



Welcome to Metro

Agenda

- Introduction
- Who is Franwell

www.metrc.com/massachusetts

- What is Metrc
- How does Metrc work
- Security and information
- Why RFID
 - How does it work
- Integration with other software
- Training and support



Who is Franwell

- 25+ years of business experience in (high flow & volume) supply chain processes & tracking
- 30+ years of experience in computer technologies
- 15+ years focused on auto identification technology (Bar-coding, RFID, etc.)
- In-house
 - Low and high level software design & engineering
 - Digital/hardware design & engineering
 - Solution architecting
 - Help & Support
 - Franwell is the parent company of Metro



Metrc Focus

- Over 50,000 Industry users enrolled
- Over 250 State users
- Over 68,000 patients
- Over 5,200 licensees registered
- Over 12,000,000 plants commissioned
- Over 9,000,000 packages tracked
- Over 1,500,000 travel manifests processed
- Over 4,500,000,000 dollars transacted























Up-Time better than 99.9%

What is Metrc?

Scope

 Metrc[™] is a compliance management solution used by regulatory bodies for the oversight of the marijuana industry.



 Metrc is a cloud hosted on-line software reporting system used by licensed marijuana businesses to manage and report supply chain activities as required by state rules.



Different System / Different Applications

Regulatory Tracking – Compliance with rules, regulations and statutes. Used to monitor and track compliance and product for public safety.

Regulatory

Materials Resource Planning – Business Management Software used for production planning, scheduling, and inventory control.

MRP

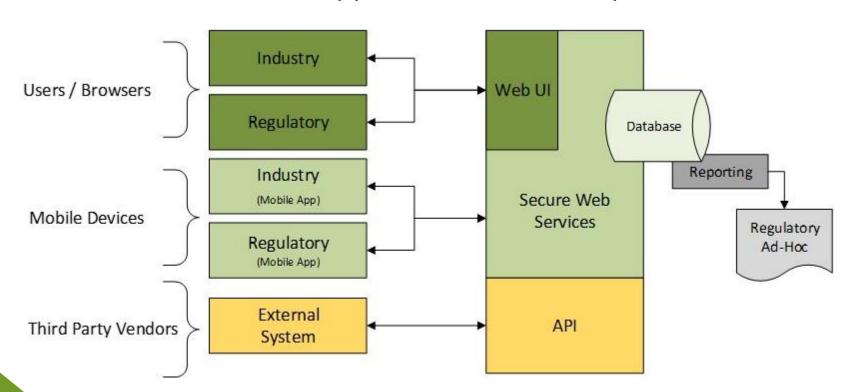
Enterprise resource planning - Business Management software used for the integrated management of core business processes, Production, Inventory, Shipping, Finance

ERP

What Makes up Metrc

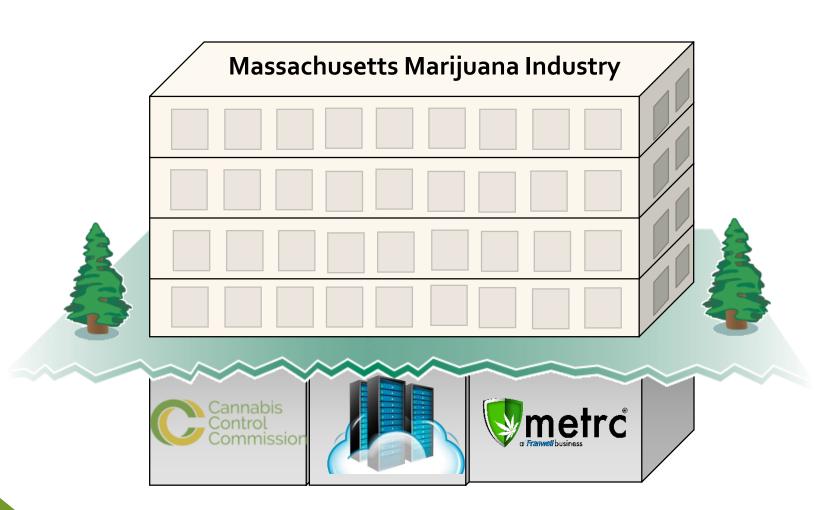
The system consists of:

- A web application
- Web services
- A mobile application for site inspection
- A mobile application for industry use



