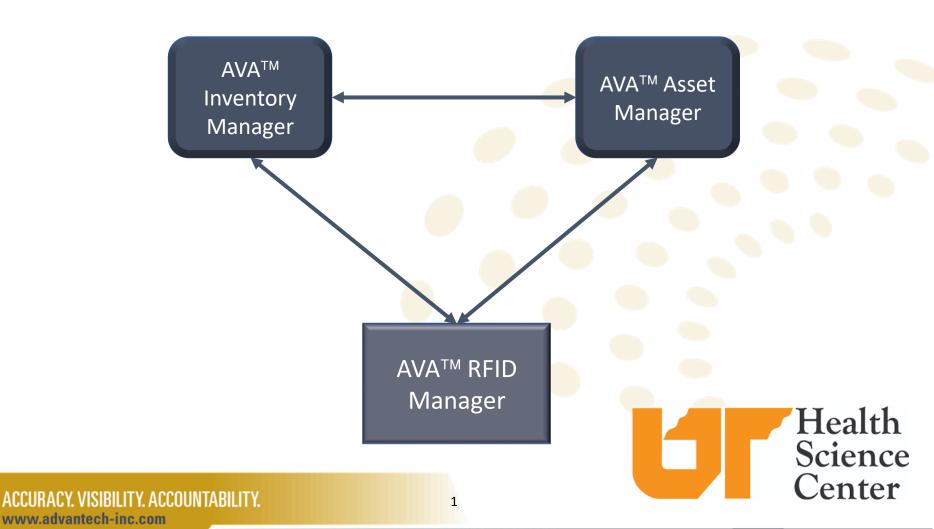
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AVA™ Manager Suite Systems Overview



AVA™ Manager Suite

Background:

AdvanTech, Inc. is proud to unveil our

AVA™ Manager Suite. These
applications are all based on three
guiding principles of Accuracy,

Visibility and Accountability.

These applications are browser-based, online, real-time using standard browsers and rely on a central encrypted relational database located in Annapolis. Our systems are in operation throughout the U.S in multiple industries. Our goal is to assist our clients achieve substantial savings through implementation of advanced technology and best practices.

AVA™ Item Manager:

Fully-featured, multi-entity, procurement, requisitioning, receiving, remote inventory, cross leveling and perpetual inventory management system. Full audit trails with transaction history. Multiple stockrooms allowed with individual reorder parameters established. Asset visibility option to include inventory levels from prime suppliers. Serial and lot number tracking available.

AVA™ Asset Manager:

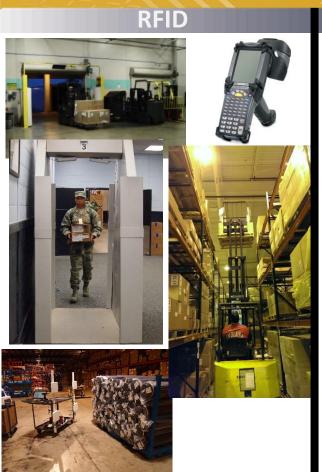
Defines facilities to the room level. Tracks assets (moveable and fixed) to the serial number level to individual rooms. Assigned ownership of each room within each facility. Establishes and tracks projects and work orders to document and monitor labor and non-labor costs. Automates the internal package delivery process by defining delivery routes and building manifests to deliver within the organization. Track employees, contractors and visitors who have access to assets. Performs physical inventory counting and reconciliation processes. Generates numerous operational and accounting reports.

AVA™ RFID Tag Manager:

Upgrades Asset and Item Manager Applications to utilize RFID tags. Various RFID tag standards are supported including EPC Gen2 and Low-Energy Bluetooth. Tags are used for access control, in supply chain management to track inventory movement, to track files, laundry, garments, equipment assets such as wheelchairs, and high-cost or high-loss items such as electronics or tools.



