Informix @ IBM

ON **DEMAND BUSINESS**™

# Message to Informix Clients and Partners

Your existing Informix database investments will be protected and you will be able to take advantage of evolving technology
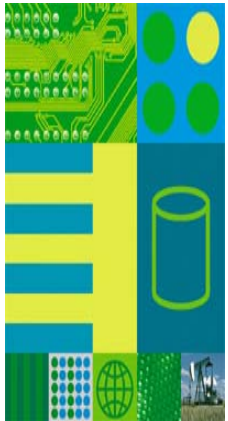
- **IBM continues to enhance and support Informix Dynamic Server 9.x. There are no end of life plans for IDS 9.x.**

- **IDS is IBM's strategic database for enterprise level embedded solutions**

- **IBM will ensure the ability to leverage your existing investment through integrated, cost effective and competitively based offerings with other IBM Software Group products**

- **Existing 4GL skills can be leveraged in a modern application development environment by using EGL and WebSphere Studio going forward**

- **For current Informix customers who are considering a move, *move only when the result is better for you* and consider DB2 for overall value advantage.**

Investment in Product Releases & Innovation

- **The majority of Informix clients and partners are satisfied with the capabilities of the product.**
  - Source: end 2003 Summary of worldwide market research done periodically by IBM since IBM acquisition in 2001, 644 respondents in total.

- **Informix Products have benefited from IBM's development process, quality standards and technology sharing**
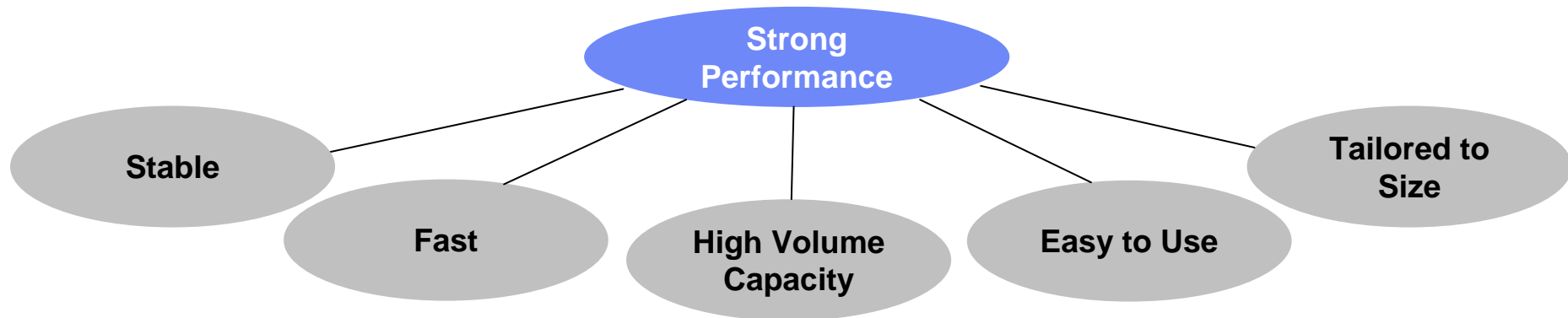
2003 Accomplishments

- IDS 9.40 provided significant new functionality to clients

- IDS defect backlog reduced by 60% in 2003

- Customer escalation response time reduced by 30%

- IDS went mainframe with our first release of zSeries Linux 64-bit

- First Itanium release of IDS – on HP-UX environment

- First .NET API release to access IDS

- IDS certification with WebSphere

Topics

- **Informix Product Roadmaps**

IBM Informix Dynamic Server Roadmap

IDS v9.40

GA March 2003
- Backup & Restore
- HDR & ER coexistence
- Remove size restrictions
- Security Sys.
- Monitoring, Utilities

IDS v9.50

2005
- In Development: Safety – High Availability
- Application Dev / XML / Stds. Compliance
  - 4GL/WebSphere EGL
  - Autonomic / Ease of Administration
- Software Group Integration
- Security, Partner-oriented & Infrastructure Improvements
- Performance

IDS v9.60

- Market, Technology & Customer Requests
- Integration with IBM Software

Plan: IDS v9.x

Market, Technology & Customer Requests
- Integration with IBM Software

| 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
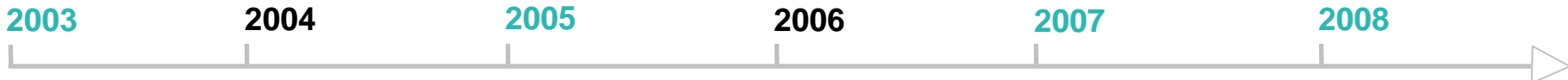
IDS 9.40 – Market Success !
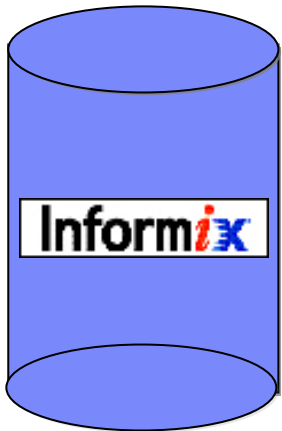
The fastest, most reliable, highest scaling IDS database ever produced…. provides the performance and reliability needed for today's always available and global e-business environments.

Source: Internal IBM Benchmarks

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Version 9.40

Announcing
Informix Dynamic Server 9.4
Performance. Reliability. Scalability

- **Performance**
  - 8-15% increase overall
- **Availability**
  - High Availability Data Replication (HDR) & Enterprise Replication (ER)
- **Scalability**
  - Removes previous size limitations
- **Security**
  - End-to-end encryption
- **Easy Upgrade**
  - Minutes to upgrade from IDS 7
- **Quality**
  - Highest Quality release ever!

9.4 References

"We chose Informix over Oracle"

"Because of the improved functionalities of the IDS on Linux… Irwin expects to increase its operational efficiency by 80%"

"an easily administered database… less expensive than the competition"

El Salvador
Tax Authorities

"actual conversion was planned for a 4-5 day period… conversion was complete after 2 days"

All quotes from published success stories or references
See the success story section off of http://www.ibm.com/software/data/informix or talk to your sales rep for more details

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9.4 References

"IDS more than capable of keeping up with the 5,000 per second transaction rate…reduce(d) total cost of ownership for its IT environment by 30 percent."

