



# Soleus™

*The Platform for Wireless Device Convergence*



## Achieve Wireless Device Convergence with Soleus

Soleus is a proven development platform for feature-rich converged wireless handsets targeted at consumer markets. Built upon Windows Embedded CE – a powerful, stable, and secure high-level operating system – Soleus is available on leading chipset reference platforms today. It provides vital telephony software, a reference user interface, and a suite of popular voice and data applications.

Because Soleus is a sophisticated platform for rapid device development, it not only shortens project timelines but also reduces engineering costs. Soleus allows customers and partners to focus their energy and effort on creating innovative wireless handsets. These devices feature intuitive user interfaces that combine powerful mobile applications in unique ways that appeal to consumers.

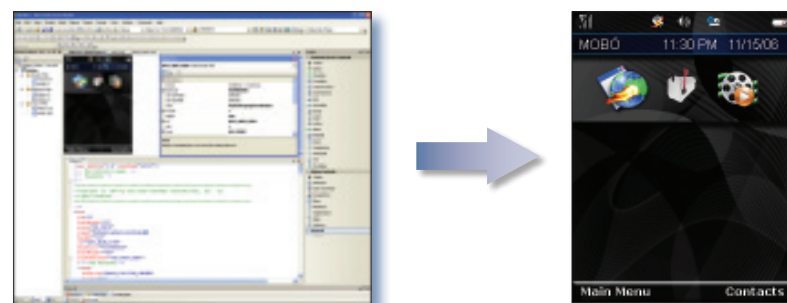
### Easy to Use, Powerful Tool Chain

The Soleus Software Platform extends an industry-tested world-class tool set from Microsoft. For device manufacturers, the Soleus Adaptation Kit plugs into the Microsoft Platform Builder configuration tool, with a combined menu structure and expanded drag-and-drop support to accelerate OS and mobile device configuration. The Soleus Adaptation Kit allows developers to select their device features and applications from a large catalog of choices.

The Microsoft Visual Studio development environment is seamlessly extended by the Soleus Software Development Kit (SDK), providing developers with a robust platform for creating new software solutions

or adapting existing ones to Soleus. The SDK provides libraries, header files, and additional tools for developing and testing Soleus applications.

The revolutionary User eXperience Designer (UXD) tool further extends Visual Studio design tools to rapidly create Soleus-based application user interfaces. This powerful, productive environment for creating and implementing world-class UIs provides a simplified approach for manufacturers. As a visual design tool, UXD offers drag-and-drop UI creation, WYSIWYG environment, the ability to preview a Soleus application UI from within Visual Studio, and source-level debugging.



### Deeply Differentiated User Experiences

The Soleus UI Framework is optimized to delineate between the application and presentation layers, allowing for the efficient delivery of differentiated user interfaces and experiences. Device makers and service operators can even develop event-driven themes, such as loading an "Internet Ready" theme when a Wi-Fi zone is detected, or matching network features to user interests, or displaying marketing offers based on location.



### Designed for the Marketplace

Soleus addresses four principal areas of customer needs:

#### Wireless & handheld product development

Soleus shortens handset development timelines as a comprehensive platform with tool set, reference UI, telephony, and applications. The platform also allows for easier product portfolio extension without re-work. Developing additional designs with Soleus gets faster over time.

Device makers can re-use Soleus components across product lines, leveraging existing technology expertise and applications to get a higher return on investment. Soleus lowers bill-of-materials cost by facilitating software re-use and achieving high performance with modest hardware requirements. Overall development costs are reduced with easy-to-use, familiar tools.

By enabling UI innovation, Soleus improves a device maker's ability to support operator requirements. This can include advertising, branding, customization, personalization, UI skinning, and themes that reach beyond the main menu and idle screens and into the application level.

#### Silicon vendor platform development

Soleus gives silicon vendors a software solution for gaining new customer opportunities and design wins in wireless handset markets.

By providing a telephony stack and a UI framework for Windows Embedded CE handsets, Soleus enables silicon vendors to offer their customers another choice of operating system – one that enables greater product differentiation.

### Modular, Open Architecture

The open Soleus architecture provides a set of modular software components that can be deployed flexibly across multiple handset designs, allowing manufacturers to bring a family of differentiated designs to market quickly. This flexible operating system platform also allows phone manufacturers to more easily provide customization and branding functionality.

### Customers and Partners Talk about Soleus

*"Within six months of licensing the Soleus software platform, we designed and shipped a completely new mobile phone with mobile TV and personal navigation. Soleus accelerated development of the MSI 5608 handset by delivering a certified applications library, along with Microsoft Platform Builder configuration tools and Microsoft Visual Studio. Micro-Star plans to leverage Soleus for a series of wireless handheld devices to help speed time to market and reduce development risk."*

– Rex Chang, Special Assistant to VP/GM Consumer Electronics Business Unit, Micro-Star International

*"The Soleus platform gives us a very flexible and versatile software foundation with pre-certified telephony and pre-integrated applications. Our engineers see great potential in Soleus' architecture and intuitive UI Framework, which quickly delivers a high level of integration and flexibility in software customization; features that many of our customers require."*

– Dr. George Chiou, R&D Sr. Director of Wireless Business Unit at Quanta Computer

*"We are pleased that Intrinsic's Soleus development platform, running Windows Embedded CE, has made inroads in the converged wireless device market ... With Windows Embedded CE, the Soleus tool chain allows for faster and more affordable mobile product development."*

