

Registered Office:-

75/7, 1st Floor, 'Nucleus House'  
Temple Road, Nawala, Sri Lanka  
[www.Nucleus-sl.com](http://www.Nucleus-sl.com)

**Operations & Support Office:-**

531/8 Wijeinghe Gardens,  
Pita Kotte, Sri Jayawardenapura, Sri Lanka



### Where is it? - Asset Tracking - Asset Management

RFID can be used to track more things than can be imagined, from tools to toilets and people to paintings. NUCLEUS T&M RFID can help you develop systems that can either track items from zone to zone or help you pinpoint specific location of items. You can now track or locate high priced or mission critical items anywhere, anytime using NUCLEUS T&M RFID's diverse hardware and LocateWare™ RFID middleware.

**Customer Care & Behavior:** Tracking and locating capability may be a security or health and safety requirement. NUCLEUS T&M RFID's solutions satisfy the needs of a diverse community of users. Our full range of RFID readers, tags and software can be used to support first responders, secure parking areas, track admission to secure areas, track and locate critical assets such as computers, test equipment and life saving apparatus. Manufacturing is using RFID to track WIP (work in progress), semi-finished goods and finished goods. Transportation and logistics now have a cost-effective way of tracking goods in transit as well as the associated moving equipment itself.

NUCLEUS T&M RFID has watched the RFID landscape continually change and has kept pace with these changes by introducing an ever expanding portfolio of technologies to satisfy the broad variety of business requirements. NUCLEUS T&M RFID offers solutions that utilize low frequency (LF) and high frequency (HF) for the livestock tracking and monitoring industry. Access control solutions can require the rigid standards of HF or the flexibility of UHF (Ultra High Frequency) or active technology.

**Healthcare:** Valuable and mission critical assets exist on many environments. Healthcare uses RFID to track and locate mission critical assets. Healthcare is also using RFID to improve patient bedside care protocols, establish safeguards for the tracking of movement of new born babies as well as safeguard the custody of senior patients. UHF combined with LocateWare™ is a cost effective way of tracking the movement of assets within an enterprise. Active technology combined with LocateWare™ can be used to locate assets within any monitored space, indoors or outdoors.

**Manufacturing:** NUCLEUS T&M RFID is helping manufacturing to track WIP and assembly line components and tools. A manufacturer's inability to locate semi-finished goods when required can severely impact productivity. Active RFID working in combination with LocateWare™ can eliminate hours of searching for tools and products. Active RFID is addressing the problems related to bulk storage and retrieval. When a traditional warehouse setup is not practical, active RFID can be the solution.

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**Security and Safety:** We live in a time of heightened security. RFID is being used to track items and people in and out of secure and sensitive areas. RFID is being used to monitor and control vehicle access and individual access to specified areas. NUCLEUS T&M RFID has a complete cross-section of RFID technologies that address virtually any security requirement and LocateWare™ software to provide reporting and accurate audit details for any environment. RFID is being used by first responders to track individual movement and locate valuable assets within a monitored area.

**Valuable Assets:** RFID is being used to track and locate valuable assets such as computer and computer room equipment. Museums and art galleries are using RFID to track and secure valuable artifacts. RFID is being used to monitor continuous custody of critical or valuable items. Continuous and verified chain of custody is critical in a number of fields including law enforcement

### **RFID Solutions for Field Service**

Organizations employing fieldworkers all have business influences such as worker productivity, customer service and cost reduction that flow directly to the bottom line profitability of the business.

Commercial and Residential HVAC, Utility Power Generation and Distribution, Subway, Railway, Electrical Contractors, Commercial Lamping and relamping, Mechanical Contractors, White Goods Repair, Commercial Freezers and Cooling Repair, Plumbers, ATM Service and more carry specialized inventories that are needed to perform the correct services within a reasonable timeframe.

RFID tags can be read when dusty or dirty and in almost any environmental condition offering a superior alternative to inaccurate manual data entry or bar code label technology that does not have the life or readability rate that RFID tags do. Some RFID tags also have additional memory capacity making them ideal for the fieldworker industries to store maintenance and repair histories.

Organizations that repair and maintain assets can utilize RFID technology to reduce the number of parts required on a service vehicle, eliminate manual data entry, improve productivity, and improve customer service. These benefits all contribute to the overall health and profitability of the business.

### **5. Size of Tagged Items**

How large are the items to be tagged? Keep in mind that smaller isn't necessarily better when it comes to tags. Tag performance generally decreases with size, so it's advisable to use the largest size possible that fits the object. Consider high volume, general purpose mainstream tags, and then migrate to high-end or custom options if

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necessary. If the item is difficult to tag, you may want to select a tag designed for high performance. If dimensionally restricted, and a vertical orientation is desired, then consider use of a 2x2-inch square tag.

