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MQSeries Family Update

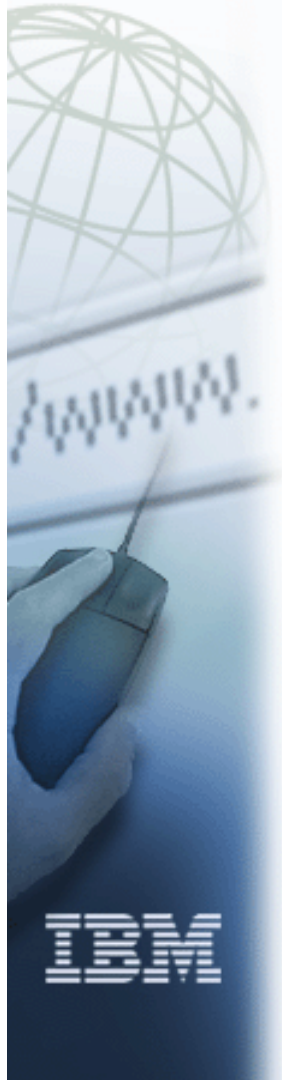
ITUG/DECUS 2001 Lisbon

8 May 2001

Neil Postlethwaite
MQSeries Development
IBM Hursley
Email: Neil_Postlethwaite@uk.ibm.com

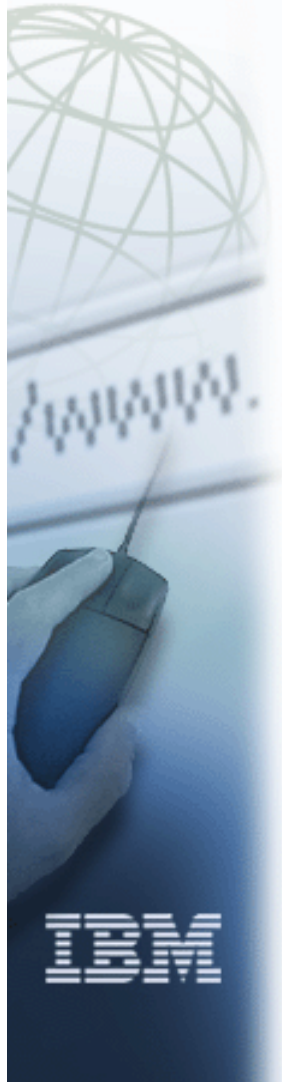


Business Process Management@work





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Agenda

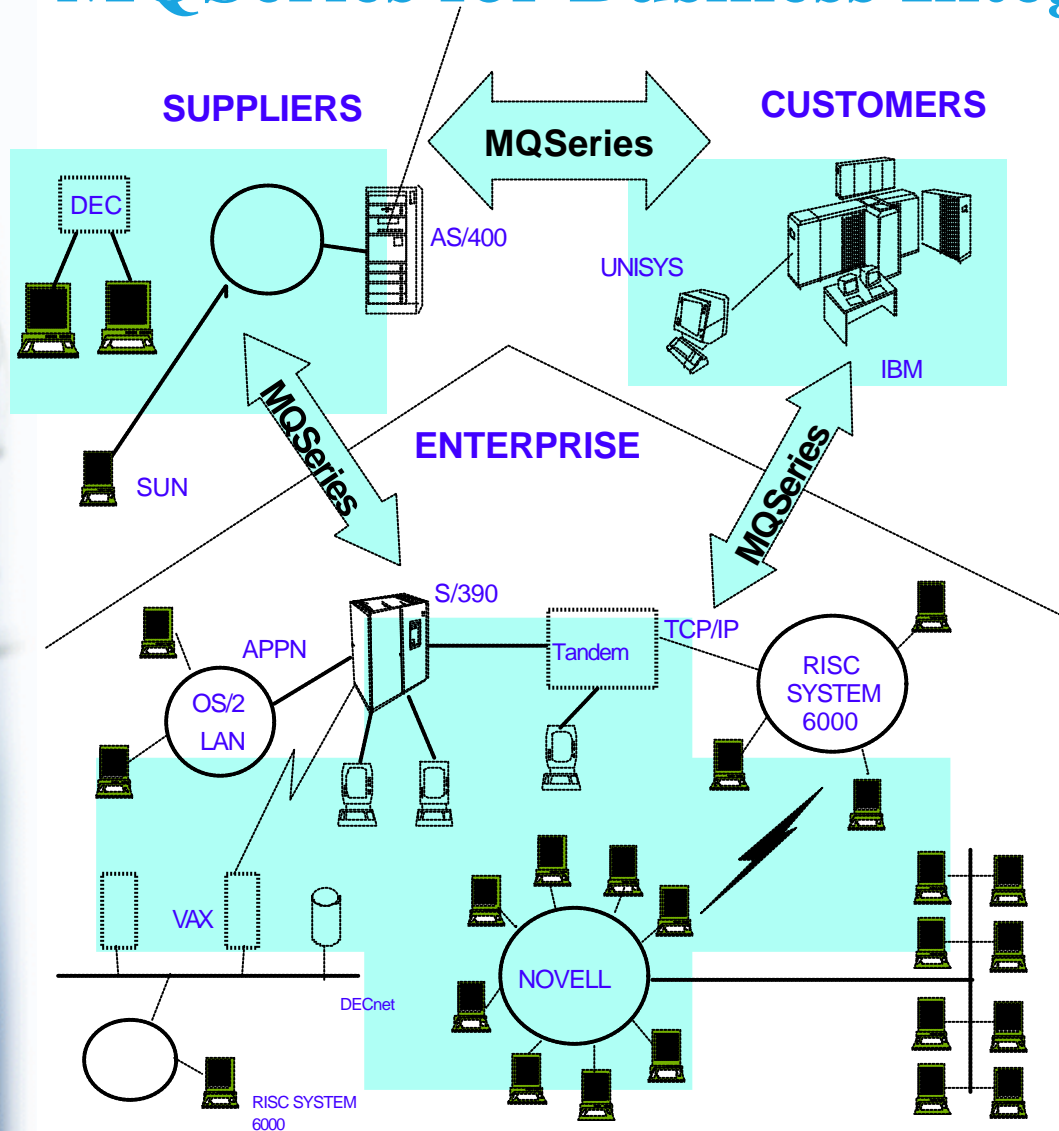
- ➔ ■ **MQSeries Background**
 - ▶ MQSeries Basics
- MQSeries for Compaq platforms
 - ▶ MQSeries for Compaq NonStop Kernel
 - ▶ MQSeries for Compaq OpenVMS
 - ▶ MQSeries for Compaq Tru64 UNIX
 - ▶ MQSeries for Microsoft Windows NT
- MQSeries Family
 - ▶ MQSeries Integrator
 - ▶ MQSeries Everyplace
- Q & A

