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AVA™ Asset Manager with RFID Integration





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AVA™ Asset Manager with RFID Integration

Agenda

- ☐ Introduction
- □ AVA™ Asset Manager
- RFID (Passive / Low Energy Bluetooth)
- ☐ Questions / Next Steps

AVA™ Logistics Suite

Background:

AdvanTech, Inc. is proud to unveil our

AVA™ Logistics 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™ 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

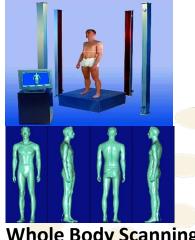


LEB / RTLS





Measuring Devices



Whole Body Scanning





Foot Scanning



Hand Measuring

Others



OCR



Voice Recognition

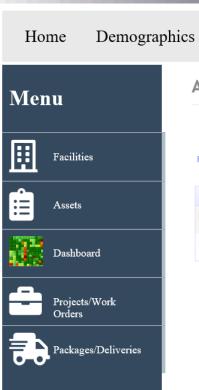


Bar Code



Templates

Log Off



ADVANTECH ASSET MANAGER

Asset Management

Reports

Facilities:

Facility Description	Address 1	Address 2	Total Floors	Total Sqr Feet	
Riva Memorial Medical Center	2661 Riva Road	Building 9900	5	88,375	
Building 1000	2661 Riva Road		3	47,415	



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Home Demographics Reports Asset Management Templates Log Off

Menu

Facilities

Asset

Dashboard

Projects/Work Orders



ADVANTECH ASSET MANAGER

Facilities:

Facility De	escription Addre	ess 1 Address 2	Total Floors	Total Sqr Feet
Riva Memorial	Medical Center 2661 Ri	iva Road Building 9900	0 5	88,375
D :1.1: 4000	City	"Annapolis"		
Building 1000	State	"MD"		
	Zip Code	"21401"		
	Hosp Id	1111		Ti
	Year Build	"2012"	T I	
	Orig Cost	"120000000.0000)"	***************************************
	Current Value	"10000000.0000)"	
	Floor Count	"5"		
	Last Survey	"12/21/2017 12:45:03	3 PM"	Name and Parks of the Parks of
	Next Scheduled Survey	"4/1/2019 12:45:03	PM"	11. 在西西山田田中市市
	Campus Id	"0"	- SPECIAL PROPERTY.	THE REAL PROPERTY.
	Total Sqr Feet	"88375"		



Templates

Log Off

Home Demographics

Menu

Facilities

Assets

Dashboard

Projects/Work
Orders

Packages/Deliveries

ADVANTECH ASSET MANAGER

Asset Management

Facilities: Riva Memorial Medical Center

Reports

Floor Name	Floor Sqft Floor Seq	
Central Service / Clinical Engineering	17,675 Basement	
Entrance / Emergency Room	17,675 1	
Radiology / Pathology / OB/GYN	17,675 2	
Inpatient Floor	17,675 3	
Operating Rooms / ICU	17,675 4	



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Fac

Facilities

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Assets



Dashboard



Projects/Work Orders



Packages/Deliveries

ADVANTECH ASSET MANAGER

Assets:

Manufacturer Name	Model Number	Item Name	Purchase Cost	Piece Count
Abbott	"1971-04"	Infusion System, Plum A+™ 11.6	\$495.00	60
Alaris	8000	Infusion System, Alaris Medley 8000 PCU	\$500.00	59
Alaris	"8120"	Pump, Syringe - Alaris 8120 syringe module for Medley series	\$1,650.00	81
Baxter	"300XL"	Pump, Syringe - Baxter 300XL Mini Infuser	\$1,650.00	61
Baxter	"OR1"	Baxter Infus OR syringe Pump	\$2,495.00	58
Baxter	"TT1001"	Hypothermia Unit, BAXTER Mini K - Thermia Pharmaseal	\$850.00	20
Cincinnati	"222R"	Hypothermia Unit, CINCINNATI SUB-ZERO Blanketrol II 222R	\$359.00	50
GE	"1200"	EKG Machine, GE Medical MAC 1200	\$1,295.00	49
GE	B40	Patient Monitor, GE B40 with GE TruSignal Pulse Ox	\$1,195.00	51
Kendall	"7325"	Sequential Compression Device, Kendall Response	\$1,295.00	81
Nelxor	"N560"	Pulse Oximeter, Nellcor™ N-560 Monitor with OxiMax™ Technology	\$5,625.00	38
Vizion	"SR130"	Portable XRAY - ViZionTM + DR mobile	\$749.00	51
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Home Demographics Reports

