



RFID Product Guide

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www.tracient.com

⚡ Automatic Identification with Tracient RFID

Tracient RFID products provide smart choices for Information Technology managers and business decision makers wanting to make the most of their investment in handheld and mobile technology. Whether you want to track mobile assets, people, or maintain and keep control of your inventory in the field - if it moves, it needs a mobile solution.

When it comes to asset management you need to know what it is and where it is. Asset visibility is becoming increasingly important in enterprise when delays in finding items leads to inefficiencies and shortages especially if you have valuable returnable assets in your supply chain; you need knowledge of custody and condition.

Now you can with Tracient's handheld wireless RFID solutions. We know about mobile workers. They need equipment that is lightweight, works all day and they don't need the hassle of plugging cables in.

Tracient readers are a cost effective add-on solution for enterprise systems that already use handheld computer or smart phone technology but where it is not desirable swap out equipment just to incorporate RFID automatic identification into the workflow operation.

Tracient uses Bluetooth technology and our own Blue-Glue software to integrate RFID technology with common, off-the-shelf devices such as headsets, GPS position receivers and handheld computers to create fully functional real time asset visibility systems, perfect for field service operations.

Even if you don't need "up to the second" knowledge out of your business our readers can be used offline, all by themselves to capture and identify objects, write information back on to tags and log over 1000 values complete with a record of times and dates. A single battery charge can give you over 20,000 read operations.

⚡ The Benefits are Clear

- Reduce paperwork and make fewer data entry errors.
- RFID can work in harsh environments, when bar codes won't.
- You can save information back to a tag for others to read.
- Real time visibility lets you make better decisions for work planning and asset flows.
- Speed up your processes, many tags can be read almost simultaneously.
- Automate your business processes to reduce labour costs.
- Generate performance metrics for service level or compliance adherence.
- Track time, people, parts, and events to decrease your response times to your customers.

⚡ Software integration is easy

- If you don't want to write software at all then our **RFIDWedge** application lets you grab data from the reader and pop it straight into your office application just like a bar code keyboard wedge. You can have a Microsoft Excel™ spreadsheet collecting tags in about 1 minute.
- Web based application developers can use our ActiveX™ control to create web browser applications that talk to our readers. That way you can run your application over the web with minimal software on your handheld.
- When you are serious about software integration we have a complete application interface library with wrappers for desktop and handheld devices running Microsoft Windows™, Microsoft Windows Mobile™ and .NET environments.
- Talk to us about having your application run as a Java J2ME midlet on your mobile phone, talking all the while to our RFID reader.

⚡ Discover RFID now

The first part of any introduction of new technology to your business is getting to know what it can do for you. **Tracient's RFID Discovery Kits** provide you with a comprehensive set of tools to enable you to simply explore the benefits RFID can bring to your business. To take the hard work out of it we provide you with application examples and three convenient ways to get your application up and running without having to spend all your time coding software.

⚡ Build it Your Way with Reader Modules

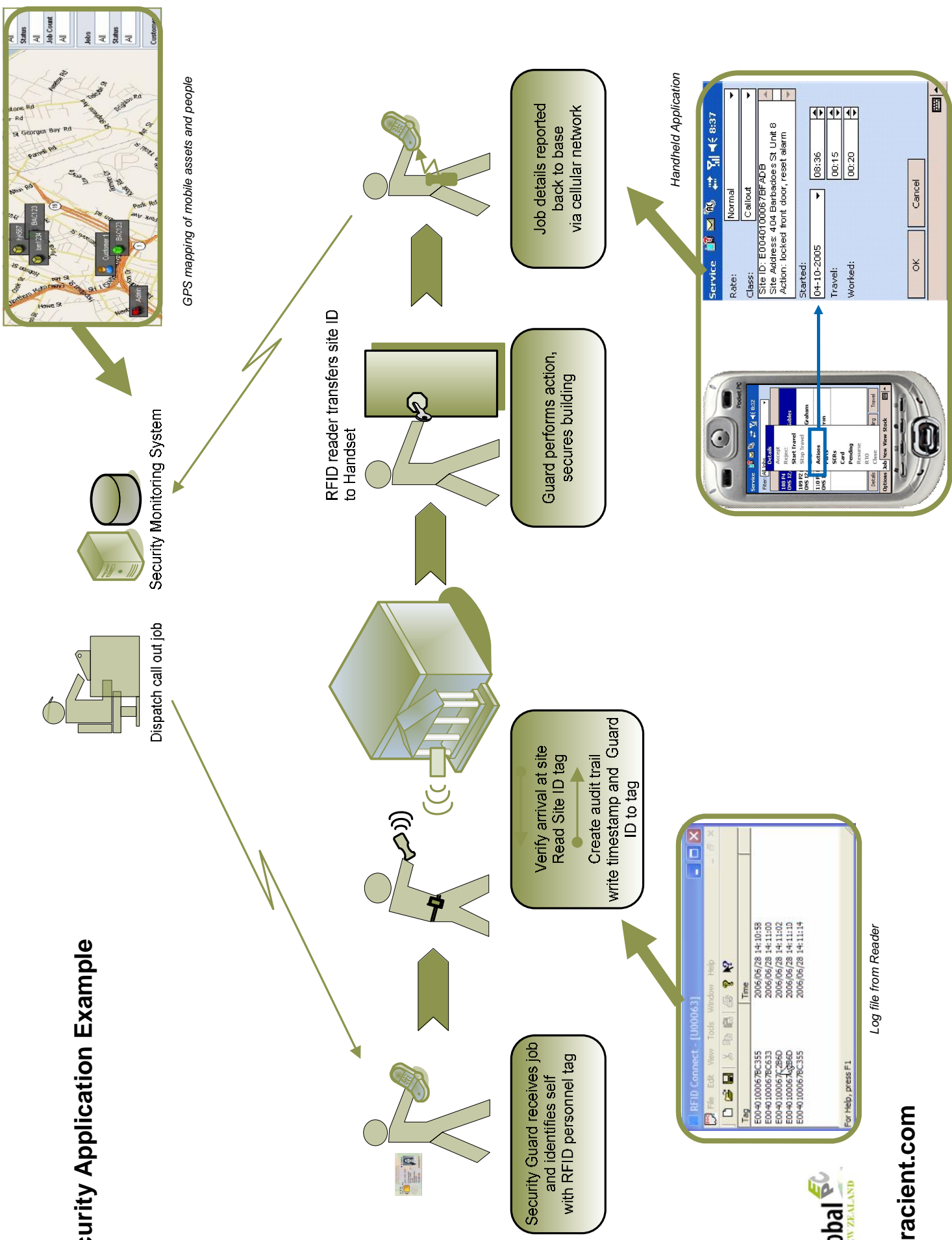
You can build your RFID solution yourself if you want. Tracient has taken the key features of our readers and turned them into module for OEM development. That way you can add on exactly the features you need. Tracient is unique in offering a fully featured module that will let you build a wireless portable RFID reader with virtually no extra work. Just put it in a box, connect up an antenna and feed it some power.