Integration@work



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MQSeries for Business Integration



Link Islands

- Improve Productivity
- Improve Efficiency
- Improve Customer Service
- Reduce Costs
- **B2B**

Economics@work



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Asynchronous Middleware Features

3. Time Independent . .

- Overlapped (parallel) operations
- Freedom from partner program availability

2. Shielding Developers . .

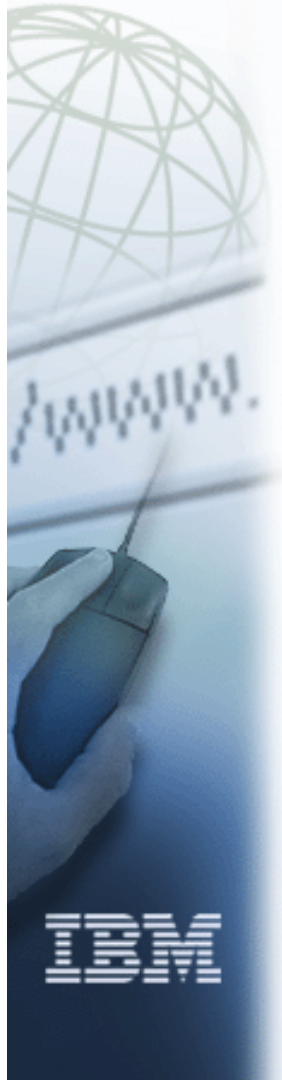
- Concentration on business applications
- Communication protocol independence
- Fewer network connections

4. Robust Middleware . .

- Improved programmer productivity
- Assured message delivery and message recovery

1. One Interface . .

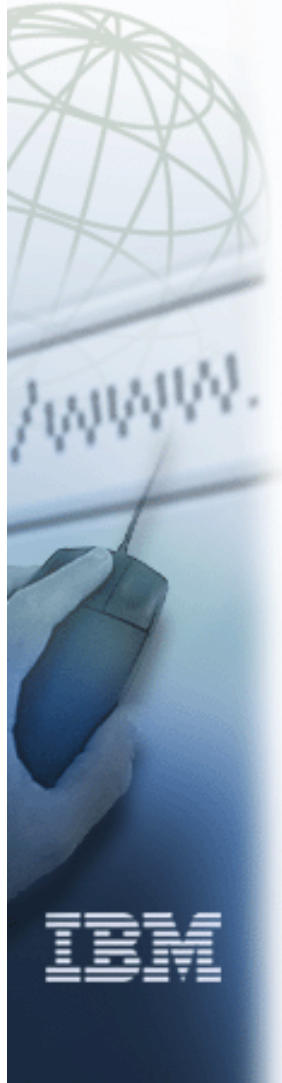
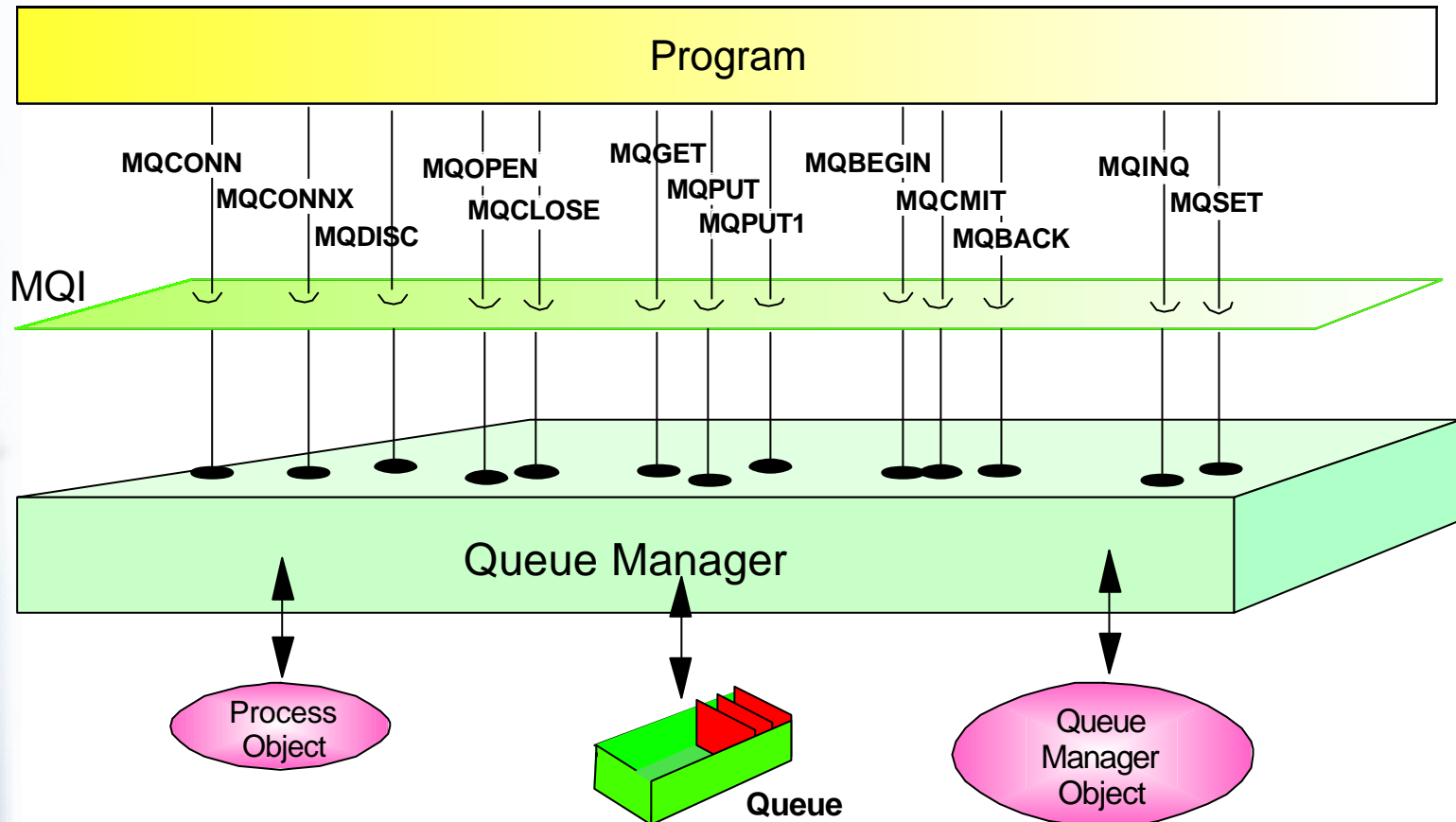
- Application Portability
- Easier cross-platform communication





