DB2 Content Manager OnDemand
Technical Overview
Types of Content

Complex Print Documents

Scanned Images, PC Documents, Faxes, etc.

Internal Reports
OnDemand Overview

- Client/Server document archival and retrieval system

  ✓ Servers
    - Windows - NT - WIN2K - WIN3K
    - Linux – RedHat, SuSE
    - UNIX - (AIX, HP and Sun)
    - iSeries
    - zSeries mainframe

  ✓ Clients
    - Win NT/XP/WIN2K and WIN3K, GUIs
    - CICS/3270 client available as services offering
    - Internet clients CGI, Servlets, Java, IBM Integrator for Content (IICE)
    - DDE and OLE API's
OnDemand Overview – Database

- Database for storing index information
  - DB2 (Unix/Windows/OS/400/OS390)
  - Oracle (Unix/Windows)
  - Microsoft SQL Server (Windows)

- Database structure
  - Users don’t need to know about applications (report files)
  - OnDemand segments tables so performance stays linear
OnDemand Overview - Storage Management

- Unix/Windows/Linux
  - IBM Tivoli Storage Manager (TSM)
  - TSM provides hierarchical storage management and supports a wide range of optical and tape libraries and Content Addressable Storage Devices

- OS/400
  - Built in hierarchical storage manager that supports magnetic, optical and tape

- OS/390
  - OAM (Object Access Method)
  - VSAM (Virtual Storage Access Method)
  - TSM “new”
OnDemand Overview
Storage Management - Continued

- Storage management structure
  - Compresses data (2:1 to 30:1) before storing it
  - Scalable solution
  - Supports office/departmental environments through high-end production environments
On Demand handles the high speed ingestion and automated indexing of computer output

*Requires: Printstream Transform
OnDemand for Unix/Windows Downloading Data from MVS

Documents downloaded or transferred from mainframe using MVS download, NFS mount, or TCP/IP.
OnDemand UNIX/NT Server Structure

OnDemand Library Server

Base Server
  New York

OnDemand Object Server
  Disk Cache
  TSM Tape & Optical

OnDemand Object Server
  Disk Cache
  TSM Tape & Optical

Additional
  Optional - California

Optional - London

TCP/IP or High Speed Switch

© 2005 IBM Corporation
OnDemand Library Server

- Contains DB2 UDB, Oracle or SQL Server database
- Contains all index, configuration, and user account information
- Performs all database searches
- Performs user authentication
- Performs logging
- Provides a single system image across multiple object servers
OnDemand Index Management

- OnDemand server loads document index information into DB2/Oracle/SQL Server

- Each application (report type) specifies how long index information will remain on magnetic disk before it is migrated to optical or alternate, long-term storage devices

- OnDemand segments DB2/Oracle/SQL Server database tables so performance stays linear over time

- OnDemand supports 24 hour operation and allows indexes to be built while queries are taking place
OnDemand **Object** Server

- Data loading is done directly on object server and indexes are loaded remotely to library server
- Most system contain Library and Object server. Object servers can be local or remote
- Users are unaware of object servers
- Document retrievals come directly from object server and do not need to pass through library server
OnDemand **Object** Server - Continued

- Each object server can have a mixture of magnetic cache and a specific storage manager
  - Storage Manager runs on each object server (except for cache-only object servers) for handling of optical, tape or magnetic
    - Unix/Windows
      - TSM
    - OS/400
      - Built into the operating system
    - OS/390
      - OAM, VSAM or TSM
OnDemand Storage Management

- OnDemand provides magnetic caching of data
- Supports migration and expiration of documents based on application (report type)
- Uses IBM products for optical/tape library management
  - TSM (Unix/Windows)
  - Built in support (OS400)
  - OAM or VSAM (OS390)
OnDemand Storage Management

- Provides a client/server system for distributed storage management

- Systems can contain a mixture of magnetic, RAID, CAS, optical, and tape

- Normally OnDemand will load documents to magnetic cache and the storage manager concurrently