"…expects to save up to US $250K / year in expenses"

"anticipates it can reduce IT platform costs by 40 percent compared to the previous Unix-based application and over 50 percent compared to Oracle"

All quotes from published success stories or references
See the success story section off of http://www.ibm.com/software/data/informix or talk to your sales rep for more details

Informix Dynamic Server 9.4 for Linux on zSeries

- **IBM Informix 9.40 is the first database engine in the industry to fully exploit the large memory,** 64-bit **capabilities of the Linux kernel on the zSeries.**

- **Example of continuing IDS innovation; allowing leverage of existing investment**

- **Fully implemented** 64-bit **architectures, such as zSeries, remove the 31-**bit **limitations from files, file systems, and applications and enable the use of detail-data, regardless of its volume.**

- 64-bit **systems reduce the work of the application programmer by removing the design constraints inherent in 31-**bit **architectures. This means larger I/O block sizes, reduced disk accesses, and the ability to store more data in system memory, which results in improved performance, ease of use, and the ability to handle larger problems more easily.**

IBM® Informix Dynamic Server 9.40 on Intel® Itanium²

- **The IDS and Itanium² combination marks a significant breakthrough for memory intensive applications and for middleware solutions that require large database installations**

- **Intel Itanium architecture integrates easily into existing Intel x86 environments.**

- **Basic design strategies are virtually identical to those used to deploy 32-bit solutions**

- **Development teams can take advantage of their existing resources, tools, and skill sets.**

- **IDS 9.40 is currently available for Itanium² running HP-UX**

- **IDS 9.40 for 64-bit Linux on Itanium² will be available early Q3, 2003**

IBM Informix XPS Roadmap

**XPS
v8.40**

**XPS
v8.50**

**XPS
vNext**

Oct 2002
- Long IDs
- Snowflake support
- Ext. Tables support
  - 2g files

2H2004
 - <u>In Development:</u>
GA – Q3 2004
Customer Requests
  - Mixed Restore
  - Distributed Query Coordinator
  - Table Level Point in Time Restore
  - Upsert
Ease of Use features
  - Dynamic Logs
Quality

2H2005
<u>In Planning</u>

2002   **2004**   **2005**   **2006**

IBM Red Brick Warehouse Roadmap

Red Brick v6.2

Red Brick v6.3

Red Brick v6.4

Oct 2002

Integrated Analytics

- ANSI SQL/OLAP functions
- Integrated Backup/Restore
- Query/Load Performance
- Load/Export data in XML

April 2004

- **DB2 Interoperability**
- DB2 BI tools integration
- Performance Improvements to STARJoin and TARGETJoin
- Dynamic Smart Scan
- Self Tuning TMU Block Improve performance of aggregations,deletes, table scans

1H2006

- Market, Technology trends
- Customer Requirements
- Quality Enhancements

2002 **2003** **2004** **2005** **2006** **2007** **2008**

"Classic" Servers Roadmap

SE and OnLine upgrades to IDS Workgroup Edition available July 2004!

Classic Servers receive <u>continued platform support</u> as needed

OnLine 5:
>2g chunk offset
Updated 4GL support

5.11

5.20

<u>OnLine Extended Edition</u>
- >2Gb chunk offsets
- Built in I-Star
- Compatible with 4GL 7.x

SE:
Quality
Platform updates

7.25

C-ISAM:
Quality
Platform updates

7.26

2002   **2003**   **2004**
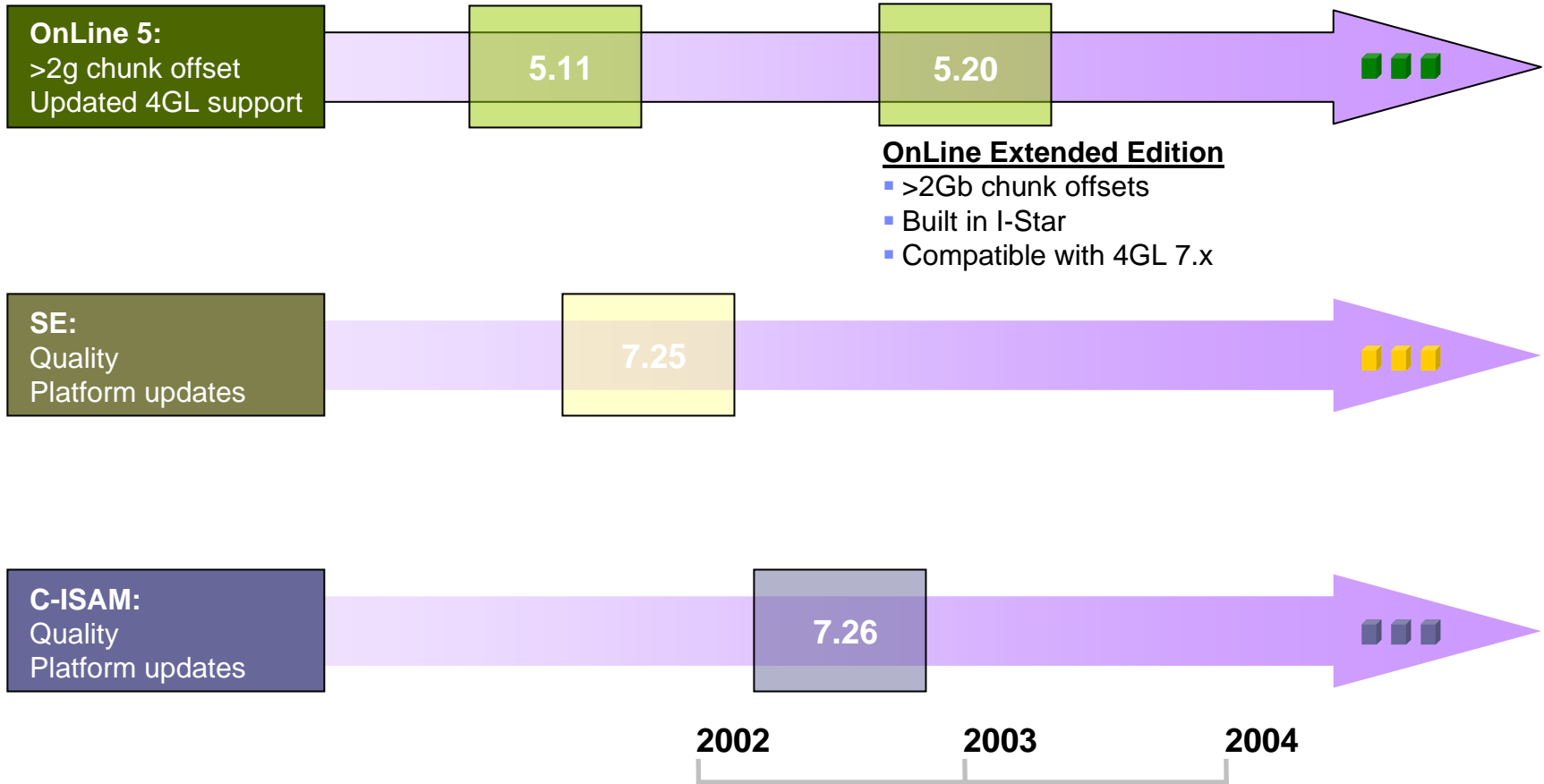
Recent DataBlade Module Releases

DataBlade technology will be enhanced with timely FixPacks, and Port/Certify Modules to new platforms and OS releases

Blade Manager

4.10.xC4

4.10.xC5

- Code-line merge and bug fixes – significant improvement
- New test suite developed and run across all platforms

DataBlade Developer Kit

4.00.TC3

4.00.TC4

4.00.TC5

- Bug fixes, customer requests

- ER support, bug fixes
- Added AIX 32 and 64-bit ports

Geodetic DataBlade

3.11.xC1

3.11.xC2

2002   **2003**   **2004**   **Ongoing…**

Recent DataBlade Module Releases

Spatial DataBlade

8.20.xC1

8.20.xC2

- Java API, ESRI library
- AIX 64-bit port

- Improvements in Performance & Scalability

Time Series

4.10.xC4

4.10.xC5

- Beta Q2, GA Q3

- Usability, time-series support, date/time optimizations, API functions, MQ Series int.

