

The IBM 4690 Operating System

IBM Retail Store Solutions

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4690 Platform

- Designed for Retail Environment
- System of Choice for many market leaders
- IBM strategic Operating System for Retail
- Platform for future development

4690 Operating System - Highlights

- Reliability
- High Performance
- Multi-tasking
- Multi-user
- Communications
- Serviceability
- Vitality

4690 Operating System

- Reliability
 - Proven, Stable Operating System
 - Continuous operation
 - Multiple Controllers
 - Offline capability
 - Data Integrity
 - Mirrored file capability
 - Guaranteed data writing
 - Security
 - Multi-level authorization
- Benefits
 - Always available
 - Enhanced customer service
 - Protecting most critical data in retail business

4690 Operating System

- High Performance

- Architected for performance
- Rapid price lookup
 - Keyed files
- Checkout prioritization
 - Pre-emptive dispatching
 - Task switching

- Benefits

- Improved customer service
- Faster Checkout

4690 Operating System

- Multi-tasking

- Multiple concurrent applications
- Prioritization set by user
- Protected processing

- Benefits

- Increased operating efficiency
- Business process improvement
- Improved customer service
- Maximize system investment
- Complex processing capabilities

4690 Operating System

- Multi-user

- Multiple remote consoles
- Multiple printers
- Terminals all access server data

- Benefits

- Reduced cost
- Business process improvement
- Improved customer service
- Data available where needed

4690 Operating System

- Communications

- Terminal Connectivity
 - Ethernet
 - Token-Ring
 - Store Loop
 - Wireless
- Async
- SDLC
- X.25
- NetBios
- TCP/IP (Feature)
- 3270 Emulation
- SNA

- Benefits

- Share data across enterprise
- Data accessible from other in-store systems
- Connectivity to multiple platforms with Industry Standard protocols
- Improved customer service
- Reduced systems cost

4690 Operating System

- Serviceability

- System status and logs
- Apply Software Maintenance
 - On-Site
 - Remote
- Host Alerts
- Remote Operator
- Problem Determination Aids
 - Problem analysis diskettes
 - Supplemental diskettes

- Benefits

- High availability
- Quick problem resolution
- Dedicated support team

4690 OS Enhancements will continue to deliver the Functions, Performance and Reliability Required by Retail Market Leaders

- 4690 OS Enhancements
 - Functional Enhancements
 - New Technologies
 - Controller & Backup Device Support
 - Terminal Hardware Support

4690 - Enhancement Features

- Previously Announced PRPQ's
 - TCP/IP for 4690
 - 4680-4690 'C' API
 - OEM and IBM Optical Drive Support
 - Dynamic Switching Function (US Only)
 - Event Log Access
 - Destination Service Access Point
 - Unique Store Configuration
 - Additional 3270 Emulation Sessions

4690 - Enhancement Features

- Previously Announced PRPQ's
 - Save/Restore 4690 Distribution Attributes
 - Backup Utility
 - Software Distribution Agent
 - Remote Time Change Facility
- Already available Features
 - Advanced Power Management
 - Support of 4694 terminals
 - Terminal Hard Disk
 - Symbol Wireless Support

4690 - Planned Projects

- PCI Adapter Support
 - Ethernet - 9820
 - Store Loop - 9900
- 4690 PCL Printer Data Stream (9840)
- 4694 Flash BIOS Update (9830)
- Telxon Wireless Support Feature (9900)
- 4690 Version 2
 - 4690 Java Support

4690 - Possibilities

- DBCS Enablement
- 4690 Support of MQSeries
- Terminal IPL
- CD-ROM/DVD Support
- Partitioned Hard File

4690 New Version

- Version 1 Plus:
 - Current PRPQs and Features
 - Extensions of Existing Functions
 - TCP/IP at the Terminal
 - Mouse Support
 - VGA Support
 - Java Virtual Machine (JVM)
 - 4683 not supported

4690 Version 2

Features included (no additional charge)

- TCP/IP for 4690 Controllers
- 4690 'C' API in the Terminal
- Touch Screen for 4690
- OEM Optical Drive Support
- IBM Optical Drive Support
- 4690 Communications
Dynamic Switching
- Event Log Access
- Destination Service Access
Point
- Store Unique Configuration
File
- Symbol Wireless Feature
- Locally Administered LAN
Addresses
- Backup Utility
- Additional 3270 Sessions
- IBM TR/4 Tape Drive
- Seagate TR/4 Tape Drive
- Token-Ring & Ethernet on
Same Controller
- Remote Time Management
- XE Editor for 4680/4690
- On-Line System Probe
- Telxon Wireless Feature