- Cache copy then expires after specified period of time defined by the administrator and all retrievals are automatically routed to the storage manager copy
OnDemand Storage Management

OnDemand Server

OnDemand Disk Cache

Disk Cache (e.g. RAID)

TSM (Unix /Windows)
OS/400
OAM/VSAM/TSM (OS/390)

TSM CAS or Disk
TSM Tape
TSM Optical

Backup Volumes for Disaster Recovery
OnDemand Document Capture

- Business Applications
- Spool
- Index Rows
- Capture Process
  - Auto Segmentation
  - Auto Indexing
  - Compression
  - Blocking
  - Partial Retrieve
- Relational Database
- Library Server
- Object Server
  - Object Blocks
  - TSM Storage Manager
INDEXING

- ACIF Indexer
  - Supports 370 and ASCII line data and AFP data

- PDF Indexer
  - Parses PDF files extracts index data at known locations

- Generic Indexer
  - The generic index file contains index field-id's and values and offset and file information about the associated object.
  - Used to load user misc. file types into OnDemand

Spreadsheets

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>7</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>7</td>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>7</td>
<td>1</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>7</td>
<td>1</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>8</td>
<td>7</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>7</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>7</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>7</td>
<td>1</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>13</td>
<td>7</td>
<td>1</td>
<td>0</td>
<td>14</td>
</tr>
<tr>
<td>14</td>
<td>7</td>
<td>1</td>
<td>0</td>
<td>13</td>
</tr>
<tr>
<td>15</td>
<td>7</td>
<td>1</td>
<td>0</td>
<td>12</td>
</tr>
<tr>
<td>16</td>
<td>7</td>
<td>1</td>
<td>0</td>
<td>11</td>
</tr>
<tr>
<td>17</td>
<td>7</td>
<td>1</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>18</td>
<td>7</td>
<td>1</td>
<td>0</td>
<td>9</td>
</tr>
<tr>
<td>19</td>
<td>7</td>
<td>1</td>
<td>0</td>
<td>8</td>
</tr>
<tr>
<td>20</td>
<td>7</td>
<td>1</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td>21</td>
<td>7</td>
<td>1</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td>22</td>
<td>7</td>
<td>1</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>23</td>
<td>7</td>
<td>1</td>
<td>0</td>
<td>4</td>
</tr>
</tbody>
</table>

Word Documents

Photos
INDEXING Optional

- **IBM**
  - **AFP Visual Indexer**
    - Adds indexing to AFP files with GUI
  - **Applications using the IBM AFP Toolkit**
    - Customer applications generating AFPDS

- **StreamServe**
  - Parses data and creates generic index data from PDF, AFP, XML many others

- **Xenos (optional BP)**
  - Optional Business Partner Indexer(s) for handling Xerox, PS, PDF, PCL, HTML, XML, data streams.

- **Other**
  - Third-party applications (e.g. Metavante Custom Statement Formatter CSF)
Advanced Function Presentation - AFP

Resources
- Overlays
- Images
- Fonts
- Formdefs
- Pagedefs

Application Output
Line or AFPDS data

Spool

Print Services Facility
or InfoPrint Manager

OnDemand
- Indexes
  - * TLE’s
- Documents
  - ResLib
- InfoPrint Manager
- Printer

* TLE’s = Tagged Logical Elements
Document Indexing and Segmentation

**ATLAS INC.**

<table>
<thead>
<tr>
<th>Invoice Number:</th>
<th>163846478</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date:</td>
<td>12/15/2003</td>
</tr>
<tr>
<td>Customer:</td>
<td>Jones Engineering</td>
</tr>
<tr>
<td></td>
<td>1289 Smith Road</td>
</tr>
<tr>
<td></td>
<td>Boulder, CO  80301</td>
</tr>
</tbody>
</table>

Customer Number: 12345678123

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Qty</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appraisal</td>
<td>1</td>
<td>1700.00</td>
</tr>
<tr>
<td>Drawing</td>
<td>2</td>
<td>900.00</td>
</tr>
<tr>
<td>Wheel Rudder</td>
<td>3</td>
<td>400.00</td>
</tr>
</tbody>
</table>

Tax 180.00

Total 3100.00

Segment print data by invoice number

Index Segments By
- Invoice Number
- Date
- Customer Number

Add bill total as additional display information
Item vs Transaction Indexing

ATLAS INC.