- Bug fixes
- Linux report

Time Series Real-time Loader

1.10

1.10.xC2

2002   **2003**   **2004**   **Ongoing…**

Recent DataBlade Module Releases

NAG – Numerical Algorithms Group

1.10.xC2

- Bug fixes, AIX 32, HP, Sun, 64-bit, & Linux ports

Web DataBlade

4.13.xC1

4.13.xC3

- ER support, Bug fixes

- Bug fixes, Linux 64, and:
- Improved Apache support
- HDR support for HTML Data Type
- New built-in functions

- Bug fixes, 64-bit ports

Excalibur Text

1.30.xC8

2002   **2003**   **2004**
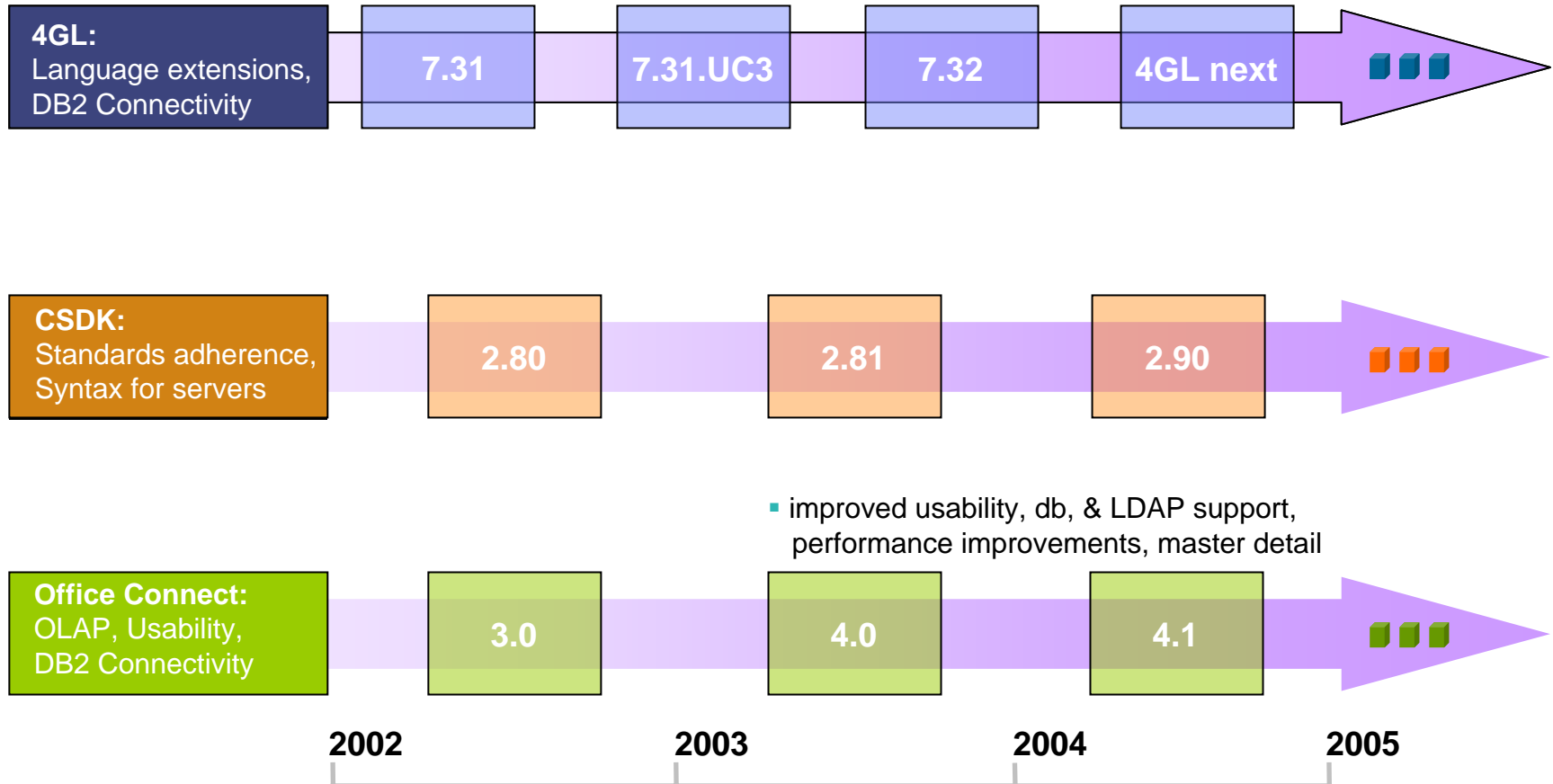
Ongoing…

Topics

- **Tools and Connectivity Roadmaps**

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Tools and Connectivity

Informix tools and connectivity are being <u>functionally enhanced</u> and many <u>will connect natively with DB2</u>

4GL:
Language extensions,
DB2 Connectivity

| 7.31 | 7.31.UC3 | 7.32 | 4GL next |

CSDK:
Standards adherence,
Syntax for servers

| 2.80 | 2.81 | 2.90 |

- improved usability, db, & LDAP support,
  performance improvements, master detail

Office Connect:
OLAP, Usability,
DB2 Connectivity

| 3.0 | 4.0 | 4.1 |

2002   **2003**   **2004**   **2005**

IBM Informix CSDK .NET Roadmap

CSDK 2.81.UC3

Shipped Q4'03
- Availability of new IDS .NET provider
- Supports .NET framework 1.1

CSDK 2.90 TC1

Availability with IDS 9.5
- Support for Informix specific data types (non-complex types)
- Supports .NET framework 1.1
- Incremental Integration with **Visual Studio .NET 2003 Toolbox, code generation for IDS .NET components**
- Windows 2003 OS Certification

CSDK v.Next

- Strong Integration with Visual Studio 2004 - rich set of UI for IDS database objects including browsing and creation of database objects
- Continual support for new versions of .NET framework
- Support within IBM Explorer for CSDK .NET
- Support for IDS Complex Types

2003

2004

2006

IBM Informix 4GL Roadmap

**4GL
7.31.UC3**

Shipped Q4'02
- Upgrade for 4GL 4.20 and 4GL JJ4.30: Enhanced connectivity to OnLine
- AIX 5.1 64-bit Platform support

4GL 7.32

GA 03/28/2003
**Announced with IDS 9.4
4GL Language Extensions**
- Dynamic Arrays
- INT8/SERIAL8

**WebSphere
Studio, V5.1**

Technology Validation
- New web application development with EGL
- DB2 connectivity

