

Integrating Microsoft® BackOffice™ And The Internet

**Todd Warren
Group Program Manager
Microsoft BackOffice
Business Systems Division
Microsoft Corporation**



Agenda

- **Microsoft BackOffice - what it is**
- **Microsoft BackOffice and the Internet**
- **Two applications that bring it all together**
- **How you can make more powerful Internet applications and sites with Microsoft BackOffice**

Microsoft BackOffice Platform Today

Microsoft BackOffice

Microsoft
Mail

SNA
Server

Microsoft
SQL Server

Systems
Management
Server

Windows NT Server
with Internet Information Server

OLE WOSA

Windows 95 and Windows NT Workstation

Microsoft Visual
Tools

Third-party
products

Microsoft Office

A single, integrated
architecture sharing:

Applications

User interface

Administration and
security model

Networking model

Programming interfaces
and tools

Broad hardware choice

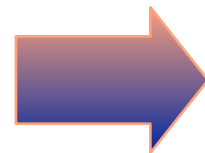
Microsoft BackOffice Platform Future

Microsoft BackOffice

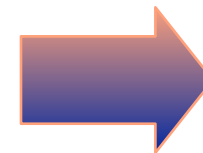
Other Microsoft BackOffice servers



**Windows NT Server with integrated
Internet Information Server**



Network OLE
WOSA



**Windows,
Windows NT Workstation**

Shared
development
environment

Third-party
products

Office

FrontPage,
Internet Studio

Internet
Explorer

Intranet Architecture



Web files



Messages



Host
Data



Existing
files
Same
infra-
structure



Structured
data

Microsoft BackOffice: The Core Of The Intranet

- Beyond static Web pages
- Full spectrum of data storage
 - Windows NT™ file system
 - Microsoft Exchange Server
 - Microsoft SQL Server™
- Available reliably and safely
 - Replication
 - Unified security model
 - Common administrative tools

Microsoft BackOffice

The common infrastructure
for the Intranet

☐ Administration

☐ Security

☐ Replication

☐ Data storage

☐ Host integration

☐ Information query

☐ Common API
with the desktop

Demonstration: ActiveX Search

- New Windows NT technology
- Indexes HTML files
- Supports indexing of arbitrary data formats via the IFilter interface
- A standard part of the platform

Microsoft Windows NT™ Server

The server application foundation

 High performance and scalable

 Microsoft Product Support, MIPS®, Alpha, IBM®
PowerPC™


 Best integration into Intranet and Internet

 TCP/IP, WinSock, DHCP, WINS, DNS

 Protocol independence with RPC,
Network OLE, WinSock, RnR

 Great support for NetWare®

 Best server development environment

 Administration tools, security, services
architecture, high-performance I/O model

Microsoft Windows NT Server

Building great active servers for the Internet

- **Exploit Windows NT™ and be a great server application**

- Run as a service, use Win32®, use high-performance I/O

- Build on Windows NT administration: logging, performance monitoring, remote admin, OLE Automation

- **Integrate into the Windows NT security model**

- Support impersonation in your service, compatibility with ISAPI and Internet Information Server

