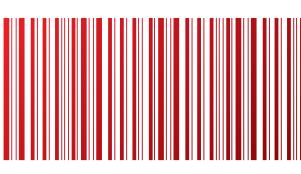


Delivering the value of RFID & Barcode Technology to all businesses







MSM Solutions has been providing exceptional service and innovative applications for more than thirty years. As the leading integrator of barcode and RFID products, MSM Solutions matches the best technology to each customer's business goals.

PortalTrack Software is a customizable software solution trusted by the world's leading brands. PortalTrack identifies, counts, tracks and manages millions of objects every day.

Founded in 1981, MSM Solutions is headquartered in Memphis, Tennessee, and services customers around the world

"MSM Solutions is a result of 38 years of sustained growth and reflects out core values and principles of customer first service and support. At the end of the day, we are a solutions company that places a premium on research and development in order to provide the best thermal printing, mobile computing, RFID and software solutions for our customers"

Rick Summers, President and CEO, MSM Solutions



Technologies

By partnering with leading technology providers, MSM Solutions has helped enable thousands of companies across multiple industries around the world, to use automation and data-capture technologies such as Barcode and RFID.

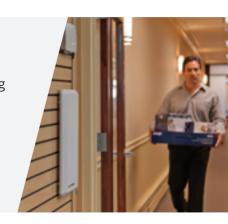


Barcode

Whether it's automating simple or mission-critical processes, tracking items and assets, or managing inventory, barcoding has become a core data collection technology for any enterprise competing in today's global economy. And as the technology continues to evolve, solving new and more complex business challenges, MSM Solutions remains at the forefront, partnering with industry leading hardware providers, and delivering tailored barcode solutions to a diverse set of global customers.

RFID

MSM Solutions has over a decade of experience designing, integrating and managing cutting edge RFID systems for some of the largest and most recognizable brands on the planet in retail apparel, healthcare and manufacturing industries. By partnering with the world's leading RFID hardware companies and utilizing its own proprietary PortalTrack software, MSM Solutions is able to help companies achieve complete control of their businesses from source to sale.



Mobile

From the point-of-origin to the point-of-sale, mobile technology has transformed the way businesses operate and service today's on-demand expectations. The ability to maintain productivity and deliver efficiencies at every stage of business has never been more important, and with the rapid change in mobile computing and the demand for intuitive experiences across multiple mobile platforms, it's never been easier.

Printing

When the success of your business is dependent on moving items from point A to point B and beyond, the quality of your printed labels and barcodes becomes increasingly important and reliant on the printing technology you use. For over 30 years MSM Solutions has delivered an array of printing solutions for some of the world's most demanding fixed and mobile printing applications.









Healthcare and Pharmaceutical

MSM's PortalTrack Healthcare software has been deployed in mission critical situations across the entire healthcare supply chain. Our cloud-based architecture allows for redundancy while backing up and gathering critical information in a secure format. It can be implemented as a standalone or an integrated solution with Oracle, SAP and other ERP systems. Unique serialization of items allows for greater inventory accuracy, drug and vial tracking, brand authentication and security.



Retail and Apparel

The benefits of RFID extend well beyond the retail floor. While the PortalTrack RFID system enables retailers to quickly manage stock levels and take cycle count inventories, apparel manufacturers utilizing RFID inventory management systems also gain efficiencies through more accurate pick/pack operations, validation that the right product is shipped, improved inventory accuracy, automated shipping and receiving, and perpetual inventory system enablement.



Automotive and Manufacturing

Deploying RFID technology is a challenge. However, the increased speed, inventory accuracy and visibility that RFID brings to the automotive industry is proven. MSM Solutions' PortalTrack® makes it easy to integrate RFID technology across a variety of operations and hardware to do exactly what your business case requires.



