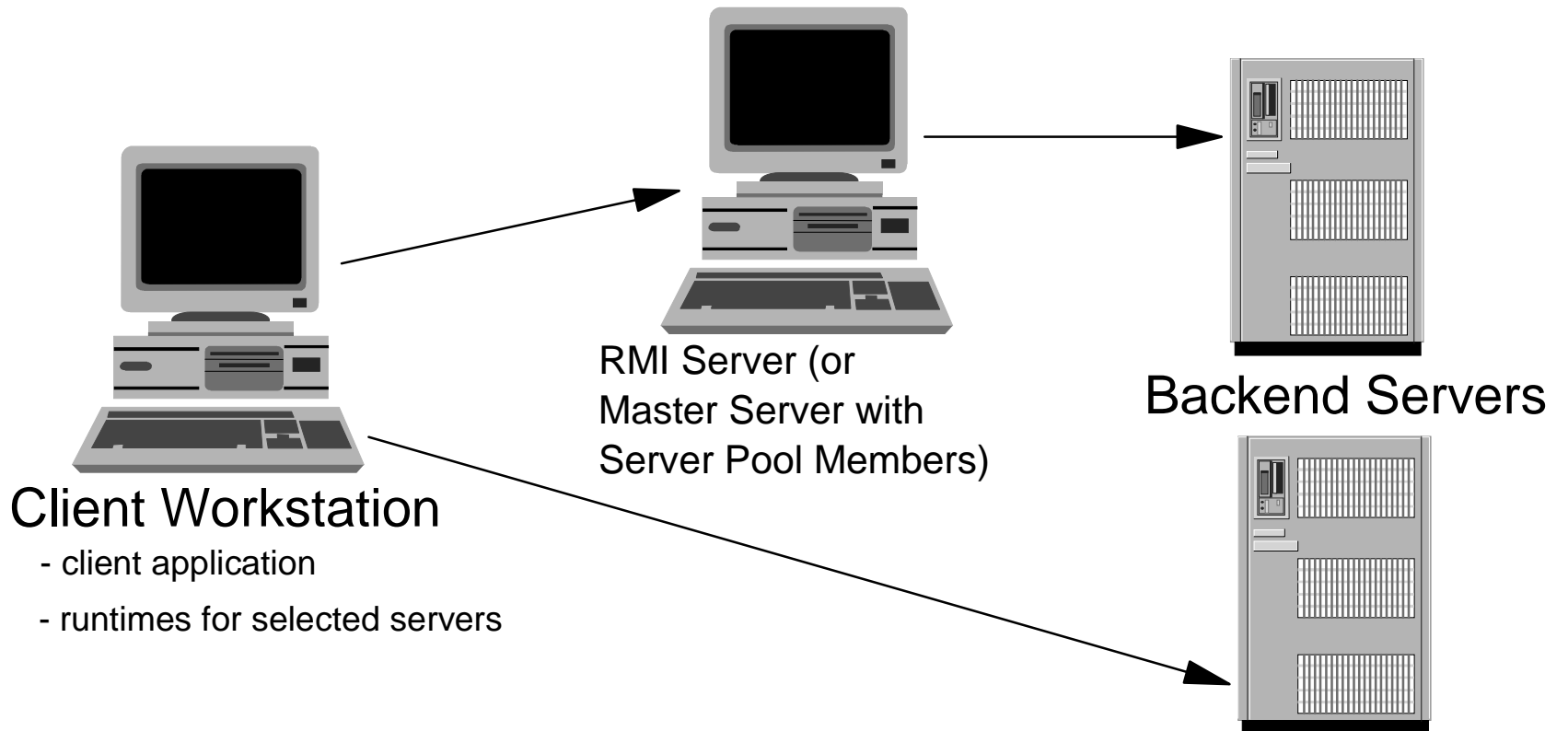
Client Workstation
- client application
- runtimes for selected servers

Federated Database System Admin Client

System Admin Clients
- JDBC and Fed connectors
(can be local or remote)