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MQI - Messaging and Queueing API





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MQSeries - Today

- Commercial Message Oriented Middleware
 - Asynchronous Application <-> Application connectivity
 - Simple API (MQI - Message Queue Interface)
 - Over 35 supported operating systems
 - Assured once only message delivery
 - Defacto Standard
-
- 70+% w/w market share in messaging engines in 2000
 - 7000 customer sites
 - 60% of North American and European banks use MQSeries

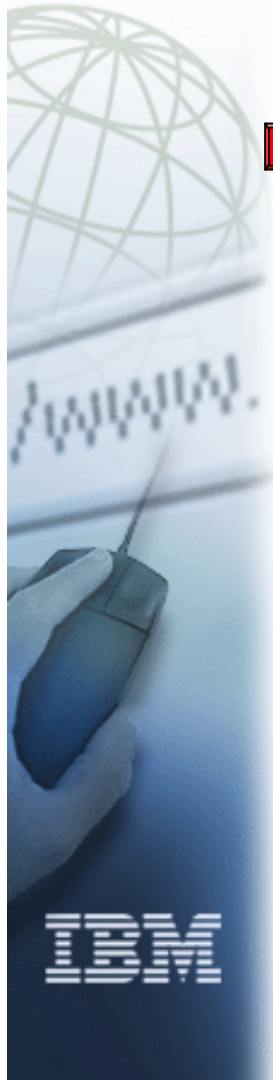
IBM

MQSeries
Commercial Messaging

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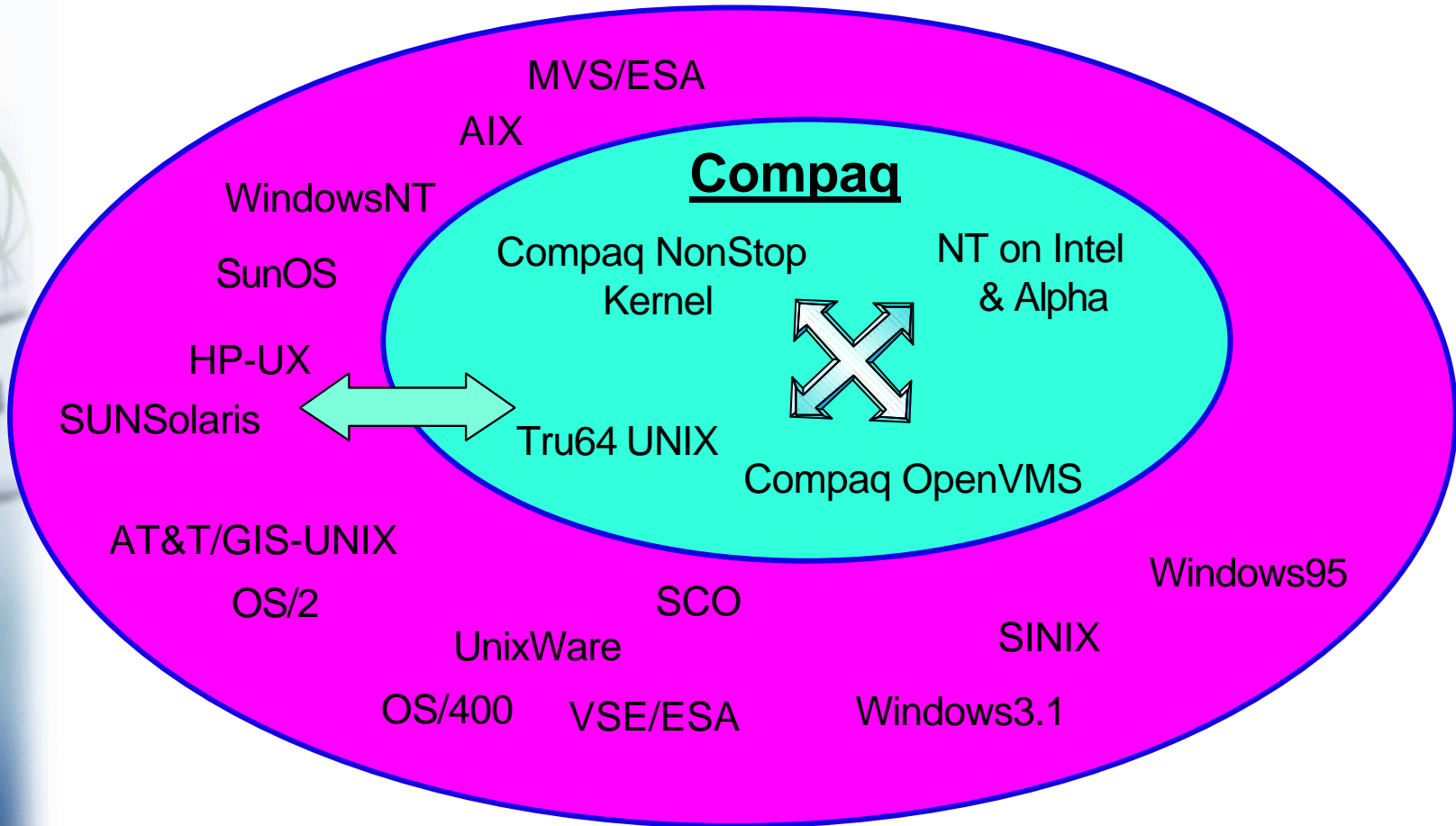
- MQSeries Background
 - ▶ MQSeries Basics
 - ▶ **MQSeries for Compaq platforms**
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MQSeries for Compaq Platforms



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MQSeries for Compaq NonStop Kernel Version 5 Release 1

- MQSeries Clusters
- True non-persistent messaging
- Performance / efficiency enhancements
- Queue Server process for message storage management
- V5.1 MQSeries API (MQI)
- Scalable Product Architecture
- S-Series ready, Native code
- OSS, Java & C++ support introduced
- **Announced Tuesday, GA end of June 2001**