Invoice Number: 163846478
Date: 12/15/2003
Customer:
Jones Engineering
1289 Smith Road
Boulder, CO 80301

-----------------------------------------------

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Qty</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Appraisal</td>
<td>1</td>
<td>1700.00</td>
</tr>
<tr>
<td>2 Drawing</td>
<td>2</td>
<td>900.00</td>
</tr>
<tr>
<td>3 Wheel Rudder</td>
<td>3</td>
<td>400.00</td>
</tr>
<tr>
<td>Tax</td>
<td></td>
<td>180.00</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>3100.00</td>
</tr>
</tbody>
</table>

Invoice Number

Sorted Transaction Value

EXAMPLE REPORT
SORTED BY SEQUENCE NUMBER DATE: 05/10/88

<table>
<thead>
<tr>
<th>SEQUENCE NUMBER</th>
<th>PRODUCT ID</th>
<th>TOTAL AMOUNT</th>
<th>ACCOUNT NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>0012223049</td>
<td>80178.21</td>
<td>22.50</td>
<td>0635588</td>
</tr>
<tr>
<td>0012223052</td>
<td>80178.21</td>
<td>30.10</td>
<td>0655388</td>
</tr>
<tr>
<td>0012223053</td>
<td>80178.21</td>
<td>88.60</td>
<td>0608458</td>
</tr>
<tr>
<td>0012223055</td>
<td>80178.21</td>
<td>21.80</td>
<td>0667588</td>
</tr>
<tr>
<td>0012223056</td>
<td>80178.21</td>
<td>83.85</td>
<td>0603512</td>
</tr>
<tr>
<td>0012223057</td>
<td>80178.21</td>
<td>83.85</td>
<td>1713562</td>
</tr>
<tr>
<td>0012223059</td>
<td>80178.21</td>
<td>100.00</td>
<td>367582</td>
</tr>
<tr>
<td>0012223060</td>
<td>80178.21</td>
<td>80.00</td>
<td>3617362</td>
</tr>
<tr>
<td>0012223068</td>
<td>80178.21</td>
<td>35.00</td>
<td>5208713</td>
</tr>
<tr>
<td>0012223065</td>
<td>80178.21</td>
<td>109.00</td>
<td>9206613</td>
</tr>
<tr>
<td>0012223066</td>
<td>80178.21</td>
<td>80.00</td>
<td>8881985</td>
</tr>
<tr>
<td>0012223067</td>
<td>66018.23</td>
<td>8.38</td>
<td>5519769</td>
</tr>
<tr>
<td>0012223068</td>
<td>66018.23</td>
<td>38.76</td>
<td>5538930</td>
</tr>
<tr>
<td>0012223069</td>
<td>88852.56</td>
<td>18.11</td>
<td>0964579</td>
</tr>
<tr>
<td>0012223070</td>
<td>80178.21</td>
<td>23.16</td>
<td>9756607</td>
</tr>
<tr>
<td>0012223071</td>
<td>80178.21</td>
<td>15.15</td>
<td>9526593</td>
</tr>
<tr>
<td>0012223072</td>
<td>66018.23</td>
<td>58.62</td>
<td>7655980</td>
</tr>
<tr>
<td>0012223073</td>
<td>66018.23</td>
<td>85.20</td>
<td>7567303</td>
</tr>
</tbody>
</table>

Page 1

Page 121
### Graphical Indexing

The image shows a section of a software interface, specifically a loan delinquency report from Pennant National Bank. The report lists various loan accounts with details such as loan number, customer name, loan amount, delinquent 30 days, delinquent 60 days, and delinquent 90 days. The report is timestamped with the date `10/01/94` and the time `16:03:46`.

