

KEY FEATURES

Rugged IP54 rating for tough outdoor conditions

Feature packed, fully integrated, affordable

3.75G cellular data and voice capability

High-sensitivity GPS receiver

5 megapixel autofocus camera with flash

Long life battery for all-day use

Lightweight and compact



ASSET MANAGEMENT FOR LARGER TEAMS

Harness the strength of your distributed team to provide geo-enabled data you can trust. With the Trimble® Juno® 3 series, your mobile workforce is empowered with a fully integrated, GPS-based data collection system for everyday field work. If your organization is managing critical assets, responding to emergencies or keeping an enterprise GIS current, you can increase efficiency—both in the field and in the office with dedicated asset management workflows and Trimble Juno 3 handhelds.

Delivered in a compact package resistant to dust, water, and shock, the Trimble Juno provides a complete, integrated package of positioning, imaging and communications for total flexibility day after day.



All in one mobile solution

Combining the benefits of a GPS device, camera, PDA, and cellphone, this pocket-sized device provides work teams with a range of tools in a single compact package, so there are fewer batteries to charge and fewer devices to manage.

With a camera at the ready, your teams can document exactly what they see in the field. The Trimble Juno combines photos with GPS so photos can be instantly geotagged for future reference. In addition, field to office collaboration is

dramatically improved because photos can be sent from the field for review back in the office.

For standard positioning applications such as navigation, the high-sensitivity receiver delivers optimal yield so you can get a position fast in the harshest conditions. 2 to 5 meter positional accuracy is always available in real time in regions with SBAS coverage. In addition, accuracy can be further improved to 1 to 3 meters through simple postprocessing routines to meet company or regulatory standards.



Designed for GIS workflows and distributed teams

In GIS environments, data integrity and standardization is critical to maintain total workflow efficiency. Professional, geo-enabled data collection requires dedicated field software. The Trimble Juno 3 series is optimized for Trimble TerraSync™ software, Trimble Positions™ Mobile extension, and other industry-standard field software, so you can be confident that the data you receive back in the office is exactly what you need for streamlined integration into your enterprise GIS and fast updates.

TRIMBLE JUNO 3 SERIES

PRODUCT MODELS

| | Model 3000 | Model 3100 |
|-----------------------|------------|-----------------|
| Cellular voice & data | No | Yes |
| Integrated camera | 5 MP | 5 MP with Flash |

STANDARD FEATURES

System

- Integrated data and voice capable 3.75G cellular with SMS capability (Juno 3D only)
- 5 megapixel digital camera with geotagging, Juno 3D handheld has added LED Flash
- Bluetooth® v2.0 wireless technology
- 802.11b/g + WAPI wireless LAN
- 3.5 inch QVGA sunlight-readable color touch screen
- Long-life, rechargeable, and removable Li-Ion battery
- 800 MHz processor
- 256 MB RAM
- 2 GB flash memory
- 1 microSD (microSDHC compatible) memory card slot
- Integrated speaker and microphone
- Windows® Embedded Handheld 6.5 Professional in Chinese (Simplified), English, French, German, Italian, Japanese, Korean, Portuguese (Brazilian), Russian, or Spanish

GPS

- High-sensitivity GPS/SBAS¹ receiver and antenna

Standard Software

- Adobe Reader
- Microsoft® Office Mobile®, includes Excel Mobile, Word Mobile, Internet Explorer Mobile, Outlook Mobile, and PowerPoint Mobile

Standard Accessories

- USB data cable
- Wrist lanyard
- International AC power supply
- Stylus with lanyard
- Rechargeable Li-Ion battery

OPTIONAL FEATURES

Optional Software

- Trimble TerraSync™ software
- Trimble GPS Pathfinder® Office software
- Trimble Positions™ software suite
- Trimble GPScorrect™ extension for Esri ArcPad software
- Trimble GPS Analyst™ extension for Esri ArcGIS for Desktop software
- Trimble GPS Controller software
- Trimble TrimPix™ Pro system
- Trimble Municipal Reporter™ system²
- Custom applications built with Mobile GIS Developer Community software development kits (SDKs)
- Third party NMEA-based applications

