



Quick Facts

- MphasiS is headquartered in India with offices worldwide
- 34,000+ employees
- More than 10 years of global service delivery
- Service Portfolio: Applications, BPO and ITO

Recognitions

- Ranked among the Top 10 in IT infrastructure, Finance & Accounting Outsourcing, and Human Capital Development by Global Services 100 companies' survey in 2009
- Ranked No. 7 in the Top 20 IT Software and Service Exporters in India by NASSCOM Snap Survey in 2009

RFID has emerged as the leading solution for many applications. Electronic toll collection, access control systems and vehicle immobilizers are all systems that would not be nearly as efficient or effective without RFID technology. In Asset Management and Inventory Control, Returns and Recall Management, Library Information Systems, RFID technology plays a crucial role in improving efficiency, increasing productivity, optimizing costs and ensuring security. RFID enables Real-time reporting of store inventory drives restocking to increase sales. The technology allows Real-time inventory visibility resulting in unified supply and demand model leading to improved yield. Organizations reduce costs with reduced processing and audit expenses. RFID's ability to track product throughout the value chain leads to higher margins.

MphasiS in RFID

MphasiS helps improve Sales and Inventory with RFID. We offer world class solutions that improve supply chain efficiency and customer service through RFID technology. Our solutions leverage reusable components reducing time to develop and integrate with existing client processes and applications with minimal effort leading to shorter deployment time and resulting in faster ROI realization for our clients.

Benefits of RFID :

Operational Efficiencies	Total Supply Chain Visibility	Shrinkage, counterfeit	Security, Regulations
<ul style="list-style-type: none"> ▶ Shipping and Receiving ▶ Warehouse management ▶ Distribution ▶ Asset management 	<ul style="list-style-type: none"> ▶ Inventory visibility in warehouses ▶ In-transit visibility, asset tracking ▶ Pallet, case level ▶ Item, instance level 	<ul style="list-style-type: none"> ▶ Reduce internal theft ▶ Reduce process errors ▶ Avoid defensive merchandizing ▶ Product verification ▶ Origin, transit verification 	<ul style="list-style-type: none"> ▶ Total asset tracking ▶ Defense supplies ▶ Container tampering ▶ Animal Tracking

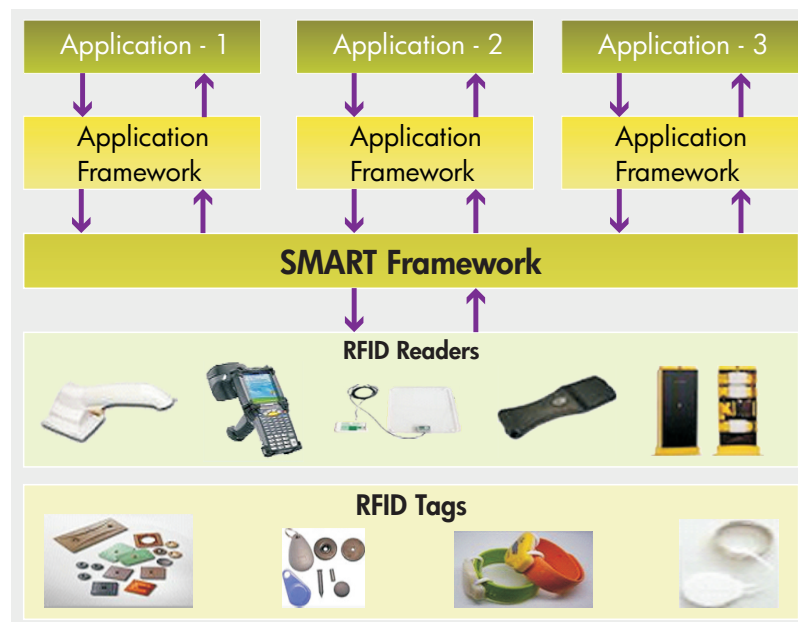
RFID Solution Verticals

MphasiS RFID offerings spread across industries including financial, retail, manufacturing, health care & life sciences, logistics and consumer electronics. Our team of experts are well versed in technology practices for architecture, business analysis and development. We bring industry best practices to deliver solutions from our MphasiS RFID Technology Lab. Our extensive body of work has brought measurable, tangible benefits to companies in the following verticals:

Retail	Healthcare	Service & Hospitality	Manufacturing
<ul style="list-style-type: none"> Shelf Management Assisted Shopping Shelf Checkout Inventory Management Theft control system EAS Supply Chain Management Jewelry management Loyalty Programs Warehouse management Baggage Parcel tracking Plano grams 	<ul style="list-style-type: none"> Patient ID Specimen Identification Laboratory Sample Identification Blood bag/ Medication Identification Medical Equipment Identification Medical Record Identification and Tracking Counterfeit Drugs Prevention Disposal of waste Patient safety 	<ul style="list-style-type: none"> Customer/ Member ID Loyalty Card Ticketing Asset Management Secure Access Control 	<ul style="list-style-type: none"> Product Identification Pallet/Batch Identification and Tracking Work-in-Progress Tracking Logistics and Warehouse Management Shelf Management Asset Management Inventory Management Anti-counterfeit (Brand Protection)
Education	Public Administration	Miscellaneous Implementations	Defense
<ul style="list-style-type: none"> Student/Staff ID Library Management Attendance Recording Electronic Purse Physical/Logical Access Control 	<ul style="list-style-type: none"> License/ Permit File & Document Tracking Electronic Stamp Parking Management Transport Ticketing Toll Collection 	<ul style="list-style-type: none"> Automatic Vehicle Identification Railway Wagon Identification Container Identification Laptop Identification Animal Identification Crowd Management Museum Artifact Identification 	<ul style="list-style-type: none"> Soldier ID Confidential Document Tracking Weapon Identification Ammunition Tracking Security Stamp Asset Management