Federated Database
- can also have local
Sys Admin client

Backend Servers

DataStores

- Content Manager (VI/DL)
- OnDemand
- ImagePlus/390 (FAF)
- VisualInfo/400 (v4.1 & v4.3)
- Domino.doc
- Domino Extended Search Server
- Text Search
- Query By Image Content (QBIC)
- Federated DataStore

Path To Customer's Data

OnDemand DataStore

| Customer-written Java Application | | Customer-written Java Application |

Imports
Client
CS
Server
Package

| OD Connector Client Jar file — cmbodc30.jar | RMI | OD Connector Server Jar file — cmbod30.jar |

| OnDemand connector DLL | TCPIP IPX/SPX Local |

| Library Server Attributes and Annotations |

| Object Server Document content |
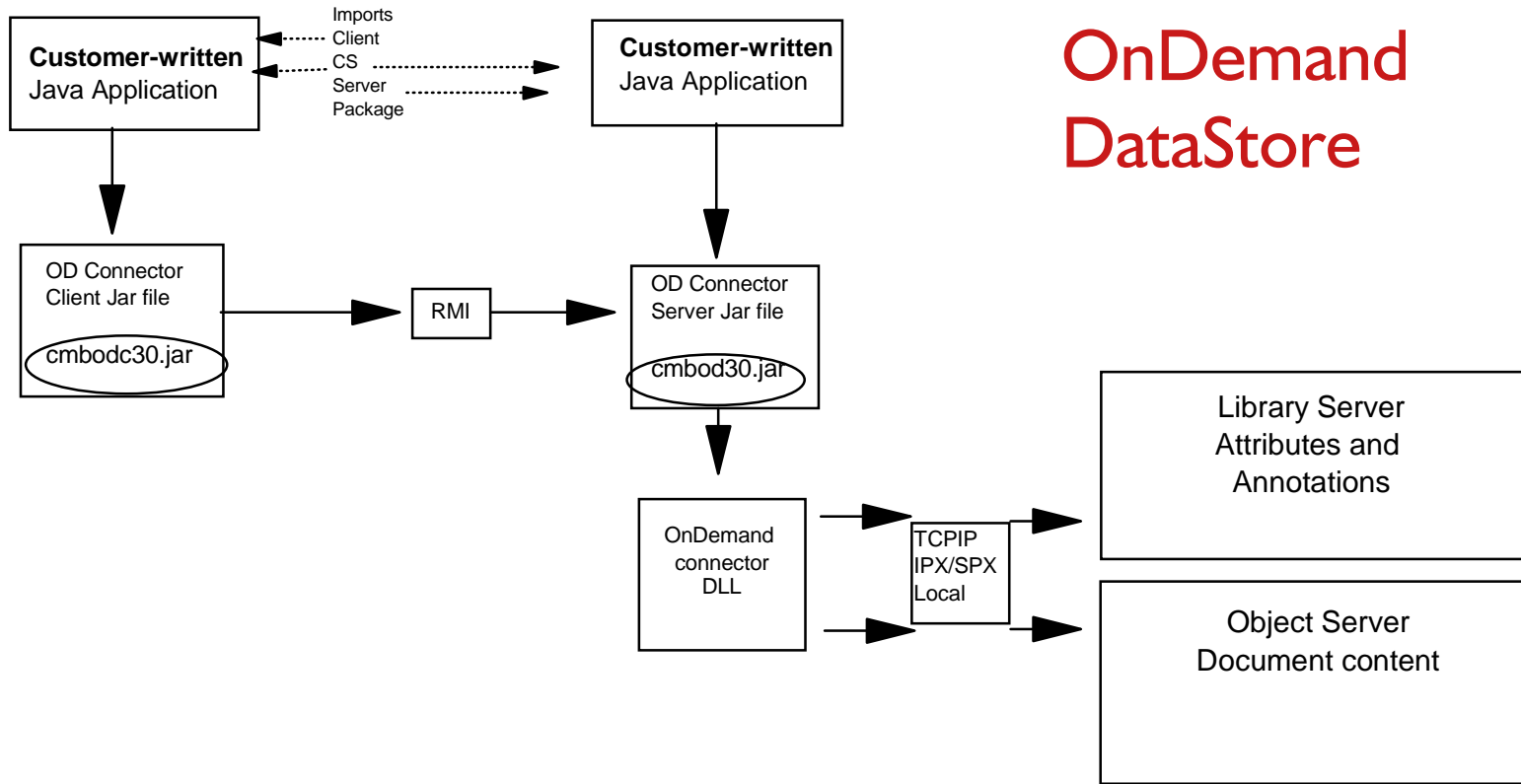
Overview