Optional Accessories

- Vehicle power adapter
- External battery charger
- Clear screen protectors (2-pack)
- Trimble LaserAce™ 1000 rangefinder
- Range pole bracket
- Replacement Li-Ion battery
- Replacement AC Power supply
- External GPS patch antenna
- Carry case with belt clip
- Anti-glare screen protectors (2-pack)
- Vehicle-mount
- Replacement Stylus (2-pack)

TECHNICAL SPECIFICATIONS

Physical

- Size 138 mm x 79 mm x 31 mm (5.43 in x 3.11 in x 1.22 in)
- Weight 0.31 kg (0.69 lb) with battery
- Processor 800 MHz Samsung processor
- Memory 256 MB RAM and 2 GB built-in storage
- Battery 3060 mAh lithium-ion, rechargeable in unit
- Power³
 - Low (no GPS, backlight on) 14 hours
 - Normal (with GPS and backlight on) 10 hours

Environmental

- Temperature
 - Operating -20 °C to +60 °C (-4 °F to 140 °F)
 - Storage -40 °C to +70 °C (-40 °F to 158 °F)
- Humidity limit 95% RH, non-condensing
- Drop 1.2 m (4 ft) drop plywood over concrete
2 drops per 6 sides at ambient temperature 23 °C (73 °F)
- Tumble 100 cycles (200 drops) x 50 cm (1.64 ft), 10 cycles/minute
- Casing IP54

Input/output

- Expansion microSD Card slot (microSDHC compatible)
- Display 8.9 cm (3.5 in) QVGA (240 x 320 pixel)
resistive, sunlight readable, LED backlight
- Audio Built-in microphone and speaker, record and playback utilities
- I/O USB client v2.0 compliant
- Radios Bluetooth v2.0⁵ Wi-Fi 802.11b/g
rated HSPA+ 3.75G cellular (data and voice, Juno 3D only)⁶
- Digital camera 5 megapixel color camera with autofocus
JPEG photo format, WMV video format, flash (Juno 3D only)

GPS

- Channels 12 (L1 code only)
- Integrated real-time SBAS¹
- Update rate 1 Hz
- Time to first fix 30 seconds (typical)
- Protocols SIRF, NMEA-0183

Accuracy (IRMS)⁷ after differential correction

- Code-postprocessed⁸ 1-3 m
- Real-time (SBAS¹) 2-5 m

¹ SBAS (Satellite Based Augmentation System). Includes WAAS (Wide Area Augmentation System) available in North America only, EGNOS (European Geostationary Navigation Overlay System) available in Europe only, and MSAS available in Japan only.

² Internet access required for Municipal Reporter system workflows.

³ Using wireless technology, such as Bluetooth or wireless LAN will consume additional battery power.

⁴ Backlight setting at 70% brightness.

⁵ Bluetooth and wireless LAN type approvals are country specific. Trimble Juno series handhelds have Bluetooth and wireless LAN approval in the USA and EU. For other countries please consult your local Reseller.

⁶ Tri-Band UMTS/HSPA, Quad-Band GSM/GPRS/EDGE. The Trimble Juno 3D handheld is PTCRB certified and can operate on any of these networks that do not require carrier certification. Consult with your local reseller for more information.

⁷ Horizontal Root Mean Squared accuracy. Requires data to be collected using vertical mounting, minimum of 4 satellites, PDOP mask at 99, SNR mask at 12 dBHz, elevation mask at 5 degrees, and reasonable multipath conditions. Ionospheric conditions, multipath signals or obstruction of the sky by buildings or heavy tree canopy may degrade precision by interfering with signal reception. Accuracy varies with proximity to base station by +1 ppm for postprocessing.

⁸ Requires Trimble DeltaPhase™ technology, as supported in Trimble GPS Pathfinder Office software version 4.20 and later, or Trimble Positions Desktop add-in 10.1.0, or Trimble GPS Analyst Extension for Esri ArcGIS for Desktop software, version 2.20 and later.