- Use APIs like LogonUser() to have a single ID

Microsoft SQL Server™ 6.5

Unlocking your data for the Internet

High-performance database server

-  Best price performance ratio, optimized for ODBC access

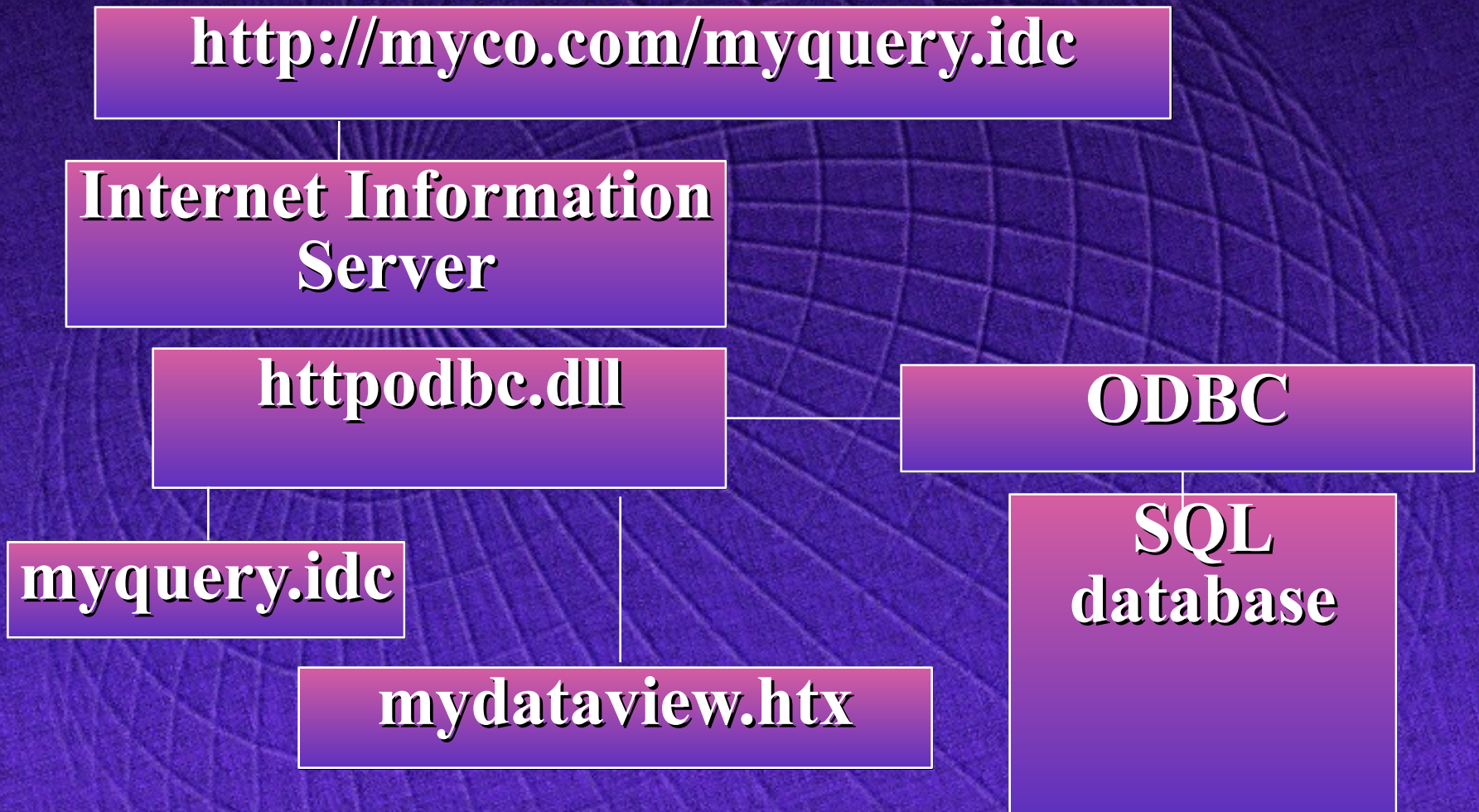
-  Support for heterogeneous replication, distributed transactions, row locking

Best suited for the Internet

-  Optimized for use with the Internet database connector

-  Wizard to support publishing of tables in HTML format

Using The ODBC/SQL Connector



Microsoft Exchange Server 4.0

Client/server messaging built for the Internet

Great client/server messaging with groupware

- SMTP/MIME support built in
- Indexed, X.500 directory service
- Indexed, replicated message, and public folder store

Additions enhance Internet support

- Publish public folders as Web pages **live**
- NNTP to public folder connector
- Support for POP 3 clients

Microsoft Exchange Web Connector

Read and post to live public folders

Web browser

<http://www.myco.com/webex.dll?<folderinfo>>

Internet Information
Server

webex.dll

Microsoft Exchange
public folder store and directory

Microsoft Exchange News Connector

Read and post to live public folders

NNTP feed

NNTP connector

MAPI store and gateway APIs

**Microsoft Exchange
public folder store**

Exploiting MAPI

■ ActiveX™ Servers using ISAPI

- Use message store and gateway APIs to move data in and out of replicated storage
- Use when structured (Microsoft Exchange client) and unstructured (Web client) views are needed