Automated Data Capture Technologies



LEB / RTLS

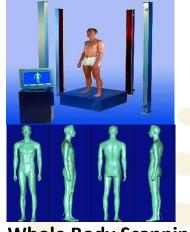








Measuring Devices



Whole Body Scanning







Foot Scanning



Hand Measuring

Others



OCR



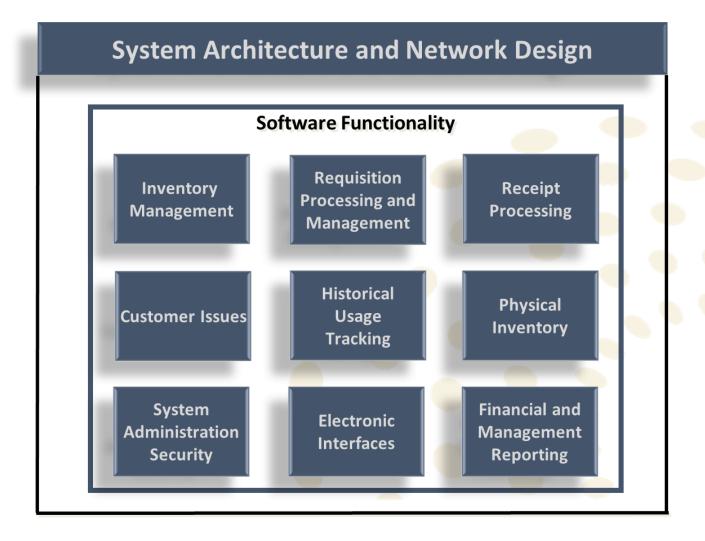
Voice Recognition



Bar Code



AVA™ Item Manager





AVA™ Item Manager

Standard Functions:

- Single Master Catalog
- Unlimited Individual Stockrooms
- Visibility Of Prime Vendor On Hand Balances
- Cross Leveling
- Replenishment Of Remote Department-based Stockrooms
- Automated Replenishment Level Calculations
- Automated Replenishment Orders
- Real Time Inventory Updates
- On Demand Inventory Status And Expediting Reports
- Multiple Inventory Valuation Formulas

- Receiving And Put Away
- General Leger Interface For Posting Financial Transactions
- Comprehensive Physical Inventory, Cycle Count And Reconciliation
- Detailed, Read Only Transaction History
- Barcode Enabled
- Remote Departmental Requisitioning
- Performance Management Reporting
- Incorporated Non-stocked / Special Order Items

Other Available Functions:

- RFID Integration
- Serial Number / Lot Number Tracking
- Asset Tracking And Real Time Location System (RTLS)
- Electronic Advanced Shipping Notice To Automate Receipt Verifications
- Package Tracking



Interfaced Systems

Listed below are the Systems AdvanTech AVA Systems have interfaced with

















AVA™ Asset Manager – Equipment Tracking

Facilities / Building

Facility Type

Floors

Rooms

Room Usage
Square Footage
RFID / Barcode Assigned

Systems

Asset / Item Master

Manufacturer Model Number Purchased From Purchase Cost

Serial Number

RFID / Barcode Assigned PO Number Date Acquired Data into Service

- Room Inventory
- Transaction History
- Utilization History



AVA™ Asset Manager – Questions????

Facilities:

- What Facilities are included in my Organization?
- Who occupies my Facilities?
- What are the areas in Facilities used for?
- Blueprints and other document stored online linked to facility, floor and room.
- Fire Escape documentation.

Assets / Equipment:

- · What assets are in my Organization?
- Where are these assets within my Facilities?
- Who owns these assets?
- What assets are out of service and for how long?
- What assets have just arrived into my Organization?
- What assets have excessive repair and maintenance costs?
- When were the assets last counted and reconciled?
- Which assets are owned versus leased or on consignment?
- How do I dispose of obsolete and unusable assets?
- What are my current depreciation amounts?
- Replace vs Repair decisions

Projects / Work Orders:

- What Projects and Work Orders are still open?
- What Projects and Work Order are being planned and/or approved?
- What are the budgets for these Project and Work Orders?
- Who is performing the work?
- Where is the work being performed (on/off site)?

People:

- · Roles of Staff within organization.
- · Visitor and Contractors allowed into the Facilities.
- Certifications of Staff using or repairing Facilities or Assets.
- How can I limit access to specific areas by Staff and Visitors?



