



brightforms™

Mobile Device Engine

BrightForms Data Sheet

BrightForms™, our mobile device engine, powers the mobile enterprise applications developed in the BrightBuilder™ Mobile Application Designer. Available for Windows Mobile 5, Windows Mobile 6, CE.NET, Windows XP, Vista and Windows 7, BrightForms™ engines are designed to render the mobile application components as they are required by the user, thus optimising the use of available computing resources and allowing for efficient operation of complex mobile applications on low powered devices.

In addition to rendering the mobile application forms (user interface), database definitions, data exchange (synchronisation) rules and report definitions, BrightForms™ further extends the level of application richness, by providing integration to local device databases, such as MS SQL Server Compact Edition on Windows Mobile devices and to third party peripheral products, such as barcode scanners, printers, cameras and GPS devices.

Understanding that business mobility solutions are deployed for many differing purposes, BrightForms™ has also been designed to provide flexible modes of operation, supporting either occasionally connected (off-line) applications or always-on (thin client) mobile applications.



This means that mobile devices can store data locally if required and connect on-demand to synchronise data, or draw data directly from server-side data sources, as required, depending on the availability of wireless communications networks.

To complete the mobility loop, a secure synchronisation engine and application distribution framework is incorporated into the BrightForms™ engine. This provides seamless, accurate communication of data with back office systems using BrightServer™ and also supports wireless delivery of application and engine updates. Data traffic is also optimised within this framework to reduce data size when communicating over wireless TCP/IP based networks (e.g. GSM, GPRS, CDMA, 3G, Wireless LAN and cradle).

BrightForms Highlights

- Processes mobile application components, database, and business rule definitions developed in BrightBuilder™
- Communicates with BrightServer™ using industry standard SOAP over HTTP
- Utilises TCP/IP based networks (GSM, GPRS, CDMA, 3G & WLAN and IP Satellite) for data communication
- Optimises data transmissions and supports data encryption and security using SSL
- Built-in tracing module for identifying bugs and issues for application designers
- Supports online queries for accessing large and/or dynamic data bases on server-side databases
- Operates in occasionally connected mode, for field-based solutions or database-less thin client mode for back-office applications and/or internal mobile solutions over Wi-Fi or Bluetooth (e.g. warehousing etc)
- Built-in Wireless Distribution Framework supports wireless distribution of BrightForms™ engines, applications, data and any file (e.g. Word documents, PDF's, JPEG images etc)
- Integrates with cameras, barcode scanners, mobile printers, GPS devices and magnetic swipe cards.
- Supports signature capture, photo capture, and image redlining
- BrightForms™ engines available for PocketPC, Windows Mobile 5, Windows Mobile 6, Win32 and CE.NET based devices

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BrightForms Specifications

Modes of Operation

Offline Mode	Utilises an SQL relational database on the mobile device to store and manage data locally and synchronise with BrightXpress™ when connections are available
Semi-online Mode	Supports SQL queries to fetch data from single or multiple tables & Stored Procedure calls to execute stored procedure functions on the server (e.g. customer history, inventory availabilities, customer credit checks, etc.) Also supports Web Services to source data from any web services compliant systems while in the field
Online (always-on) Mode	Ideal for always connected networks such as 3G or WLAN for applications such as warehousing, hospital administration or any mobile application requirement where centralised data is viewed and updated in real-time

Form Controls

Standard Windows Controls	Uses standard user interface controls to provide a rich user interface including labels, buttons, edit controls, drop down list, combo lists, check boxes, radio button, date-time pickers etc
Bitmap Buttons	Supports use of bitmap buttons to create visually appealing applications
Image Control	Enables BMP and JPEG display with redlining capabilities
List View	Rule based row colouring and image display based on the row data content
Data Grid	Data entry functionality using edit fields, check boxes, date-time pickers on the grid cells
Edit Control	Data entry with a Mask Range checking
Scribble Control	Signature capture for customer/user confirmation
Form Timers	For time based actions and events
System Events	On Cradle, Power On

Sound Support

Play sounds in with visual components	Supports most Windows sound formats including ".wav" files
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Unified Camera Functionality

Photo Capture	Utilises Windows Mobile unified camera API to trigger photo capture events
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Advanced SQL

User defined SQL	Allow authoring complex SQL SELECT queries via an advanced SQL query mode
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Multi Language Support

Language Bundles	A single application with multiple languages can be created via language resource definitions
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Form Multi Layout Support (Multi Aspect)

Run applications on devices with different form factors	Allows for rapid resizing of applications for differing forms factors. For example, BrightForms can run an application form designed using BrightBuilder on Pocket PC devices in either landscape or portrait mode
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Barcode Scanning

Native Support	Symbol and Intermec barcode scanner devices are natively supported for better scanning functionality and power management
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Printing

Mobile Printing	Supports print library of over 100 mobile printers for producing delivery dockets or invoices in the field etc
Desktop Printing	Supports backend reporting and other printing requirements using standard printing drivers

GPS Support

NMEA	Support all serial GPS devices for navigation and location identification
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Magnetic Stripe Card Support

Communicates with serial based card readers	For mobile commerce applications with credit card processing
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Email/SMS Support

Full email support for generating emails from the devices	Supports email events from within BrightForms™ applications with attachments
SMS support for converged PDA – phone devices	Integrates with SMS function on converged devices to trigger notifications from within a BrightForms™ application

Synchronisation Engine

Transaction control	Synchronisation protocol to ensure data integrity with full commit and rollback functionality
Background Synchronisation	For less intrusive user applications so that data can be sent and receive to backend systems without any user intervention
Push Module Support	Allows for unsolicited data push from backend systems to devices in the field for timely data delivery

Automatic Engine Distribution

Update core engine files	Synchronisation process supports seamless engine updates to mobile devices including system patches
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Tracing

Fully application activity tracing	Provides varying levels of fault tracing capability to remotely identify and resolve application issues
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Minimum System Requirements

Platforms Supported	Windows (NT, 2000, 2003, XP, Vista, Windows 7), CE.NET based devices, Windows Mobile 5, Windows Mobile 6	Minimum Hardware Requirements	IBM-Compatible, Pentium IV processor, 512MB minimum memory size & 1GB available HDD space. OR • Windows Mobile devices with 32 MB memory & 206 MHz ARM processor or higher	Device Databases Supported	MS SQL Server Compact Edition, MS Access 2000, MSDE and MS SQL Server 2000/2005/2008
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