Distribution and Logistics

Whether you're tracking cases, pallets or individual items, PortalTrack inventory tracking software will allow you to spend less time on asset management while simultaneously increasing accuracy and inventory levels. Designed on a scalable platform, MSM Solutions' PortalTrack software operates as a standalone or an integrated data management tool for information tracked through RFID and barcode systems.



RFID Expertise

By partnering with the world's leading RFID technology companies and leveraging over a decade of proven RFID integration experience, MSM Solutions has the RFID system and RFID product expertise to deliver complete RFID solutions.



EPC Printing and Encoding

PortalTrack's EPC-compliance solutions have been deployed globally by some of the world's largest manufacturers and most recognizable brand owners. Constructed on a scalable platform and utilizing cloud-based architecture, Portal- Track will ensure that you meet all of your EPC tagging requirements, including compliance with industry and legislative guidelines on consumer protection, consumer privacy and security.

Zone and Item Tracking

Whether it's in the back of your warehouse, on a shelf in a laboratory or on pallet in a regional distribution center, PortalTrack and the RFID experts at MSM enable businesses to track, locate and manage their items and assets in real-time. Businesses no longer have to ask "where are my things?" because they will always know, thanks to real-time item visibility and real-time intelligent analytical reporting.



Sol

Software Application and Integration

MSM Solutions in-house engineering team has the software and hardware expertise to bring efficiency and accuracy to all of your unique business's processes. Whether you want to deploy a standalone or cloud-based system, connect to a PLC interface or integrate with a WMS or ERP system, the experts at MSM can integrate its PortalTrack software solution into your existing business operations.

Brand Protection

Every year major retailers and brand owners experience the pains related to having their merchandise stolen and sold in grey markets, or having their products counterfeited and sold as genuine. Thanks to PortalTrack's RFID technology, businesses can create a digital DNA for each and every item, safeguarding themselves from these billion dollar issues.





Barcode Expertise

Whether you need to read a 1D, 2D, QR or Matrix type barcodes, MSM has over 30 years of proven barcode system integration experience and can determine the best barcode data collection solution to fit your business and application needs.





Shipping & Receiving

Whether its receiving items for downstream production or shipping finished goods to distributors and customers, errors in these operational areas can have serious effects resulting in delayed production, additional labor costs and products not leaving on time. With RFID technology you can be confident that the right products get shipped to and received at the correct destination every time.

Inventory Management

In today's ultra-competitive global business environment, conventional methods of tracking inventory and locating items such as manual data entry and human assisted scanning are extremely inefficient and costly to perform. When inventory counts and locations are inaccurate or delayed, sales are lost, product is wasted and labor costs increase.





Automatic Print and Apply

High speed in-line label and barcode printing is one of the most efficient ways to increase accuracy and reduce labor costs. MSM's automatic 'print and apply' label and barcode printer systems are designed to run 24/7 and can be integrated with existing PLC controls, in-line barcode scanners or fixed RFID readers.

Labels and Media

If you are seeking labels of virtually any kind, MSM Solutions is here to serve you. No matter what type of business you may own or what your labeling needs are, MSM Solutions offers a wide variety of products that will help take your packaging and other materials to the next level.







Experience the Power of Controlling

All Your Auto-Identification Data with PortalTrack.

MSM Solutions PortalTrack gives you the freedom to tailor your RFID and Barcode data collection applications for real-time monitoring and analytical reporting of your business activity. Through cloud-based and Internet of Things (IoT) architecture, PortalTrack integrates into a variety of host systems and can be embedded in the latest hardware technologies.

MSM Solutions provides a turnkey solution with on-site hardware and software integration, high volume printing and encoding of RFID tags, fixed and Mobile RFID readers, and best in class technical support and training. PortalTrack keeps your business connected and can meet all your organizations needs.



Real Time Visibility

Data is delivered instantaneously from Passive and Active RFID devices. Data can be emailed or presented in customized dashboards and maps, on a variety of devices.



