

Zebra MotionWorks Enterprise

Asset Management Connector for ServiceNow Hardware Asset Management

November 2022



Asset Tracking With Zebra Technologies and Service Now

Speakers:

- Jonathan Fulton, Zebra Technologies Solution
- Consultant, Zebra
- Michael Smith, Principal Product Manager, Hardware Asset Management, ServiceNow

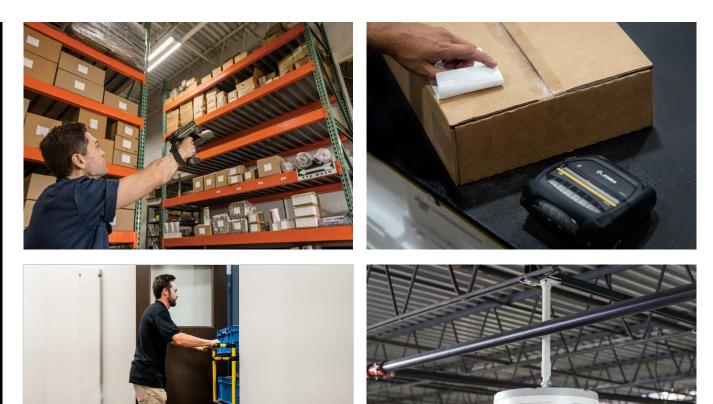
What Is RFID?

Automatic identification technology using radio waves

- Does **not** require line of sight to capture data
- Does **not** require manual scanning

Common RFID standards

- UHF RFID
- EPC UHF Gen 2
- G2V2
- ISO 18000-63
- RAIN RFID



Why Use RFID?



Post-pandemic, increasing automation and making workers more efficient have become even more important to continued business operations

More Companies Are Looking for RFID Solutions Cost of RFID tags has gone down significantly in the last several years

RFID is more efficient and provides more business context and capability than barcodes



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Zebra RFID Product Portfolio

The industry's broadest portfolio of RAIN RFID technology – from ASIC to Devices to Enable and Enrich



MotionWorks Enterprise

Product Overview

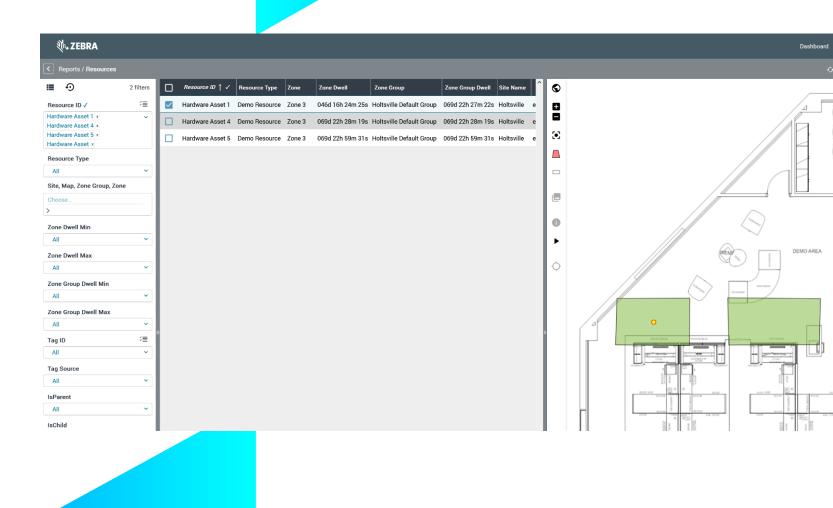
- Software to create Location & Tracking solutions & manage location sensors
 - Flexible configuration to support multiple use cases
 - Manages multiple sense technologies
 - UI to manage readers and to track resources (assets, goods, workers, etc)
 - Interfaces to hundreds of back-end systems
- MotionWorks Enterprise Server Software
 - Enterprise scale design
 - Designed for deployment for on premise or virtual private cloud
 - Works as data collection middleware and as a basic asset tracking application



