

Platform Services for Carriers

Drive the Wireless Market Through Rich, Innovative, and Differentiated Content



Highlights

Platform Services

- Increase revenue from Java Platform, Micro Edition powered data services
- Reduce cost and time to market for device and services launch
- Introduce innovation in the market
- Lead the market

Engineering Services

- Global network of skilled and experienced Java engineers
- Experience with Java technology, carriers, and popular platforms
- Cutting-edge technology and comprehensive, optimized tools



Engineering Services is a global team of highly skilled Java™ technology engineers who specialize in one thing — creating quality Java Platform, Micro Edition (Java ME) solutions for customers all over the world. Engineering Services can quickly and professionally enhance your mobile devices with Sun's Java ME technology — designed for performance by the people who invented Java technology.

Platform Services overview

As a major market driver, the carrier is in a unique position to provide the key market players with the means to increase Java powered data services revenues and reduce costs. By providing the ecosystem with a unified Java ME platform, the carrier can facilitate development of compelling content, maintain a consistent user experience, and reduce costs and time to market of content deployment and device launches.

We offer a wide range of services, targeted at creating a well-defined and rich Java platform with supported tools for OEMs and content developers.

Platform Services

Platform Services consist of five major components: platform definition, Platform Binary Implementation (PBI), device testing tools, content development tools, and testing services. The flexible service model allows you to select a basic package or premium package of components.

In addition to platform creation, we can also create a compliant binary implementation of the platform and provide testing services to validate platforms.

Platform definition

Based on the carrier's use cases, a Java Requirements Document (JRD) is created. The JRD is useful for OEMs and content developers as well as for the carrier's marketing and management. While clearly defining the device requirements and profile for the carrier, the JRD also provides OEMs and content developers clarifications to Java ME specifications, carrier-specific requirements that may not be covered by standard APIs, and other critical information. The JRD is used as the basis for creating the testing tools, and test results are compared and validated against it.

In the premium package, the JRD is formatted as a standard Java ME specification and includes carrier-specific APIs.

Platform Binary Implementation (PBI)

The PBI is a high-performance, easily portable implementation of the Java ME carrier platform. The implementation is fully compliant with carrier requirements and includes an application management system (AMS) and selected applications. Through an innovative business model, the PBI can be created at a minimal up-front cost for the carrier and provided to OEMs as a recommended platform implementation. The PBI is also integrated into the developer tools to ensure maximal congruence between development and real-world environments.

Benefits of the platform binary implementation:

- Provides a high-quality solution
- Creates a simple business model for OEMs
- Introduces multitasking virtual machines (MVM)
- Increases consistency and application portability
- Reduces device and application testing costs

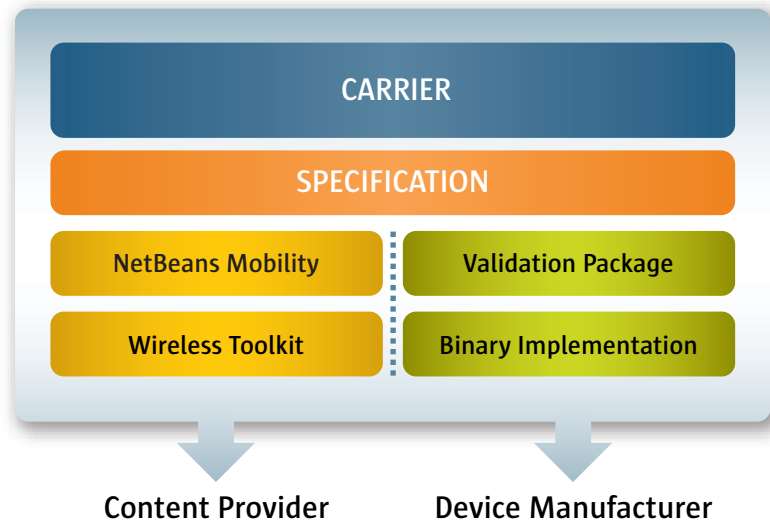
Developer tools

In the premium package, Sun creates a developer framework customized for the carrier Java ME platform. The framework is based on Sun's award-winning NetBeans™ Mobility Pack and Sun Java Wireless Toolkit. Tool customization includes carrier branding, support of platform APIs and requirements, carrier-specific widgets (such as security definitions and deployment mechanisms), as well as device skins. In addition, building tools on top of the platform binary implementation allows developers to build and test applications and content on top of the same virtual machine that resides in devices.

Validation package

A validation document can be created based on the platform-defining JRD. This document includes clarifications of how to configure the Technology Compatibility Kits (TCKs) by which Java ME devices are tested, and it also defines a JDTS profile. The JDTS profile includes selection of tests that best match a carrier's requirements, plus new tests created specifically to address carrier requirements and pain points.

In the premium package, the validation package includes compatibility and quality test sets.



The Java ME Platform components

Testing services

The Java ME testing service is based on joining a yearly program in which a JRD and a Java Device Test Suite profile are created. The level of testing is determined according to carrier's requirements and use cases. In addition, for each device entering the testing program, a matching emulator is provided in the form of a plug-in to the Java Wireless Toolkit.

Benefits of the testing service:

- Enables carriers to focus on core business
- Improves ability to influence device quality
- Enables carriers to share test results and profiles
- Facilitates communication with OEMs and content developers
- Controls costs

About Sun

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