Specifications subject to change without notice.

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YOUR LOCAL TRIMBLE OFFICE OR REPRESENTATIVE

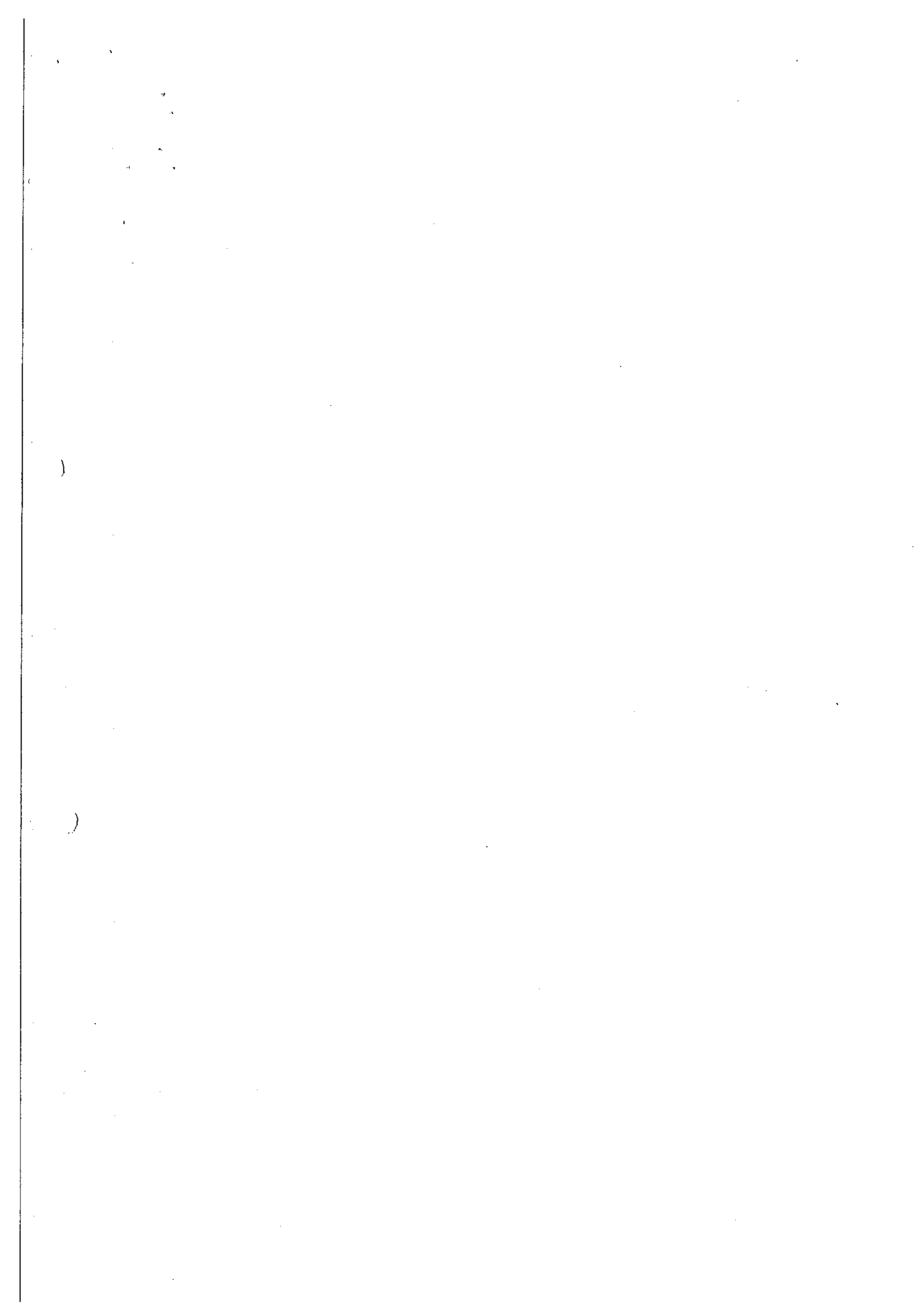