<table>
<thead>
<tr>
<th>Loan Number</th>
<th>Customer Name</th>
<th>Loan Amount</th>
<th>Delinquent 30 Days</th>
<th>Delinquent 60 Days</th>
<th>Delinquent 90 Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000010000</td>
<td>McMulligan, Patrick</td>
<td>$1000000.00</td>
<td>$50.00</td>
<td>$50.00</td>
<td>$.00</td>
</tr>
<tr>
<td>0000010001</td>
<td>Abbott, David</td>
<td>$1100.00</td>
<td>$100.00</td>
<td>$200.00</td>
<td>$.00</td>
</tr>
<tr>
<td>0000010002</td>
<td>Abbott, David</td>
<td>$1200.00</td>
<td>$140.00</td>
<td>$.00</td>
<td>$.00</td>
</tr>
<tr>
<td>0000010003</td>
<td>Abbott, David</td>
<td>$1300.00</td>
<td>$150.00</td>
<td>$.00</td>
<td>$.00</td>
</tr>
<tr>
<td>0000010005</td>
<td>Robins, Steven</td>
<td>$500.00</td>
<td>$50.00</td>
<td>$.00</td>
<td>$.00</td>
</tr>
<tr>
<td>0000010006</td>
<td>Palmer, Arnold</td>
<td>$1000.00</td>
<td>$75.00</td>
<td>$150.00</td>
<td>$225.00</td>
</tr>
<tr>
<td>0000010007</td>
<td>Peters, Paul</td>
<td>$650.00</td>
<td>$50.00</td>
<td>$.00</td>
<td>$.00</td>
</tr>
<tr>
<td>0000010009</td>
<td>Roberts, Abraham</td>
<td>$900.00</td>
<td>$120.00</td>
<td>$.00</td>
<td>$.00</td>
</tr>
<tr>
<td>0000010010</td>
<td>Smith, Randolph</td>
<td>$900.00</td>
<td>$115.00</td>
<td>$.00</td>
<td>$.00</td>
</tr>
<tr>
<td>0000010011</td>
<td>Kline, Peter</td>
<td>$850.00</td>
<td>$110.00</td>
<td>$.00</td>
<td>$.00</td>
</tr>
<tr>
<td>0000010017</td>
<td>Williams, Alfred</td>
<td>$1000.00</td>
<td>$50.00</td>
<td>$50.00</td>
<td>$.00</td>
</tr>
<tr>
<td>0000010019</td>
<td>James, Timothy</td>
<td>$1100.00</td>
<td>$100.00</td>
<td>$200.00</td>
<td>$.00</td>
</tr>
<tr>
<td>0000010022</td>
<td>Thomas, James</td>
<td>$1200.00</td>
<td>$140.00</td>
<td>$.00</td>
<td>$.00</td>
</tr>
<tr>
<td>0000010026</td>
<td>Robins, Karl</td>
<td>$1300.00</td>
<td>$150.00</td>
<td>$.00</td>
<td>$.00</td>
</tr>
<tr>
<td>0000010029</td>
<td>Miller, Frederick</td>
<td>$500.00</td>
<td>$50.00</td>
<td>$.00</td>
<td>$.00</td>
</tr>
<tr>
<td>0000010033</td>
<td>Davidson, Albert</td>
<td>$1000.00</td>
<td>$75.00</td>
<td>$150.00</td>
<td>$225.00</td>
</tr>
<tr>
<td>0000010049</td>
<td>Stevens, Mary</td>
<td>$650.00</td>
<td>$50.00</td>
<td>$.00</td>
<td>$.00</td>
</tr>
<tr>
<td>0000010050</td>
<td>Michaels, Louise</td>
<td>$900.00</td>
<td>$120.00</td>
<td>$.00</td>
<td>$.00</td>
</tr>
<tr>
<td>0000010051</td>
<td>Abel, Charlie</td>
<td>$800.00</td>
<td>$115.00</td>
<td>$.00</td>
<td>$.00</td>
</tr>
<tr>
<td>0000010056</td>
<td>Baker, Thomas</td>
<td>$850.00</td>
<td>$110.00</td>
<td>$.00</td>
<td>$.00</td>
</tr>
<tr>
<td>0000010101</td>
<td>Taylor, Adrienne</td>
<td>$1300.00</td>
<td>$130.00</td>
<td>$.00</td>
<td>$.00</td>
</tr>
<tr>
<td>0000010111</td>
<td>Miller, Robert</td>
<td>$500.00</td>
<td>$50.00</td>
<td>$.00</td>
<td>$.00</td>
</tr>
<tr>
<td>0000010123</td>
<td>David, Neil</td>
<td>$1000.00</td>
<td>$75.00</td>
<td>$150.00</td>
<td>$225.00</td>
</tr>
<tr>
<td>0000010132</td>
<td>Stevens, Susan</td>
<td>$650.00</td>
<td>$50.00</td>
<td>$.00</td>
<td>$.00</td>
</tr>
<tr>
<td>0000010133</td>
<td>Mitchell, Pamela</td>
<td>$900.00</td>
<td>$120.00</td>
<td>$.00</td>
<td>$.00</td>
</tr>
</tbody>
</table>
Search/Retrieval User Interface