Event Monitoring

PortalTrack can generate real time notifications and actions to safe guard your processes. Alarm, video and email notifications can be activated when certain conditions are met within your application.



Randy Kennedy, Chief Logistics Officer at Randa Logistics

"The real time visibility and reporting

and more timely decisions. Knowing

delivered has allowed us to make better

exact counts and the exact locations of items in a facility this size has eliminated

wasted labor costs searching for items,

prevented shipment delays and helped

that MSM Solutions PortalTrack

us avoid chargebacks"

Pinpoint Accuracy

Locate and track inventory and assets within inches of the location. PortalTrack uses the latest RFID technology from leading manufacturers.



Device Manager

Management of external hardware is seamless within PortalTrack. External printers/encoders and sensors can be maintained via web-based interaction.



Platform Integration

PortalTrack can be deployed to a variety of platforms to include mobile, desktop and web-based systems. Fast adoptability is a reality. Integration to a variety of ERP, WMS, and proprietary systems. MS SQL Server, Oracle, MySQL, Android, FTP/SFTP, XML and Web Services.



Robust Design

Fully customizable – you make the rules, we don't. Scalable solutions range from select area monitoring to enterprise-wide applications. Reporting features can be tailored to fit your needs.



Customer First Service & Support

When the success of your company is dependent on moving products out the door, printer interruptions and equipment downtime can have costly effects far beyond commitment letdowns and unsatisfied customers.



And when you partner with MSM Solutions to be your dedicated consumables provider, you'll not only receive the high quality products your business depends on, you'll also receive the technical service and support necessary to keep your business running at zero charge with our Customer-First Service and Support Program.

MSM Can Deliver 24/7 Support For Your Entire Operation











Print and Apply

Labeling

Barcode

RFID

Mobile Computing

That's right – your purchase of materials may qualify you for the Customer First Program. MSM Solutions provides printer service and support for our dedicated consumables customers free of charge. In addition, we also provide extra value-added services for customers who purchase service contracts on mobile computers and scanners.

With over 30 years of experience servicing customers with mission critical print and label applications globally, we know what it takes to keep your operations running at optimal levels all of the time, and our Customer First Program will deliver the 24/7 protection your business needs, ensuring consistent uptime and minimizing costly printer and mobile computer incidents and failures.

The Customer First Service and Support Program offers the following types of services and repairs for printers and mobile computers:

- ✓ On-Site Repair & Maintenance
- ✓ Customized Depot Services
- ✓ Tailored Hot Swaps, Spares & Loaners
- ✓ Time & Materials Repairs
- ✓ Mission Critical 24/7 Support
- Customized Services

- ✓ On-Shelf Backups
- ✓ Routine Evaluations & Hardware Check-Ups
- ✓ On-Site Training & Installation



Identify, Track, Count, Manage

Warehouse and Manufacturing

From receiving to the shipping process, MSM Solutions has the barcode and RFID hardware technology, labels and software solutions to provide visibility and control over your warehouse and manufacturing plant leading to reduced costs, maximized efficiency and increased sales.

Receiving / Inbound Mobile Scanners Fixed RFID Antennas & Readers

2 Inventory Management RFID Mobile Barcode Scanner



3 Label Printing Print and Apply Automation EPC Encoding

QC Audit Mobile scanners RFID Scanners Barcode Label Verifier



S Order Processing Warehouse Management Software

6 Order Picking RFID Mobile Barcode Scanner Forklift Reader

Price Updates Mobile Printing

8 Shipping / Outbound Fixed RFID Antennas & Readers



Technology **Partners**

MSM Solutions partners with the world's leading technology companies to deliver world-class solutions.

SMARTRAC connect things

Honeywell



COGNEX

TOSHIBA



₹. ZEBRA









REA VERIFIER



Want More Information?

Visit MSMSolutions.com to explore our library of case studies, PortalTrack data sheets, and other RFID and Barcode product and solution oriented documents.









Videos

RFID and Barcode Documents

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