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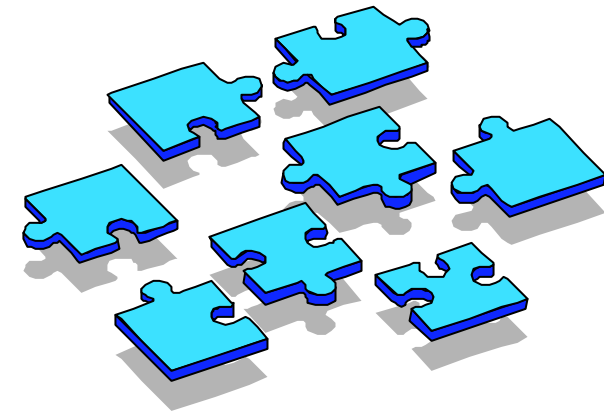


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V5.1 NSK - Release Highlights

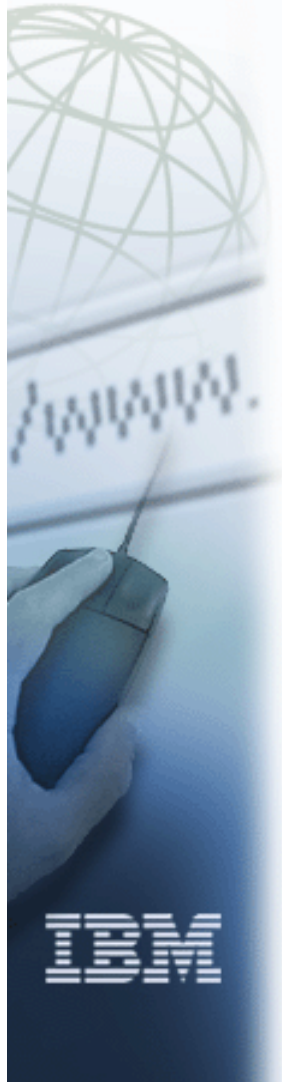
- Major upgrade to MQSeries functionality, from V2.2 to V5.1
- Significant performance enhancements
- NSK specific simplifications
- Remote messaging fault tolerance improved
- Better use and support of OS resources
 - ▶ Native code, OSS support, shared memory segments



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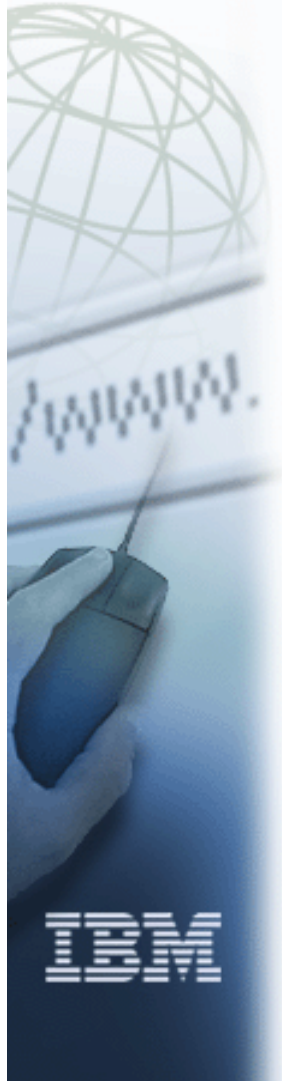
V5.1 NSK - MQSeries Functionality

- MQSeries Clusters (fault tolerance & scalability)
- Large Message support (100MB)
- Large Queue support (2GB)
- Enhanced MQI - all V5.0 & V5.1 options now supported
- C++, OSS & Java application support

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V5.1 NSK - Performance Enhancements

- Memory based messaging
 - ▶ non-persistent messages held purely in memory
- Queue Server processes
 - ▶ manage MQPUT/GET operations for queues
 - ▶ provide new MQ V5.1 functionality
 - ▶ Scalable NonStop process pairs
- Status Server now serves channels
- Disk Storage enhancements for large messages
- OpenTMF efficiency for request / response messaging



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V5.1 NSK - Ease of Use

- RUNQSC now supports FC command recall !
- Altmqfls now supports message storage management options
- MQMC SCOBOL panels updated for V5.1 MQ functionality

V5.1 NSK - Remote Messaging



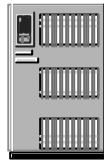
- Multiple TCP/IP process per queue manager support
- SNA listener functionality implemented
- Channels now support heartbeats and automatic channel definition

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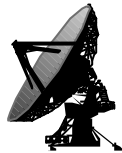


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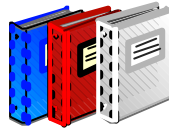
NSK V5.1 - Environment



D45 or later D4x, G06 or later G0x



TCP/IP and SNAX from Tandem
Insession's ICE



TM/MP (TMF) - persistent message logging, data
integrity



Enscribe - persistent message queue storage



TS/MP (PATHWAY) - restartability



C, Cobol, TAL, Java, C++, OSS

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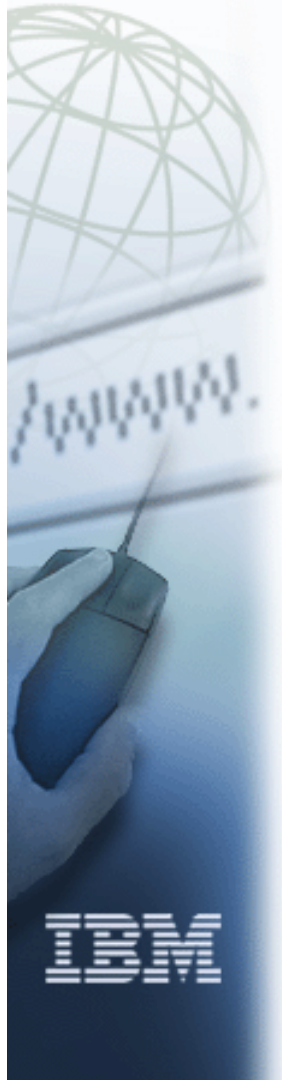
MQSeries on Compaq NSK at Tegut GmbH

- 400 branches
- Previous solution
 - ▶ Batch transmission
 - ▶ Fixed schedule, outside business hours
- Platforms:
 - ▶ MQSeries for Compaq NSK V2.2.0.1
 - ▶ MQSeries for Windows NT
- Business benefits ...



Thanks to MQSeries, data on Tegut's operations is captured and updated constantly and thus provides the most current information on inventory turnover, new orders and more. Wolfgang Mueller explains, "With MQSeries, we are able to track the movement of goods or identify product demand immediately."

