

EPC-enabled RFID the key to retailing

GSMP Face-to-face

Patrick Javick, Senior Director Industry Engagement Apparel and General Merchandise, GS1 US March 2017



Antitrust Caution



The Global Language of Business

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We ask and expect everyone to refrain from discussing prices, margins, discounts, suppliers, the timing of price changes, marketing or product plans, or other competitively sensitive topics.

If anyone has concerns about the propriety of a discussion, please inform a GS1 US representative <u>as soon as possible</u>.

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Topics	Leads	Speaker
Anti-Trust, Welcome, Introductions & Agenda	GS1 US, All	9:00 - 9:15 AM
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Introductions

Name

Company

Role/ Responsibility

What are you interested in learning today



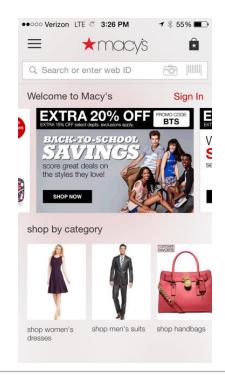


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Customers are demanding the "Always On" shopping experience

- The modern consumer expects to be served where she wants, when she wants, how she wants
- Technology and connectivity has created an arena that drives customer purchases from a variety of sources, both in store and through electronic venues
- A strategic retailer will use the entire inventory to satisfy demand





New Sales Channels

- Shop In Store
- Shop at Home, Ship to Home
- Shop Online at Home, Ship to Store
- Shop Online from Store, Ship to Home
- Shop Online from Store, Ship to Store
- Hold at Store
- Shipping to Home from Online Distribution Center
- Shipping to Home from Store Distribution Center
- Ship to Home from Store
- Store to Store Transfers

New Channels REQUIRE Higher Inventory Accuracy





Traditional

Drivers of Adoption – Retailers and Manufacturers

- The 'big four' use cases for retailers
 - Inventory accuracy
 - Out of Stock
 - Loss detection
 - Locating product
- > The 'big five' use cases for manufacturers
 - Receiving Accuracy
 - Shipping Accuracy
 - Pick/Pack Accuracy
 - > EPOD
 - Authentication & Anti-Counterfeiting





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RFID in the US market

- Bon-Ton
- Dick's Sporting Goods
- Dillard's
- Hudson's Bay
- JC Penney
- Kohl's
- Lord & Taylor
- Macy's

- Neiman Marcus
- Saks Fifth Avenue
- Sears Holdings
- Target
- Walmart
- Many RBO's that operate their own stores as well as vertically integrated brands including American Apparel, Chico's FAS, Lululemon and others

^{*}The above named retailers have all discussed their RFID deployments being in various phases of testing/implementation during the 2015 / 2016 / calendar year.