Just some of the features we offer on our module:

- Bluetooth connectivity
- Serial communications
- General purpose inputs and outputs for switches, indicators, buzzers timers, interrupts, analogue inputs and more
- High speed I²C expansion bus for additional memory, and peripheral device connection and integration with third party hardware.
- 50 ohm antenna interface
- Tag read/write capability
- Support for multiple RFID air interface protocols such as ISO 15693, ISO 14443, Mifare™, and I-Code™ tags.

When you come to planning your RFID project talk to us about our design services to guide you through the process. We offer full turn key design capability to customise products to your specific needs.

Security Application Example



🚀 Products at a Glance

	HF reader	HF ODM Module	UHF Reader
Operating Frequency	13.56 MHz	13.56 MHz	866 MHz
Typical Read range ⁽¹⁾	10 cm	10 cm	1.5 – 4m
Size (approximate)	210mm (h) x 70mm (w) x 15 mm (d)	44mm x 36 mm	110mm (h) x 65mm (w) x 50 mm (d)
Weight (approximate)	135 grams	15 grams	190 grams
Protocols	ISO 14443, ISO15693, Mifare, I-code, ISO18000-3	ISO 14443, ISO15693, Mifare, I-code, ISO18000-3	ISO18000 – 6B
Read/Write ⁽²⁾	Read/write	Read/write	Read/write
Interfaces	USB Bluetooth Class 2 (typically 10m range)	UART (TTL) I ² C for peripheral extension Bluetooth Class 2 (optional on board)	USB Bluetooth Class 2 (typically 10m range)
Power Supply	3.7 Lithium Ion rechargeable	5V dc user supplied	3.7 Lithium Ion rechargeable, optional heavy duty use available in pistol grip
Data logging	1000 tag values with time-stamps	None	1000 tag values with time-stamps
Typical operating time	25,000 read operations	n/a ⁽³⁾	20,000 read operations

1. Read range varies by choice of tag. 2. Read write capability depends on choice of tag. 3. Operating time depends on user supplied power input.. 4. Specifications are subject to change without notice.

Accessories and Extras

- Mains Charging Adaptor
- Vehicle charging Adaptor
- Lanyards and Hand straps
- Retractable Key Chain
- RFID Reader Discovery Kits
- RFID Tags
- Software Development Kits
- Prototyping Antenna



🚀 Where to Buy

Asia Pacific Vantex Technology Distribution (New Zealand)
Phone: +64 9 571 0775
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🚀 About Tracient Technologies

“Tracient provides “simple to use” Tools and Technology for Total Asset Visibility and efficient Tracking. “ Our mission is to make it extremely easy for mobile workers to positively identify assets and items as they move through the supply chain. The Company specialises in the design and manufacture of wireless handheld RFID readers designed especially for wearable computing, hand portable and hands-free operation. The products are designed to meet a range of market requirements but most notably for use in the demanding environments of mobile field workforce operations such as supply chain logistics and field service and maintenance or asset management applications. Tracient’s products are designed to ISO, EPC and ETSI standards and offer plug and play Bluetooth and USB connectivity with rapid integration into Workstations, Handheld Computers and Cellular Phones. Tracient also offers designs in licensable module forms that can be used by OEM developers and valued added design services. .

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