How Metrc is Built

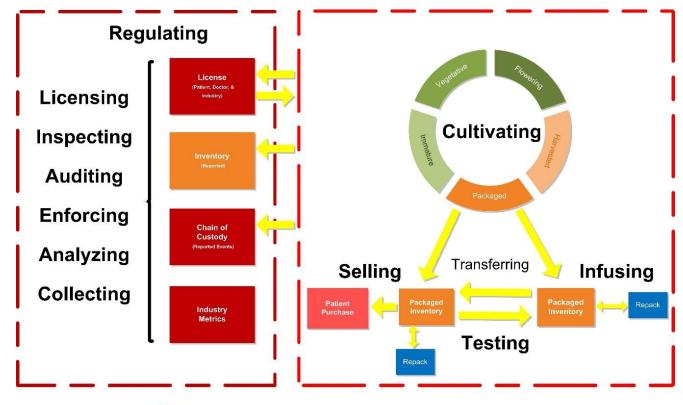
- Private dedicated hardware
- Secure on-line access
- Real-time with data backup and failover



How Does Metrc Work

How Metrc is Organized







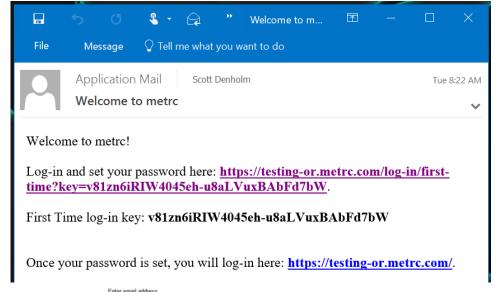


Setup Personal Profile

- After you have received your license
- First time credentialing

"Welcome to metrc" email,

- Follow these steps to complete your login credentials:
- Click on the first link. You will be directed to the website.
- Setup a user Profile





Setup Business Profile

- 1. Receive Metrc Administrator credentials
- 2. Add facilities
- **3.** For each facility add:
 - A. Employees
 - B. Strains
 - C. Items
 - D. Locations

Permissions for each type of facility

| | Marijuana Cultivator | Marijuana Product Manufacturer | Craft Marijuana Cooperative | Marijuana Microbusiness | Marijuana Transporter | Marijuana Retailer | Marijuana Research Facility | Independent Testing Laboratory |
|-----------|-------------------------|--------------------------------------|-----------------------------------|----------------------------|--------------------------|-----------------------|-----------------------------------|--------------------------------------|
| Plants | $\sqrt{}$ | | V | $\sqrt{}$ | | | V | |
| Packages | $\sqrt{}$ | \checkmark | $\sqrt{}$ | $\sqrt{}$ | | $\sqrt{}$ | $\sqrt{}$ | \checkmark |
| Transfers | $\sqrt{}$ | \checkmark | V | \checkmark | $\sqrt{}$ | $\sqrt{}$ | V | \checkmark |
| Reports | $\sqrt{}$ | \checkmark | $\sqrt{}$ | \checkmark | | $\sqrt{}$ | \checkmark | \checkmark |
| Sales | | | | | | $\sqrt{}$ | | |

Setup Product Profile

Waste

Categories Items Buds Item names are used to identify what type of item is packed Concentrate into a package. Concentrate (Each) Category Immature Plants Type of product Infused-Edible Quantity Infused Non-edible Kief Unit of measure Shake/Trim Used for traceability and recalls if necessary. Shake Trim by Strain Seeds

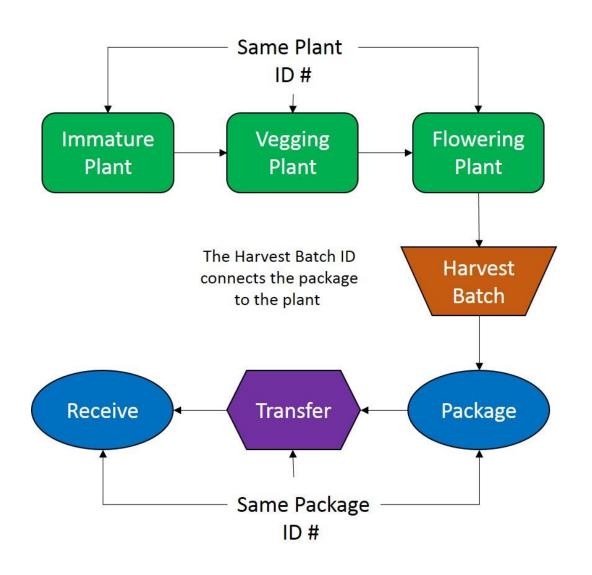
Tags and Tracking

Tagged Inventory in Metrc

- There are two types of tagged inventory in Metrc: Plants and Packages.
- Plants are immature, vegetative, or flowering. All plants must enter the system through immature plant batches. However, immature plants will be entered as un-tagged Planting Groups in Metrc.
- Packages are created from immature plants, harvest batches or other packages.