MotionWorks Enterprise

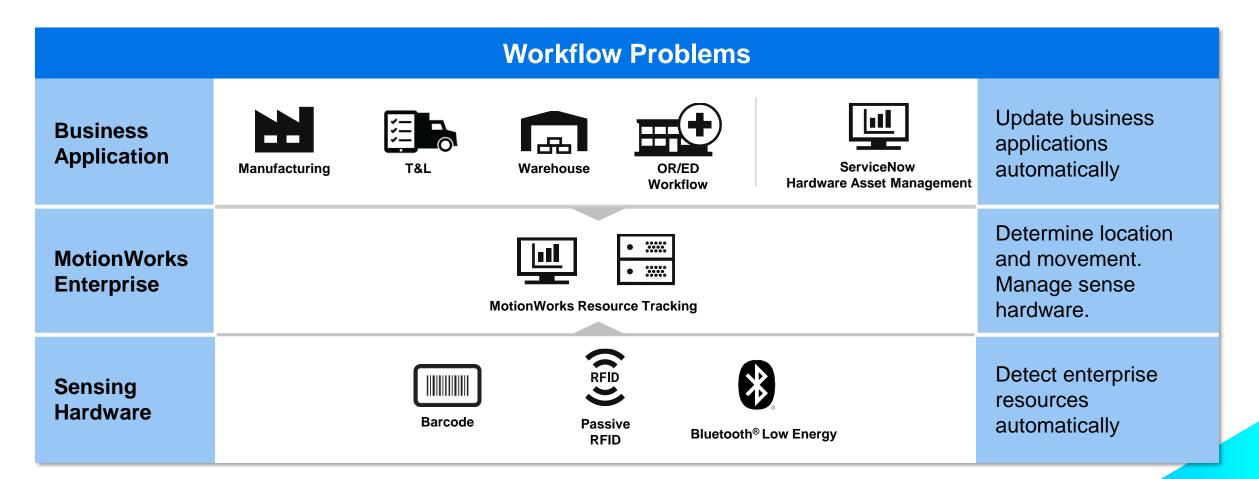
Product Overview

- Realtime or near realtime location of assets
 - Mapping based on sites and zones
 - Filtering and reporting of multiple Resource types (Asset Classes)
 - API Interfaces available



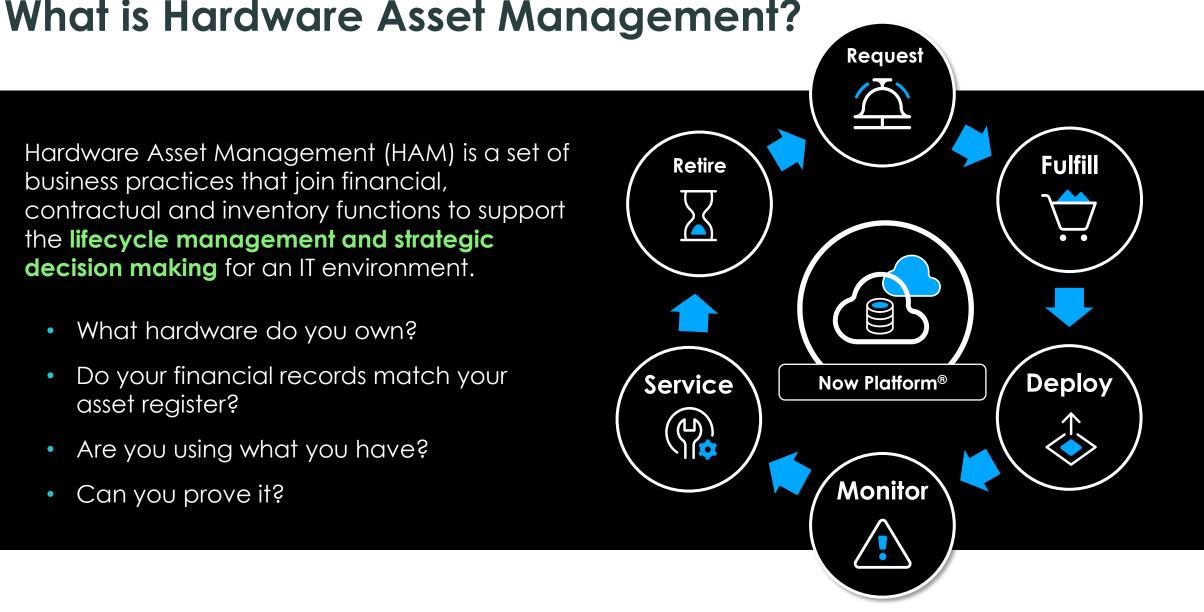
MotionWorks Enterprise

Automates Asset Tracking Data Collection



Hardware Asset Management (HAM) is a set of business practices that join financial, contractual and inventory functions to support the lifecycle management and strategic decision making for an IT environment.

- What hardware do you own? ۲
- Do your financial records match your asset register?
- Are you using what you have?
- Can you prove it?



The difference between "Base Asset" & HAM product

Asset is very manual, no flows, & error-prone. HAM is automated, normalized, & accurate.