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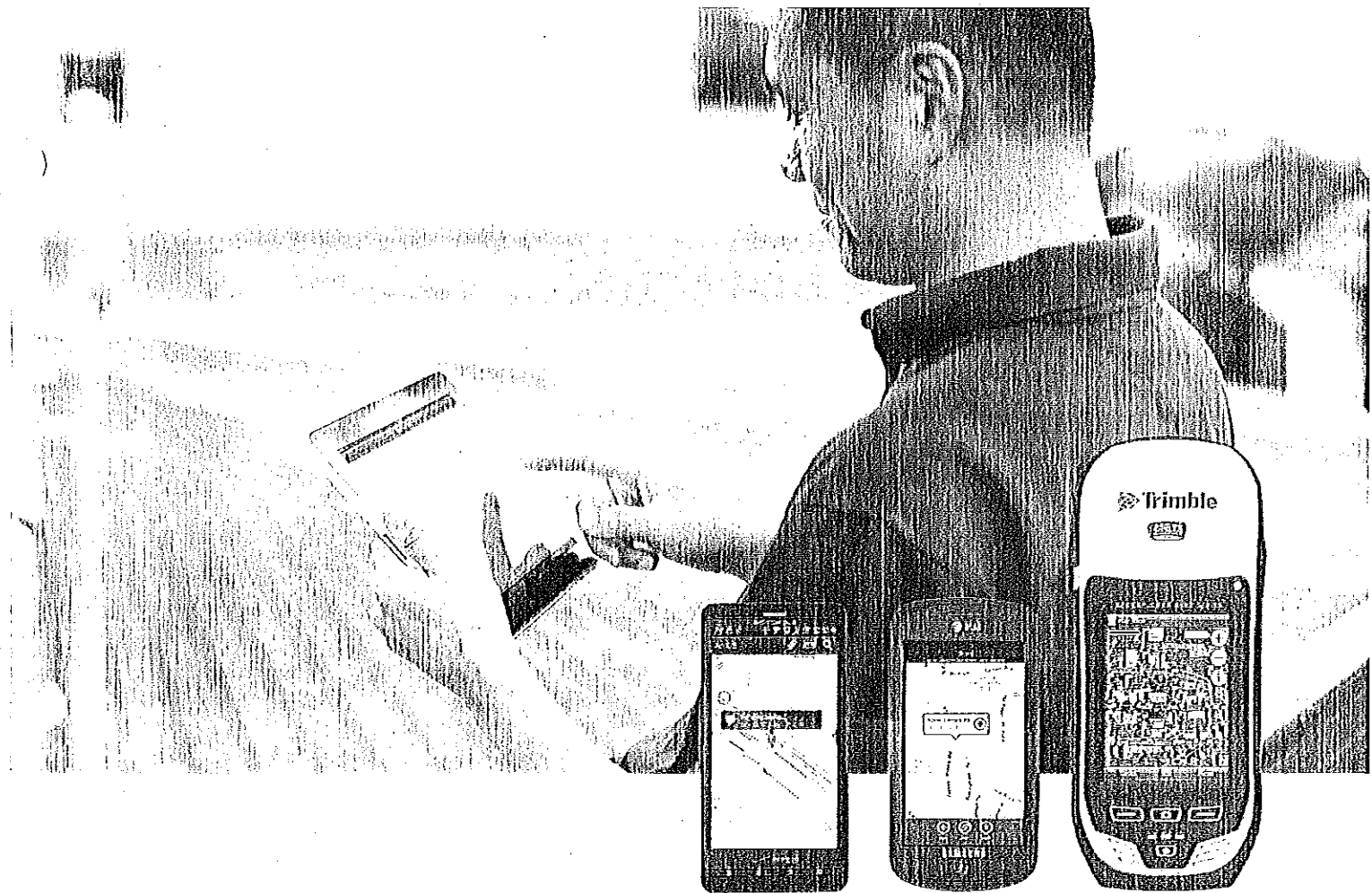


www.trimble.com
store.trimble.com



ArcGIS®

for Mobile





Making Your Mobile Workforce More Efficient

What Is Mobile GIS?