**WebSphere
Studio, V6.x**

General Availability
- Utilities for 4GL to EGL conversion
- 4GL-style character based displays
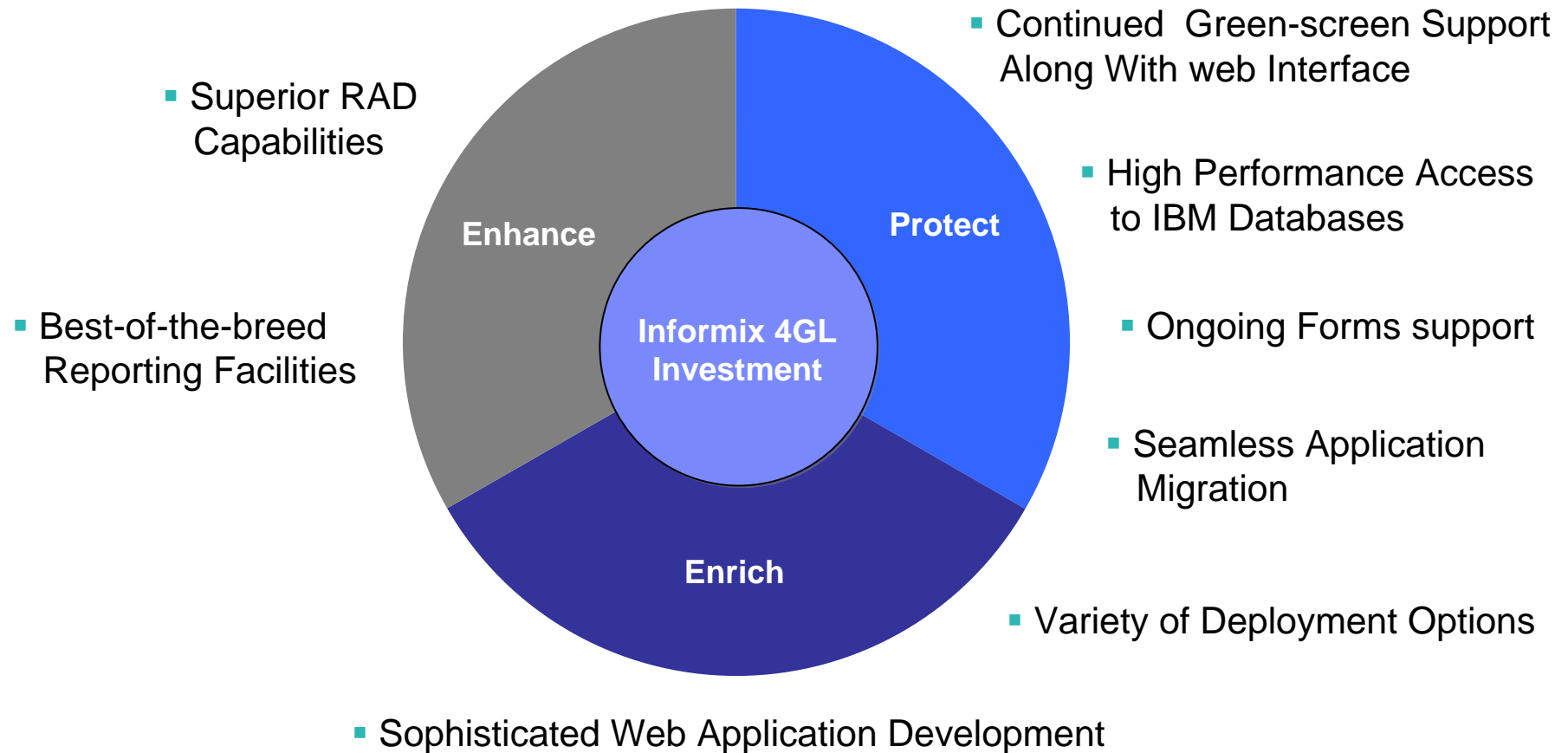- Enhanced printing support

2003

2004

2005

Our EGL Mission

- Leverage Existing 4GL Language Skills
]

- Superior RAD Capabilities

- Best-of-the-breed Reporting Facilities

Enhance

Protect

Informix 4GL Investment

Enrich

- Continued Green-screen Support Along With web Interface

- High Performance Access to IBM Databases

- Ongoing Forms support

- Seamless Application Migration

- Variety of Deployment Options

- Sophisticated Web Application Development

4GL Future Integration with WebSphere Studio

WebSphere Studio is…
- an industry leading IDE
- well integrated with WebSphere Application Server (WAS), the leading web app server in the world

4GL customers will get . . .
- web applications
- Windows platform
- open database connectivity
- context-sensitive EGL editor and debugger
- enhanced reporting
- continued text-based UI support
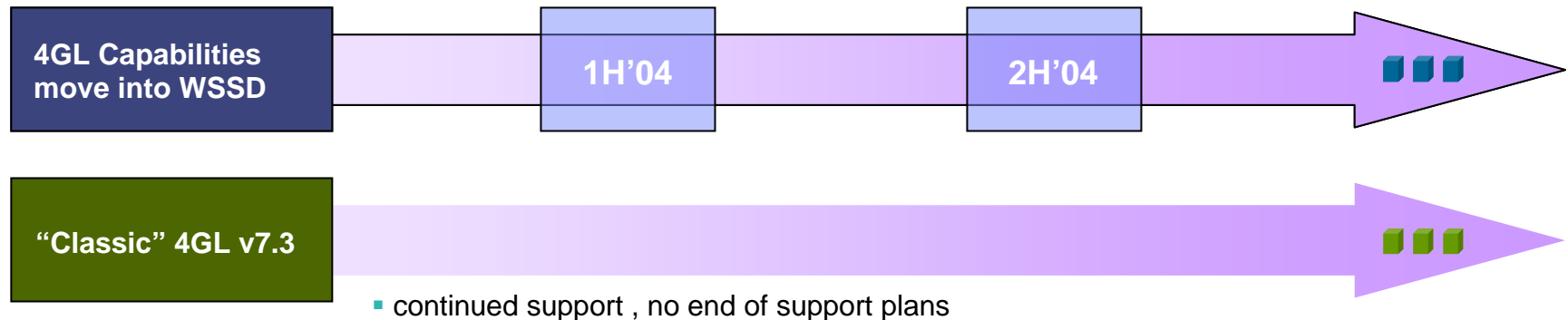
WebSphere Studio Site Developer V5.1.2
- A well-defined and easy to use IDE
- New web application development
- 4GL-syntax incorporated in EGL
- Connectivity to DB2 and Informix
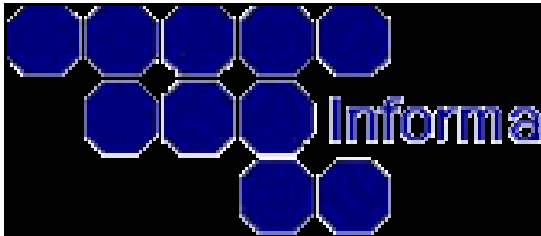- Develop new batch database programs

WebSphere Studio Site Developer V6.0
- Provide DB2 connectivity to migrated applications
- Develop new web applications using current I4GL business logic
- Develop new TUI applications or maintain existing ones
- Deploy on new platforms, including Windows
- Use enhanced reporting capabilities