- Integrated retrieval/viewing interface
- Provides a fill-in-the-blanks query interface
- Supports viewing multiple documents seamlessly
  - AFP, PDF, Line Data, and Image documents
  - Common user interface for multiple document formats
- Supports AFP resource objects including Overlays and Page Segments
Search/Retrieval User Interface

- Can be used efficiently without a mouse
- Can also launch external viewers (e.g. a Lotus WordPro, 123, Microsoft Word, Excel, etc)
- Supports standard Windows functions
  ✓ Zooming, scrolling, copying data to clipboard, text searching, printing, etc.
- Supports navigation within a document (e.g. an insurance policy)
  ✓ By page number for line data and image documents
  ✓ By table-of-contents for AFP and PDF documents
- Supports document annotation
  ✓ Document level and page level (e.g. yellow stickies, stamps, or other indicators of activity that needs identification/notification
OnDemand Client

- Display reports, documents and images or launch applications
- Folders
- Search
- Hyperlinks
- Hit list of contents
- Annotations
- Print, fax & e-mail
- Export, import
- System Admin
OnDemand Web Enablement Kit

Logon to one of your favorite OnDemand servers...
- Logon to an OnDemand Server using CGI
- Logon to an OnDemand CGI Server “Credit Demo”
- Logon to an OnDemand CGI Server “Frames Demo”
- Logon to an OnDemand Server using Java Servlet
- Logon to an OnDemand Server using an ODWEK Java Client

You may need the following plugins to view AFP or image data...
- OnDemand Image and AFP Plugins

Applet supported data types
- Line data

Web Viewers invoked for other data types
- AFP, PDF, Image (plugins)

OnDemand Server

Web Server
CGI/Servelt/JAVA

Intra/Internet

AFP to PDF conversion (optional)
AFP to DHTML conversion (optional)
OnDemand Web Enablement Kit

- **Browser support**
  - Netscape 4.06, or later
  - Microsoft Internet Explorer 4.01, or later

- **CGI Interface**
  - Requires HTTP server that supports the CGI protocol

- **Servlet Interface**
  - Java-enabled HTTP server with a Java application server, such as IBM WebSphere™ Application Server

- **Java Interface**

- **Viewing Technologies**
  - AFP Web Viewer (ActiveX/PlugIn)
  - Image Web Viewer (ActiveX/PlugIn)
  - Line data applet
OnDemand Web Enablement Kit

- Xenos Integration
  - Xenos runs on Unix/Windows/OS390
  - AFP to PDF
  - Metacode to AFP
  - Metacode to PDF
  - AFP, Metacode, PDF to HTML
  - AFP, Metacode, PDF to XML

