



## Accurate, reliable and compliant labeling, barcodes and RFID for IUID and aerospace asset tracking.

BarTender is built to help meet the security demands of aerospace and defense labeling environments.

### “Amateurs talk about tactics, but professionals study logistics.”

Accurate tracking of service and maintenance parts throughout the aerospace and defense supply chains enables compliance with regulatory requirements, improves safety, and provides protection against theft and counterfeit spares. But the nature of the aerospace supply chain creates a set of inventory and asset management complexities that are uniquely challenging.

While the total number of global OEMs in aerospace and defense is small in comparison with other industries that must comply with asset tracking regulations, the number of sub-assembly, component and material suppliers is vast, and component parts come from all over the world. Parts — and any tools that have worked on a part during its lifetime — require tracking for 30 years or more. Counterfeiting of aerospace parts is a big business, and the penalties levied for their sale or use are substantial.

And while “back to birth” traceability isn’t a current regulatory requirement, its inherent security is preferred by suppliers, refurbishers, operators and global defense departments as they purchase and install parts. The global civil aviation maintenance, repair and overhaul market is forecasted to grow to USD 94.25 billion by 2022<sup>1</sup> alone — manual methods of asset tracking, which are cumbersome, expensive and prone to inaccuracy, are no longer a sustainable solution.

<sup>1</sup>“Aircraft Maintenance, Repair and Overhaul Market — Growth, Trends And Forecasts,” Mordor Intelligence, July 2017

### BarTender: The heart of your asset tracking and IUID solution

Deployed at suppliers, manufacturers, operators and defense departments across the globe, BarTender<sup>®</sup> is the secure and trusted labeling software that has become the global standard for aerospace and defense asset tracking.

Built to help meet the security demands of aerospace and defense labeling environments, BarTender provides full audit trail capabilities throughout the entire labeling process — tracking data is captured and stored digitally. By eliminating paper storage and making data available in real time, production and maintenance are streamlined, and accuracy in supply chain tracking and maintenance recording is increased. BarTender’s layers of configurable settings add broad protections to the printing environment, with security features ranging from basic print-only user access to complex role-based permissions with label format encryption.

With BarTender, one label template can support multiple printer families across your global supplier network — even your suppliers can access your most current label formats and data with BarTender’s Print Portal, enabling label standardization across the supply chain.

Regulatory and production landscapes will continue to change. And BarTender’s Intelligent Templates<sup>™</sup> provide the agility and security that manufacturers, operators and maintenance crews need to meet those changes — use them to rapidly create and instantly deploy new designs, data and formats across the enterprise.

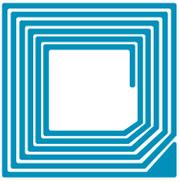


### BarTender and ATA SPEC2000

BarTender supports ATA SPEC2000 Chapter 9. Written by a consortium of international airline, manufacturer, supplier and repair industry associations, these traceability standards facilitate the data exchange that enables interoperability across the aerospace supply chain.

With BarTender, you can:

- ▶ Easily create SPEC2000-compliant Code 39, Code 128 and Data Matrix marks — BarTender’s Intelligent Templates<sup>™</sup> access your master data at its source to instantly and accurately produce readable barcodes.
- ▶ Serialize per-label, per-job, when changes occur in a data source or database field, or when the time or date changes — generate unique, random or sequential schemes, sharing data sources among all documents through the system database.
- ▶ Encode RFID tags as simply as creating a barcode.
- ▶ Use any printer or marking device: thermal transfer, laser, inkjet or direct part markers such as laser annealers, laser, photo and chemical etchers, dot peen markers.



# IUID, NASA, MIL-STD 130 and ATA SPEC2000 marking compliance made simple.

## RFID and aerospace

Since RFID can be read without line of sight, selecting this Auto ID technology for IUID and asset tracking can also provide powerful supply chain efficiencies for the manufacturer, airline or defense agency, providing tracking support throughout production, warehousing, shipping and maintenance. Component and kitting tags can be embedded in ceramic parts, sewn into textiles, affixed to tools or included in a carton.

BarTender includes built-in RFID antenna coding, is fully compliant with EPCglobal's Gen 2 standard (ISO 18000-6C), and supports a comprehensive list of RFID tags and encodings.

Seagull Scientific can help you meet the compliance tracking and labeling needs of the aerospace and defense industries. For more information on BarTender in IUID and SPEC2000 applications, please visit the Seagull Scientific website.

## BarTender and RFID encoding

With BarTender, the design and coding of RFID labels is as simple as creating a standard label and barcode, and because RFID, barcode and human readable data are pulled from a common source, BarTender facilitates an increase in data accuracy from pallet-level to part-level labeling.

BarTender's sample label templates include built-in RFID antenna coding and business rules that enable compliance with GS1 and other industry standards. BarTender is fully compliant with EPCglobal's Gen 2 standard (ISO 18000-6C), and supports a comprehensive list of RFID tags and encodings.

## GS1 and BarTender

BarTender is GS1 certified, and a GS1 Solution Provider. BarTender automates compliance with the GS1 standards, and supports the latest GS1 EPC HF RFID Air Interface Protocol and the GS1 EPC Header for Aerospace and Defense. BarTender's Application Identifier Wizard makes it easy to construct even the most complex GS1-compliant codes — use it to automatically and accurately insert GS1 Application Identifiers such as GIAI and GRAI, and field separator characters.

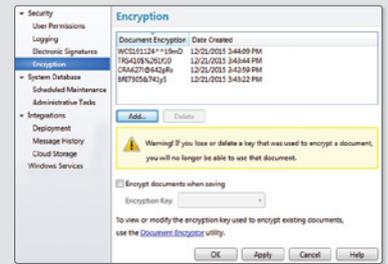
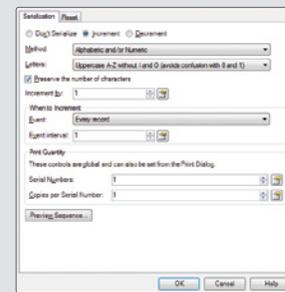
## Electronic signatures and data logging

BarTender's electronic signature feature and comprehensive data logging capabilities combine to bring full audit trail accountability to the entire labeling process, enabling compliance with the high security standards of aerospace and defense.



## Serialization

BarTender supports the incrementing of serial numbers at a single printer or at printers across a network, and can share data sources among all documents through the system database, with support for unlimited ranges and unique, random or sequential serialization: per-label, per-job, when changes occur in a data source or database field, or when the time or date changes.



## Security

BarTender offers a complete spectrum of configurable security options, ranging from simple Print-Only mode, to complex role-based permissions: Control access to label design and modification, database setup, document saving, printing and more from a central location onsite — or at a first-, second- or third-tier supplier's facility on the other side of the world. Label format encryption can be applied to any of the security levels, providing an additional layer of protection against unauthorized use.



Try BarTender free for 30 days:  
[www.DownloadBarTender.com](http://www.DownloadBarTender.com)

**Americas:**  
Sales@SeagullScientific.com  
+1 425 641 1408

**EMEA:**  
EMEA\_Sales@SeagullScientific.com  
+34 91 198 46 00

**APAC:**  
AsiaSales@SeagullScientific.com  
+886 2 7741 4700

**Japan:**  
JapanSales@SeagullScientific.com  
+81 3 4589 5400