4GL Capabilities move into WSSD → **1H'04** → **2H'04** →

"Classic" 4GL v7.3 →

- continued support , no end of support plans

2004

4GL Integration with WebSphere Studio - References

"…excited about the possibility of reusing our existing skills to create new web applications using Enterprise Generation Language (EGL). Our experience with EGL and WebSphere Studio has been very positive…"

"…We are very pleased with the new versions of WebSphere Studio products and fully endorse the Informix 4GL – EGL integration … that provides our customers opportunity to adopt the strategic IBM WebSphere and DB2 Information Management middleware platform, as well as opening the DB2 market to the Gillani solutions. "

Four J's Genero

- **Informix 4GL (I4GL) compatibility for non-Java/J2EE development and deployment capabilities**

- **"Compile once, run many"**
  - Run apps across NT, Linux and Unix

- **"One business logic fits all"**
  - enables your I4GL application for Windows, Motif, HTML, Java, MAC OSX
  - Powerful object-based XML user interface architecture
  - Dynamic User Interface can modify Forms in real time (security/translations)

- **Support for DB2 and Informix databases**

- **Genero Studio provides Graphical Editor, Debugger and Forms Designer**
- **Secure, scalable, n-tier architecture**
- **Deployed by Fortune 500 companies**
- **Unparalleled ROI**
- **Available from IBM**

Server Studio Java Edition (JE)

- **Server Studio JE is a set of system administration modules from AGS Ltd., that ships with IDS**
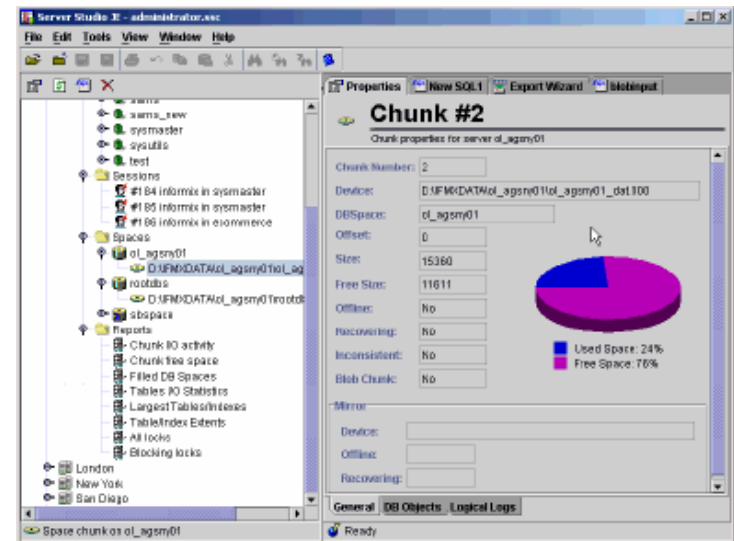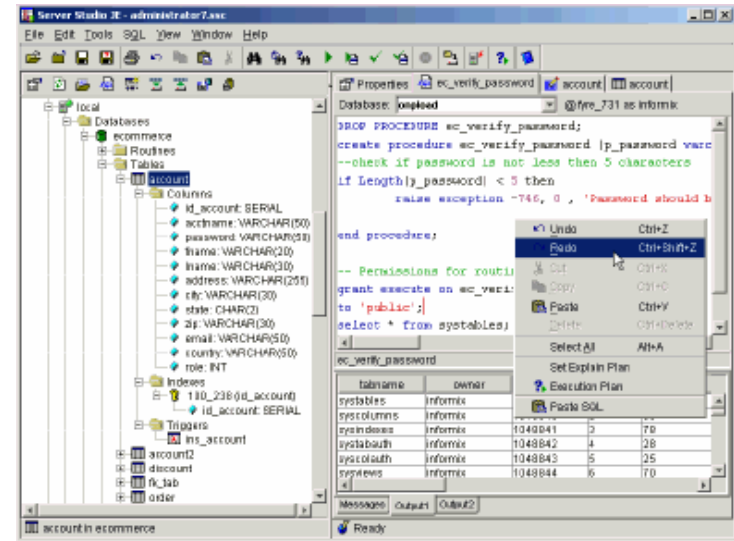 - ✓ Platform independent tool
  - ✓ Extensible
  - ✓ Fully multi threaded
- **Basic Modules shipped with IDS v9**
  - ✓ Object Explorer
  - ✓ SQL Editor
  - ✓ Table Editor

- **Additional Features and functionality are provided through add-on modules available for separate purchase directly from   AGS Ltd.**
  - ✓ www.serverstudio.com for current list of add-on modules

Topics

- **U2 Roadmaps**

IBM U2 Roadmap

IBM U2 databases continue to receive <u>feature and quality</u> updates

UniVerse:
Performance,
Security, Standards

10.1   11.1   .next

UniData:
Interoperability,
Security, Usability

6.1   7.1   .next

2003   2004   2005   2006   2007

U2 Highlights

UniVerse 10.1 Released

U2 Integration with WebSphere MQ

DM Technical Conference: Free Tutorials &
U2 Certification, Over 34 Sessions

Released SystemBuilder 5.3

Leverage IBM

benefits

Base OEM Contract with U2
Transaction Document

Increased Competitive Position of
SB+ with New Bundles

Continued Enhancement

U2 Loyalty

Supported Multiple Partner
Conferences

U2AskUs@us.ibm.com
U2Partners Extranet

Trade-Up pricing for MV Migrations

Launched U2BusinessConnect

for OEM Partners

UK VAR Council and AP

Who is choosing IBM U2?

Application
Document imaging, management and workflow system.

Business Benefits
Attract and retain a wide customer base due to ease of use and cost effectiveness of solution. Estimated saving of $100,000 per year or more in database administration costs; 30-40% reduction in time and cost for copying, distributing and filing paper reports

"There is simply no need for a database administrator in an IBM UniVerse shop. That's a saving of at least $100,000 per year in DBA costs, right off the bat."

Peter Anderson
Vice President and CTO
1mage Software, Inc.

IBM UniVerse Roadmap

UniVerse 10.0

Q1 2002
- JDBC
- XML
- SSL for CallHTTP, Sockets
- EURO Support
- File Based Triggers
- Server logging
- Enhance debugger