Item Level RFID Adoption Matrix 2016

25 retail banners responded = 13 Active

			. COPC				
Category	Banners	In DC Date	Notes	Category	Banners	In DC Date	Notes
13 banners now confirm they have active pilots or implementations (10 in 2015)			Innerwear / Basics - Men's	8+3 = 11	2015		
All retailers will accept tagged items even if they don't have an active program		Innerwear / Basics - Women's	8+2 = 10	2015			
Bath - Softlines	7+2 = 9	2015		Jewelry - Costume / Fashion	8	2016/2017	Some Tech Challenges
Bedding - Covers, sheet sets, etc.	8+1= 9	2015/2016		Jewelry - Fine	6	2016/2017	Some Tech Challenges
Bedding - Pillows & Pads	7+1= 8	2015/2016		Kitchen Electrics	7	2016/2017	•
Belts - Men's	7+2 = 9	2015/2016		Luggage - Display Compliance in-store	4+1= 5	2016	
Belts - Women's	7+2 = 9	2015/2016		Luggage - Packaged from vendor	6+1= 7	2016	
Children's wear -Infant / Toddler	7+2 = 9	2016		Mens Millennial	6+1= 7	2015/2016	
Coats - Outerwear Men's	7+2 = 9	2016/2017		Pants / Slacks / Bottoms - Men's	8+2 = 10	2015	
Coats - Outerwear Women's	7+2 = 9	2016/2017		Pants / Slacks / Bottoms - Women's	7+1= 8	2016	
Cold weather accessories	7+1= 8	2016		Personal Care - Equipment	5+1= 6	2016	
Cookware	6+1 = 7	2016		Ready to Wear - Men's	5+2 = 7	2016/2017	
Cutlery	6+2 = 8	2016/2017		Ready to Wear - Women's	7+1= 8	2016	
Denim - Children	7+3 = 10	2015/2016		Sleepwear and Robes - Men's & Women	7+1= 8	2016/2017	
Denim - Men	9+4 = 13	2015/2016		Small Leather Goods	7+1= 8	2016/2017	
Denim - Women	8+2 = 10	2015/2016		Socks	7+2 = 9	2015	
Designer Apparel - Men's & Women	7	2016		Sporting Goods - Hardlines	2	2017/2018	Expansion category
Dress Shirts - Women Blouse	7+1= 8	2016		Sportswear / Athletic - Men's	7+1= 8	2016/2017	
Dress Shirts - Men's	8+3 = 11	2015/2016		Sportswear / Athletic - Women's	7+1= 8	2016/2017	
Dresses	6+1= 7	2016		Suit Separates / Suits - Men's	8+3 = 11	2015/2016	
Electronics	4+3 = 7	2016/2017	Expansion category	Suit Separates / Suits - Women's	7+1= 8	2016	
Food / Designer / Candy (bulk)	3+3 = 6	2016/2017	Limited Vendors	Sunglasses	6+1= 7	2016/2017	
Footwear - Display Compliance in-store	8+2 = 10	2015/2016		Swirnwear	7-1 = 6	2016/2017	
Footwear - Hanging sandals, boxed slippers	8+2 = 10	2015/2016		Ties / Neckwear - Men's	7+1= 8	2016/2017	
Footwear - Men's & Women Box	7+3 = 10	2015/2016		Toys / Games	5-1 = 4	2017	Expansion category
Furniture	3+1 = 4	2016/2017	Limited Vendors	Watches / Jewelry - Men's & Women	5+1= 6	2016/2017	Some Tech Challenges
Handbags - Display Compliance in-store	6+2 = 8	2015		Desired - Bikes	2		
Handbags - Polybagged from Vendor	7+2 = 9	2015		Desired - Camping and Hiking	3		
Headwear - Hats	7+2 = 9	2016	Desired - Hunting and Shooting		2		
Headwear - Scarves	7+2 = 9	2016		Desired - Fishing	3		
Health & Beauty - Cosmetics / Perfume	5	2016/2017	Some Tech Challenges Desired - Paddle		2		
Home - Table Top	6	2016		Desired - Water Sports	3		
Home Accessories - Table Linens	7+1= 8	2016			Banner status	Saturation Level	
Home Décor and Accessories (ie candles, pictures	. fr 4-1 = 3	2016/2017	Limited Vendors		High Increase	High	
Hosiery / Leggings / Tights	7+2 = 9	2016/2017			Contraction	Medium	
Impulse RTV	5+1= 6	2016				Low	·



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State of the Retail Industry Leading Categories of Implementation

Product Categories				
Bath	Dresses	Luggage		
Bedding	Footwear	Pants / Slacks / Long Bottoms		
Belts	Handbags	Sleepwear and Robes		
Children's wear	hildren's wear Headwear Small Leather Goods			
Coats	Home Accessories	Socks - Dress & Basic		
Cookware	Hosiery	Sportswear / Athletic		
Cutlery	Innerwear - Basics	Suit Separates / Suits		
Denim	Intimates	Swimwear		
Designer / Collections	Jewelry	Ties / Neckwear		
Dress Shirts	Kitchen Electrics	Toys / Games		

Includes: Children, Men, and Women. Replenishment- and Fashion-based business



Initial Findings

RFID Adoption Plans:

- Steady state within core categories
 - Adding new vendors daily
 - Solidifying processes with staff and vendors
- Category expansion to adjacent
 - Phased approach to new category deployment
 - E-Commerce growth leading specific category expansion
 - **Highly searched items and those with limited substitution rank higher on retailer deployment plans
- Use case expansion
 - Testing and implementing



