

DEVICES BUILT BY US APPS BUILT BY YOU

BUILD ON THE PLATFORMS YOU KNOW ON DEVICES PURPOSE-BUILT FOR THE ENTERPRISE

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Zebra Data Services – Device Driven Data

January 2020








Presented by: Robin West

Agenda








- What's New with Data Services
- Quick Overview of accessing APIs
- Over the Top applications
- Managing Tenants and Corporate Accounts
- Managing your devices
 - AOS
 - Device Health (EMC)
- Data Services SDK

What's new with Data Services?

- Prod

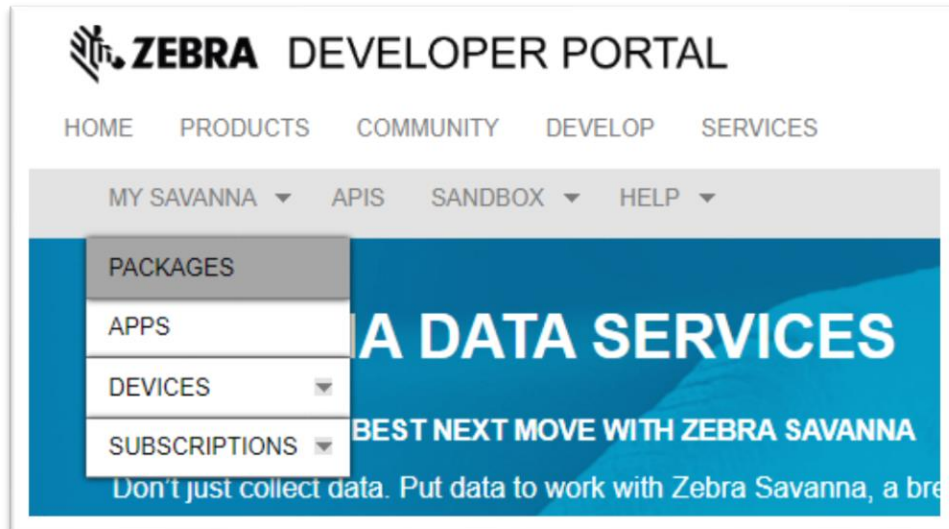
 <p>Asset Ownership Service The Asset Ownership Service (AOS) allows a user to see what devices they own that have been enrolled in Zebra Data Services.</p> <p>View Details</p>	 <p>Authorization Service The Authorization Service provides with a single, unified abstraction layer for authorization processes to access many core services.</p> <p>View Details</p>	 <p>Barcode Intelligence - Barcode Generator The Barcode Generator API generates 1D or 2D barcode images that can be printed or scanned across 103 barcode types like QR Code, UPC, Code 128, and Data Matrix.</p> <p>View Details</p>
 <p>Barcode Intelligence - FDA Recall Use a Universal Product Code (UPC) or product description to get US Food and Drug Administration (FDA) notices and corrective actions regarding a health risk or defective device.</p> <p>View Details</p>	 <p>Barcode Intelligence - UPC Lookup Find product descriptions, photos, pricing and other details on any product in seconds with a lookup of the products Universal Product Code (UPC).</p> <p>View Details</p>	 <p>Blockchain Traceability - Basic Record scan, print and read events to the Zebra Blockchain.</p> <p>View Details</p>
 <p>Tenant Service Obtain a list of accessible tenants.</p> <p>View Details</p>		

- Sandbox

 <p>Barcode Enrichment Retrieve barcode type and enrichment details based on the barcode and type provided.</p> <p>View Details</p>	 <p>Barcode Intelligence - ID Parser Take barcode data from State IDs, military IDs, and passports and decode them into an easily readable and understandable JSON format that clearly defines the information such as name, ID number and expiration date.</p> <p>View Details</p>	 <p>Barcode Intelligence -EPC GS1 Encoding/Decoding This API provides multiple methods to encode and decode standard application identifiers of GS1 Compliant RFID tags.</p> <p>View Details</p>
 <p>Mobile Computer Basic Device Information Retrieve Device Information API</p> <p>View Details</p>	 <p>Mobile Computer Battery Health Savanna Battery Remaining Useful Life Prediction API</p> <p>View Details</p>	 <p>Printers - Print The Printer – Print From Cloud API enables online access to any Zebra LinkOS enabled printers. Questions or comments? Join the discussion.</p> <p>View Details</p>
 <p>VIN Finder Decode a vehicle id number. Questions or comments? Join the discussion.</p> <p>View Details</p>		

