

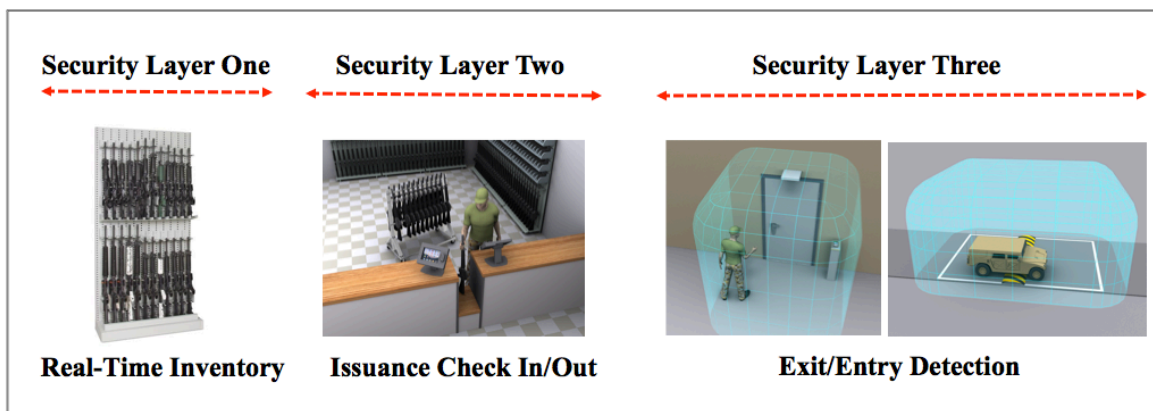
RuBee Three Layer Security and Asset Visibility Summary Visible Assets, Inc. Aug. 2014

RuBee® (IEEE 1902.1) provides real-time automated visibility, and the highest possible security, and Chain of Custody (CoC) of Mission Critical Assets -- Mission Critical Assets (MCA) are assets that simply can not be lost or stolen, worth far more on the street or in hands of terrorists or criminals than the cost to replace the physical asset. Visible Assets, Inc. (Visible® www.visibleassets.com) provides automated MCA visibility, CoC and security using three important security layers:

Security Layer 1: Real-Time, Storage Physical Inventory. Assets in storage in a warehouse on racks, shelves or weapons in armory racks or other secure facility have RuBee wireless tags embedded or attached. RuBee enabled smart racks and smart shelves turn the steel in these racks into an antenna, and Visible software applications do daily or hourly audit trails of each item and report inventory and asset status. Inventory can also be obtained manually with handheld, or automatically with smart shelf's and racks.

Security Layer 2: Issuance Check Out/In. When an asset is removed from inventory, we know it has been removed from shelf, but ownership and custody has to be transferred from a "storekeeper" to a new owner, a soldier or guard or asset guardian. This is done using ruggedized Issuance Stations known as **gRaps®** that drive a RuBee router reader. Tags are read as the asset is passed across the check out counter to record Chain of Custody and set security rules for the asset within a facility.

Security Layer 3: Exit/Entry Detection. When the asset leaves the facility RuBee portal platforms provide identification detection and alarms using **DoorGuard®** and **GateGuard®**. Both detect RuBee enabled assets and IDs as a person passes through a door or gate, on foot or in a vehicle. These systems have passed many objective User Acceptance Tests (UAT) with 100% detection of assets even if hidden inside a steel case or vehicle. Layer Three manages the security rules set by Layer Two.



RuBee Automated Three-Layer Security

Security becomes far more reliant on human trust with loss of any layer. RuBee reduces that human trust reliance with full “*process free*” automation in all three layers. For example, if something is removed from inventory off the racks, but does not get checked out an alarm is issued. If an asset exits facility but is not checked out, an alarm is issued etc.

RFID and barcode systems are blocked by steel and the human body. As a result security is based on new human processes focused only on Layer 2. Both become human assisted asset tracking systems, not real-time automated security systems. Visible has repeatedly proven that RuBee is the wireless technology that can provide fully integrated, visibility with three security layer automation.

	Real-Time Automated Asset Security + Visibility	Human Assisted Asset Tracking	
	←-----→	←-----→	
Security Layer	RuBee	Barcodes	RFID
1. Physical Inventory of Assets	Real-Time Automatic	Manual Delayed	Manual Delayed
2. Issuance Check In/ Out of Assets	Real-Time Automatic	Manual	Manual
3. Sensitive Exit/Entry Detection of Assets	Real-Time Automatic	Not Available	Not Available

RuBee also delivers a high Return on Investment (ROI). Independent customer studies consistently find payback of few months. Physical inventory required for most mission critical assets can take 2-3 people from a few days to weeks. Visible has several customers who require audited physical inventory reports each quarter, but it can take almost entire quarter to do just one audit. RuBee in Layer 1 does unchallengeable physical audits in a few minutes many times each day.

How does RuBee wireless provide three security layers?

RFID cannot provide any more security over a barcode system. Exit entry detection is not possible with RFID, because the RF signals are blocked by people, and automatic inventory is not possible because steel racks and shelves also block RF signals. RFID becomes line-of -sight in harsh environments.

RuBee wireless is magnetic not Radio Frequency (RF). Each tag on a RuBee network is like a mini-web site with a programmable address and subnet address. Tags have static memory (500 bytes to 5 kB) with a real-time clock and a processor that has the ability to securely encrypt transmissions. RuBee tags are not blocked by steel or by humans. RuBee can actually go through steel and liquids (see www.rubee.com). Unlike RF wireless systems, RuBee has ability to control range from a few inches to over 50 feet and therefore has no tempest, target or eavesdropping risk. RuBee is the only wireless technology in use and permitted in secure areas in the US. RuBee has no known intrinsic safety risks and has been shown in independent studies to be safe with a zero Safe Separation Distance (SSD) on high explosives. RuBee is many millions of times below OSHA human safety limits, and independent studies at Mayo clinic have shown no untoward effects on pacemakers or ICDs. RuBee embedded tags can also have sensors to monitor the status of an asset. Visible has embedded tags for weapons that count shots (Allegro 20/20), and provides maintenance information, e.g. when to change barrel or bolts based on how the weapon is used.

Visible uses Enterprise Software systems based on embedded Oracle or open source products (Dot-Tag, Armory 20/20, Asset 20/20) and provides automated "process free" visibility and security for Mission Critical Assets, cost effectively with an attractive ROI. RuBee Visibility Networks are installed in 1,000 + worldwide sites.

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