Mobile geographic information system (GIS) technology extends GIS beyond the office and allows organizations to make accurate, real-time business decisions and collaborate in both field and office environments. Mobile GIS will enable your organization to decrease task redundancy and keep data more current.

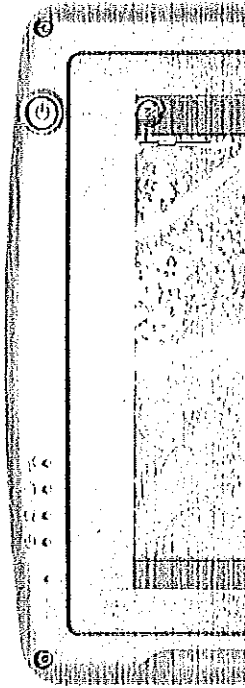
Benefits of Mobile GIS

- Improves efficiency and accuracy of field operations
- Provides rapid data collection and seamless data integration
- Replaces paper-based workflows
- Helps you make timely and informed decisions

Esri Solutions for Complex Projects and Routine Tasks

Esri understands the value of mobile GIS to organizations needing immediate access to up-to-date, real-time information, regardless of location, and offers a range of mobile field mapping applications that help you make more informed decisions in the field. These applications include

- ArcPad®
- ArcGIS® for Windows Mobile and Windows Tablet
- ArcGIS for Smartphones and Tablets



ArcPad

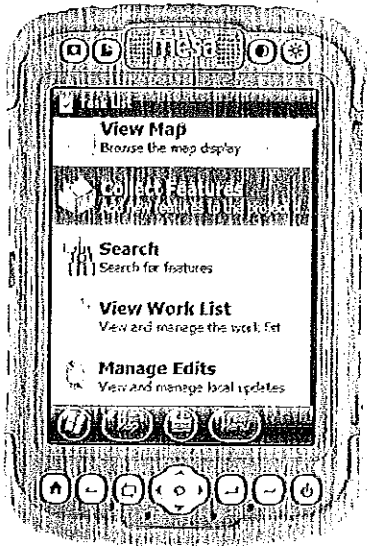
Mapcentric Windows Mobile and Windows Tablet-Based Field Mapping and Data Collection for GIS Professionals

ArcPad is mobile field mapping and data collection software designed for GIS professionals. It includes advanced GIS and GPS capabilities for capturing, editing, and displaying geographic information quickly and efficiently. Critical data can be checked in and out of a multiuser or personal geodatabase and shared throughout your organization.



ArcPad is part of an enterprise GIS solution and integrates directly with ArcGIS for Desktop and ArcGIS for Server to

- Perform reliable field data collection and inspection projects.
- Share enterprise data for rapid decision making.
- Integrate external GPS, range finders, and digital cameras.
- Increase the accuracy and validity of your GIS database.
- Improve the productivity of your field staff.



ArcGIS for Windows Mobile and Windows Tablet

Task-Driven Mobile GIS Applications for Windows Mobile and Windows Tablet Devices

ArcGIS for Windows Mobile helps organizations deliver GIS capabilities and data to a range of mobile devices. You can use ArcGIS for Windows Mobile to deploy mobile GIS applications that increase the accuracy and improve the currency of GIS data throughout your organization. These applications provide an accurate, reliable common operating picture for field staff.

ArcGIS for Windows Mobile comes with ready-to-deploy applications and a configurable software development kit (SDK) to create stand-alone mobile applications, embed GIS functionality into existing applications, and build custom tasks and extensions.

ArcGIS for Windows Mobile Applications

ArcGIS for Windows Mobile applications integrate with ArcGIS for Server and ArcGIS for Desktop to provide central management and deployment of mobile GIS data, maps, tasks, and projects.

