



## Benefits

### • Reduce time to market

- Intrinsic BSP Kits provide you with critical features early in your development cycle allowing you to jumpstart your system and application integration
- Intrinsic BSP Reports identify potential product integration issues early in the product development cycle allowing you to address critical issues sooner

### • Reduce costs

- Focus your development efforts and reduce costs with our Intrinsic selectable driver sets
- Identify potential costly hardware issues early with Intrinsic BSP Reports

### • Reduce risks

- Work with an established Windows Mobile BSP expert: Intrinsic has implemented BSPs on leading embedded processors including Intel® XScale®, Texas Instruments OMAP and Samsung ARM based processors
- Leverage expertise: Intrinsic Software has been developing solutions based on Windows Mobile since its release from Microsoft
- Work with a credible industry expert: Intrinsic is a founding member of Microsoft's Mobile Partner Advisory Council and a Gold Member of the Windows Embedded Partner (WEP) program

## Windows Mobile BSP Kits

### Overview

Intrinsic Software offers a series of kits for each integral step of your BSP development cycle (see figure 1). Intrinsic's Windows Mobile BSP Kits help you reduce your time to market, development costs and project risks. By partnering with an established and experienced Windows Mobile BSP expert, you can develop and launch your products faster and more cost effectively.

Intrinsic's engineers are experts at implementing Windows Mobile BSPs on a wide range of embedded processors from key silicon vendors including Intel® XScale®, Texas Instruments OMAP and Samsung ARM based processors. As a recognized Microsoft partner and an extensive BSP provider, you can be confident in our ability to provide you with the BSPs and the processor platform knowledge and understanding you need to accelerate your project.

Intrinsic offers Windows Mobile BSP Kits at fixed prices, allowing you to plan your next product with certainty and confidence. Additional BSP catalogue components and drivers are available for your specific implementation.

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



### Features

Intrinsic leverages years of expertise, an extensive library of OEM Adaptation Layer codes, and a catalogue of components and drivers to provide you with a Windows Mobile BSP kit that matches the specific needs of your platform.

### Processor Specific Base BSPs

Intrinsic builds your BSP from a strong initial foundation. Intrinsic starts with a processor specific base BSP that delivers the core components required for that processor as well as the components common to all Windows Mobile BSP implementations. Available Windows Mobile BSP kits include:

- Windows Mobile BSP Kit for Texas Instruments OMAP Processor family
- Windows Mobile BSP Kit for Intel PXA Processor family

### Multiple BSP Releases

Key issues with product features, functionality and hardware are identified early to jumpstart your system and application integration. Multiple BSP releases are provided during the implementation of your BSP. Core, Preliminary and Feature Complete BSP releases give you the critically timed features and functionality when and as you need it during your product development cycle.

## Locations

### Head Office

700 West Pender Street  
10th Floor  
Vancouver BC  
Canada V6C 1G8  
Toll Free: 1 800 474 7644  
Telephone: 604 801 6461  
Facsimile: 604 801 6417

### US Office

11130 NE 33rd Place  
Suite 200  
Bellevue WA  
USA 98004  
Telephone: 425 732 4950  
Facsimile: 425 732 4901

### European Office

Intrinsyc Europe Ltd.  
Fountain House  
Great Cornbow  
Halesowen  
West Midlands  
UK B63 3BL  
Telephone: + 44 121 501 6000  
Facsimile: + 44 121 501 6035

[www.intrinsyc.com](http://www.intrinsyc.com)

Copyright© 2005 by Intrinsyc Software International, Inc. All rights reserved. Intrinsyc®, Cerf™, Cerf™Board, Cerf™Cube, Cerf™Pod, and J-Integra™ are registered trademarks of Intrinsyc Software. Microsoft, Windows CE, and Windows Mobile are registered trademarks of Microsoft Corporation in the United States, in other countries, or both. All other product names are trademarks or registered trademarks of their respective owners and are hereby acknowledged.

**All specifications are subject to change without notice.**

## BSP Release Reports

Each BSP release includes a BSP Release Report detailing the components, drivers and their current functional state along with any platform issues discovered at this BSP stage. Intrinsyc's BSP Release Reports enable you to address potential costly issues early in the product development cycle, saving you time and money.

## Product Specifications

Intrinsyc offers you the ability to choose additional drivers from the Windows Mobile BSP Driver catalogue for the Preliminary and Feature Complete BSP releases.

## Hardware Bring-up

### Core BSP

- The Core BSP provides memory configuration, boot media driver, basic OAL support RAM/Flash verification. A preliminary implementation of a key driver, such as a display driver, can also be included in this release.

### Bring-up Report

- The Bring-up report provides you with an in-depth report and system configuration, memory configuration, hardware configuration, initial performance assessment and an issues list.

## Preliminary BSP

Intrinsyc's Windows Mobile Preliminary BSP includes Flash Media Driver (FMD) support as well as rudimentary versions of all the drivers you require for the start of application development on your platform.

### Build Environment

- Intrinsyc provides a build environment including makefiles with build configuration information (include and library file paths).

### Initial Program Loader

- The Initial Program Loader (IPL) places the run-time image (OS) into memory, checks the Image Update memory space (IMGFS) for updates, runs the updates or, if no updates are present, runs the OS startup routine.

### Kernel & OAL

- Enable CPU core, including the SDRAM controller, memory management unit (MMU), and caches.
- Configure the GPIO, memory controller, interrupt controller and initialize the real time clock and turn on board-level and peripheral clocks, perform memory and peripheral initializations, busses required to boot kernel only.
- Initialize the debug subsystem and OAL time functions. Enable Kernel Independent Transport Layer (KITL) support and any Windows Mobile required media drivers.

## Feature Complete BSP

Intrinsyc's Windows Mobile Feature Complete BSP includes feature complete versions of all the drivers you require. This BSP release is ready for BSP Optimization and formal testing (CETK and LTK).