Asset Management

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Facilities



Assets



Dashboard



Projects/Work Orders



Packages/Deliverie

ADVANTECH ASSET MANAGER

Equipment: Pump, Syringe - Baxter 300XL Mini Infuser Baxter 300XL

Serial number	Acquire Date	PO Number	RFID TagString	Facility Description	Room Number	Room Description	
300-10001	15-10-2016	A-0533B	FAFA00100000000426561282	Riva Memorial Medical Center	330	Patient Room 330	
300-10002	15-10-2016	A-0533B	FAFA00100000000426561283	Riva Memorial Medical Center	111	Emergency Department Office	
300-10003	15-10-2016	A-0533B	FAFA00100000000426561284	Riva Memorial Medical Center	406	Soiled Utility Room	
300-10004	15-10-2016	A-0533B	FAFA00100000000426561285	Riva Memorial Medical Center	B-102	Biomedical Lab	
300-10005	15-10-2016	A-0533B	FAFA00100000000426561286	Riva Memorial Medical Center	322	Patient Room 322	
300-10006	15-10-2016	A-0533B	FAFA00100000000426561287	Riva Memorial Medical Center	406	Soiled Utility Room	
300-10007	15-10-2016	A-0533B	FAFA00100000000426561288	Riva Memorial Medical Center	440	OR Stockroom	
300-10008	15-10-2016	A-0533B	FAFA00100000000426561289	Riva Memorial Medical Center	406	Soiled Utility Room	
300-10009	15-10-2016	A-0533B	FAFA00100000000426561290	Riva Memorial Medical Center	440	OR Stockroom	
300-10010	15-10-2016	A-0533B	FAFA00100000000426561291	Riva Memorial Medical Center	434	OR Room 5	
300-10011	15-10-2016	A-0533B	FAFA00100000000426561292	Riva Memorial Medical Center	306	Soiled Utility Room	
300-10012	15-10-2016	A-0533B	FAFA00100000000426561293	Riva Memorial Medical Center	112	Emergency Department Clean Utility	
300-10013	15-10-2016	A-0533B	FAFA00100000000426561294	Riva Memorial Medical Center	B-102	Biomedical Lab	
300-10014	15-10-2016	A-0533B	FAFA00100000000426561295	Riva Memorial Medical Center	112	Emergency Department Clean Utility	
300-10015	15-10-2016	A-0533B	FAFA00100000000426561296	Riva Memorial Medical Center	328	Patient Room 328	

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:

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GAIT

- 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 – 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 – 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



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	
GPS	

Specifications

Transmitter
Satellite Reader
Satellite Receiver

<u>serredioris</u>

Reading Range



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
- Smartphone Compatible



- Disposable Transmitter with external power source
- 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



Assets





Apparel



Fork Lifts



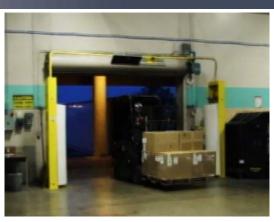
Document / Records /
Books



RFID Overview – pRFID Components



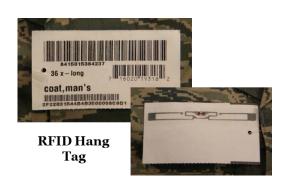
RFID Printer / Encoder



Receiving/Shipping Door Portal



Fixed Reader and Antennas





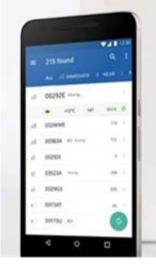


Permanent Tags



RFID Handheld 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

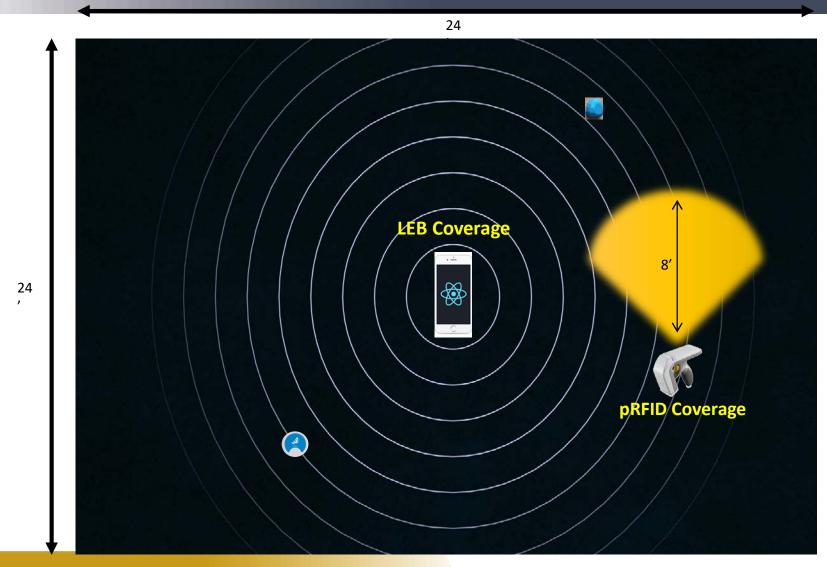




Smart notifications



RFID Tag Location (pRFID vs LEB)