Chain of Custody



Facility Name

License Number

Plant



 Identifier
Order Information

Identification Number

Metrc Seal



Package

- Peal and stick adhesive backing.
- Package tag is used for transferring packages and tracking of finished product for each licensee in the chain of custody.
- The package tag is perforated with the "Package ID #" printed on the upper and lower sections. (example: can be used for jar labeling in order to identify associated package).





Tag Attached to Larger Plant







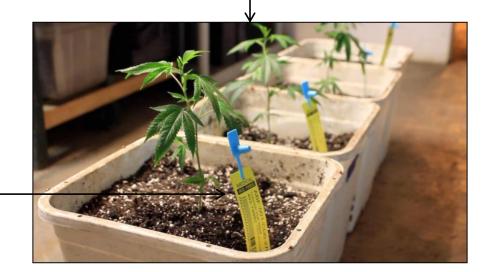


Attachment to Small Plant



Point of strap used for inserting into small plant container

Strap inserted into growth media



Plant Tag Strap User Instructions



Notch

Multi-Use straps

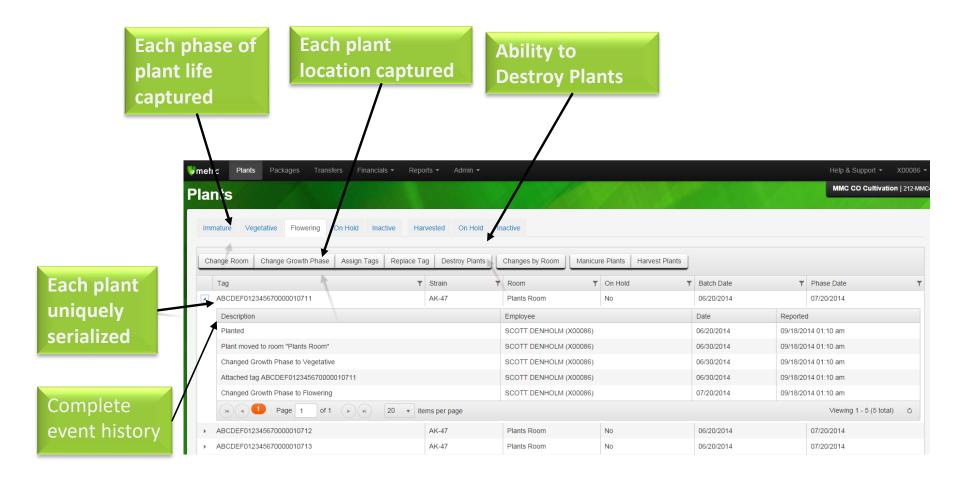
When assembling the tag to a strap, move the tag up until the notch catches the label through the hole, so that the label will not slide down.



When hanging the tag, release one end of the label, then tie the strap around the plant.