4690 New Version Chargeable Features

- Multiple Controller Feature
- NetBIOS Feature
- Communications Feature
- LAN TCC
- Loop TCC
- Terminal Feature
- Distributed Data Management
- Software Distribution Agent

4690 Version 2

Separately orderable products

- 4690 Regression Tester (PRPQ, AISPO)
- 4680/4690 Application Debugger V3 (PRPQ, AISPO)
- 4690 Enhanced Remote Operator (LPP)
- Terminal Services for Windows/NT (LPP)
- Terminal Services for OS/2 (PRPQ)

4690 Version 2

Functions no longer supported

- Bisync communications
- Support for 286 based controllers
- Terminal Services for DOS
- 4680/4690 POS Operator/2
- TecMar tape support
- Store Loop Load Simulator/Trace
- 4680/4690 Trace Formatter
- 4680/4690 Screen Utilities
- POS Simulator for LAN
- Store Loop Trace
- LAN Trace Decoder
- Symbol Wireless in 4683
- 4684 as controller or terminal

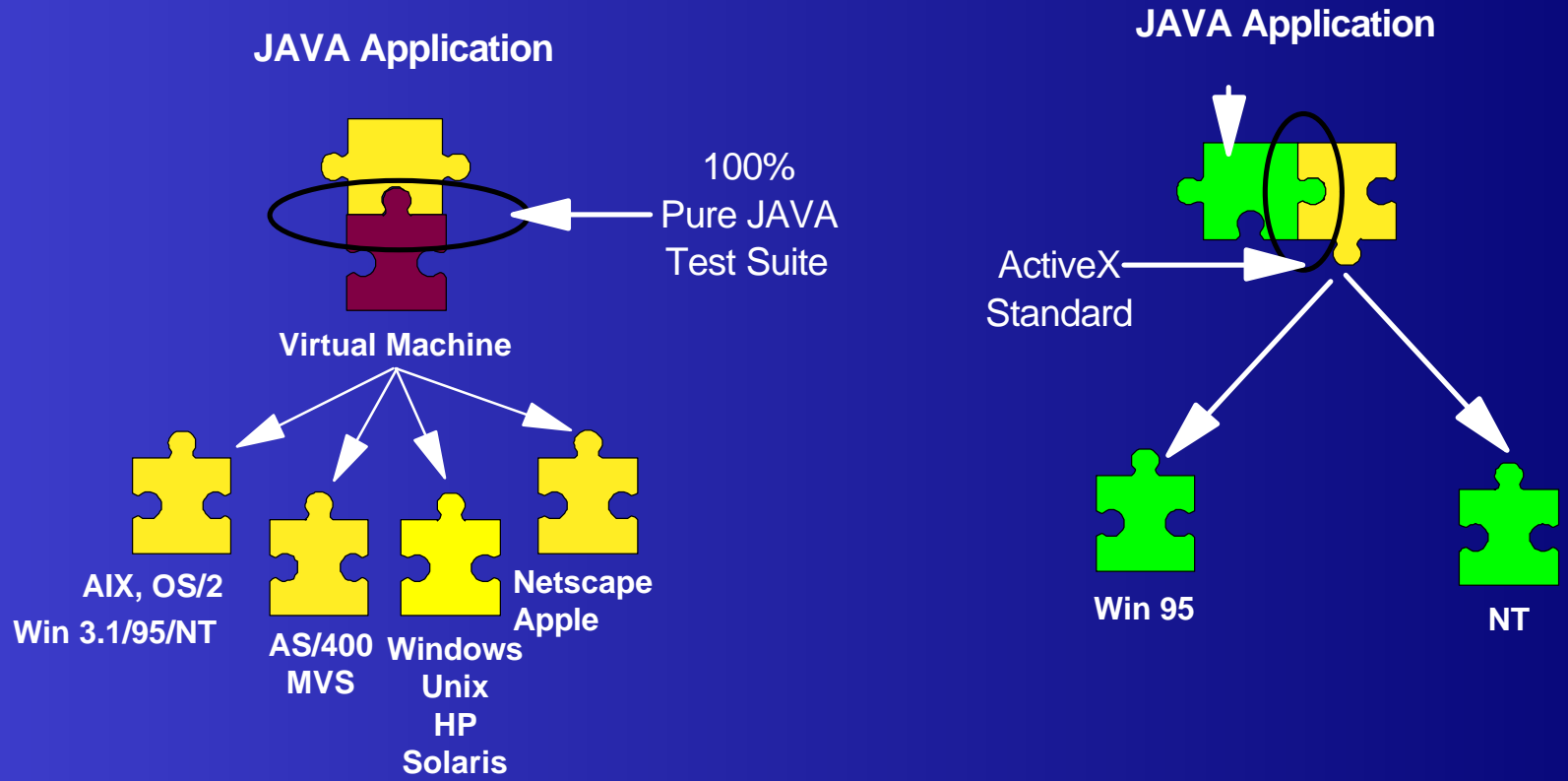
IBM 4690 Operating System

- Enable Java applications or applets
 - Port Java Virtual Machine (JVM) to 4690 OS
 - Support at both the controller and terminal
 - Utilize Java Development environment (JDK) on other platforms to develop applications
- Add native graphics support for Java applications
- Enable TCP/IP communications (to the register)
- Best of Breed thin client operating system for retail



Java !