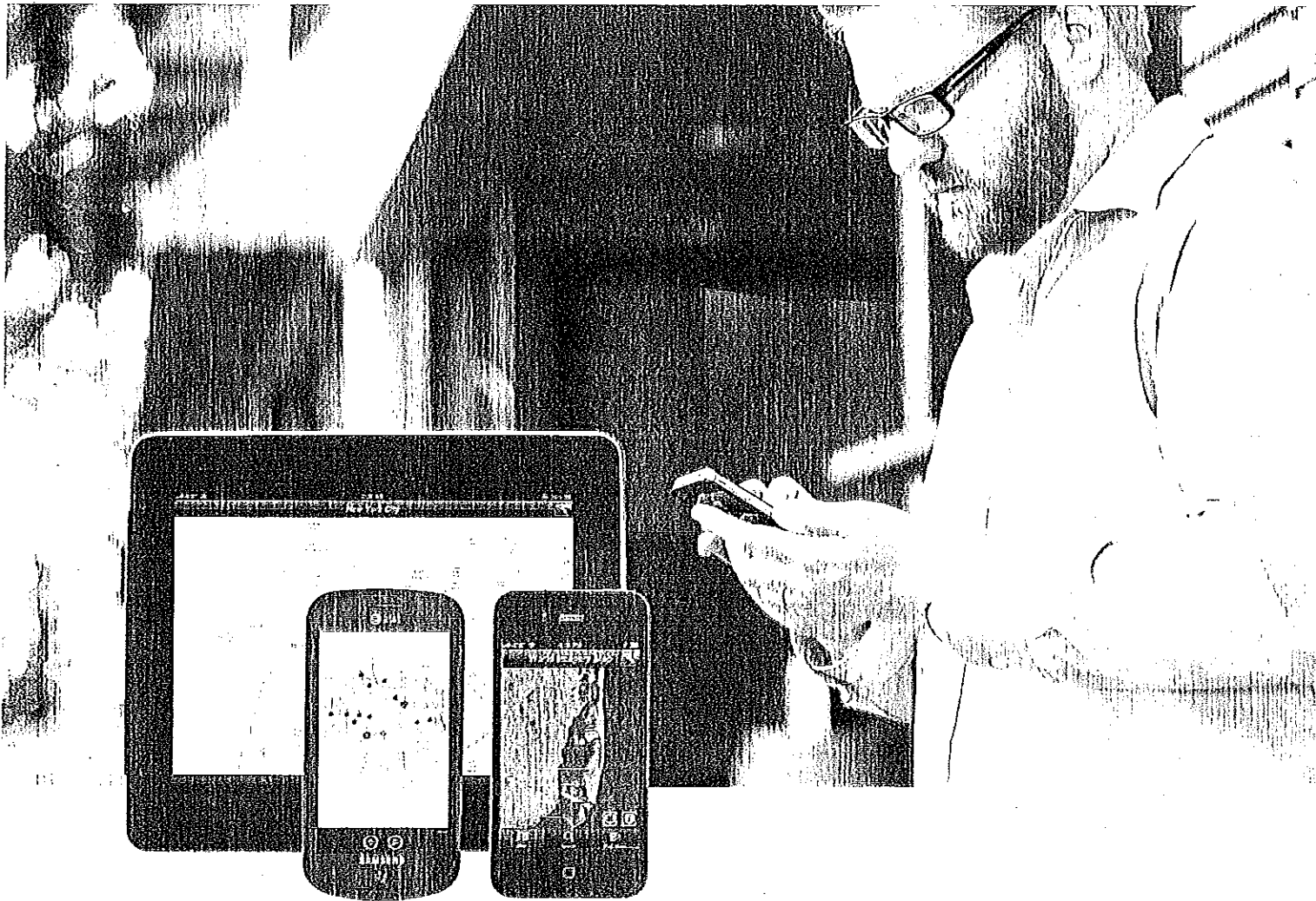
- View and navigate mobile maps.
- Collect, edit, and update GIS data in real time and share information with colleagues immediately.
- Search and manage tasks or plan future work.
- Rapidly deploy mobile GIS without needing to develop your own solution.