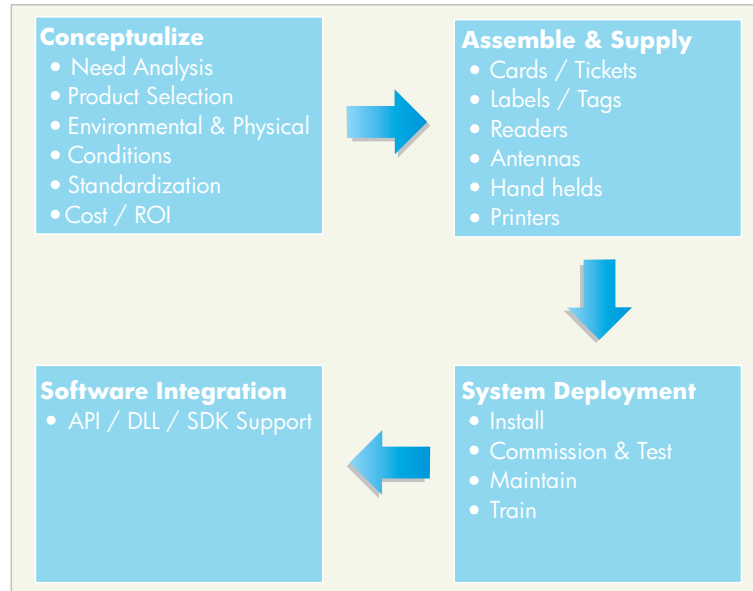
SMART (Solution for Managing Assets using RFID Technology) Framework

We deploy mature processes and industry best practices in our delivery. Our process straddles critical areas of Business Process Transformation, EPC network implementation and Global Data Synchronization Network.



- o SMART is an add on to any application which needs to migrate to RFID Technology
- o Application need not worry about the dynamics of the RFID
- o Faster go-to market. It takes just one week time to integrate with an existing application

RFID Process



Why MphasiS?

- MphasiS has dedicated pool of experienced industry resources
- MphasiS RFID Lab constantly strives to provide framework and architecture that involves best in class components and processes/methodologies based on industry standards
- Complete Project Management (System Integration & Application deployment)
- Quick implementation and pre and post implementation support
- MphasiS has successfully carried out over a dozen RFID implementation across various industries.
- We design processes and implement best of the breed RFID technology that the client wants today
- MphasiS is vendor agnostic
 - We can leverage alliances with a wide range of technology vendors and service providers.
 - We develop the optimal technology solution based on a client's needs rather than on our own product lines.
- We develop pilots to prove concept and to understand how to drive payback for our customers
- We develop a phased approach to get to full production. The phased approach allows the client to achieve minimal compliance using technology available today, while allowing the client to postpone the decision on which technology to deploy widely (until standards and technology reach maturity).

Business Case

Client

A leading jewellery store.

Objective

To provide a RFID based Stock Reconciliation & Electronic Article Surveillance System

Business Issue

- **Time Consuming Stock Check** - 8 resource and 8 hours of manual physical stock check
- **Time spent on customer interaction** – Cut down the sales activity with productive interactions
- **Existing Bar code limitation** - Client wanted to do away with bar code limitations

Solution

The following are the details of the turnkey solution deployed at the client's point-of-sale in the exhibition

- Reusable tamper proof tags (including Plastic Pouch and Interlock string) were attached to the Jewellery ornaments)
- HF RFID tags were programmed with relevant parameters into the database
- Stock reconciliation was activated by RFID based handheld reader on periodic basis during business hours
- Upon billing of the sold ornaments, tags were detached and reused
- At the end of the business hour, RFID based stock check was taken and matched with opening and closing stock in the ledger
- PDA with RFID reader was used by the sales team to provide quick information about the jewelry items

Benefits

- Client was able to close the business hours late and still manage a quick inventory in time
- Elimination of individual stock checks of the ornaments
- Quicker turnaround time with RFID technology
- Reusable components rather than printing each time
- Product identification on the spot instead of referencing each time

About MphasiS

MphasiS is a leading Applications, Infrastructure Technology and Business Process Outsourcing services provider. The company delivers real improvements in business performance for clients through a combination of technology know-how, domain and process expertise. With currently over 34,000 people, MphasiS services clients in Financial services, Manufacturing, Healthcare, Communications, Media & Entertainment, Transportation & Logistics, Energy & Utilities, Consumer & Retail industries and Governments around the world. To know more, visit www.mphasis.com

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