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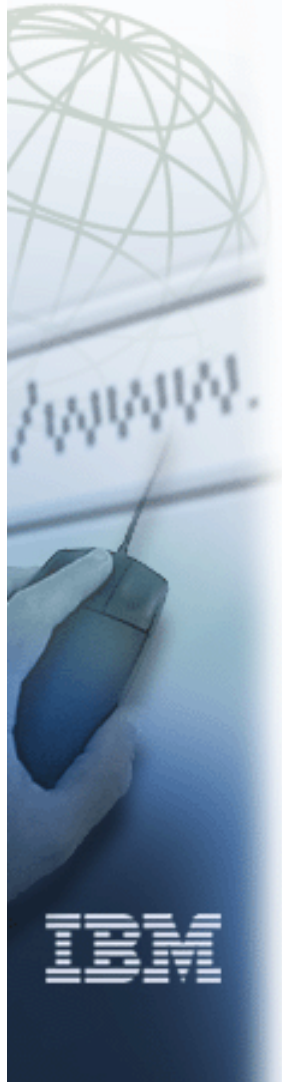
MQSeries for Compaq OpenVMS Alpha Version 5 Release 1

- MQSeries Clusters
- VMS Cluster support
- V5.1 MQSeries API (MQI)
- Oracle support
- Java & C++ support introduced
- VMS V7.3 support



- **Announced Tuesday, GA end of May 2001**
- V2.2.1.1 remains available on VAX

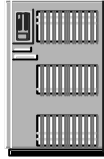
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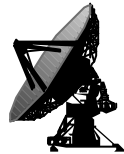
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MQSeries for Compaq OpenVMS - V5.1 Environment



OpenVMS 7.2-1, 7.3 (Alpha)

OpenVMS 6.2 or later 6.x, OpenVMS 7.1 & 7.2
(VAX)



TCP/IP

Compaq TCP/IP Services (UCX) V5.0.a & V5.1

Process Software's Multinet V4.3

Process Software's TCPWare V5.4

SNA

DECnet SNA Gateway

DECnet

DECnet OSI



C, Cobol, Java, C++

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MQSeries for Compaq Tru64 UNIX

- Version 5 Release 1
 - ▶ MQSeries Clusters
 - workload balancing / availability
 - ▶ Large messages / queues
 - ▶ Distribution Lists
- MQSeries Link for R/3 for Compaq Tru64 UNIX
 - ▶ Enables SAP R/3 integration
- MQSeries with Compaq TruCluster for High Availability

- **Now supports Tru64 UNIX V5.1**



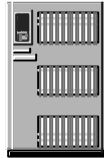
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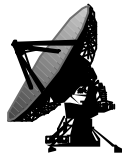


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MQSeries for Compaq Tru64 UNIX - Environment



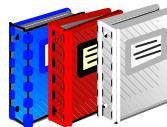
Digital UNIX V4.0.D, 4.0.E,
Compaq Tru64 UNIX V4.0.F, 4.0.G
Compaq Tru64 UNIX V5.0, V5.0.a, **V5.1**



TCP/IP supported as part of base OS
SNA Peer Server



C, C++, Cobol, Java



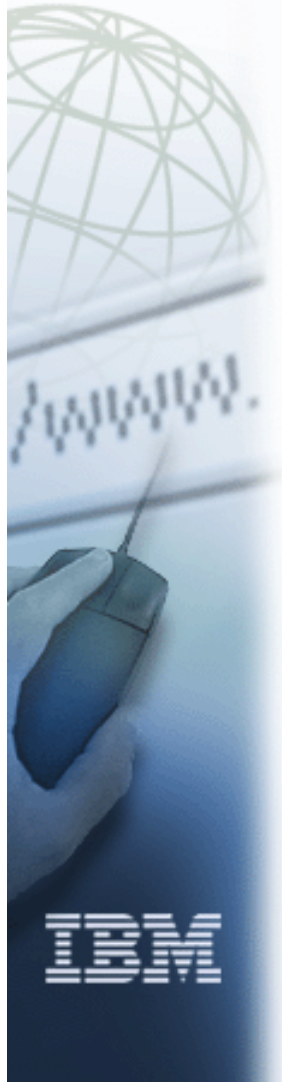
Oracle & Tuxedo support

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MQSeries for Windows NT/2000

- Designed for Microsoft Windows NT
 - ▶ Tight integration with MMC (Microsoft Management Console) and ADSI
 - ▶ COM support for the MQI
 - ▶ Full Windows NT userid support
 - ▶ Supports and exploits Windows 2000
 - ▶ BackOffice & **Windows 2000 Certified**

- GUI for installation / configuration
- AMI, JMS support
- MSCS (Wolfpack) support
- **Version 5 Release 2.1**

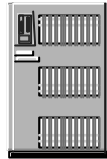


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MQSeries for Windows NT - Environment



Windows NT V4, SP3, SP4, SP5, SP6a
Windows 2000



TCP/IP, NetBios, SPX
SNA

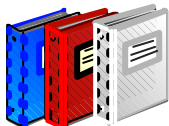
IBM Communications Server, Microsoft SNA Server
Attachmate Extra! Personal Client



IBM TXSeries for Windows NT
BEA Tuxedo

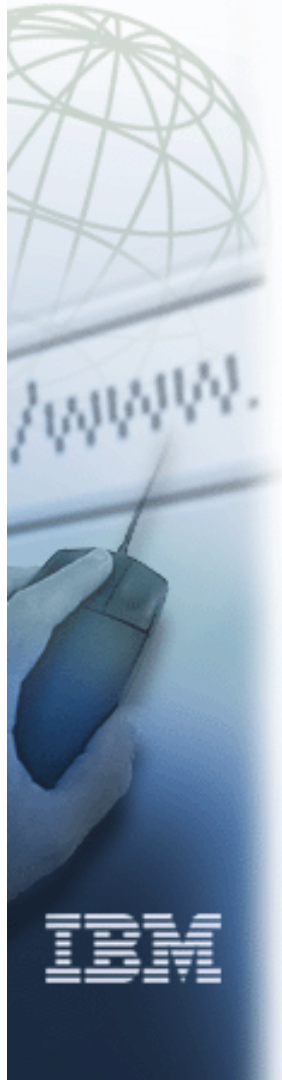


C, Cobol, PL/1, Java, VB



DB2 Universal Database, Sybase

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Agenda

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Knowhow@work



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May 8th Announcement Content