ArcGIS Runtime SDK for Windows Mobile

The included runtime SDK lets developers use simple tools to create lightweight, GIS-focused applications customized to users' needs:

- Create and deploy focused mobile applications that can operate in a connected or disconnected environment.
- Build geocentric applications that provide GIS functionality including map display, navigation, GPS support, and GIS editing.
- Enhance line-of-business applications, such as customer relationship management and field service automation systems, with geospatial capabilities.
- Get comprehensive developer support through the online Mobile Resource Center.





ArcGIS for Smartphones and Tablets

Map Navigation, Data Collection/Reporting, and GIS Analysis from Your iOS, Windows Phone, or Android Device

ArcGIS apps for smartphones extend the reach of your GIS to a wider audience. These are free applications that you can download from the Apple® App Store™, Windows® Marketplace, or Android™ Market. All three apps include a developer-focused SDK that you can leverage to build your own custom applications.

- Find and share maps from ArcGIS® Online.
- Use tools to search, identify, measure, and query.
- Collect and update GIS features and attributes.
- Perform GIS analysis by accessing geoprocessing tasks.

For Developers

The ArcGIS Runtime SDK for smartphones enables you to build applications that utilize the powerful mapping, geocoding, geoprocessing, and custom capabilities provided by ArcGIS for Server. You also have the ability to embed ArcGIS maps and tasks into your line-of-business applications.

- Use and display services from ArcGIS Online and ArcGIS for Server.
- Execute sophisticated geoprocessing tasks and display results.
- Create applications that collect and update data.

Functionality Matrix for Esri's Mobile Solutions

| | ArcPad | ArcGIS for Windows Mobile and Windows Tablet |
|--|--|--|
| Supported Devices | | |
| Smartphones | N | N |
| Tablets | Y (Windows Tablet) | Y |
| Laptops | Y | Y |
| External Devices | Y | Y |
| Operating Systems | Windows Mobile 5, 6 Windows XP, Vista®, 7 | Windows Mobile 5, 6 Windows XP, Vista, 7 |
| Network Connectivity | | |
| Wi-Fi® | Y | Y |
| Cell | Y | Y |
| Bluetooth® | Y | Y |
| In-Field Functionality | | |
| Task and Workflow Driven | N | Y |
| Disconnected Editing | Y | Y |
| Data Collection | Y | Y |
| Photo Collection | Y | Y |
| Ad Hoc Data Collection | Y | N |
| Editing of Layer Display Properties (symbolology, color, etc.) | Y | N |
| Map Services (via ArcGIS for Server) | Y | Y |
| ArcGIS Online Services | Y | Y |
| Share Maps (SMS, e-mail, social media) | N | N |
| Customization | | |
| Environment/SDK | ArcPad Studio | ArcGIS Runtime SDK for Windows Mobile |
| Application/SDK | N | Y |
| Application User Interface | Y | Y |
| Application Extensions | Y | Y |
| Application Add-ins | Y | Y |
| App Deployment | | |
| Enterprise | ActiveSync | ActiveSync |
| Website | N | Y |
| Application Store/Marketplace | N | N |

| ArcGIS for iOS | ArcGIS for Windows Phone | ArcGIS for Android |
|----------------------------|--------------------------------------|--------------------------------|
| Y | Y | Y |
| Y | N | Y |
| N | N | N |
| N | N | N |
| iOS | Windows Phone | Android |
| Y | Y | Y |
| Y | Y | Y |
| Y | Y | Y |
| Y | Y | Y |
| N | N | N |
| Y | Y | Y |
| Y | Y | Y |
| N | N | N |
| N | N | N |
| Y | Y | Y |
| Y | Y | Y |
| Y | Y | Y |
| ArcGIS Runtime SDK for iOS | ArcGIS Runtime SDK for Windows Phone | ArcGIS Runtime SDK for Android |
| N | N | N |
| N | N | N |
| N | N | N |
| N | N | N |
| iTunes® | Windows Phone SDK Tools | Android SDK Tools |
| Y (Enterprise) | Y | Y |
| Y | Y | Y |