Write Once,
Run Anywhere



4690 OS Java Implementation

- Controller Support
 - Java applications and applets
 - Java extensions to existing applications
 - Mouse and VGA(256 color) support
 - Java access to OS/Application files
 - Runtime only

4690 OS Java Implementation

- Terminal Support

- Multiple Terminal Applications

- Existing Application only
- Existing Application with Java extensions
- Existing Application & Java Application
- Java Application only
- Existing Application & 3270 Emulation
- Existing Application, 3270 and Java

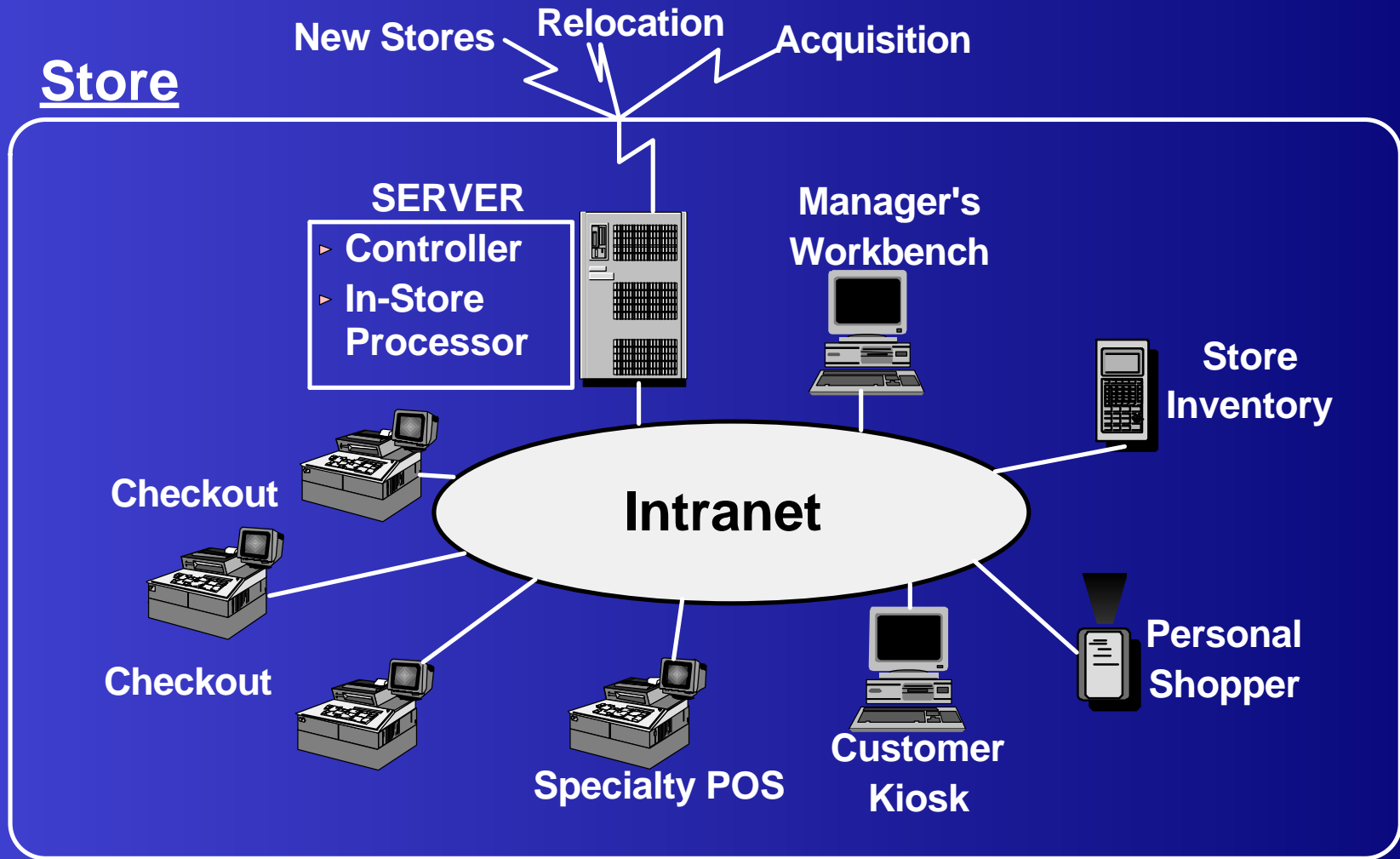
- Shared I/O

- Keyboard & Display only (1st release)