Accessing APIs

1. Select a Package
2. Create an App
3. Try APIs
4. Buy Credits



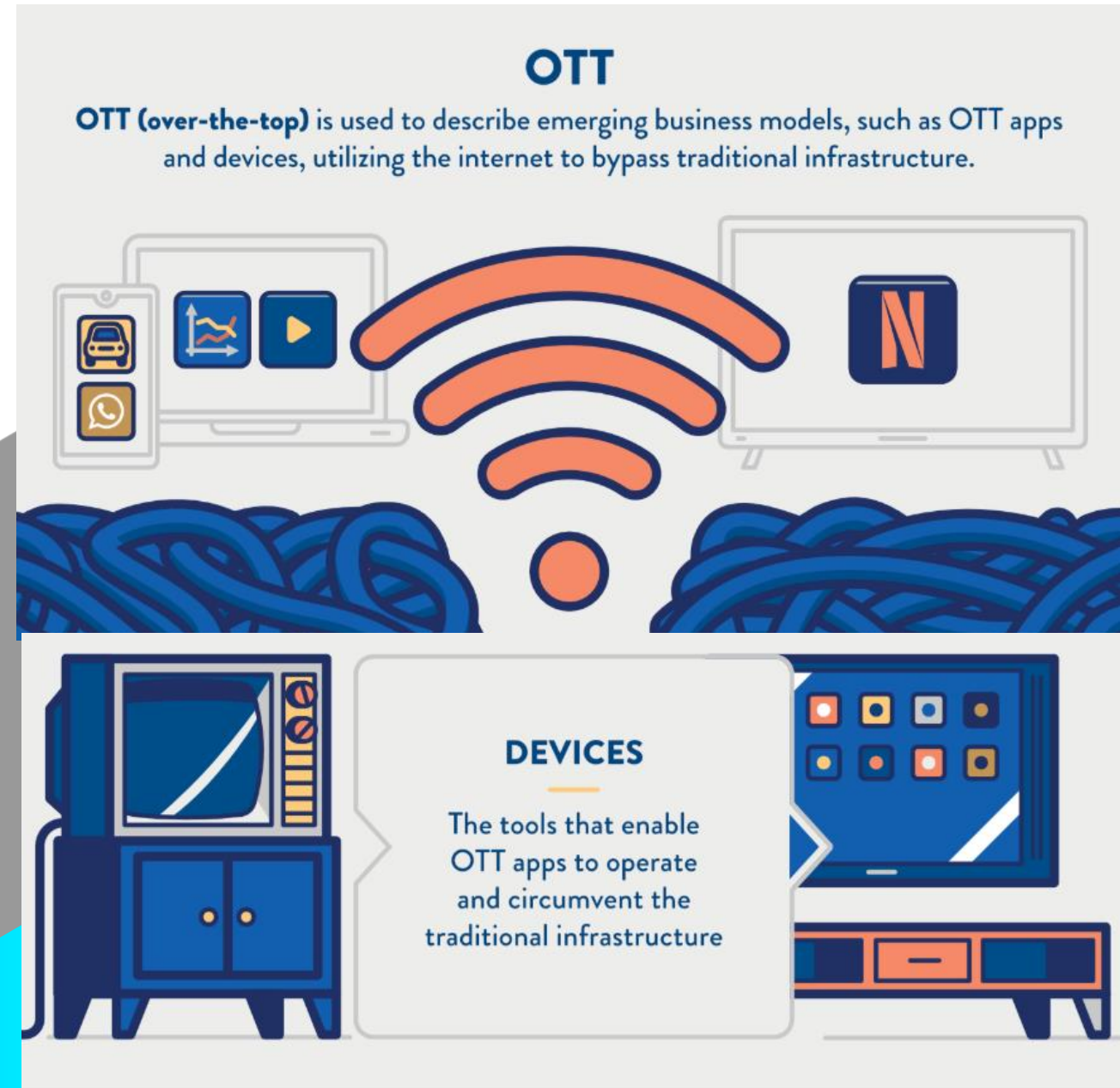
A screenshot of the Zebra Developer Portal 'My Savanna' page. The page header includes the Zebra logo and 'DEVELOPER PORTAL'. Navigation links include HOME, PRODUCTS, COMMUNITY, DEVELOP, SERVICES, MY SAVANNA, APIS, SANDBOX, and HELP. A search bar and user name 'Hi, Robin' are in the top right. Below the navigation, there are tabs for Billing, Catalog & Plans, and Settings. Under 'Catalog & Plans', there are sub-tabs for Catalog and Purchased Plans. The main content area is titled 'My Savanna' and contains a table with two columns: Package Name and Products.