- **OnDemand Datastore "components"**
  - ► Server... requires
    - – Version 2.2 level of OnDemand (AIX,NT,HP-UX,Solaris, OD/400)
  - ► Server... runs on Windows only
    - – Application programs **import com.ibm.mm.sdk.server.*;**
  - ► Client... runs on Windows and AIX,
    - – Application programs **import com.ibm.mm.sdk.client.*;**
    - – Connects to a server via RMI, which requires the client **cmbclient.ini** file to point to the appropriate server and for that server to be running **cmbregist**.
  - ► Client/Server... runs on Windows in local or remote mode. Runs on AIX in remote mode only.
    - – The client application (**cmbclientapp**) uses the cs package.
    - – Application programs **import com.ibm.mm.sdk.cs.*;**
    - – For local mode, the **cmbcs.ini** file must contain the entry **OD=local**
    - – More remote mode, the **cmbcs.ini** file must contain the entry **OD=remote**, requires the client **cmbclient.ini** file to point to the appropriate server and for that server to be running **cmbregist**.
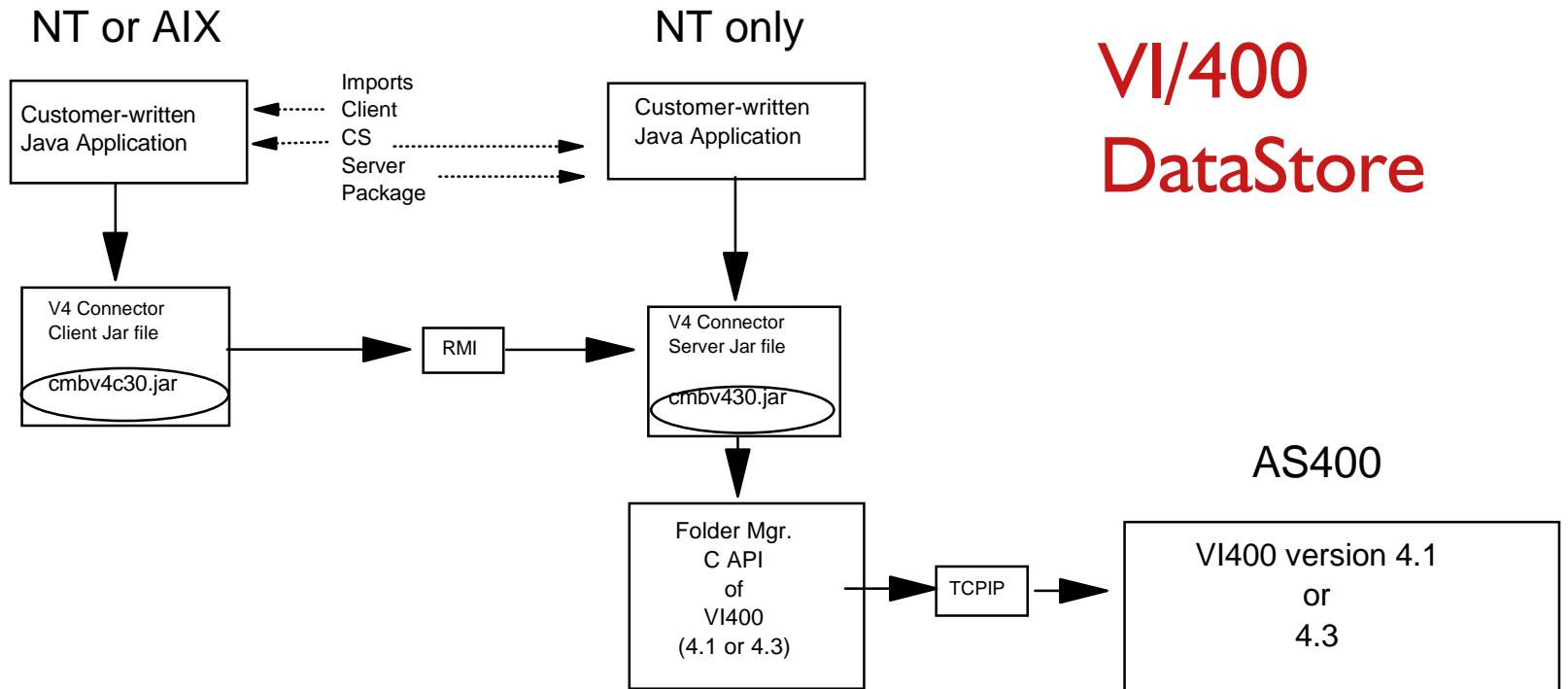
Path To Customer's Data