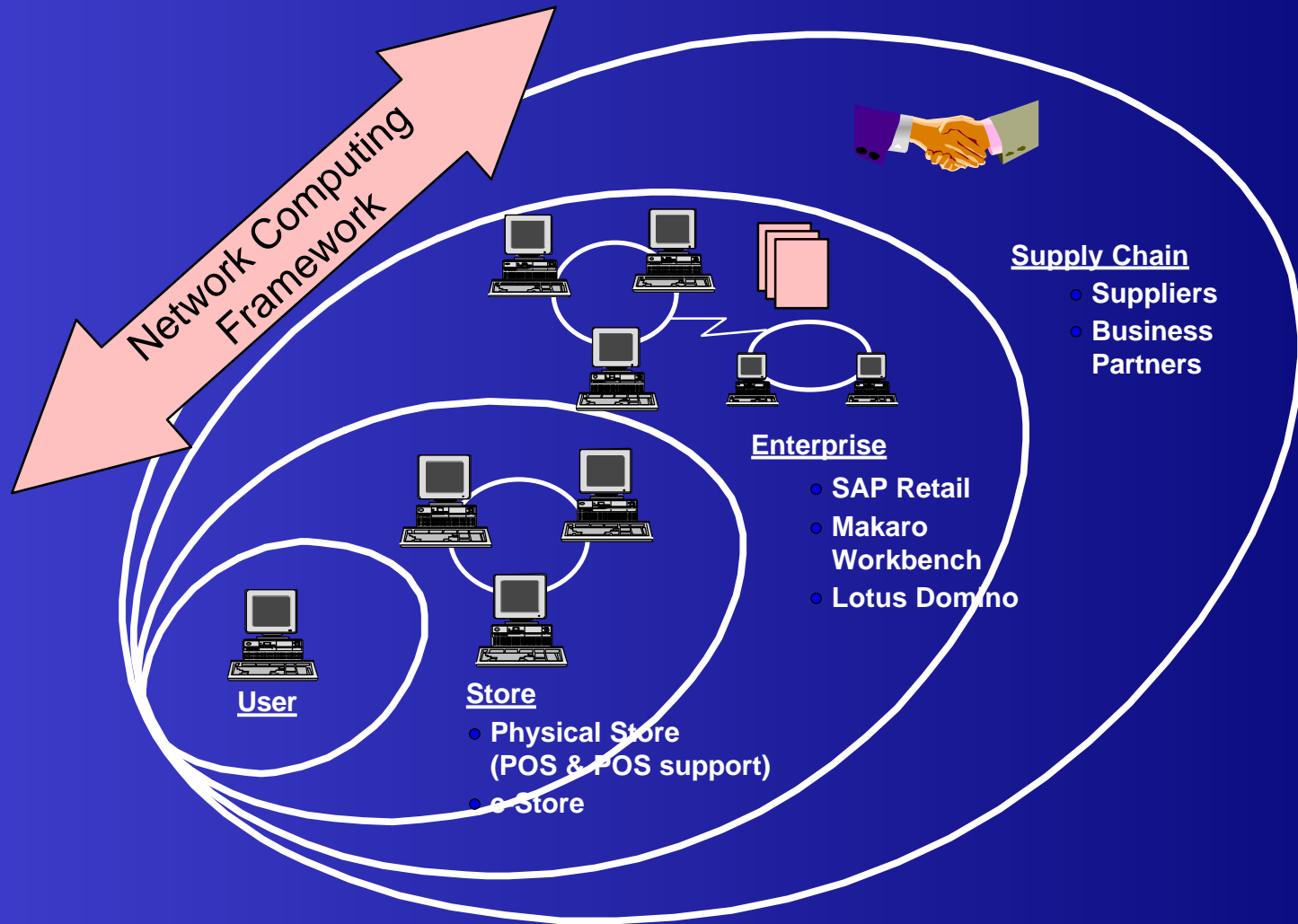
Why put Java on 4690 OS?

- Preserve your application investment
 - Extend current applications with Java
- Java skills easier to find
 - Faster development
 - Cross platform capabilities
- 4690 Provides a thin client base for Java
 - Lower hardware costs
 - Lower systems management costs
- Use off the shelf Java applications

A server-centric model that concentrates software in fewer servers reduces the complexity



The Networked Enterprise



- ✓ Universal client
- ✓ Write Once, run anywhere, access from anywhere
- ✓ Rollup function to highest level



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Thank you !