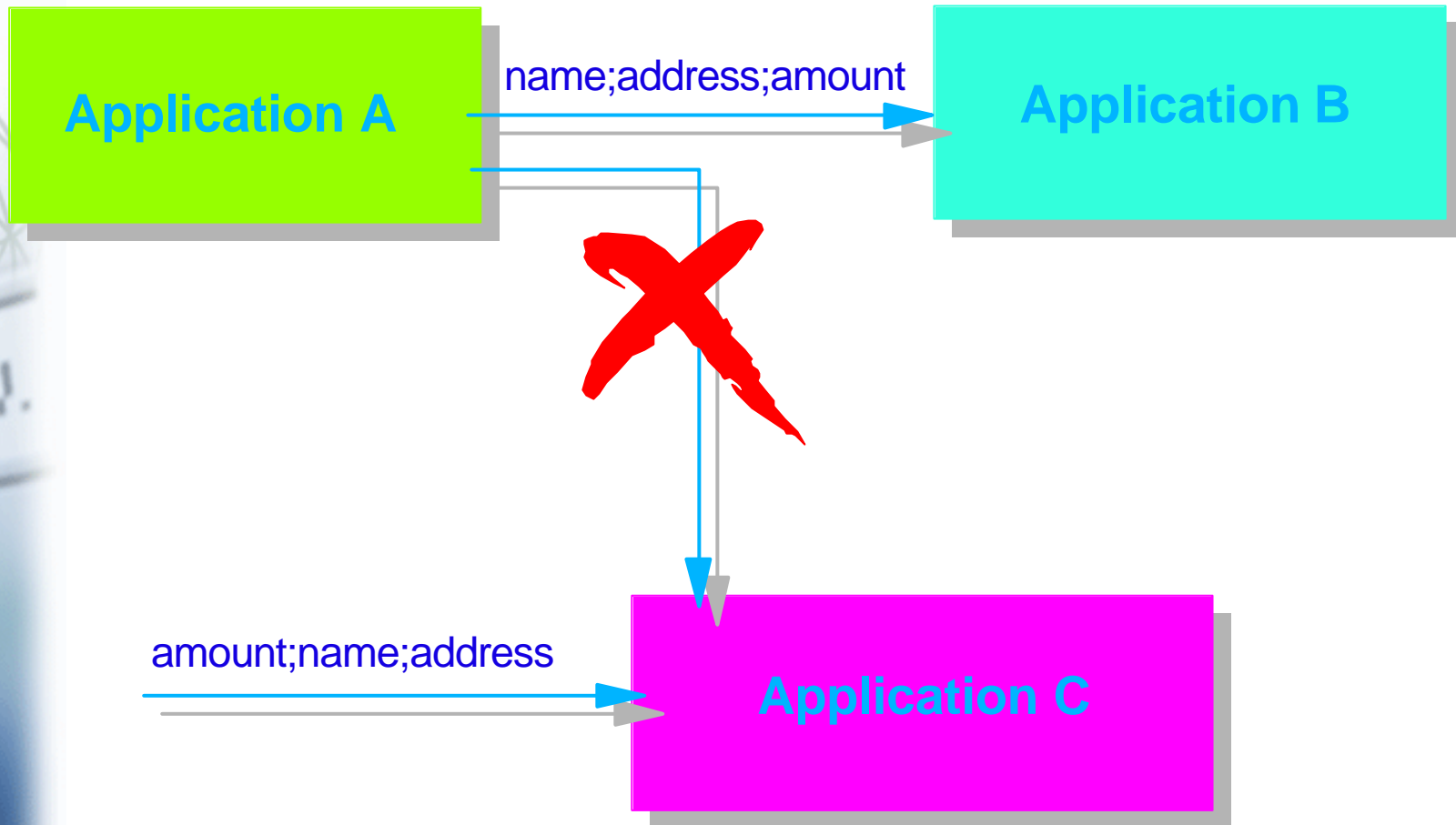
- MQSeries Integrator V2.0.2
- MQSeries for Windows NT/2000 V5.2.1
- **MQSeries for Compaq OpenVMS V5.1**
- **MQSeries for Compaq NonStop Kernel V5.1**
- MQSeries EveryPlace V1.2
- MQSeries WorkFlow V3.3
- MQSeries Link R/3 for OS/390
- WebShere Business Integrator V2.1
- WebSphere Partner Agreement Manager V2.1
- WebSphere Adapters

Future@work



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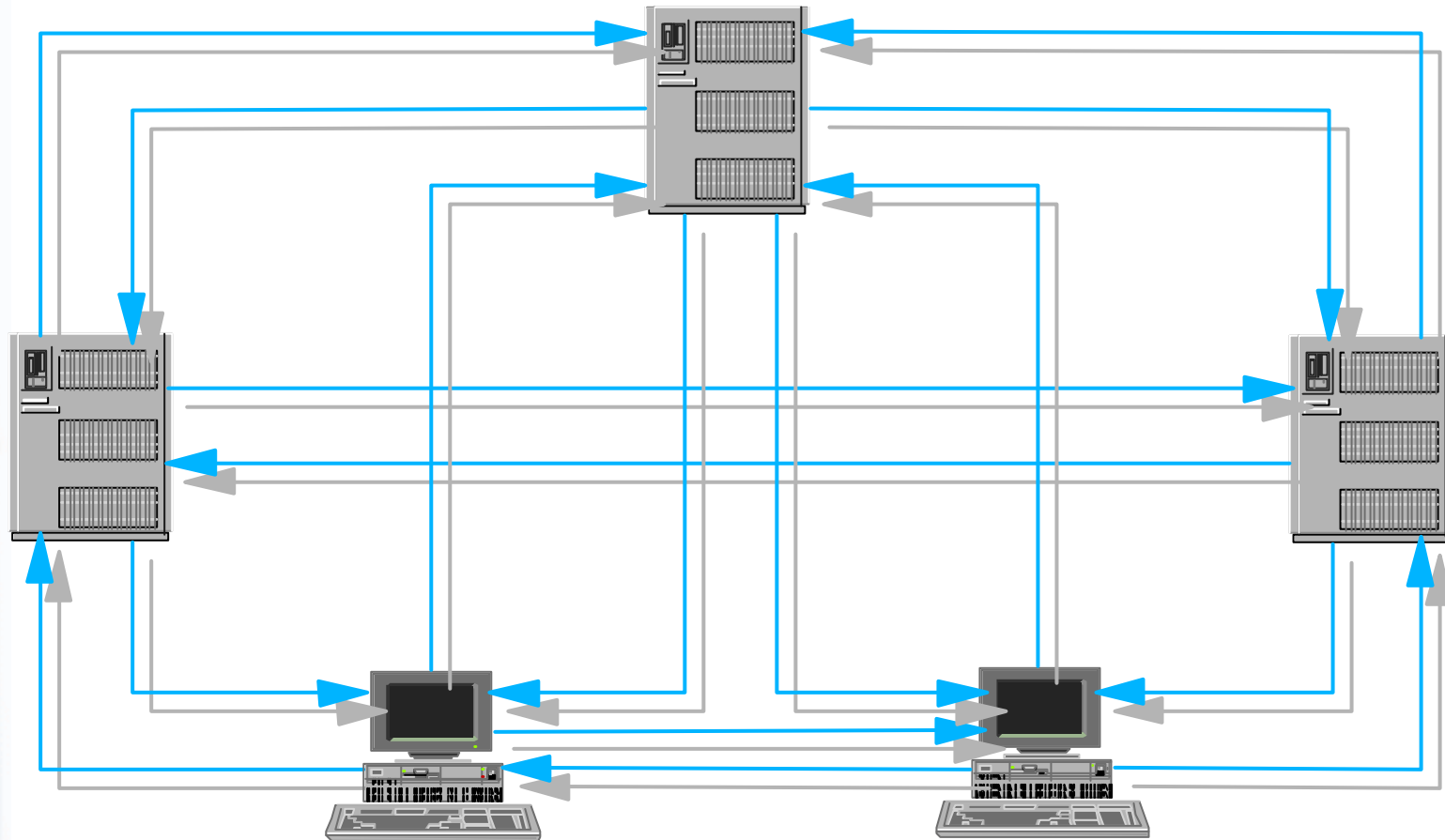
Incompatible Message Formats





