



SOLEUS BY INTRINSYC

is built on Microsoft® Windows® CE 5.0, a world-class operating system. Microsoft Visual Studio® 2005 serves as the development environment. Intrinsic provides a plug-in to Visual Studio 2005, a UX Designer for developing reusable MMI designs. Soleus offers full integration from hardware to software, shortening and simplifying the handset development cycle.

1. SOLEUS PLATFORM HARDWARE

- ▶ Processor
 - Windows CE 5.0-compatible CPU
 - Supports 32-bit memory addressing
 - Using little-endian byte order
 - Provides Memory Management Unit (MMU)
 - Supported CPU families: ARM, MIPS, SHx, XScale, and x86
- ▶ Display resolution: 240x320 (QVGA), other resolutions can also be supported
- ▶ Display color support: 64K colors, 256K colors
- ▶ Radio: GSM Quad-Band (850/900/1800/1900MHz)
- ▶ Storage card: Secure Digital (SD) cards
- ▶ Bluetooth v1.2+
- ▶ Mini-USB port (USB 2.0)
- ▶ PDM can be provided by Intrinsic
- ▶ Supported Network Technologies
 - GSM CSD
 - GPRS Class B, Class 10
 - EDGE

2. DEVELOPMENT TOOLS

- ▶ Development Tools – Application Software
 - Microsoft Visual Studio 2005
 - Soleus Software Development Kit (SDK)
 - Soleus UX Designer
 - Windows CE 5.0
 - Microsoft Platform Builder
 - Soleus Adaptation Kit (AK)
 - Windows CE 5.0 Board Support Package (BSP) for target hardware platform
 - Soleus QA Test kit (QATK)

3. SOLEUS PLATFORM BUILDING BLOCKS

- ▶ User-Interface Customization
 - UX Designer is a tool for creating and editing UI schemes
 - UI schemes portable across handsets
 - Built-in mobile phone controls
 - Extensions available through custom controls
- ▶ Soleus Mobile Handset Applications
 - Alarm
 - Calculator
 - Calendar
 - Call History
 - Camera
 - Contacts

- Dialer
- Media Player
- Phone Settings
- User Profiles
- Themes
- Telephony
- Picture Viewer
- SMS
- Notes (text and voice)
- File Explorer
- Connection Manager
- ▶ ISV Partner Applications

The flexible nature of the Soleus platform allows nearly any 3rd party to easily port their application to the platform. The following applications are pre-integrated and other applications can be integrated upon request.

 - ISV Installer
 - AOL / Tegic T9 Predictive Text
 - Email POP/SMTP client
 - WAP 2.0 Browser
 - MMS 1.2 client
 - Games
 - Handwriting Recognition
 - Instant Messenger (AOL, MSN, Yahoo, ICQ, Google, Jabber)
 - Voice Dialing
- ▶ Soleus Mobile Phone Controls
 - Animation
 - DateTimePicker
 - ImageButton
 - Menu
 - MultiEdit
 - PhoneList
 - SingleLineList
 - Slider
 - Softkeys
- Common Device Controls
 - Button
 - Checkbox
 - Combobox
 - Custom Control
 - DateTimeText
 - Edit
 - HScrollBar
 - Image
 - ImageButton
 - Label
 - Listbox
 - Meter
 - Panel
 - RadioButton
 - Rectangle
 - Text
 - VScrollBar

“Today, the adoption of high level OSs by successful handset brands is a necessary reality. Consumers continue to demand more mobile phone features, better functionality and increased customization on their mobile devices.”

Shiv Bakhshi,
Director of Mobile
Technology and Tracking,
IDC

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- ▶ Soleus Telephony API
 - Call
 - Contacts
 - Call History
 - Network Selection
 - Packet Data
 - SMS
 - SIM
 - SIM Application Toolkit
 - Supplementary Services Strings
 - TelDevice
 - Events
 - Caller ID (picture, ringtone)
 - Voicemail
 - Speed dialing
- ▶ Soleus Multimedia and Graphics Support
 - Audio: WMA, WAV, MP3, AMR, AWB, MIDI, SP-MIDI
 - Video: 3GP, MPEG4, WMV, H.264, H.263
 - Graphics: JPEG, GIF, BMP
- ▶ Soleus Localization Support
 - English and Simplified Chinese
 - Localization support
 - All language-specific application resources are stored separately from the application

4. WINDOWS CE FOUNDATION BUILDING BLOCKS

- ▶ Windows CE 5.0 Kernel
 - Multi-process, multi-threaded
 - Rich thread synchronization model
 - Virtual memory management
 - Dynamic loading and linking
 - Watchdog timers
- ▶ Windows CE Power Management
 - Centralized Power Manager synchronizes system-wide elements
 - Component-specific power states built into device driver interface
 - Application-specific power management allows trusted applications to control overall system power operation
- ▶ Windows CE Real-Time Support
 - 256 thread priorities
 - Nested interrupts
 - Bounded thread latency for highest priority thread
 - Bounded interrupt latency for highest priority interrupt
 - On ARM architecture, both FIQ and IRQ support
- Windows CE Storage
 - RAM-based object-store with file system, Win32-style registry, and built-in database
 - NAND Flash storage devices
 - Installable file system support enables proprietary extensions
 - Built-in compression for data storage

- ▶ Windows CE Communications Support
 - Telephony API (TAPI 2.1)
 - Windows sockets
 - Secure sockets
 - TCP/IP, PPP, SLIP, and IrDA
 - Serial port
- ▶ Windows CE Security and Encryption
 - Security Support Provider Interface
 - NTLM Security Support Provider
 - Encryption and Decryption
 - Cryptographic APIs
 - Digital Signatures
 - Trusted applications – identified with digital certificates, allow control of access to privileged operating system calls
- ▶ Windows CE Graphics
 - Rich text, raster, and vector support
 - TrueType, ClearType, and Bitmap fonts available
 - Device independent bitmap supports for 1, 2, 4, 8, 16, 24, and 32 bits-per-pixel
- ▶ Windows CE Globalization Support
 - Unicode character set
 - National language support – date, time, calendar, currency conventions
- ▶ Windows CE Multimedia
 - DirectShow API – supporting the playback of multimedia streams and compressed content



For more information, visit Intrinsic Software's website at www.intrinsic.com. All specifications are subject to change without notice.