Hardware Asset Manager Workspace

Hardware Normalization

Asset Lifecycle Automation

- Hardware Asset Order
- Hardware Bulk Stock Order
- Hardware Disposal
- Asset Onboarding/Offboarding
- Asset Tasks—Deploy, Swap, Retire, Refresh, Loaner, Leased Asset Return
- Reservations for temp assets
- Advanced Shipment Notifications
- Return Merchandize Authorization (RMA)

Mobile

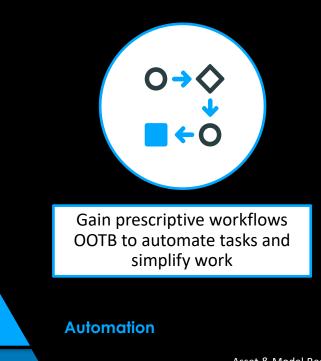
- Asset Inventory Audit
- Asset Bundles, Bulk Transfer
- Remote Asset Receiving, Asset Disposal
- My Locker Hardware Assets

Start with HAM if you know you will be investing in asset to save time and resources.

Hardware Asset Management

Asset Management

Static record storage-based solution. Like spread sheet tracking with little automation.



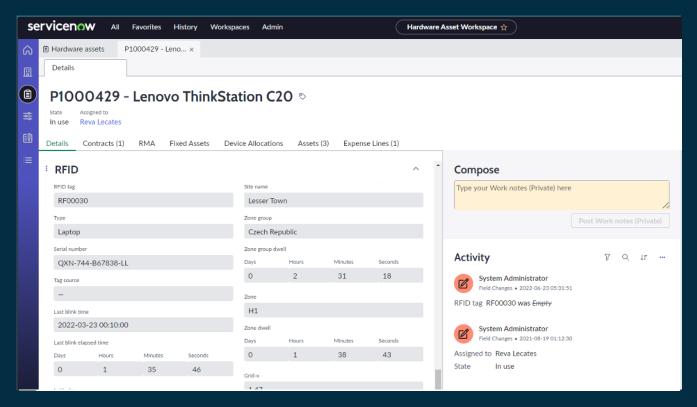
Manual

Asset & Model Records Stockrooms Transfer Orders Purchase Orders Contracts Mobile Asset Receiving Mobile My Assets

RFID/Zebra Integration

Radio frequency Identification

Next Experience



Integration to bring in RFID location data from Zebra MotionWorks

Integration to bring in RFID location data from Zebra MotionWorks



Created new tables to store the RFID location data

2

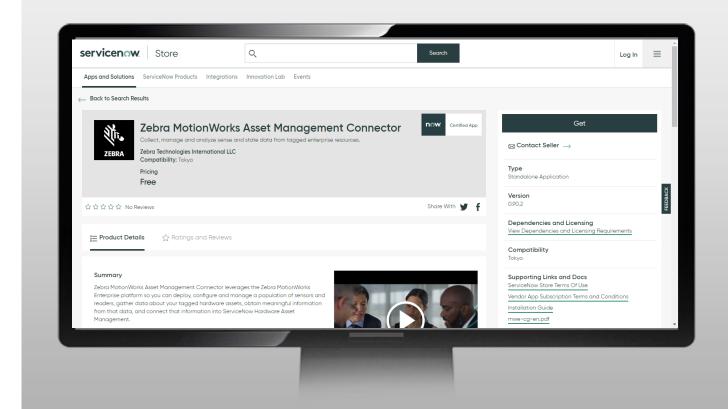
Ability to track asset location when assets are offline and on the move

3

Made updates to the asset form to capture RFID Tag, location Info, and RFID Activity updates

Zebra MotionWorks Asset Management Connector

- Leveraging the Zebra MotionWorks Enterprise platform, Asset Management Connector lets you deploy, configure and manage a population of sensors and readers, gather data about your tagged hardware assets, obtain meaningful information from that data, and connect that information into ServiceNow Hardware Asset Management.
- Available from the Service Now store for Tokyo release and later.