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Point-to-Point Links -> Complexity



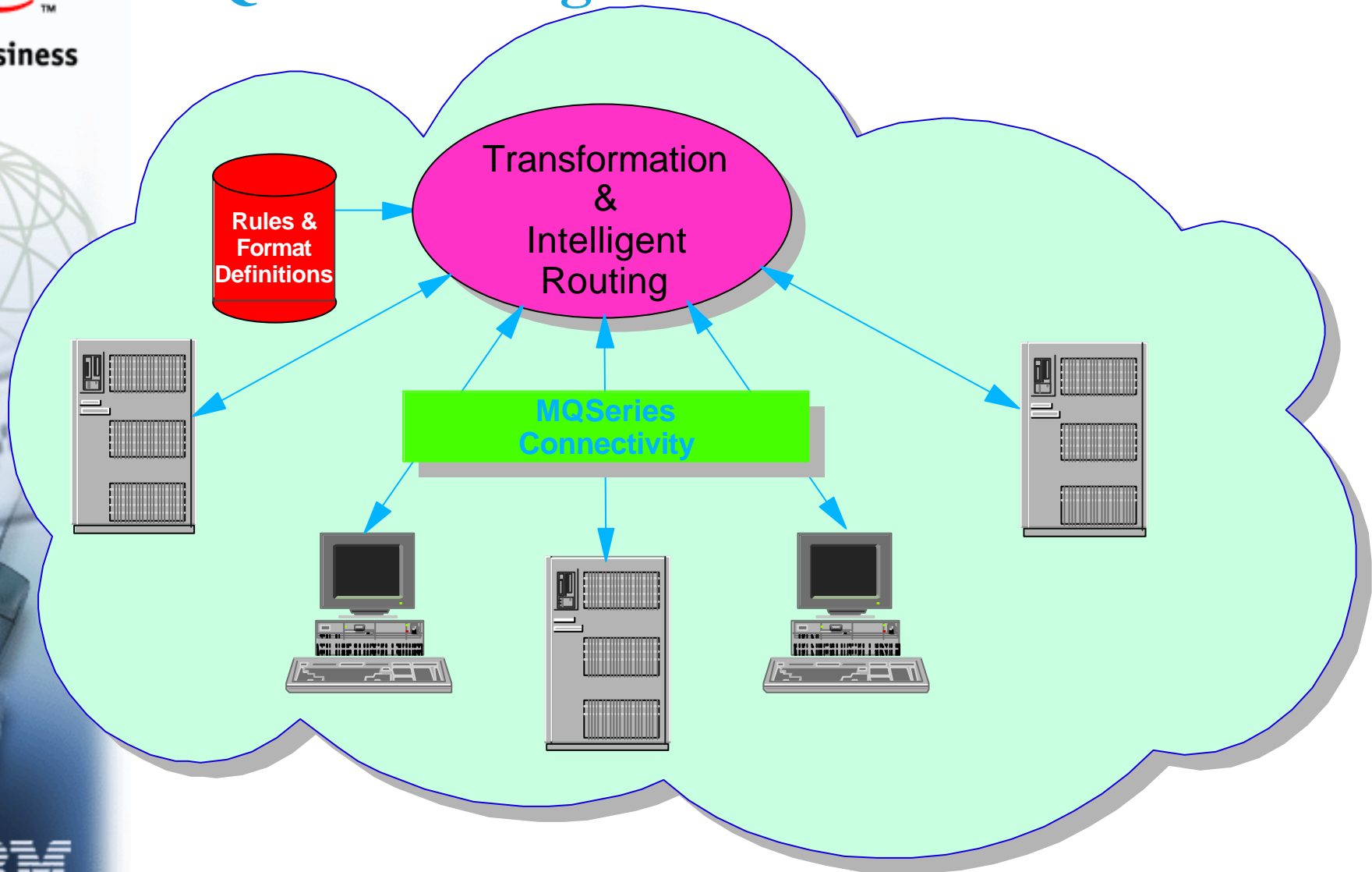
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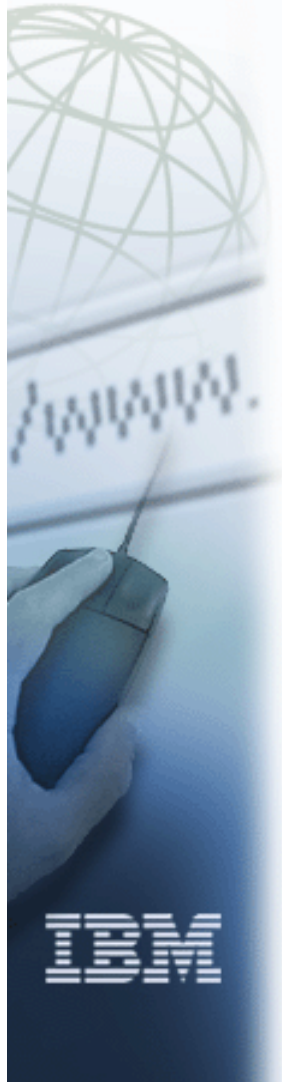
MQSeries Integrator