UniVerse 10.1

Q3 2003
- SSL for UOJ, Telnet, JDBC
- XML Schema
- XMLDB / DBXML
- XML DOM API
- SOAP Client API
- WebSphere MQ
- JDBC Scrollable Cursors
- Performance
- Customer Enhancements
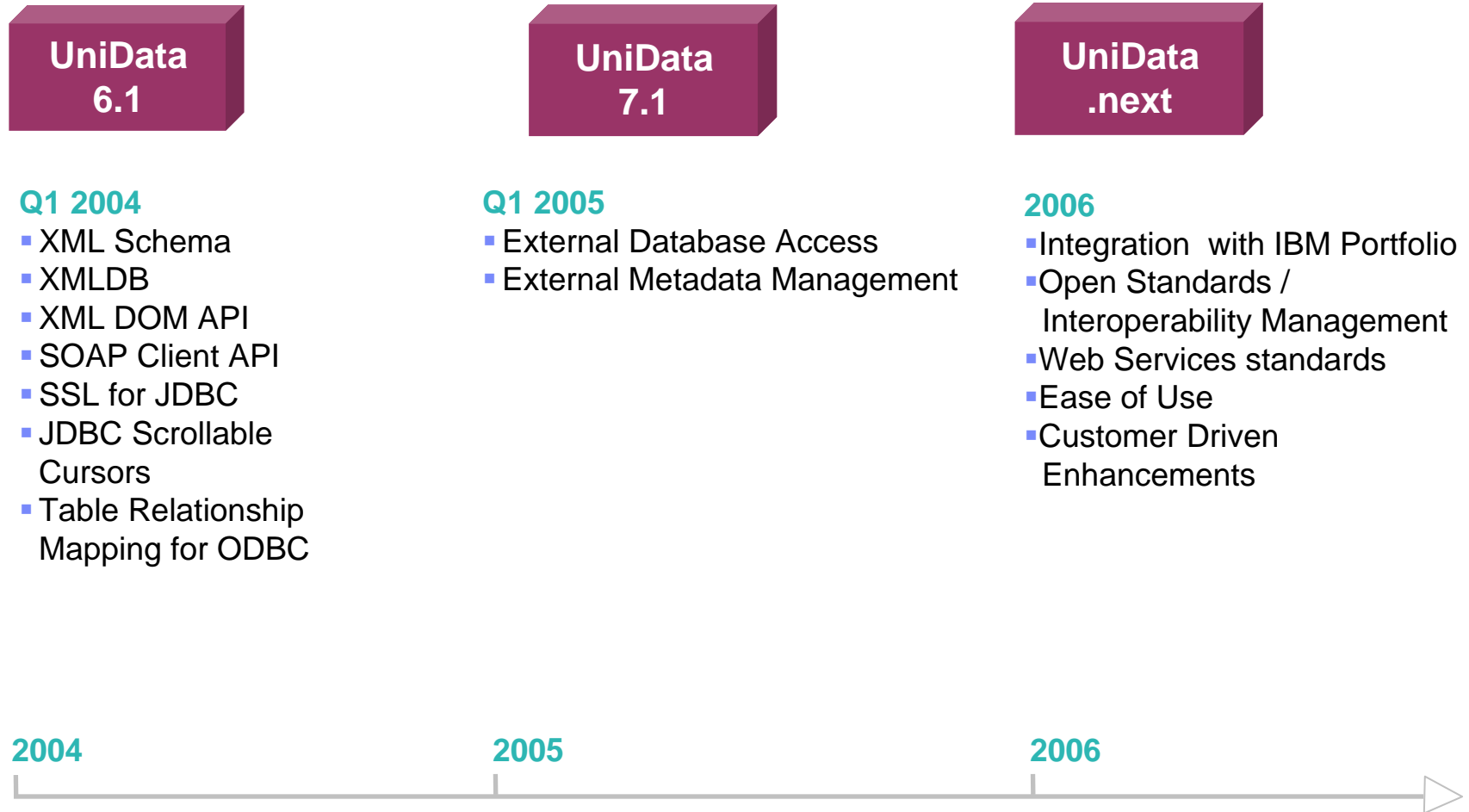
UniVerse 11.1

2006
- External Database Access
- External Metadata Management
- Enhanced .NET support
- Table Relationship Mapping
- Web Services standards
- Ease of Use
- Interoperability

2002   **2003**   **2006**

IBM UniData Roadmap

UniData 6.1

Q1 2004
- XML Schema
- XMLDB
- XML DOM API
- SOAP Client API
- SSL for JDBC
- JDBC Scrollable Cursors
- Table Relationship Mapping for ODBC

UniData 7.1

Q1 2005
- External Database Access
- External Metadata Management

UniData .next

2006
- Integration with IBM Portfolio
- Open Standards / Interoperability Management
- Web Services standards
- Ease of Use
- Customer Driven Enhancements

2004   **2005**   **2006**

U2 and IBM SWG Product Interoperability

U2 Product	IBM SWG Portfolio Product
UniData 6.0	WebSphere MQ 5.2 & 5.3
UniVerse 10.1	WebSphere MQ 5.2 & 5.3
RedBack 4.1	WebSphere Application Server 4x
RedBack 4.2 (Q2 '04)	WebSphere Application Server 5x
RedBack 4.1	WebSphere Studio, 4x Application Developer
RedBack 4.2 (Q2 '04)	WebSphere Studio, 5x Application Developer
SBClient 5.2.4	Lotus Notes R5

Researching: Future Integration with Tivoli Monitor, Privacy Manager and License Manager, etc.

Topics

- **Informix and IBM Product Integration**

IDS / DB2 Product Interoperability

Informix Product	DB2 Product
IDS 7.31/9.3/9.4	**DB2 Table Editor**
IDS 7.31/9.3/9.4	**DB2 Web Query Tool**
IDS 9.3/9.4	**DB2 Content Manager**
IDS 9.3/9.4	**DB2 Information Integrator**
IDS 9.3/9.4	**DB2 Office Connect**

XPS and Red Brick / DB2 Product Interoperability

Informix Product	DB2 Product
XPS 8.4/Red Brick	**DB2 Information Integrator**
XPS 8.4/Red Brick 6.2	**DB2 Warehouse Manager**
XPS 8.4/Red Brick 6.2	**DB2 Office Connect**
Red Brick 6.2	**DB2 Intelligent Miner**

IDS and IBM Software Group Products

WebSphere software

IDS 9.3, 9.4	WebSphere Application Server, v4.0. V5.0
IDS 9.3. 9.4	WebSphere Portal Server, V5.0
IDS 9.3, 9.4	WebSphere Studio Application Developer, V4.0 Web Services Object Runtime Framework
IDS 9.3, 9.4	WebSphere Studio Enterprise Developer, v.5.0

Tivoli. software

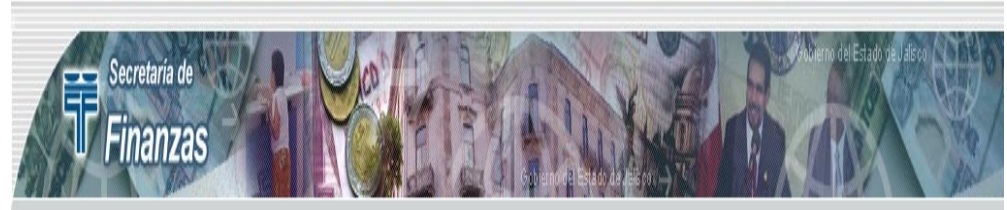| IDS 7.31, 9.3, 9.4	Tivoli Monitoring for Databases, V5.1.0
IDS 7.31, 9.3, 9.4	Tivoli Data Protection for Informix

Lotus software

IDS	Lotus Enterprise Integration (LEI) 6 / Domino 6

IDS + WebSphere

Flexibility, Options, Efficiency ⟹ Reduced Costs!