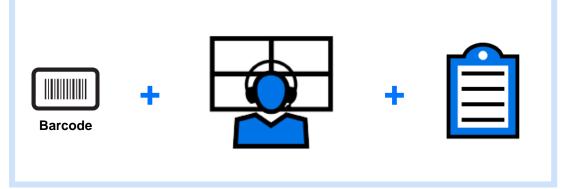


Bringing it all together

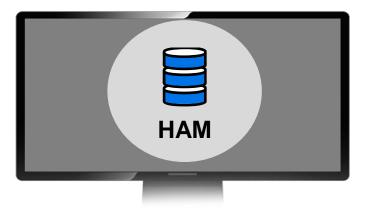
Manual asset tracking



ServiceNow Hardware Asset Management



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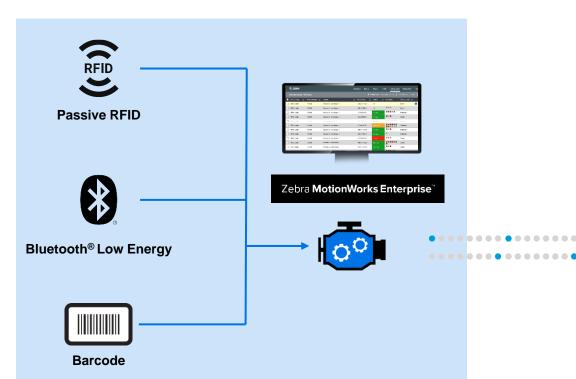
IT Asset Manager



Bringing it all together

Automated asset tracking using MotionWorks

Automated Asset Tracking



ServiceNow Hardware Asset Management + MotionWorks Asset Management Connector

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Service Management Image: Service Manag														~ p.	U Q	2
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n	General Financial Disposal Depreciation Contracts Allocations Activities Audit						Allocations	Activities	Audit	RFID						
i	RFID tag				e280116060000	210a1ea63d9				Site name	Holtsville					
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IT Asset Manager





Assets need to be set up in Zebra MotionWorks

Assets can be added in multiple ways

- Manual input
- Mobile application (barcode and/or RFID scan)
- Data import from .csv file

Via API

Add	Resource							<u>k</u> s⊐ Q ≡ Atta	ch T	詞 米 ▼ 🖡 1: aq	15 PM		
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	Report All V	Report Resources Progress		Action Add Resource	е	Select	File d_Resource.csv		+	IMPORT	-		
	Action All ~	Import Results									- 10		
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			0	1	2	3	4	5	6	7			
		0	Resource ID	Resource Type Name	Map Id	Site Id	Zone Name	Zone Group	Source	Tag			
		1	Hardware Asset 1			6196a8a483b9424182eae095		Holsville Default Group		e28011660000210a1ea3a9			
		2	Hardware Asset 2			6196a8a483b9424182eae095							
		3	Hardware Asset 3			6196a8a483b9424182eae095		Holsville Default Group		e28011660000210a1ea3a11			
		4	Hardware Asset 4			6196a8a483b9424182eae095		Holsville Default Group		e28011660000210a1ea3a12			
		5	Hardware Asset 5			6196a8a483b9424182eae095		Holsville Default Group		e28011660000210a1ea3a13			
		6	Hardware Asset 6			6196a8a483b9424182eae095		Holsville Default Group		e28011660000210a1ea3a14			
		7	Hardware Asset 7			6196a8a483b9424182eae095		Holsville Default Group		e28011660000210a1ea3a15			
		8	Hardware Asset 8 Hardware Asset 9			6196a8a483b9424182eae095 6196a8a483b9424182eae095		Holsville Default Group Holsville Default Group		e28011660000210a1ea3a16 e28011660000210a1ea3a17			
		10	Hardware Asset 9			6196a8a483b9424182eae095		Holsville Default Group		e28011660000210a1ea3a17			

Assets need to be set up in ServiceNow HAM

HAM Serial number must match Resource ID from MotionWorks Enterprise

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$\overline{\mathbb{P}}$ hardware asset	K = Hardware New record					🖉 詰 👓 Submit
⊡ ★ ()	Display name					
Asset	★ Model category	Computer	Q (j)	Configuration Item		
Hardware Asset Dashboard	★ Model	Apple MacBook Air 13"	Q (j)	★ Quantity	1	
▼ Portfolios	General Financial Disposal	Depreciation Contracts Allo	cations Activities Audit			
Hardware Assets	Asset tag			* Serial number	Hardware Asset 1	
	State	In use	~	Substate	None	
	Assigned to		Q	Location	Q	
	Managed by		Add Resource			
	Owned by			I dan biba		
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	RFID tag		Zone	Resource Type *		
	Comments			Demo Resource	~	
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	Submit			Comment		
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Configure Connector to get data from Motionworks