Knowhow@work



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MQSeries Integrator V2.0.2

- Support for new DB & OS levels, including:
 - ▶ Oracle 8.1.6 & 8.1.7
 - ▶ DB2 V7.1
- Support for the HP-UX platform
- Performance enhancements
- MRM enhancements
- NLS enablement
- New level of NEON engine

- **available May 11th (NT/2000), early June (other platforms)**

Integration@work



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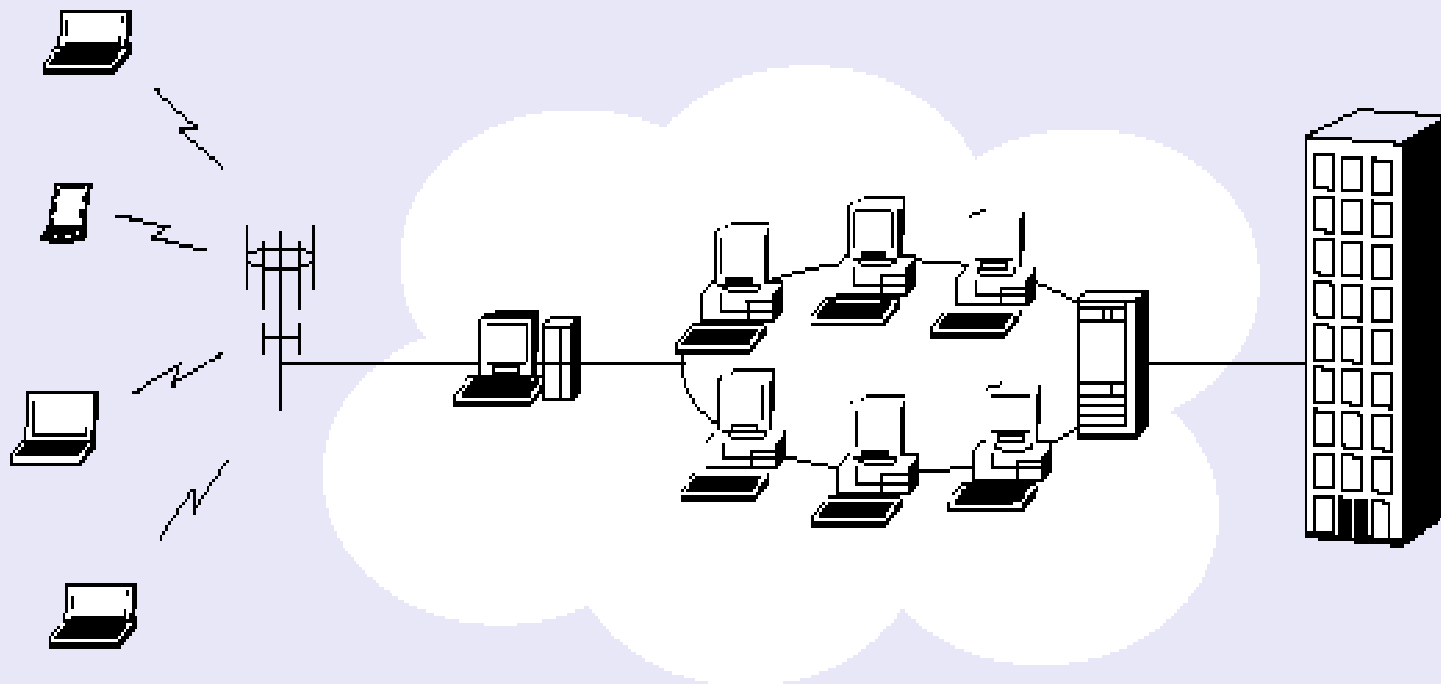
MQSeries Everyplace

People@work

People

MQSeries
network

Corporate data
and applications



People@work



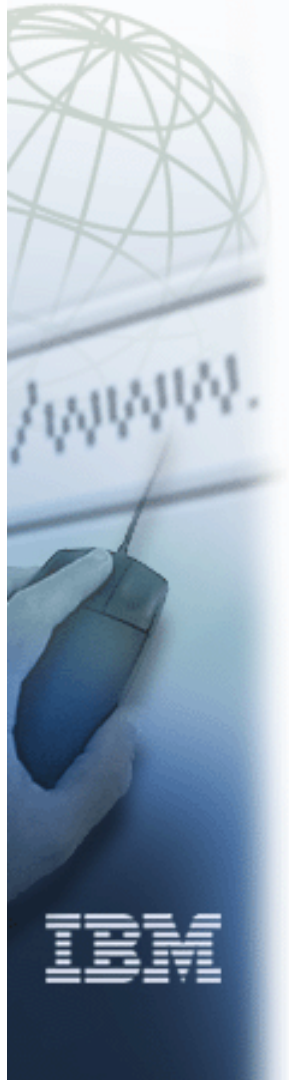
MQSeries Everyplace V1.2

- New Input node to MQSeries Integrator
- Direct support for HP-UX and Linux
- MQSeries EveryPlace Retail Edition (4690 users)
- Simplified pricing model

- AIX V4.3, Solaris V7/8, HP-UX 11
- Windows NT/2000/98/95/ME
- Linux Intel Kernel V2.2, Linux for S/390
- EPOC 32 (on 5MX or NetBook)
- PalmOS V3.0 or higher on PalmV or IBM Workpad C3

- Windows CE (on HP Jornada 680 or 820)

People@work





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MQSeries the Industry

- Links into many environments
 - ▶ SAP R/3 Link
 - ▶ CICS Bridge
 - ▶ IMS Bridge
 - ▶ Lotus Notes
 - ▶ Databases, ...
- Over 300 Business Partners developing applications
 - ▶ Details in Business Partner directory
- Systems Management tools
 - ▶ Monitoring, deployment and configuration of MQSeries networks
- MQSeries application development tools
 - ▶ Ease embedding MQI calls into applications
- MQSeries the **transport of choice** for application vendors

Business Process Management@work



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Further Information



- ITUG/DECUS 2001
 - ▶ Neil Postlethwaite, David Roper at the IBM booth
 - ▶ This presentation will be available on the MQSeries web site
- MQSeries home pages
 - ▶ <http://www.software.ibm.com/ts/mqseries>
- Service & Support pages
 - ▶ <http://www.software.ibm.com/ts/mqseries/support/>
- MQSeries Support Pacs
 - ▶ <http://www.software.ibm.com/ts/mqseries/txppacs/>

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