Participant Sharing

US Market - what are brands and retailers doing

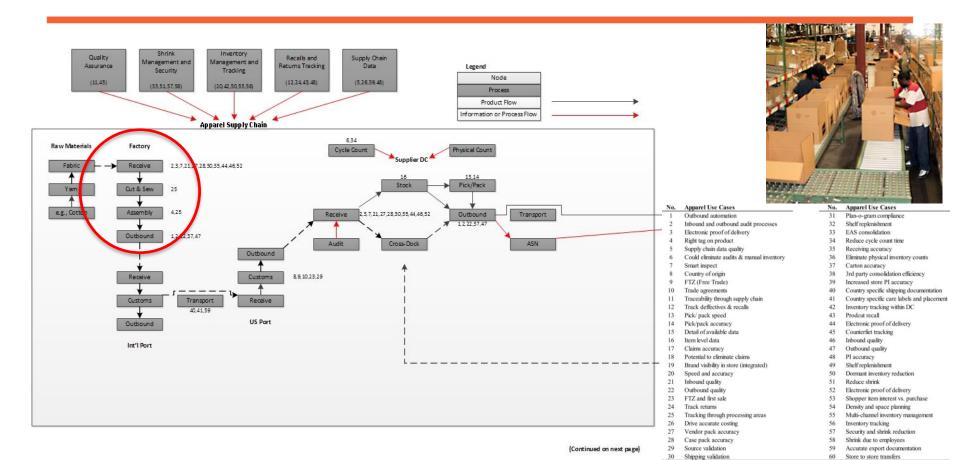
International Market - what are brands and retailers doing



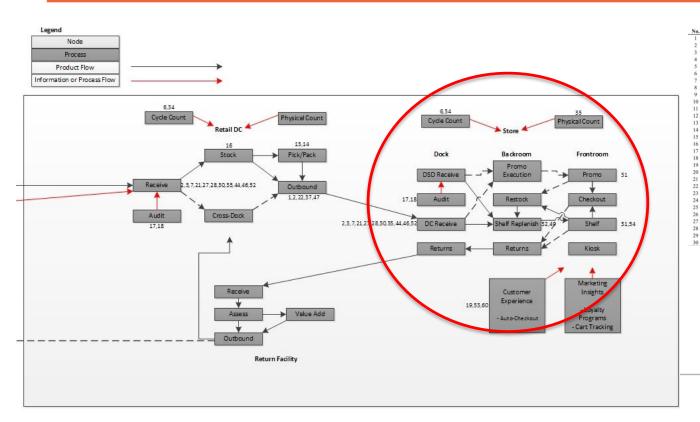
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Use Cases For RFID Adoption



Use Cases For RFID Adoption



ु	Apparel Use Cases	No.	Apparel Use Cases
	Outbound automation	31	Plan-o-gram compliance
	Inbound and outbound audit processes	32	Shelf replenishment
	Electronic proof of delivery	33	EAS consolidation
	Right tag on product	34	Reduce cycle count time
	Supply chain data quality	35	Receiving accuracy
	Could eliminate audits & manual inventory	36	Eliminate physical inventory counts
	Smart inspect	37	Carton accuracy
	Country of origin	38	3rd party consolidation efficiency
	FTZ (Free Trade)	39	Increased store PI accuracy
	Trade agreements	40	Country specific shipping documentatio
	Traceability through supply chain	41	Country specific care labels and placen
	Track deffectives & recalls	42	Inventory tracking within DC
	Pick/ pack speed	43	Prodcut recall
	Pick/pack accuracy	44	Electronic proof of delivery
	Detail of available data	45	Counterfiet tracking
	Item level data	46	Inbound quality
	Claims accuracy	47	Outbound quality
	Potential to eliminate claims	48	PI accuracy
	Brand visibility in store (integrated)	49	Shelf replenishment
	Speed and accuracy	50	Dormant inventory reduction
	Inbound quality	51	Reduce shrink
	Outbound quality	52	Electronic proof of delivery
	FTZ and first sale	53	Shopper item interest vs. purchase
	Track returns	54	Density and space planning
	Tracking through processing areas	55	Multi-channel inventory management
	Drive accurate costing	56	Inventory tracking
	Vendor pack accuracy	57	Security and shrink reduction
	Case pack accuracy	58	Shrink due to employees
	Source validation	59	Accurate export documentation
	Shipping validation	60	Store to store transfers



Current DC Learnings

- RF Data Capture
 - Portal, Tunnel, or Handheld?
- Source Tagging Accuracy
 - Fix or Notify?
- WMS Case Item Quantities
 - Exporting Data for Comparison
- Size of Value Proposition
 - What portion of claims can we resolve?



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Next Steps

Adoption Support

- Peer-to-Peer
 - 1:1 P2P outreach (calls / face-to-face meetings)
 - Group P2P workshop with department stores/other categories
 - ROI validation research (industry/academic/technology)
- 1:1 Statement of Work Support
 - Deployment support (Vendor roll-out)
 - Use case / Project proof-of-concept support
- Marketing / Communications
 - Case studies, Infographics, Industry Webinars, Public Speaking, Industry trade publications and vast media input for articles.



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