- IBM Printing Systems Integration (AFP2WEB)
  - AFP to DHTML (ODWEK provides viewing Applet)
  - AFP to PDF
  - AFP to XML
  - Xerox to AFP
OnDemand Internet Client

- Display reports, documents and images or launch applications through a browser
- View with a plugin or as dynamic HTML
- Annotations
- Print, & fax (server also)
- Zoom
- Copy to clipboard
OnDemand Web Enablement Kit Custom Client

- Get your customer up and running with more out-of-the-box functionality

- Value Add
  - Provides a customized ODWEK Client with enhanced navigation, annotation, and eMail options
  - Delivers API source code to customers who want closer source code ownership for additional customization
  - Developed using Struts architecture with standard J2EE APIs and J2EE Model-View-Controller (MVC) design patterns making it easier for customers to maintain
OnDemand Web Enablement Kit Custom Client

- Logon / Logoff / Change Password
- Folder Name Search (Partial, Full, All)
- Multi-search Predicates
- ‘And’ Search
- Parametric Search with default and fixed values
- Direct Change Folder request via a drop-down list
- Multiple and Single Selection for viewing and emailing via icons and a toolbar
- Bi-directional Column Sorting (ascending/descending) from search results list
- Multiple Open Document windows
- Email support
- Update Key Values
- Server Print from search results list
- Annotations Indicator on search results list
- Annotations View, Add, and Print
- ODWEK Line Data Applet support
- Session Expiration Notification
- No Browser Cookies required
Custom Client - Folder Search List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIL - Centers - Loan Delinquency Reports</td>
<td>CIL - Centers - Loan Delinquency Reports</td>
</tr>
<tr>
<td>Credit Card Statements</td>
<td>Credit Card Statements</td>
</tr>
<tr>
<td>Credit Card Statements (Large)</td>
<td>Credit Card Statements (Large)</td>
</tr>
<tr>
<td>Credit Card Statements - SS</td>
<td>Credit Card Statements - SS</td>
</tr>
<tr>
<td>Credit Card Statements - Sorted</td>
<td>Credit Card Statements - Sorted</td>
</tr>
<tr>
<td>Credit Card Statements - Sorted Balance</td>
<td>Credit Card Statements - Sorted Balance</td>
</tr>
<tr>
<td>Credit Card Statements - Sorted Date</td>
<td>Credit Card Statements - Sorted Date</td>
</tr>
<tr>
<td>Credit Card Statements - Sorted Name</td>
<td>Credit Card Statements - Sorted Name</td>
</tr>
<tr>
<td>Credit Card Statements - annotated</td>
<td>Credit Card Statements - annotated</td>
</tr>
<tr>
<td>Credit Card Statements - annotated search</td>
<td>Credit Card Statements - annotated search</td>
</tr>
<tr>
<td>Credit Card Statements - text search</td>
<td>Credit Card Statements - text search</td>
</tr>
<tr>
<td>Customer Information</td>
<td>Customer Information</td>
</tr>
<tr>
<td>Customer Information2</td>
<td>Customer Information2</td>
</tr>
</tbody>
</table>

OnDemand - connected to server Demo
Multi-search Predicates, ‘And’ Search, Parametric Search with default and pre-defined drop-down list
Content is Often Isolated in Silos

Independent Systems
Complicating Enterprise Initiatives
Simplifying Enterprise Initiatives – Federated View

WebSphere® Information Integrator
Content Edition

Imaging/Document Mgmt
Report Mgmt
Web Content/Media Asset Mgmt
Database/Custom Systems
Network File Systems
Workflow/Business Process Mgmt
IBM Websphere Information Integrator for Content
OnDemand Report Distribution (ODF) Report Distribution

- Distribute entire report or sections of report
- Distribute to one or more users
- Different sections for different users
- Single or multiple copies
- Combine multiple reports into single report bundle
- Notify end-user that report is available
- Available as ODF on zOS and Report Distribution on multi-platforms
E-Mail Notification & Delivery

- Gives customers a way to send an e-mail to users when a document has been stored into the system