Secretaria de Finanzas Gobierno del Estado de Jalisco

- **Web-based tax collection system**
- **Needs: resiliency, 24x7 availability, ease of use, open standards**
- **Solution:**
  - Web portal based based on IBM WebSphere Application Server on Linux
  - IBM Informix Dynamic Server
  - IBM Informix SQL, ESQL/C, MaxConnect
- **Value:**
  - Significant cost reduction
  - More efficient tax collection
  - Convenience and speed lead to increased customer satisfaction
  - Current solution allows for future expansion

Informix – WebSphere Integration

WebSphere software

WebSphere Application Server
WebSphere Express
WebSphere Portal Enable
WebSphere Portal Extended
WebSphere Portal Express (multi-platforms)
WebSphere MQ Series
WebSphere Studio Site Developer
WebSphere Studio Application Developer
WebSphere Studio App. Dev. Integration
WebSphere Studio Enterprise Developer

Using Informix Dynamic Server with WebSphere

Informix Dynamic Server for Data Management

WebSphere for Web Application Development Productivity

Solution Integration and Easy Implementation

Chuck Ballard
Eduardo Akisue
Alexander Koerner
Martin Lurie
Pagadala J. Suresh

Redbooks
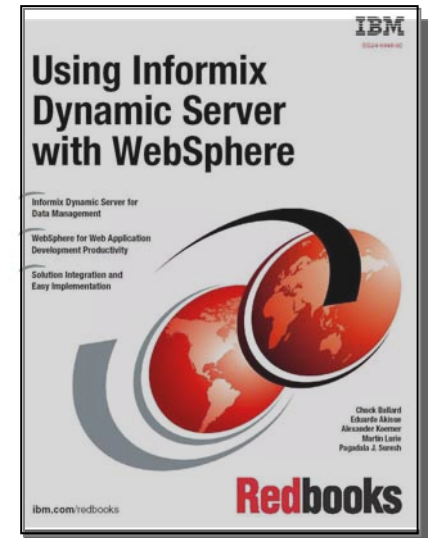
ibm.com/redbooks

The First IBM Informix Redbook**!**

- **Download at:** ibm.com/redbooks

- **Red**book ID: **SG24-6948**

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Informix and WebSphere Bundles

- **Extend Informix customers capabilities to the web**

  – Introduce IBM SWG products to their existing IT investment

- **Provide Informix customers a comprehensive e-business infrastructure**

  – A tightly integrated combination of Informix and WebSphere software that works together seamlessly

- **IBM Informix and WebSphere Enterprise Bundle**

  – IDS 9.4 Enterprise Edition Unlimited

    • Also available as Tradeup from IDS 7

  – WebSphere Application Server 5.0.2

  – WebSphere Application Developer 5.1

- **IBM Informix and WebSphere Workgroup Bundle**

  – IDS 9.4 Workgroup Edition

  – WebSphere Application Server -- Express 5.0.2

- **Attractively discounted bundle pricing**

  – Almost 25% off individual products
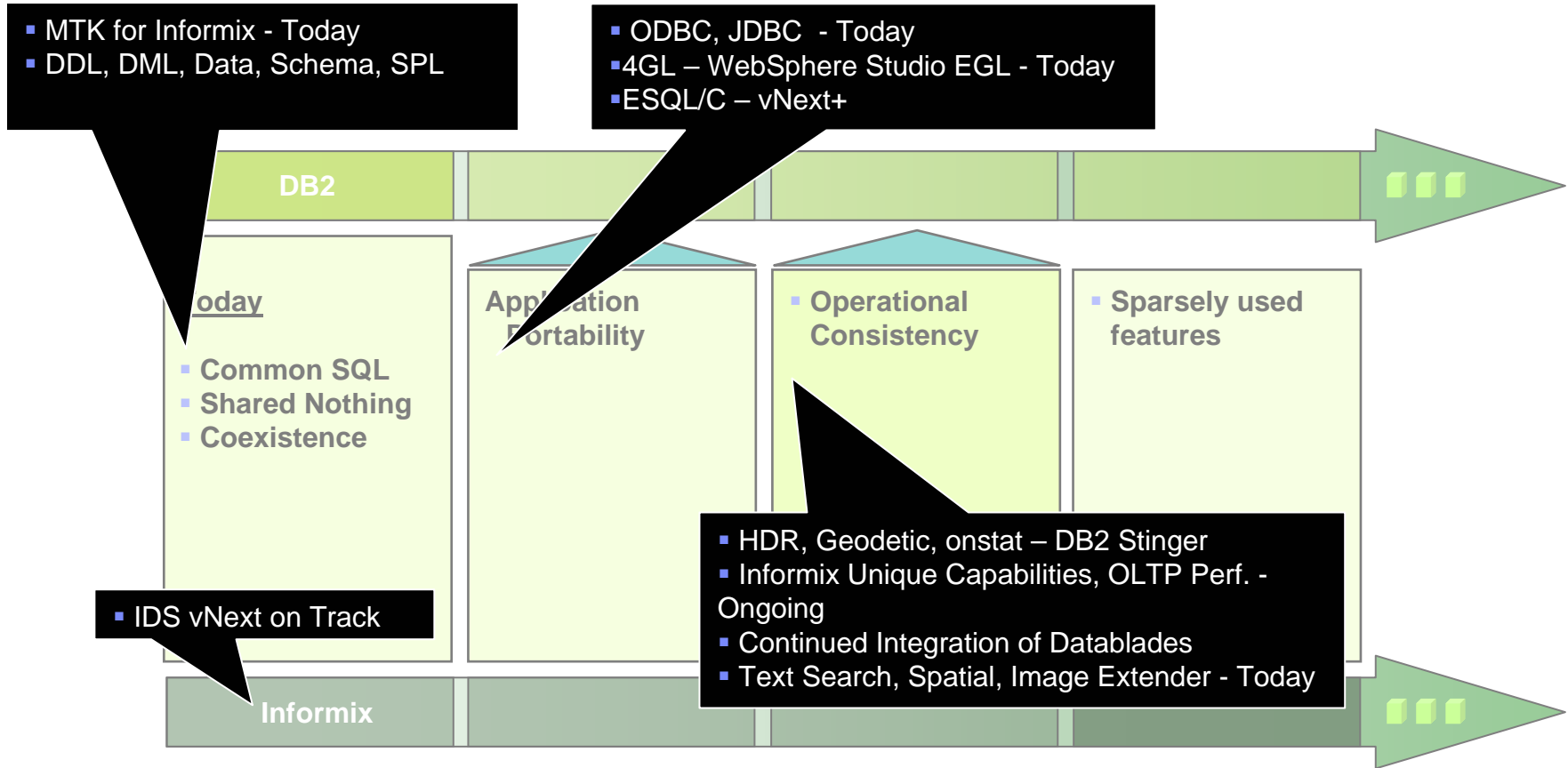
IDS + Content Manager

Information on demand ➡ Increase Revenue!

