Zebra's RFID Android APIs

Presented by: Javier Molina, Kutir Mobility

Who We Are

- Kutir Mobility is an enterprise level application and services provider.

- Successfully building enterprise software since 2003
  - Partner with hardware manufacturers, distributors and resellers

- Solution Focus:
  - Business Ready Solutions (Enterprise/SaaS)
  - Professional Services

Who We Are

- Zebra ISV
- Global company with more than 100 resources in NA, EMEA & APAC
- Winner of Zebra's 2015 ISV of the Year for all of North America – chosen from over 2,000+ ISVs
- Winner of Zebra's 2017 Tablet App of the Year (TechDispatch)
- Built dozens of enterprise apps using Barcodes, RFID, QR codes etc. for Zebra rugged and non-rugged devices.

Our Association With Zebra

- Kutir provides support to Zebra's Developer Portal answering questions
- Member of Zebra's Partner Advisory Council
- Early Adopter for all of Zebra's Android devices and several Printers
- Early Adopter of Zebra Savanna
  - Product lookup, FDA recall notices and other services provided by Savanna to Kutir's products
  - Developers and Program Managers on Savanna team
- Working on core Zebra Motion Works Enterprise product with Location Services team

Who We Serve

- *Home Depot (in-store application migration) – NALA*

- *Costco (check-out line busting) - NALA*

- *United Rentals (equipment staging, loading) – NALA*

- *Johnson Controls (HR-Performance Management) – APAC*
  (Field Service (enhance/maintain)) – NALA

- *Thompson Electric Company (field service, electric meters) - NALA*

- *Hormel (Plant Operations) - NALA*

- *Pacific Cheese (manufacturing/warehouse) - NALA*

- *EquipSolutions (equipment configurator, sales) – NALA*

- *Calpine Corp (Generator Inspection) - NALA*

- *UHS (pickup & delivery of high-valued medical assets) - NALA*

- *E.ON (field service) - EMEA*

- *Resort Advantage (slots jackpot accelerator) - NALA*

- *ParkMobile (Event Management) - NALA*

- *Grass Roots Group (Event Management) - EMEA*

- *Morpho Detection (field service) – NALA*

- *PigKnows (swine data analytics) - NALA*

Business Ready Solutions

- Field Service
  - TechDispatch™
    - Technician Dispatch and Work Order Management
  - ProofOfDelivery™
    - Pickup and Delivery, Proof of Delivery, Direct Store Delivery Management
- Asset Management
  - Asset360
- Warehouse and Inventory Management
  - Inventory360
- Sensor-based Condition Monitoring and Alerting
  - Monit360

Get in touch

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Zebra's RFID Android APIs

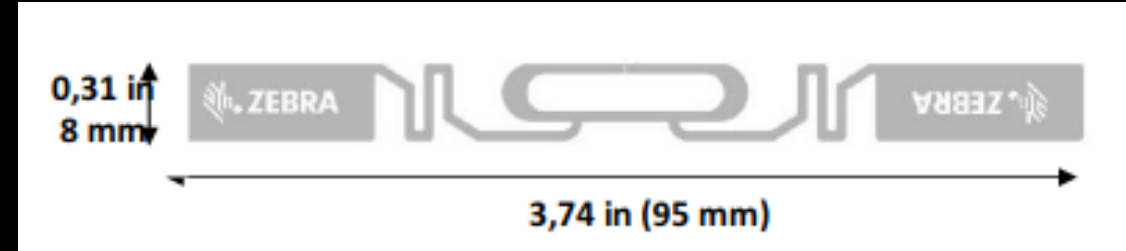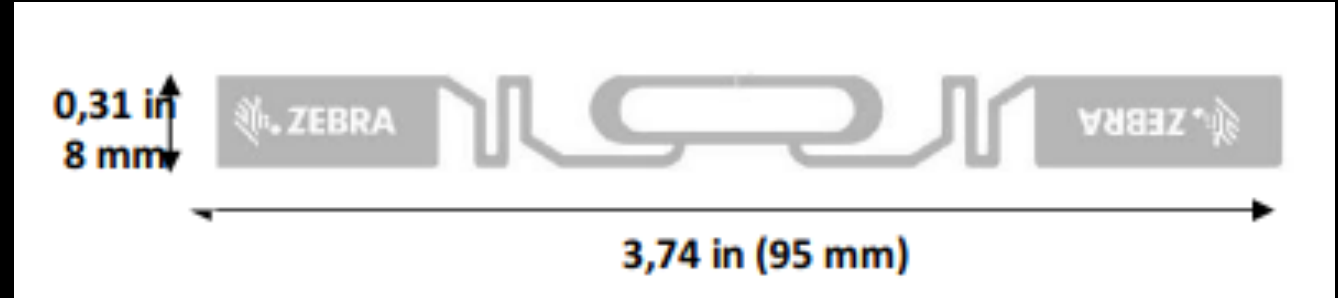Presented by: Javier Molina, Kutir Mobility

RFID is pure magic

"Any sufficiently advanced technology is indistinguishable from magic"

Arthur C. Clarke

RFID is pure magic

- Reader sends energy waves to a tag

- Tag captures some that energy thanks to its antenna

- Tag modulates how much of that energy it draws or reflects

  - Like talking to your power company by switching on / off your lights

  - Like talking to someone by reflecting light off a mirror you cover / uncover

- Reader measures the tag's power draw or reflection and converts to data

"barcode on steroids"

- Read the code from the tag

- Change (write) the code, multiple times

- Write additional information ("user" memory bank)

- Lock the tag to prevent further writes

- Password-protect the information

- And more

Get the right SDK

Get the Zebra Android RFID SDK from

https://www.zebra.com/us/en/support-downloads/software/developer-tools/rfid-sdk-for-android.html

1.- Connecting to the reader (MC3300R demo)

2.- Scanning your first tag

AKA the "Inventarium Scaneamus" spell

3.- Scanning multiple tags

4.- Beyond scanning:
Reading memory banks

5.- Writing a tag

AKA the "Scriptura Digitalis" spell

and beyond...

- Setting the access password

- Write-locking memory

- Killing a tag

- Inventory sessions

Questions?

http://developer.zebra.com

Zebra Developer Community – LinkedIn Group

@ZebraDevs