

RFID SURVEY

PROFESSIONAL SERVICES

Radio Frequency Identification (RFID) Site Survey Professional Services

Code: PS-SV-RFID-01

Overview

One of the main challenges of implementing an RFID system is finding out what in your facility will affect the RFID tags and transmission of data. It is critical this be determined since the tag readability and system accuracy depends on a total understanding of the RFID physics and variables in the environment it will operate in and ensuring the proposed solution is designed and engineered accordingly. A site survey will also ensure that optimum economics are achieved and the system is neither over nor underequipped while ensuring the avoidance of performance issues that are costly to fix.

When considering the use of RFID equipment, it can be difficult to predict the propagation of radio waves and detect the presence of interfering signals without conducting a site survey. Every environment where RFID is to be installed can be expected to be different from an RF perspective. Interference from wireless networks, short-range radios, cordless phones, and so forth can dramatically and negatively affect RFID system performance. Sources of this interference can be behind walls, around corners, or otherwise hidden.

A RFID (Radio Frequency Identification) site survey constitutes a physical review, analysis, recommendations and report by a qualified RFID Engineer of the premises or site where RFID infrastructure and equipment will be installed to track the movement of RFID-tagged assets, property and inventory. The survey provides a complete understanding of customer requirements for an RFID installation in the context of the facilities where it's to be deployed and identifies the feasibility of successfully deploying RFID technology and determines optimal locations for the physical installation of RFID readers and antennae, taking into account such factors as metal interference, power supply, mounting options and IP network connectivity. This includes documentation and integration requirements for systems requiring integration with the RFID network.



Site Survey Scope of Work

PT. Autojaya Idetech / PT. Solusi Periferal can help determine whether RFID is right for your application and how best to apply it. We work with you at your site to design an RFID solution and select the right equipment. The RFID Site Survey Services Include:

- a. Review the site layout and materials movement patterns.
- b. Interview site staff, as needed, to determine the proper locations of RFID read points.
- c. Determine placement details of RFID readers and antennas to provide high read performance at each RFID read point.
- d. Identify point(s) of connectivity into the existing network infrastructure.
- e. Evaluate Radio Frequency (RF) interference for each potential RFID read point location.



RFID Site Survey Report

A RFID site survey determines, among other things, the number of unique RFID Zones, or cells, of coverage for a proposed system. Our RFID Systems Engineer will provide a full featured site survey analysis of each individual facility defined by the user.

After survey each facility to gather information for implement the RFID System, the RFID site survey reports will generate documents contains information and technical recommendation about:

- 1) A site diagram that indicates recommended RFID read point locations.
- 2) Recommended RFID hardware interconnection to the existing network infrastructure.
- 3) Complete Bill of Materials with recommended installation services needed to successfully
- 4) Implement RFID tag reading at recommended RFID read point locations.
- 5) Recommendations for placement of bollards or guards to protect the RFID hardware.
- 6) Recommended activities for installation/commissioning recommended hardware.



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