

RFID SPECIFICATIONS RADIO-FREQUENCY IDENTIFICATION (RFID)

Nordstrom is embarking on a journey to enable Radio-Frequency Identification capabilities across the enterprise. RFID capabilities are critical to providing our customers with the best possible experience shopping our brands anywhere and any way they would like. This requires that we have better visibility and more accurate, real-time views of our inventory so that we can anticipate and proactively address our customers' expectations. RFID tickets are required for all stores and online merchandise.

FAQs

- **When will Nordstrom require RFID?** We will require RFID tickets starting 8/1/2021.
- **Will all Nordstrom channels require RFID (Nordstrom, Nordstrom CA, Nordstrom Rack, Nordstrom Rack CA, nordstrom.com, nordstromrack.com, nordstrom.ca)?** Yes.
- **Will dropship suppliers be required to supply RFID?** Not at this time.
- **Will other product types be added to the inlay specifications list?** It's possible as RFID technology improves, the list will be expanded.
- **Is there a preferred tag model from the inlay list?** All the inlays listed for SPEC F [here](#) and SPEC G [here](#) meet our requirements. Choose a tag based on your packing and business needs.
- **For Ecommerce orders, where do I place the RFID tag, the retail ticket or the UPC barcode on the poly bag?** The RFID ticket must be placed on the product, please attach to the retail sticker.

RFID Resources

There are many resources available to you to support your migration and adoption of RFID technology. While Nordstrom will not tell you who to work with, below is a list of exemplar resources that we would recommend.

Education	Ticketing	Software	Hardware
GS1 Auburn University RFID Lab	Avery Dennison Fineline Technologies SML NexGen Packaging	Impinj SML Tyco Retail Solutions Maxim Label and Packaging	BlueBird Impinj Zebra Technologies

EPC-Enabled RFID Tickets

Nordstrom will be launching RFID capabilities in a phased approach. The following section provides you with requirements for the use and application of EPC-enabled RFID technology for Phase 1.

1. **EDUCATION:** GS1 offers low-cost education and training on RFID enablement and its applications within retail. We urge you to reach out to GS1 to learn more about this technology and how you can apply it to optimize your inventory accuracy and product visibility
2. **IDENTIFY INTERNAL STAKEHOLDERS:** Changing packaging and/or implementing the technology required to leverage RFID crosses many teams:
 - a. Packaging
 - b. Supply Chain
 - c. IT/Operations
 - d. Merchandising
3. **DETERMINE YOUR TAG OPTIONS:** There are many options for approved inlays in the marketplace. We encourage you to work with a Service Bureau and/or directly with your tagging partner to migrate to RFID tickets. Tag specifications by merchandise category can be found in the next section
 - a. Review and select your Tag/Inlay from the approved and certified list of vendors at <https://rfid.auburn.edu/temp/suppliers.php/>
 - b. Determine tag application options (integrated vs. secondary tag)
 - c. Determine best approach to encode/apply the tag to ensure proper identification and application to the correct product
4. **DEVELOP THE APPLICATION PROCESS:**
 - a. Review tag placement options in alignment with the [GS1 Apparel and General Merchandise Placement Standards](#)
 - b. Develop quality controls
 - c. Finalize information to be included on the EPC label
 - d. Ensure there is an ECP symbol as a visual identifier on all tickets
5. **TESTING:** Nordstrom does not manage a testing program nor will we require you to test your tags, but it is highly encouraged to ensure they meet our requirements below.

EPC-Enabled RFID General Requirements



1. All tags should be GS1 UHF Gen 2 certified. For a list of certified vendors, see: <https://rfid.auburn.edu/temp/suppliers.php/>
2. All tickets should be SGTIN-96 encoded for the specific product SKU in alignment with the [GS1 Tag Data Standard](#)
3. SGTIN-96 encoding must include the GTIN(UPC), a unique serialized number, and your GS1 company prefix or Nordstrom issued Vendor number to ensure non duplication.
4. All EPC tickets shall have a visual identifier that an EPC is present, using the EPC symbol on the label. Guidelines for use of the EPC symbol can be found here: <https://www.gs1.org/standards/epc-rfid/guidelines>
5. GS1 standards specify that it is the responsibility of the product brand owner to assign a globally unique GTIN to each product and assign unique serial numbers to each item. If your RFID tags will come from a 3rd party, then they will manage the serialization scheme for you. Regardless of how you are sourcing your RFID tags you will want to document the encoding scheme being used as well as understand how unique serialized values are being created for each product.

RFID Inlay Specifications | Phase 1

Apparel: Women's, Men's & Kid's	Tag Spec.	Accessories	Tag Spec.	Home & Gifts	Tag Spec.
Activewear	Spec G	Belts	Spec F	Bedding Sets	Spec F
Coats, Jackets, Blazers, Sport Coats	Spec G	Gloves & Mittens	Spec F	Blankets, Throws & Pillows	Spec F
Dresses	Spec G	Hair Accessories	-	Comforters & Quilts	Spec F
Jeans & Denim	Spec G	Hats	Spec F	Duvet Covers & Shams	Spec F
Jumpers & Rompers	Spec G	Headphones	Spec F	Sheets & Bed Skirts	Spec F
Bras	Spec G	Luggage & Travel	Spec F	Bath Accessories	-
Hosiery & Shapewear	Spec G	Phone Cases	Spec F	Rugs & Mats	Spec F
Pants	Spec G	Scarves & Wraps	Spec F	Towels	Spec F
Leggings	Spec G	Eyewear	Spec F	Art, Wall Décor & Mirrors	-
Shorts	Spec G	Accessories	Tag Spec.	Candles & Diffusers	-
Skirts	Spec G	Sunglasses	Spec F	Desk Accessories & Stationary	-
Sleepwear, Pajamas, Lounge, Robes	Spec G	Suspenders	Spec F	Faux Flowers & Plants	-
Sweaters	Spec G	Ties	Spec F	Lighting & Lamps	-
Sweatshirts & Hoodies	Spec G	Pocket Squares	Spec F	Picture Frames	-
Swimwear & Cover-ups	Spec G	Jewelry	Tag Spec.	Tabletop & Kitchen	-
Tops & Shirts	Spec G	Bracelets	-	Bar Accessories	-
Dress Shirts	Spec G	Earrings	-	Cookware & Bakeware	-
Suits	Spec G	Necklaces	-	Dinnerware & Glassware	-
Underwear	Spec G	Rings	-	Flatware & Utensils	-
Socks	Spec G	Watches	-	Serveware	-
Shoes: Women's, Men's & Kid's	Tag Spec.	Cuff Links	-	Speakers & Home Audio	Spec F
Boots	Spec F	Home & Gifts	Tag Spec.	Baby Gear	Tag Spec.
Heels	Spec F	Bedding Sets	Spec F	Baby Carriers	Spec F
Mules & Slides	Spec F	Blankets & Throws	Spec F	Bath & Potty	Spec F
Oxfords	Spec F	Comforters & Quilts	Spec F	Blankets & Swaddles	Spec F
Sandals	Spec F	Pillows	Spec F	Car Seats	Spec F
Slippers	Spec F	Duvet Covers & Shams	Spec F	Diaper Bags	Spec F
Sneakers & Athletic	Spec F	Sheets & Bed Skirts	Spec F	Feeding	Spec F
Wedges	Spec F	Cosmetics & Grooming	Tag Spec.	High Chairs	Spec F
Loafers	Spec F	Shaving & Beard Care	Spec F	Nursery Furniture & Décor	Spec F
		Hair Dryers	Spec F	Strollers	Spec F