INTRINSYC

Windows Mobile Quality Assurance Kits

❖ Overview

Intrinsyc Software offers a series of kits for each integral step of your BSP development cycle (see figure 1). Intrinsyc's series of Windows Mobile 5 test kits ensure the quality and reliability your customers have come to expect of your products. Our Quality Assurance and Test Kits are based on our extensive experience with the Windows Mobile operating system, hardware design, use case development, and certification testing.

To ensure the success of your products, Intrinsyc recommends implementing all four kits. Each kit can be purchased individually per your specific needs.

Figure 1: How Intrinsyc's Service Kits can enhance your BSP development cycle

Benefits

- **Ensure a successful product**

  - Ensure your product achieves the level of quality and reliability your customers have come to expect

- **Reduce time to market**

  - Detect issues early on to reduce your overall development cycle

- **Reduce costs**

  - Identify and address hardware and software interdependencies early in the design cycle

  - Reduce your overall costs by detecting issues early

  - Eliminate the high cost of performing multiple test cycles at a certification facility

- **Reduce risks**

  - Gain early verification: Independent validation and verification of your Windows Mobile device

  - Leverage expertise: Intrinsyc Software has been developing solutions based on Windows Mobile since its release from Microsoft

  - Work with a credible industry expert: Intrinsyc is a founding member of Microsoft's Mobile Partner Advisory Council and a Gold Member of the Windows Embedded Partner (WEP) program
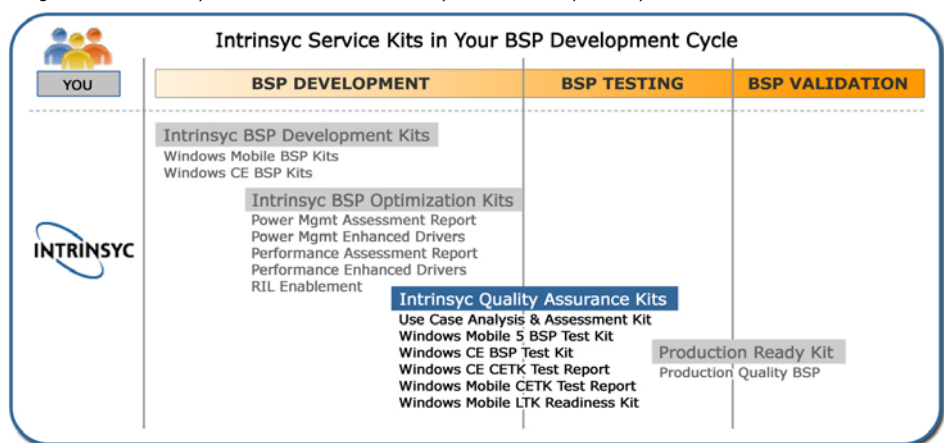
❖ Use Case Analysis & Assessment Kit

Use Case Analysis & Assessment

An Intrinsyc Software senior engineer will devote 40 hours of service to review your product's use cases. The analysis includes an investigation of interdependencies between the coexistence of specific hardware components, application interactions and potential processor load issues. A review of the actual use cases is also included to ensure they accurately reflect real life interaction on your device.

Use Case Analysis & Assessment Report

To ensure your final product achieves the desired performance and quality, an in-depth report analyzing the use cases against the hardware, BSP and software design requirements will be included. The report also contains actionable recommendations for addressing any issues found during the analysis.

❖ Windows Mobile 5 BSP Test Kit

The Intrinsyc Software Windows Mobile 5 BSP Test Kit provides you with a quality suite of tests created specifically for your device and run against your BSP on your hardware platform. It includes the BSP Test Plan, an initial test run of the plan, and concludes with a detailed results report.

Windows Mobile BSP Test Plan

An Intrinsyc Software Quality Assurance Technician creates a Windows Mobile BSP Test Plan specifically for your BSP based on your use cases, hardware requirements and BSP requirements, accurately aligning acceptance tests with your product's success metrics.

Windows Mobile BSP Test Plan Initial Run

The entire suite of tests in the Windows Mobile BSP Test Plan is performed from start to finish regardless of issues encountered. This provides an overall assessment of the board support package and hardware interaction as defined by the use cases and the test plan.

Windows Mobile BSP Test Plan Results Report

This comprehensive report details passed test cases, issues, contentions and failure points. This allows your engineering team to focus on issues and address them quickly before your device enters production.

Performance Profiling – Optional

Performance profiling of the base BSP and additional drivers is available. It assesses file transfer speeds, data I/O throughput, memory management, and display performance tests.

Windows Mobile CETK Test Report

The Windows Mobile CETK Test Report is based on the approved and available Microsoft Windows Mobile CE (CETK) tests pertinent to your product.

Windows Mobile CETK Initial Run

The entire suite of tests in the Windows Mobile CETK (pertinent to your device) are performed from start to finish regardless of issues encountered, providing an overall assessment of your device.

Windows Mobile CETK Test Report

A detailed report is provided at the end of the test suite run and includes any actionable recommendations to address failed tests.

Windows Mobile LTK Readiness Kit

Obtain a pre-certification green light with your Intrinsyc Software Windows Mobile LTK Readiness Report and submit your product with confidence for official logo testing at the National Software Testing Labs.

Windows Mobile LTK Test Run

Intrinsyc performs the same suite of tests on your Window Mobile enabled device as the National Software Testing Labs during official logo certification testing.

Windows Mobile LTK Readiness Report

Intrinsyc provides you with a detailed report at the end of the test suite run and includes any actionable recommendations to address failed tests.

Stress Test Kits

Windows Mobile Stress Testing ensures the BSP performs on your device as designed under various load conditions. Stress testing includes suspend and resume cycling to ensure all devices shut down, restore and reregister correctly. File I/O tests the various storage devices by creating, writing, reading, verifying and deleting files of various sizes. Ping tests the radio connectivity and throughput of the IP stack with a variety of packet sizes to ensure packet fragmentation does not interfere with normal RF activity and Continuous Imaging & Decoding verifies system bandwidth.