– Olivier Fontana, Group Marketing Manager, Windows Embedded Partner Marketing

# CONSUMER GENETICS

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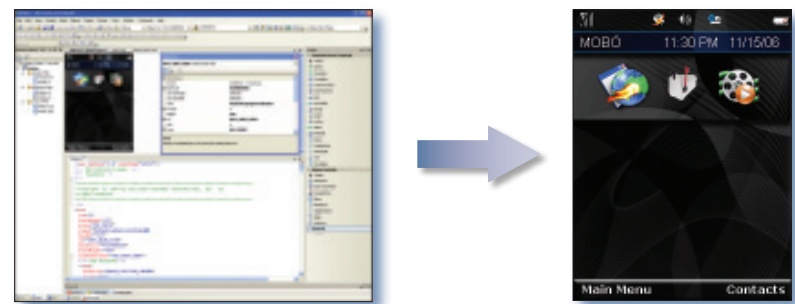
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And with Soleus, silicon vendors can leverage their expertise in Windows Embedded CE technology to help customers bring up consumer phones and other converged wireless devices.

#### Carrier product differentiation & revenue generation

Soleus allows wireless service operators to define user experiences at a deeper level than ever before. The UI Framework provides total control over branding and user interface implementations, allowing for differentiation plus consistent execution.

To create a complete branding experience, developers can build carrier and regional variants – or implement operator-specific branding throughout the device experience, not just the home screen.

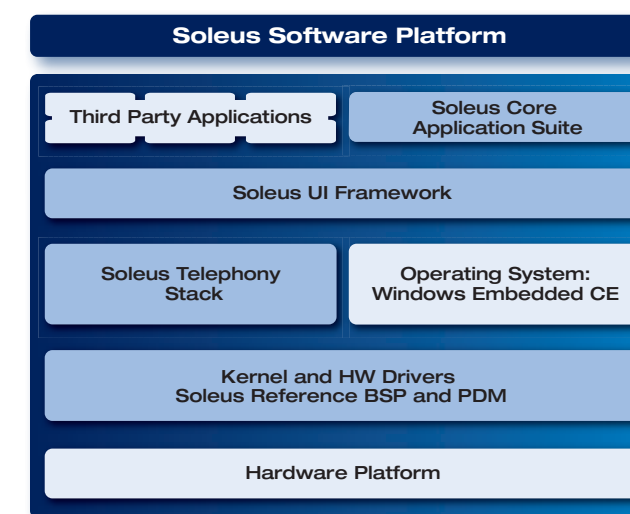
Most importantly, Soleus helps service providers increase Average Revenue Per Unit (ARPU) with dynamic themes, interface generation, and services enablement. ARPU-earning themes can be pre-loaded and triggered by an event, such as Wi-Fi coverage, time-of-day, or low pre-paid balance.

#### Software provider product development

Soleus can open up new markets for Independent Software Vendors. Using familiar Microsoft developer tools, Win32 APIs, and existing source code, developers can easily extend existing applications to a broader consumer-focused mobile handset market with minimal incremental effort.

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### Get the Soleus Advantage

Soleus is a comprehensive solution that allows customers and partners to benefit from Intrinsic's 11 years of experience with converged wireless device development and systems integration. For Soleus software platform licensees, access to Intrinsic's world-class wireless engineering resources and services is an important benefit. To learn more about how Intrinsic can help get your next converged consumer handset to market rapidly and reliably, please visit our website at [www.intrinsic.com](http://www.intrinsic.com).



MSI 5608

# Soleus Features and Core Applications

*Soleus requires Windows Embedded CE 5.0 or 6.0.*

## Multimedia Applications

- Media Player
- Picture Viewer
- Camera
- Video Recorder

## Media Formats

- Audio
  - WMA decoder
  - WAV
  - MP3 decoder
- Still Image
  - View Formats: JPEG, GIF, PNG, BMP
  - Capture Format: JPEG
- Video
  - MPEG4 decoder
  - WMV
- Support for other formats available

## Productivity Applications:

- Alarm
- Calculator
- Calendar
- Contacts
- File Manager
- Notes
- Voice Memos
- Voice Tags/Voice Dialing

## Network Connectivity

- Soleus GSM Telephony Stack
- GSM Circuit Switched Data and GPRS Support
- Cell Broadcast Services (CBS) Standards Compliance
- Supplementary Services Standard Compliant
- Phone Driver Module (PDM) Kit
- Bluetooth Local Connectivity

## Telephony and Messaging Applications

- Call History
- Dialer Application
- SIM Application Tool kit (SAT)
- SMS

## Third-Party Application Catalog

- Entertainment
  - Games
  - Java
- User Interface
  - Handwriting Recognition
  - T9 Predictive Text
- Messaging
  - Email
  - MMS
  - IM
- Browsing
  - WAP Browser
  - HTML Browser
- Connectivity
  - PC Sync
- Multimedia
  - DirectShow Filter Codecs

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



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## About Intrinsyc

Intrinsyc is a leader in wireless software solutions that enable next-generation handheld products, including mobile handsets, smart phones and converged devices. The company's wireless mobile software products, engineering services, and years of expertise help device makers, service providers, and silicon vendors deliver compelling wireless mobile products with faster time-to-market and improved development cost.

## Intrinsyc Software International, Inc.

### Head Office

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

### US Offices

20450 Stevens Creek Boulevard  
Suite 130  
Cupertino, CA 95014  
Telephone: +408-342-9400  
  
11 130 N.E. 33rd Place  
Suite 200  
Bellevue, WA 98004  
Telephone: +425-732-4950

### Asia-Pacific Office

6F-5, No.408, Rui-Kung Road  
Taipei, Taiwan 11492  
Telephone:  
+886-2-2162-1197