

Significance of RFID and Warehouse Management Systems

Warehouse management is a very important component of supply chain and has gained a very great deal of significance in today's age. It includes a large number of activities such as transportation of materials and goods, picking, tracking, packing and maintenance of the inventory level, etc.

This process also includes the large checking number of boxes with the packaging number; product code which is performed manually definitely consumes a lot of time and accumulates a load of paperwork. In this competitive age, it is very important to have an efficient [warehouse management system](#) in the global business environment.



Companies also have started to implement different systems in their warehouses. One of the systems that are implemented by the warehouse systems which use the radio waves for the exchange of data between an electronic tag that is attached to the object and a reader for identification and tracking is RFID. RFID stands for Radio frequency identification.

Manage Your Inventory in the Best Way

RFID consists of three fundamental components that are RFID reader, RFID tag and the required hardware and software for communication. The tag of RFID consists of a microchip that is attached to a radio antenna which is then placed on the object that is to be recognized. To retrieve the data stored in the tag, a RFID reader is utilized that transfers the information to a computer system in place for the collection of data along with the help of antennas that emit radio waves.



The data which is transmitted by the tag might provide the information about location and identification or specification about the tagged product like the color, date of purchase, price, etc. [Radio Frequency Identification](#) tagging is used in the supply chain management as an option to the technology of bar code.

Your Inventory Gets Sorted With RFID

Though they are more expensive to use in comparison to the bar code stickers, RFID tags do not fall or get dirty or need an unobstructed line -of-sight between the reader and the tag. When compared to the barcode reader that needs clean and clear optics along with abrasion free labels to be observed with lasers, RFID enables the reading of tag form a larger distance even in the tough environments.



With the assistance of the **RFID** manufacturers, retailers and distributors can maintain extreme levels of inventory and get an effective track record regarding how and what are the sales in the past business days. Moreover, this management system also facilitates the entry of data automatically rather than making manual stock entries on the document first and then type that into the computer.

This saves a lot of human efforts and time. The technology consists the potential of detection of missing shipments and makes the management aware that leads to a better regulation over the storage and management of the materials in the warehouse. This also facilitates the magnification of the efficiency of the shipment and receipt of goods which further allows the employees to maintain and improve high levels of customer service.