Package Name	Products
FDA Recall (Free)	FDA Recall (Free)
Savanna API Battery Prediction Sandbox	Savanna API Battery Prediction
Mobile Computer Device Health	Mobile Computer Device Health Product
Create Barcode (Free)	Create Barcode (Free)
Upc Lookup (Basic)	Upc Lookup (Basic)
Barcode Intelligence Sandbox	Barcode Intelligence Sandbox
Mobile Computer Insights Sandbox	Mobile Computer Insights Product
Barcode Intelligence	Barcode Intelligence
Upc Lookup (Free)	Upc Lookup (Free)
Zebra Savanna Base Platform APIs	Savanna Authorization, Zebra Savanna Base Platform APIs
EMM Toolkit Package	LifeGuard OTA, OTA Authorization API
Blockchain Traceability	Blockchain Traceability

Over the Top Applications

Why send scans and RFID reads to the Cloud?

- Use Cases
 - Reduce local infrastructure
 - Retailer with POS system looking to get analytics...
 - Hospital giving out medications wanting to be notified if any are recalled...
 - Distribution warehouse needing to add immutable records to product transfers...
 - Any time you have a standard application that cannot be changed, but you need to add additional functionality, you can create an “Over the Top” application with Data Services.



Managing Tenants and Corporate Accounts

By default, all users have a personal tenant

Corporate accounts (registered partners and customers) may also have a tenant – tied to the technical contact for Zebra

Use cases:

- Developer/ISV owned devices – Use one API key or Savanna Authorization
- Corporate owned / Partner Managed – use Savanna Authorization

To use Savanna Authorization Service

- Do not attempt to use this API on your own
- Contact Zebra Support for help in setting up rules and roles
- Self service documentation coming in the following months

Managing your Devices

AOS

- Tenant API – Find out your tenant
 - <https://developer.zebra.com/apis/review-savanna-tenant-service>
- Asset Ownership Service API – What devices you have enrolled
 - <https://developer.zebra.com/apis/review-savanna-aos>
- My Devices – Enroll new devices
 - Contact SavannaPartnerTeam@zebra.com to get the enrollment apps.
 - <https://developer.zebra.com/devices/reader>

Device Health

- Most Zebra Android Mobile Computers and Link-OS printers attempt to send device data to Zebra once a day
- APIs to access this data and provide analytics from it
- Basic Device Info - <https://developer.zebra.com/apis/retrieve-device-information>
- Battery Health - <https://developer.zebra.com/apis/battery-remaining-useful-life>

Data Services SDK

Coming Soon!

- Java
- .Net
- JavaScript
- Python
- Will be available as source code on Github with sample apps and
 - Nuget
 - Maven
 - PyPI
 - NVM

Questions?

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