Automated asset tracking using MotionWorks

Set time to retrieve data

Set time to populate retrieved data

Scheduled Script Execution Zebra - Download MotionWorks	RFID Data		
		1 This record is in the Asset Management Co	mmon application, but Zebra MotionWorks - RFID is the current application. To edit this record click here.
Name	Zebra - Download MotionWorks RFID Data		
Active	\checkmark	Name	RFID Asset Mapping Job
Application	Zebra MotionWorks - RFID	Active	
Conditional		Application	Asset Management Common
	ed time, you have the option to enter an associated time zone. If no time zone is selected, the job will run at the entered time in time zone of the user who entered t	the time. If 'Use Syste Conditional	
run in the time zone of the instance running t	ne job.	For scheduled job types that require an enter run in the time zone of the instance running	red time, you have the option to enter an associated time zone. If no time zone is selected, the job will run at the entered time in time the job.
Run	Daily		
		Run	Daily
Time zone	GMT	Time zone	GMT
Time	Hours 00 00 00		
Run this script		Time	03:00:00
	<pre>1 if (!sn_itam_common.RFIDIntegrationUtil.isJobRunning("bcb0bbe887ca41102e1f1f873cbb35cc")) { 2 var tableName = sn_itam_common.RFIDIntegrationUtil.ASSET_IMPORT_SET_TABLE;</pre>	Run this script	
	<pre>3 * if(gs.tableExists(tableName)){ 4</pre>		<pre>1 * if (RFIDIntegrationUtil.isJobRunning('8d27c0fa53b50110f263ddeeff7b1287')) { 2 gs.info("RFID Asset Mapping Job is already running.");</pre>
	5 v } else {		3 v } else { 4 v try {
	<pre>6 gs.info("Table " + tableName + " does not exist. Cancelling Scheduled job 'Zebra - Download MotionWorks RFID Data 7 } </pre>	a'");	<pre>5 var currentDateTime = new GLideDateTime(); 6 new sn_itam_common.RFIDAssetMappingJob().process();</pre>
	<pre>8 * } else { 9 gs.info("Scheduled job 'Zebra - Download MotionWorks RFID Data' is already running."); 10 }</pre>		<pre>7 new sn_itam_common.RFIDCommonUtil().updateMapJobTime(currentDateTime); 8 v } catch (e) {</pre>
			<pre>9 gs.error("RFID Asset Job failed"); 10 }</pre>
Update Execute Now Delete			11 }
Related Links		Execute Now	
Run Point Scan			
ZEBRA TECHNOLOGIES	Or Run Manually at any t	time	

HAM Asset tag and location data updated automatically

General Tab shows Standard info plus RFID Tag ID

				Zebra Motio 🗸	Cameron Watson 👻 🔍	「中 ① 袋				
Hardware Apple MacBook Air 13"						Delete 🔨 🦊				
Display name	Apple MacBook Air 13"				RFID ta	b displays	s last s	een time	e and loca	tion dat
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Model	Apple MacBook Air 13"	(i)	Quantity	1	Uarduere					
General Financial Disposal I	Depreciation Contracts Allocations Acti	ivities Audit RFID			Hardware Apple MacBook Air 13"				∅ √ ‡ ∞	Update Delete 🔨 🗸
Asset tag			Serial number	Hardware)	Display name	Apple MacBook Air 13"				
State	In use 🗸		Substate	None	Model category	Computer	0	Configuration Item	Hardware Asset 1 - MacBook Air 13"	
Assigned to	Q		Location		Model	Apple MacBook Air 13"	0	Quantity		
Managed by	Q		Department					Quinty	*	
Owned by	Q		Company		General Financial Disposal I	Depreciation Contracts Allocations A	Activities Audit RFID			
Parent	Q		Asset function	None	RFID tag	e280116060000210a1ea63a9		Site name	Holtsville	
Class	Hardware		Assigned		Туре	DemoResource		Zone group	Holtsville Default Group	
RFID tag	e280116060000210a1ea63a9 Q	(j)	Installed		Serial number	Hardware Asset 1		Zone group dwell	23 Days 7 Hours 31 Minutes	
Comments					Tag source	EPC		Zone	Zone 3	
					Last blink time	2022-09-15 18:31:47		Zone dwell	1 Hour 28 Minutes	
Update Delete					Last blink elapsed time	1 Hour 28 Minutes		Grid-x	19.14	
					Latitude			Grid-y	36.82	
					Longitude			Grid-z		
					Active	\checkmark		Status	Matched	
					Update Delete					

Related Links

QUESTIONS

Thank You



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Want more?

Additional details about the solution will be presented in **RFID in Action! – A Livestream Technology Demonstration** on Dec. 13. Sponsored by Lowry Solutions the free webinar features a demonstration and review of **Zebra's MotionWorks Enterprise platform**. Full details and registration on the RFID Journal home page rfidjournal.com under Online Events.

www.rfidjournal.com