- Options
  - Notify a user through e-mail that an individual document has been loaded into OnDemand
  - Send that document as an attachment the e-mail
  - Invoke a transform:
    - from AFP and/or Metacode to PDF
    - AFP to DHTML
  - Include custom text in the e-mail for each user receiving an e-mail notification
  - Include a link to the OnDemand logon Web Site in the e-mail
OnDemand CD-ROM Feature

Ad-hoc Usage
“Now part of base CMOD”

Production Usage

OnDemand Server

Retrieval Workstation

CD-ROM Recorder

Production CD-ROM Server

Production CD-ROM Recorder

Mainframe or Other System
OnDemand CD-ROM Feature

- Allows customers to build CD-ROMs from data extracted from archive
- Ad-hoc GUI interface for selecting data for the CD-ROM and starting mastering process
- CD-ROMs are completely standalone including database and query/retrieval/viewing software
- Ad-hoc version is available as part of the base product
- Production version available as packaged services
- Single-byte languages are supported
OnDemand Security

- A userid/password is required to access system
  - Security Exit
    - On OS390, exit is provided to utilize MVS Security thru function (RACF, CA Top Secret, etc)

- Access to application/report type can be limited by user/group

- Access to specific documents (e.g. statement) can be limited by user/group based index values

- Access to annotations can be limited by user/group

- Access to system functions (e.g. reprint, copy to clipboard, etc..) can be limited by user/group

- “New” LDAP services offering
OnDemand Accounting and Logging

- Logging is performed for all major functions
  - Logon, logoff, search, retrieval
  - Print, invalid logon attempts

- System log can be accessed and queried with OnDemand Client just like any other application

- System log can be exported from the database for use by an accounting or billing system

- Logging exit allows capture of all log records so other functions can be performed
  - e.g. routing of error information to central console
  - Turning off default database log
OnDemand Administration

- OnDemand provides a Windows-based graphical interface for application definition
- Supports defining new reports and documents
- Includes a graphical indexer that allows indexing a report based on sample data
  - Input datatypes: Line data, AFP or PDF
- Manages users, groups, and access to documents (distributed user management)
- Functions can be limited to certain activities for subsets of users
- Can be run remotely by users with administrative authority
- Some management tasks such as database and storage administration need to be performed from OnDemand Library/Object server
OnDemand Administration
National Language Support

**Desktop Windows Client Translations**

- **Double-Byte**
  - Japanese*
  - Traditional Chinese*
  - Simplified Chinese*
  - Korean*

- **Single-Byte**
  - English*
  - Arabic
  - Czech
  - Danish
  - Dutch
  - Finnish
  - French*
  - French - Canadian*
  - German*
  - Italian*
  - Norwegian
  - Portuguese - Brazilian*
  - Spanish*
  - Swedish
Unicode Support

- OnDemand uses a Unicode protocol between client and server
  - This allows clients in multiple codepages to connect to a single server
  - All data is converted to Unicode before being transmitted
  - OnDemand server database can only be a single codepage
OnDemand API Support

- OnDemand has many APIs and integration points
  - OnDemand client is designed to be integrated with customer applications (e.g. a customer service desktop application)

- Windows client supports
  - DDE and OLE interfaces
  - Invoking external applications through dynamic toolbar icons
  - Client APIs that allow integration with other back-end systems

- The OnDemand server supports
  - Many exit points (e.g. user logon, print, and logging)
  - Commands and APIs for searching for and retrieving document
  - Commands for batch loading users/groups/printers
Business Partners

- xenos
- INTERCOPE
- KOFAX
- Silicon Plains Technologies
- TPS SYSTEMS, INC.
- OCEANSUIT
- dedataempowerment
- RAPTOR
- PureEdge
- StreamServe
- Carreker
- Datawatch
- Rlmage
- Adobe
Summary

- Flexible architecture for scalability, high performance
- Complete functionality set for search and retrieval on thick or thin clients
- Rich administrative functionality for system management
- Next Steps?