ArcPad

- Advanced GIS capabilities that support ad hoc data collection
- GPS integration to facilitate postprocessing
- Support for related tables

ArcGIS for Windows Mobile and Windows Tablet

- Offers central management, configuration, and deployment of apps and projects
- Synchronizes GIS information from server and desktop clients
- Includes a .NET SDK for building custom applications

ArcGIS for Smartphones and Tablets

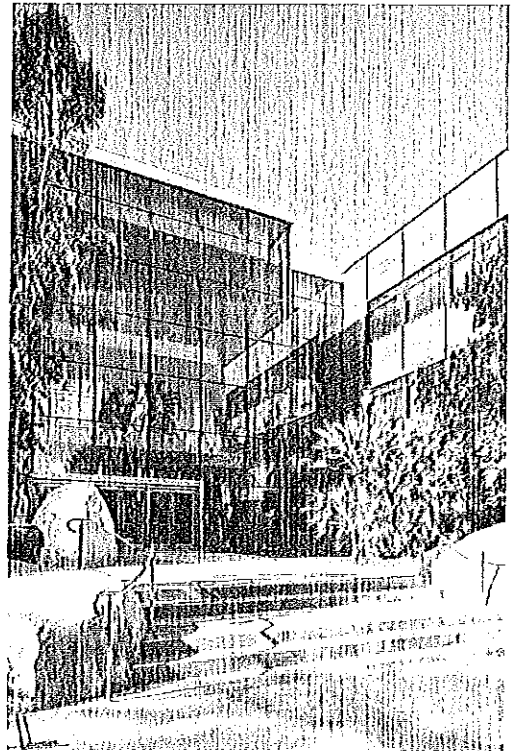
- Leverage ArcGIS using Apple iOS™, Windows Phone, and Android devices.
- Navigate maps, collect and report data, and perform GIS analysis.
- Access your enterprise GIS via ArcGIS Online or ArcGIS for Server.
- Use the developer runtime SDK to build custom mapping applications that meet your specific business needs.

Find out more about
Esri® mobile GIS products.
esri.com/mobilesolutions



Esri inspires and enables people to positively impact their future through a deeper, geographic understanding of the changing world around them.

Governments, industry leaders, academics, and nongovernmental organizations trust us to connect them with the analytic knowledge they need to make the critical decisions that shape the planet. For more than 40 years, Esri has cultivated collaborative relationships with partners who share our commitment to solving earth's most pressing challenges with geographic expertise and rational resolve. Today, we believe that geography is at the heart of a more resilient and sustainable future. Creating responsible products and solutions drives our passion for improving quality of life everywhere.



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PROFORMA: TZA23111AR

DATE: 7-May-13

ISSUED TO: UN DEVELOPMENT PROGRAMME / TANZANIA

ATTN: ALPHONCE KISESEBE

YOUR REF: RFQ: GPS & SOFTWARE

| ITEM | QTY | PRODUCT | UNIT | TOTAL |
|---|-----|--|------------|-----------------|
| 1 | 0 | GPS NO BID | 0.00 | 0.00 |
| 2 | 1 | ARCVIEW 10 SOFTWARE SINGLE USER LICENSE WITH MEDIA <i>OK</i> | 1,609.00 | 1,609.00 |
| 3 | 1 | MICROSOFT PROJECT STANDARD 2013 SINGLE USER LICENSE NO MEDIA <i>OK</i> | 405.00 | 405.00 |
| TOTAL FOB FACTORY | | | | 2,014.00 |
| FCA CHARGES | | | | 75.00 |
| DHL | | | | 75.00 |
| INSURANCE | | | | 43.00 |
| INCOTERMS 2010 TOTAL CIP DAR ES SALAAM AIRPORT, TANZANIA | | | USD | 2,207.00 |

Warranty: 1 YEAR

Delivery: 1-2 WEEKS

Language: ENGLISH

Validity: 60 DAYS

Electrical: 220V/50HZ/1PH

By: Orlon Poulin