Real Estate Company Customer/Agent Portal Customer Focused Content Solution

Find Your New Home
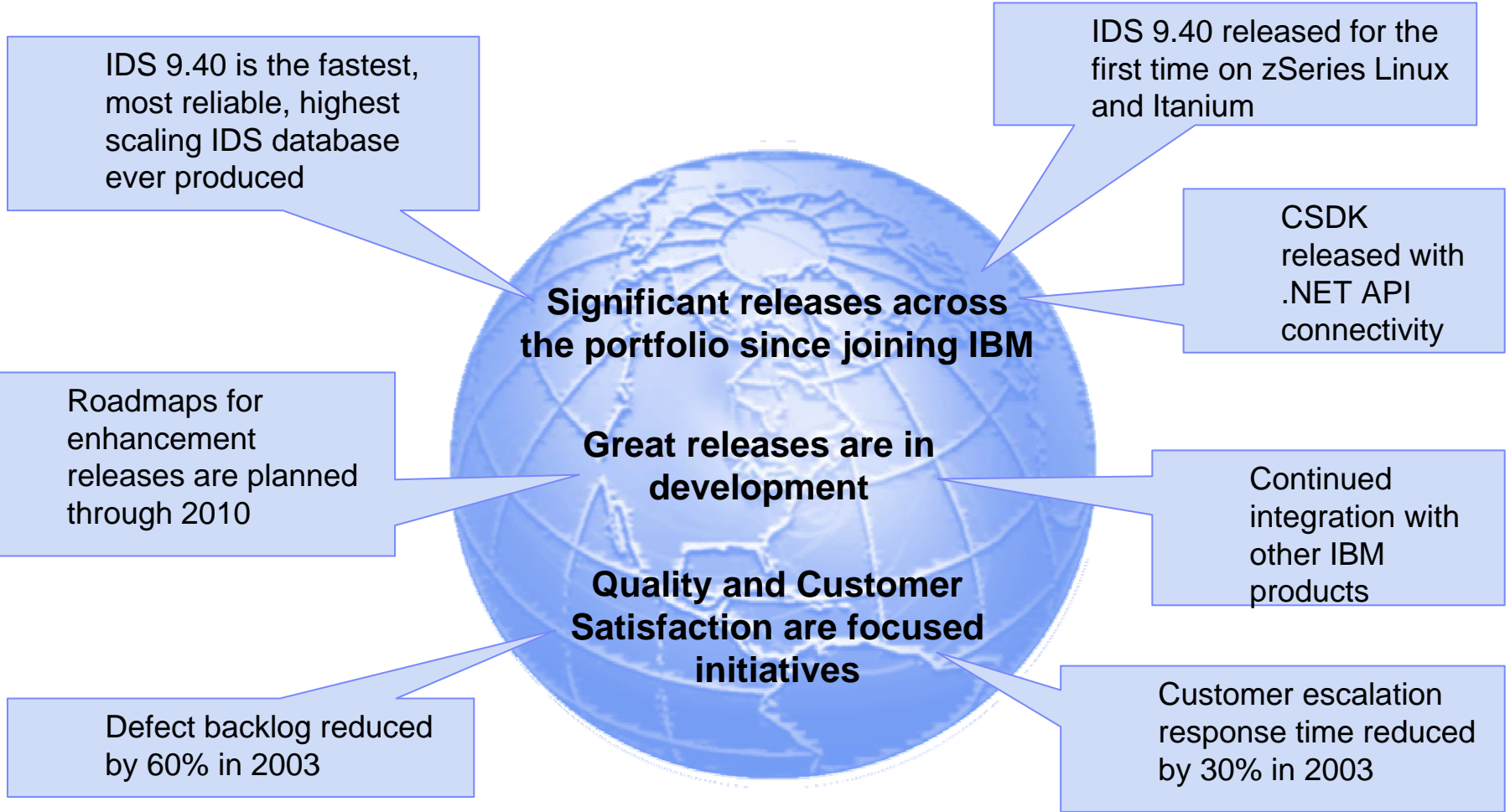Search Realtor Listings & Newspaper Classifieds

- **Web-based real estate information system**
- **Needs: Cost effective, 24x7 availability, ease of use, open standards**
- **Solution:**
  - Images and property information retained in IBM Content Manager
  - Brokers update buyers profile in Informix Dynamic Server
  - Leverage both systems providing the ability to search properties online
- **Value:**
  - Delight customers – faster response increase sales
  - Improve Broker productivity – reduce cost
  - Collaborate with trading partners
  - Leverage your Informix investment, increase sales and revenue, decrease cost

Informix – DB2 Compatibility

- MTK for Informix - Today
- DDL, DML, Data, Schema, SPL

- ODBC, JDBC - Today
- 4GL – WebSphere Studio EGL - Today
- ESQL/C – vNext+

DB2

Today
- **Common SQL**
- **Shared Nothing**
- **Coexistence**

Application Portability

Operational Consistency

Sparsely used features

- IDS vNext on Track

- HDR, Geodetic, onstat – DB2 Stinger
- Informix Unique Capabilities, OLTP Perf. - Ongoing
- Continued Integration of Datablades
- Text Search, Spatial, Image Extender - Today

Informix

Informix Customers Win with IBM

IDS 9.40 is the fastest, most reliable, highest scaling IDS database ever produced

IDS 9.40 released for the first time on zSeries Linux and Itanium

CSDK released with .NET API connectivity

Significant releases across the portfolio since joining IBM

Great releases are in development

Roadmaps for enhancement releases are planned through 2010

Continued integration with other IBM products

Quality and Customer Satisfaction are focused initiatives

Defect backlog reduced by 60% in 2003

Customer escalation response time reduced by 30% in 2003

Informix Customers are Staying with IBM

"…IBM is fulfilling its commitment(s) and promises to the Informix customer base. All evidence suggests the overwhelming majority of IDS users are happy....and have every intention of staying with the product for the foreseeable future."

"..the company's ISVs are successfully marketing their products built on top of IDS and, rather than diminution we can expect to see continued growth of the IDS customer base."

Bloor Research Briefing Note

Author: Philip Howard   August, 2003
http://www-3.ibm.com/software/data/informix/

IBM Advantage

- **Success and leadership in emerging markets**

- **Breadth of technology**

- **Thought Leadership focus ensures access to innovative technology benefits**

- **Corporate Policy of open standards and multiplatform support**

- **Corporate Integrity reflected in IBM values:**
  - dedication to every client's success
  - innovation that matters for our company and the world
  - trust and personal responsibility in all of our relationships

- **Proven longevity in a turbulent market**
  - 2003 record revenues of $89.1 billion, up 10 percent year-to-year
  - IBM has continued to invest heavily in R&D, in skills, in new companies

ON DEMAND BUSINESS™

Why IBM?

- IBM continued to be the leading vendor in DBMS new license revenue in 2003, with a total of 37.6% market share (Gartner Dataquest 2003 report on marketshare for the database industry)

- IBM has wide Support for Open Standards

- IBM Service & Support

Informix @ IBM – *The Power of IBM !*

- **Informix is IBM**

- **Focus on continued product development**

- **Integration with IBM software products**

- **Informix and IBM is a winning team!**

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Websites for More Information

- **IBM Software**

  – ibm.com/software

- **IBM Information Management Software**

  – ibm.com/software/data

- **IBM Informix family home page**

  – ibm.com/informix

- **Information Management Today Newsletter**

  – ibm.com/software/data/db2infonews/

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