

JAVAPOS™

Java for POS Devices

Overview and Status

Curtiss Monroe, NCR

JavaPOS Work Group

Founding Companies



Agenda

- Mission and Goals
- Work Sessions and Participation
- Accomplishments
- Architecture
- Deliverables
- Next Steps
- Dependencies and Issues
- Summary

Mission of the JavaPOS Committee

Produce a Retail Industry standard for a Point-Of-Sale I/O device subsystem that supports pure Java applications and leverages the OPOS standard.

Goals

Our mission results in the following goals:

- Define an architecture for POS device access from Java applications.
- Define a set of POS device interfaces (APIs).
- Derive the Java APIs from OPOS.
- The JavaPOS APIs are platform independent but specific to the Java programming language.

Work Sessions, 1997

- Formation Meeting : April 3.
 - Consortium of NRF members,
 - plus IBM, NCR, and Sun.
- JPOS-1 : April 29-30, in Raleigh.
- JPOS-2 : June 9-12, in Palo Alto.
- JPOS-3 : August 11-13, in Atlanta.
- JPOS-4 : September 14-16, in Raleigh.
- JPOS-5 : October 27-30, in Palo Alto.

Industry Participation

- 12 companies providing ongoing technical input, representing:
 - Retailers
 - Software Vendors
 - Retail Hardware / Software Vendors
 - Sun / JavaSoft
- 20 - 25 representatives have attended each of the JPOS sessions.
- Other companies have expressed interest in U.S. and internationally.

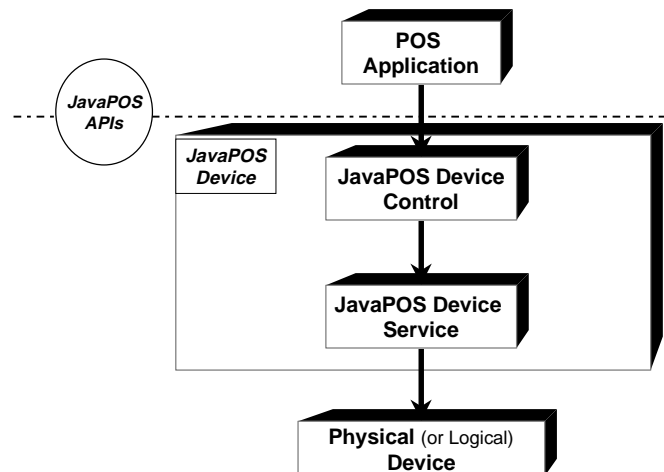
Accomplishments

- White Paper available.
- Draft specification in public review period.
 - Architecture.
 - APIs for 14 POS devices.
- “JavaPOS” trademark in place.

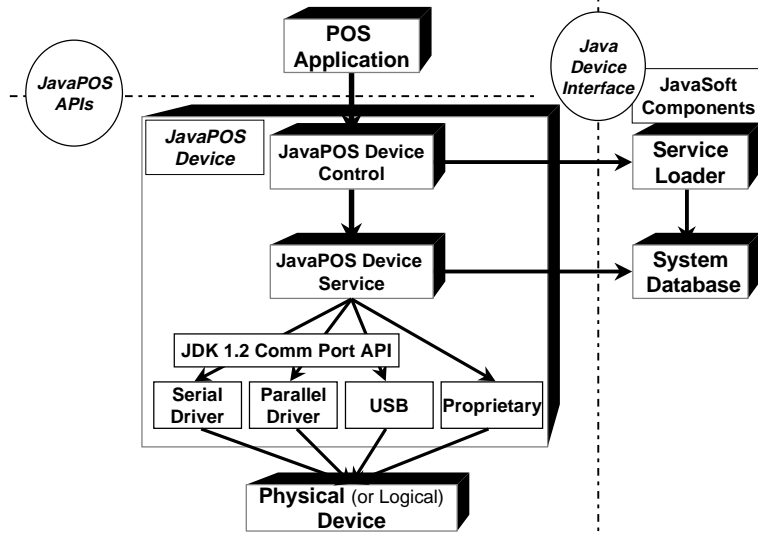
➔ See web site...

<http://www.javapos.com/>

Architecture

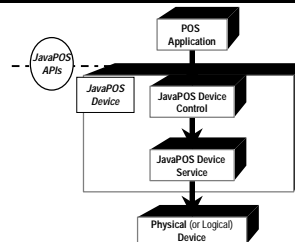


Architecture Details



Architecture

- In addition to the block diagram architecture...
- The following areas were addressed and defined:
 - API mapping rules (from OPOS to JavaPOS).
 - Versioning (compatibility rules).
 - Thread handling.
 - Event management.
 - Interfaces to Java Development Kit.



Deliverables

- Documentation:
 - JavaPOS Programming Guide.
 - JavaPOS White Paper.
 - All documentation is in PDF format. Read with Adobe's Acrobat Reader.
- Java Files (at OPOS Release 1.2 level):
 - Device Control interface files.
 - Device Service interface files.
 - Constants.
 - Sample Device Control classes.



Next Steps, 1998

- In progress : Programming Guide public review period.
 - Published to web 1997/12/20.
- End of public review period : February 6.
- JPOS-6 Meeting: February 16 - 18.
- Initial release as JavaPOS 1.2 : March 13.
 - Unless level of rework due to public feedback is greater than anticipated.

Future Steps, 1998

- Endorsement and/or administration by a standards body.
- Expansion with additional ...
 - Companies.
 - International input.

Dependencies

- Sun/JavaSoft to deliver the following:
 - Java Communications API (JDK 1.2).
 - Java System Database (future).
 - Java Service Loader (future).
- *Needed for deployment of fully compliant JavaPOS implementations.*
- USB support currently undefined.

Issues

- Device Control implementations.
 - Only one Device Control implementation is needed for any Device Service of its class, but ...
 - The JavaPOS organizational structure precludes implementation and support of software components.
- ➔ *Committee's sample Controls can be verified by vendor and delivered.*
- Initial deployment.
 - Until Sun/JavaSoft deliverables are available, Device Controls and Services may have have interoperability variations.
- ➔ *No API impacts at the Application.*

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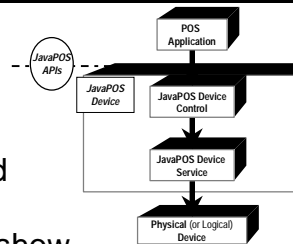
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Summary and Call to Action

- Summary:
 - JavaPOS delivers POS device accessibility to Java applications.
 - Relationship to OPOS fosters broad support and device coverage.
 - Technology demonstrations at this show.
- Get involved... see www.javapos.com
 - Download and review the Programming Guide.
 - Send us your comments and corrections.
 - Watch for additional happenings.

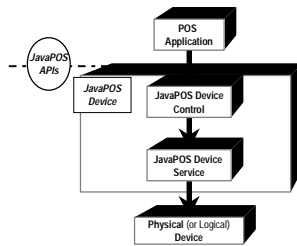


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