■ Client applications

- Writing to MAPI guarantees applications work in a POP 3/SMTP environment, as well as with Microsoft Mail, Microsoft Exchange, CompuServe®...
- Attachments can have specific MIME mapping types
- Custom message types (forms) can be sent over the Internet

SNA Server And Systems Management Server Internet Integration

- SNA Server - unlock the mainframe for the Internet**
 - ODBC driver for access to DRDA databases (AS/400[®], DB2[®]) via the IDC**
 - FTP-AFTP gateway for download of mainframe data**
 - Access the host via IP over the Internet**
- Systems Management Server - make managing Web farms easier**
 - Software distribution, inventory, SNMP alerting, event log coalescing**

Microsoft “Merchant Server”

Complete Internet commerce solution
for users and businesses

- Client extensions and APIs for
electronic shopping

- Encryption and payment

- Local order cache

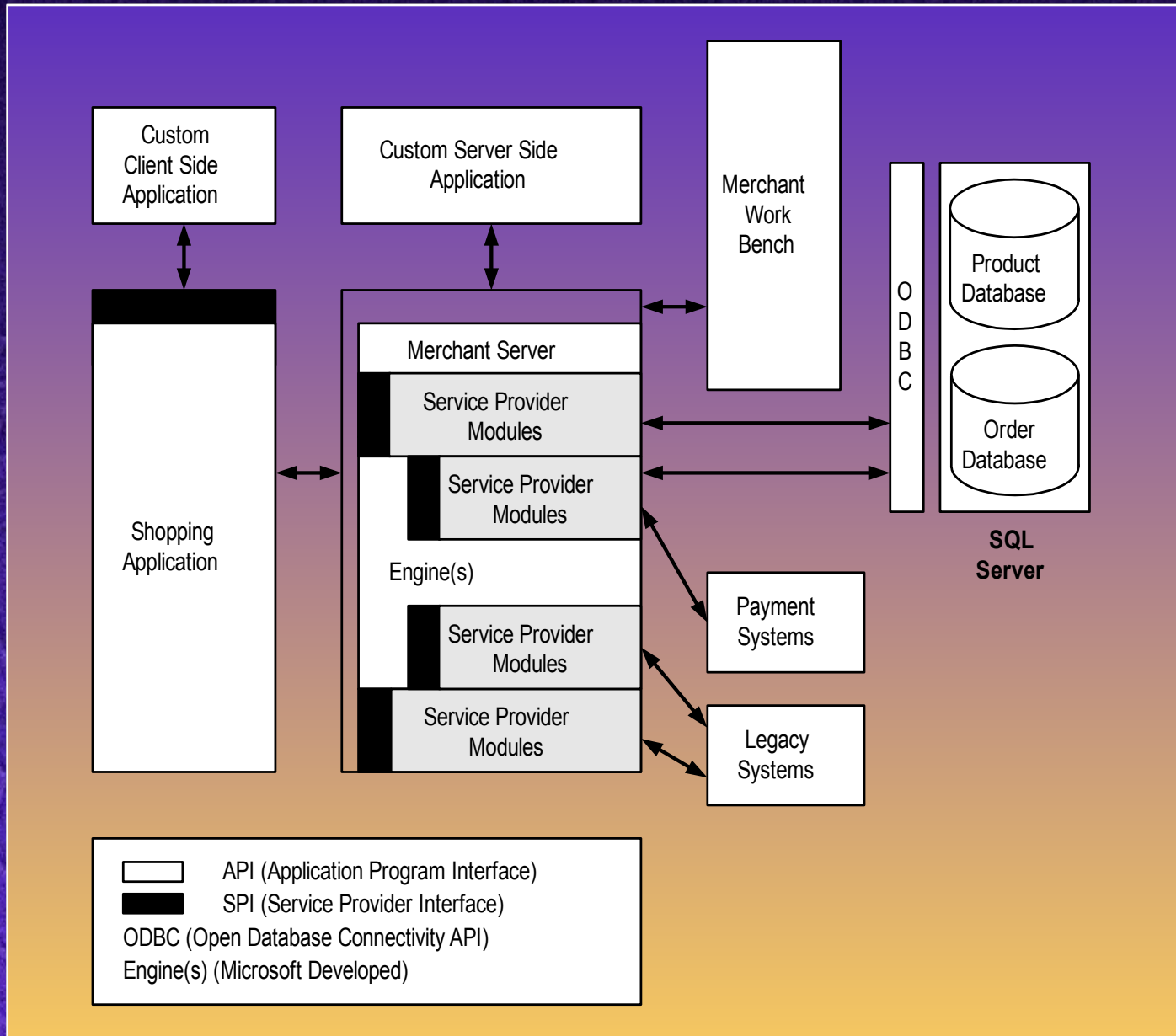
- Address information

- “Merchant Server” application support

- Links to product information and order database

- Support for legacy order entry and billing systems

“Merchant Server” Architecture



Lante Onsite System

☐ Complete activity center for attendees at the PDC

☐ Registrations and session abstracts via the Web

☐ E-mail, discussion, and news groups

☐ Session surveys via Microsoft Exchange

☐ Access to presentations via Web

☐ Implemented on Internet Explorer and Microsoft BackOffice

☐ SQL, Microsoft Exchange, Internet Information Server

Demo Of Onsite System And Walk-Through

**Mark Tebbe
President
Lante Corporation
www.lante.com**

Lante Solution Architecture: SQL

 Used for registration system and course listing

SQL Server

Windows NT with
Internet Information Server

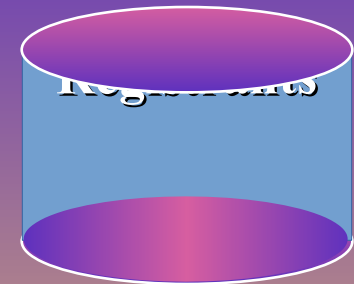
httpodbc.dll

login.idc

menu.idc

registration.idc

sessions.idc



Lante Solution Architecture: Mail And News



Software Business Technologies

- **Developer of accounting and Internet applications for small to medium-sized businesses**