AVA™ Asset Manager – Project Tracking

Facilities / Building

Facility Type

Floors

Rooms

Room Usage
Square Footage
RFID / Barcode Assigned

Systems

Projects

Classification

Priority

Description

Status

Asset / Item Master

Manufacturer Model Number Purchased From Purchase Cost

Serial Number

RFID / Barcode Assigned
PO Number
Date Acquired
Data into Service

Work Orders

Category

Priority

Description

Status



AVA™ Asset Manager – People Tracking

Facilities / Building Facility Type Floors Rooms Room Usage Square Footage RFID / Barcode Assigned Systems

Staff / Employees Contractors Visitors / Patients / Students Department RFID Tag ID

Facility Location (Building / Room)
Work Order Costing
Location Validation



AVA™ Asset Manager – Delivery Tracking

Facilities / Building Facility Type Floors Rooms Room Usage Square Footage RFID / Barcode Assigned Systems

Asset / Item Master

Manufacturer Model Number Purchased From Purchase Cost

Serial Number

RFID / Barcode Assigned PO Number Date Acquired Data into Service

- Generate Delivery Bar Code Label
- Stage deliveries by Delivery Zone
- Generate Delivery Manifest for Delivery Zone
- Electronic Signature with time and date stamp



RFID Overview – Technologies Available

Category	Specifications	Reading Range
GPS	TransmitterSatellite ReaderSatellite Receiver	acute
Active RFID	 Reusable Transmitter with internal power source Multiple Fixed Readers Extension of LAN / WAN 	
Low Energy Bluetooth	 Reusable Transmitter with internal power source Smaller Form Factor than Active RFID 	WIND H



Disposable Transmitter with external power source

Smartphone Compatible

Fixed Reader with Multiple Antennas and/or **Handheld Readers**







RFID Overview – Technologies Available

GPS

Active RFID

Low Energy Bluetooth

Passive RFID



Tractor Trailer



Toll Pass



Metal Containers



Pallets w/ Boxes



Cartons / Boxes



Shipping Container



Refrigeration **Units**





Apparel



Firearms



Moveable Assets

Staff/ **Visitors**



Document / Records / **Books**



Fork Lifts

RFID Overview - pRFID Components



RFID Printer / Encoder



Fixed Reader and Antennas



Receiving/Shipping Portal



Palletizer





Permanent Tags



RFID Handheld Reader



Issue Chute



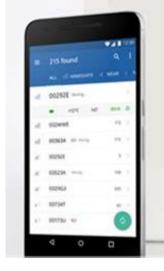
Receiving / Shipping
Station



Bulk Inventory Reader



Low Energy Bluetooth Solutions



AdvanTech, Inc.

Low Energy Bluetooth Solutions

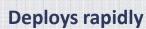
Our product is a solution that includes beacons, readers, apps, and software to track assets in warehouses, yards, offices, hospitals, etc.

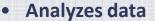


Readers



Beacons / Tags

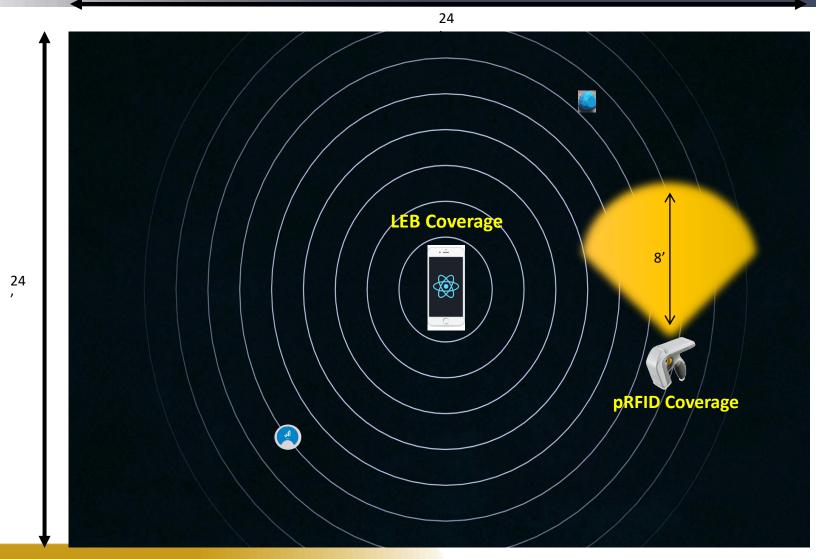




Smart notifications



RFID Tag Location (pRFID vs LEB)