NT or AIX

NT only

Customer-written
Java Application

Imports
Client
CS
Server
Package

Customer-written
Java Application

V4 Connector
Client Jar file

cmbv4c30.jar

RMI

V4 Connector
Server Jar file

cmbv430.jar

Folder Mgr.
C API
of
VI400
(4.1 or 4.3)

TCPIP

**VI/400
DataStore**

AS400

VI400 version 4.1
or
4.3

Overview

- **VI400 Datastore "components" - java**
  - ► Server... requires
    - – VI400 version 4.1 or 4.3 on NT and AS400
  - ► Server... runs on Windows only
    - – Application programs **import com.ibm.mm.sdk.server.*;**
  - ► Client... runs on Windows and AIX,
    - – Application programs **import com.ibm.mm.sdk.client.*;**
    - – Connects to a server via RMI. The client **cmbclient.ini** file points to the appropriate server and that server is running **cmbregist**.
  - ► Client/Server... runs on Windows in local or remote mode. Runs on AIX in remote mode only.
    - – The client application (**cmbclientapp**) uses the cs package.
    - – Application programs **import com.ibm.mm.sdk.cs.*;**
    - – For local mode, the **cmbcs.ini** file contains the entry **V4=local**
    - – More remote mode, the **cmbcs.ini** file contains the entry **V4=remote**. The client **cmbclient.ini** file points to the appropriate server and that server is running **cmbregist**.

Summary

- Enterprise Information Portal (EIP) with Federated DataStore offers many options for configuration of multiple repositories
  - Available November 30, 1999
- Leveraging IBM's data management experience
  - reliable, scalable infrastructure
  - content management
  - warehouse management
  - e-business experience

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How Do I Put IBM's EIP To Work For Me?

- Get armed with additional information on IBM's EIP....

- Get equipped with the skills you need...

- Take advantage of IBM's Technical and Marketing support for EIP

Sources of information on EIP:

- The IBM EIP Website:

  http://www.ibm.com/software/eip
    - Product overview
    - News articles
    - Product case studies
    - EIP Feedback

- The IBM Homepage:

  http://www.software.ibm.com

Education and Training from Learning Services

- K2735 EIP Content & Installation
  - One week EIP training course
  - First class week of Feb. 8, 2000
  - Call 1-800-IBM-Teac to enroll
- K2736 EIP Java Programming
- For training on current EDMSuite products:

  http://www.software.ibm.com/partnerweb/na
  - then click, education
  - Skills road maps for current products
  - Course descriptions and perquisites

IBM's Technical and Marketing Support designed to help you Win:

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  - access to not-for-resale code
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e-business software
specialist

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  - ►e-mail lulu.jasso@svtg.com

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