- **Over 300,000 users, channel of 3,000 VARs**
- **Pro Series and VisionPoint: accounting product lines based on Microsoft FoxPro®**
- **Web Series: electronic commerce applications leveraging the Internet and existing business systems**
- **WebStreet: hosts over 200 businesses conducting commerce on the Internet**

WebTrader™ SQL

- Enables small- and medium-sized businesses to create a full-functioning presence on the Internet
- Presents dynamic catalog of products and services based on a merchant's own data
- “Intelligent Ordering” provides ordering options to customers based on stored profile information
- Full ODBC integration with any existing order processing system

SBT WebStreet™

■ Before: Windows NT Server 3.51 (Pentium® 90 MHz, 80-MB RAM,) O'Reilly WebSite™ 1.0

■ After: Windows NT Server 3.51 (Pentium 133 MHz, 32-MB RAM,) Internet Information Server, SQL Server 6.0

■ Improvements:

■ Better performance

■ Easier administration

■ Integrated database access

■ More robust security

SBT Web Enhanced Accounting System

**David Harris
President**

**SBT Internet Systems
www.sbt.com**

SBT System Architecture






Microsoft BackOffice Logo

Core requirements

Server applications:

-  Run as a service
-  Network independent
-  Unified logon
-  Deployable using Systems Management Server

Client applications:

-  Windows-based client
-  APIs specific to the server application
(for example, MAPI, ODBC, SNA APIs)
-  Installable via Systems Management Server

Summary

 Microsoft BackOffice leverages the Internet

 SQL Server Internet Connector and Publishing Wizard

 Microsoft Exchange Mail, Web, News Connectors

 Systems Management Server to manage Web sites, SNA Server to unlock host data

 Microsoft BackOffice can make your application or site

 More powerful

 Easier to manage

 Much more to come

 “Merchant Server”, “Viper”, “Bengal”, Proxy Server

 Get the Microsoft BackOffice logo!

Microsoft[®]