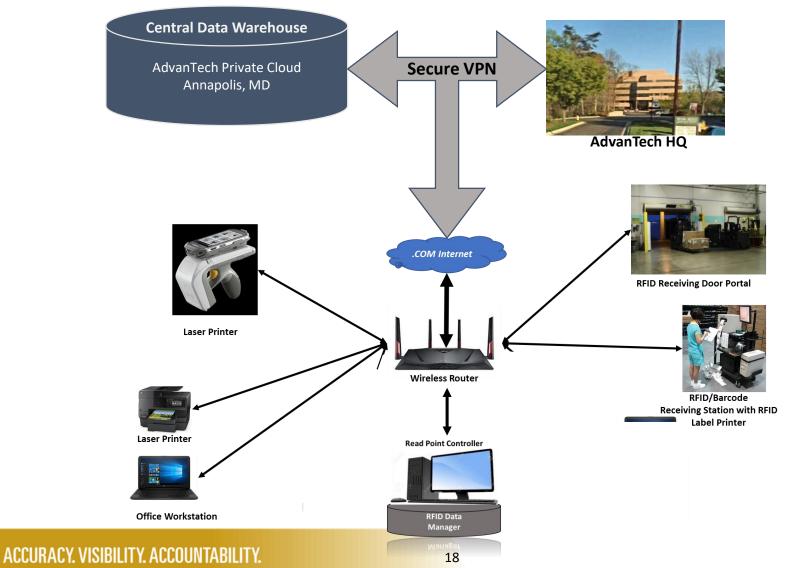


Hardware Cost Comparison (pRFID vs LEB)

	Tags for Pieces of Equipment (300)	RFID Printer / Encoder (1)	Fixed RFID Readers for 10 areas (20)	Handheld RFID Readers (2)
Passive RFID \$46,880	\$500	\$2,780	\$40,000	\$3,600
Low Energy Bluetooth	\$5,000	\$0.00	\$12,000	\$0.00
\$17,000			Lower Reader	
(\$29,880)	Higher Tag Cost Larger Read Range	Printer not Required	Cost No visible Antennas	Smart Phone Application

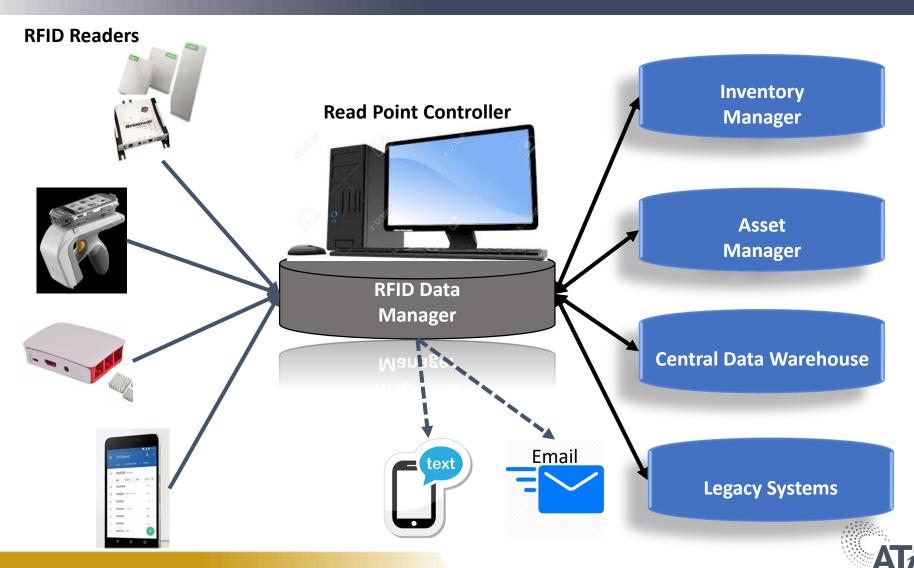


RFID Overview – RFID Architecture





RFID Overview – RFID Architecture



Documented Operational Improvements

Operational Activity	Documented Results		
Production Control	Reduced Quality Checks by 20 hours per week		
Receiving	Reduced Receiving Time to 20 Minutes from 3 hours		
Point of Sale	Processed Platoon of 50 Recruits in 1 hour down from 2.5 hours		
Physical Inventory Counting	Reduced Counting Time to 6 hours from 2 days		
Physical Inventory Variance	Variances reduced to 0.18% from 5%-8%		



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????? Questions **?????**