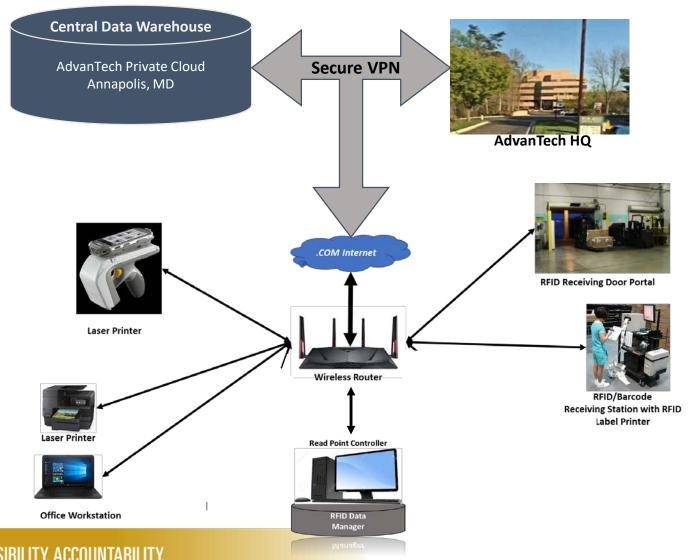


Hardware Cost Comparison (pRFID vs LEB)

	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

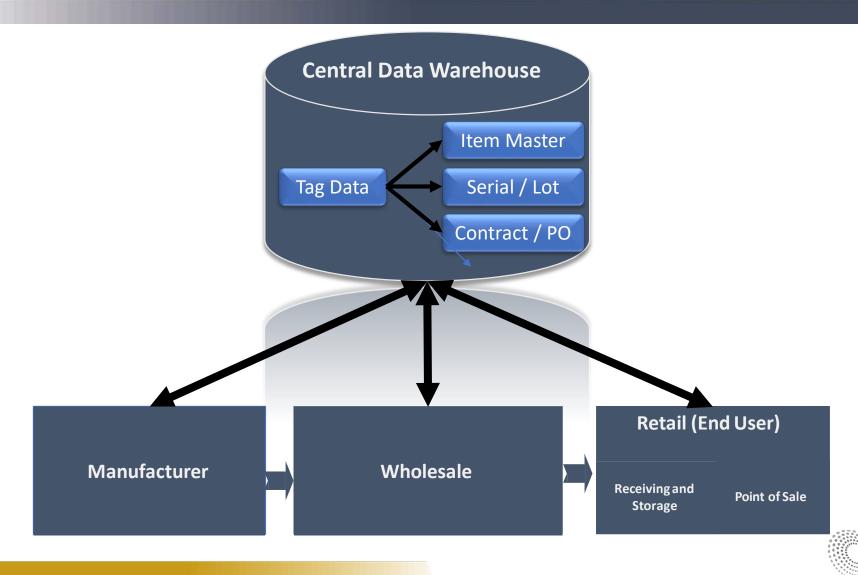


RFID Overview – RFID Architecture

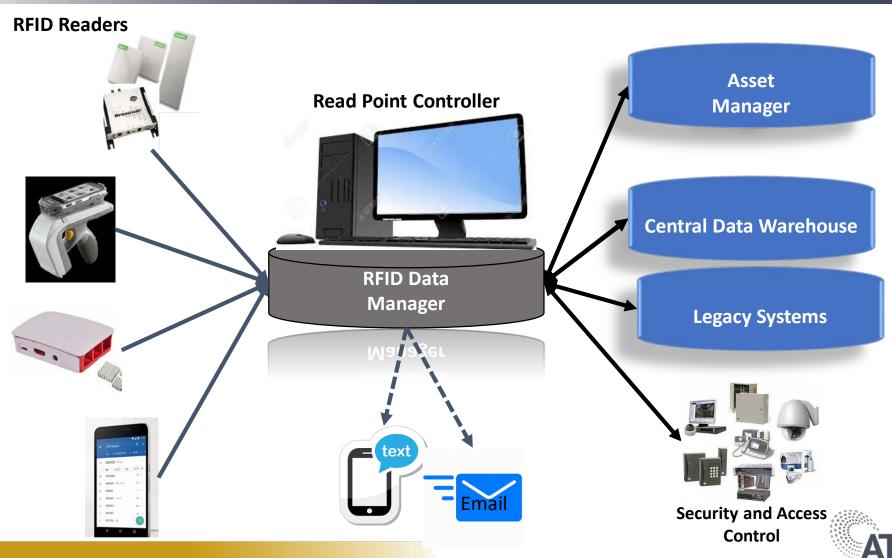




RFID Overview – RFID Architecture



RFID Overview – RFID Architecture



Where can RFID be Incorporated?

	Manufacturing	Wholesale	Retail
Demand Planning	Yes	Yes	Yes
Contract Management	Yes	Yes	
Production Management	Yes		
Shipping / Invoicing	Yes	Yes	
Receiving		Yes	Yes
Location Management	Yes	Yes	Yes
Order Picking and Staging	Yes	Yes	Yes
Physical Inventories and Cycle Counts	Yes	Yes	Yes
Shelf Space Allocation			Yes
Point of Sale			Yes
Turn-ins and Exchanges			Yes
Anti-Counterfeiting	Yes	Yes	Yes
Product Recalls	Yes	Yes	Yes
Expiration DateTracking	Yes	Yes	Yes
Stop Loss (Theft Prevention)	Yes	Yes	Yes



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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Next Steps