Plant Tracking

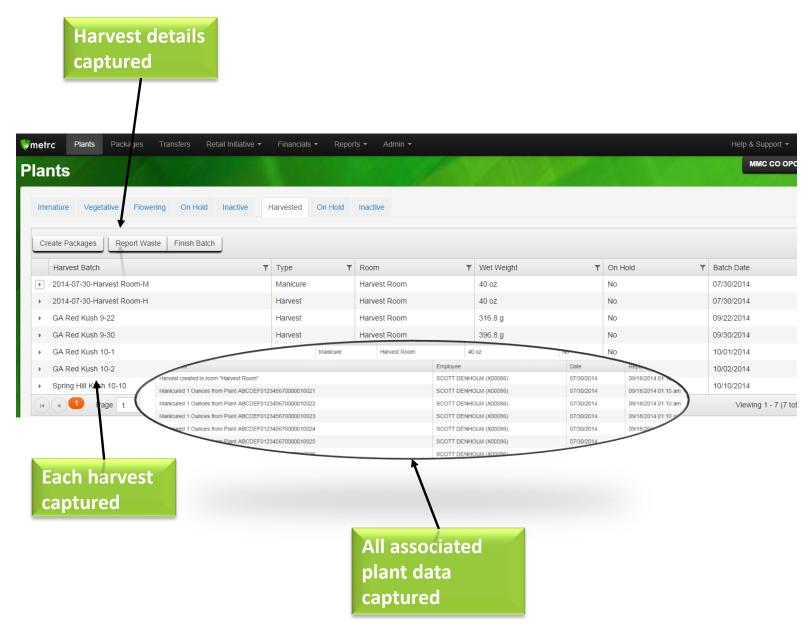


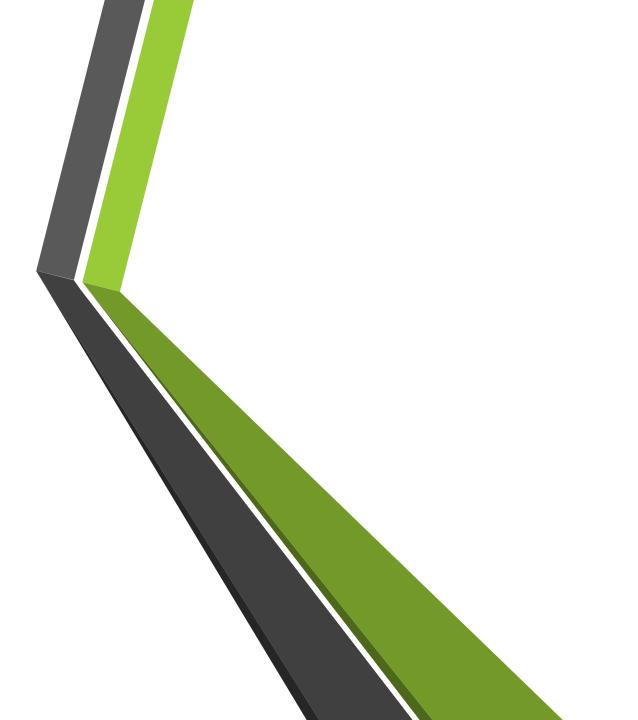
Harvest Steps

- Harvest Create harvest with associated plants
- Weigh the plant in its entirety after being cut from root ball (stem, stalk, bud/flower, fan leaves, trim leaves, etc.)
- Waste can be multiple entries but must be reported the day it is created
- Package pack and tag product (buds, or shake/trim)
- **Transfer** must create transfer manifest to move product to Testing Lab, Processors, Wholesalers etc.
- Finish when Harvest Batch is completely gone



Harvest Tracking





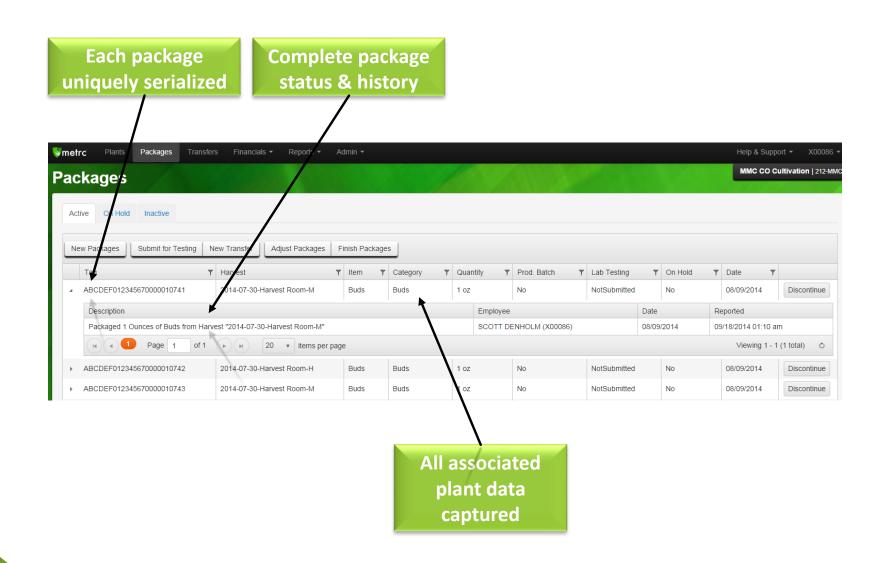
Packages

Packages - Definition

- Any amount of marijuana or infused product that may be sold, processed or transferred and must be placed into one or more containers, each having a unique tag created in Metrc.
- Any product intended for transfer must have a package tag.
- Metrc allows you to repack any package into a new package.



Package Tracking



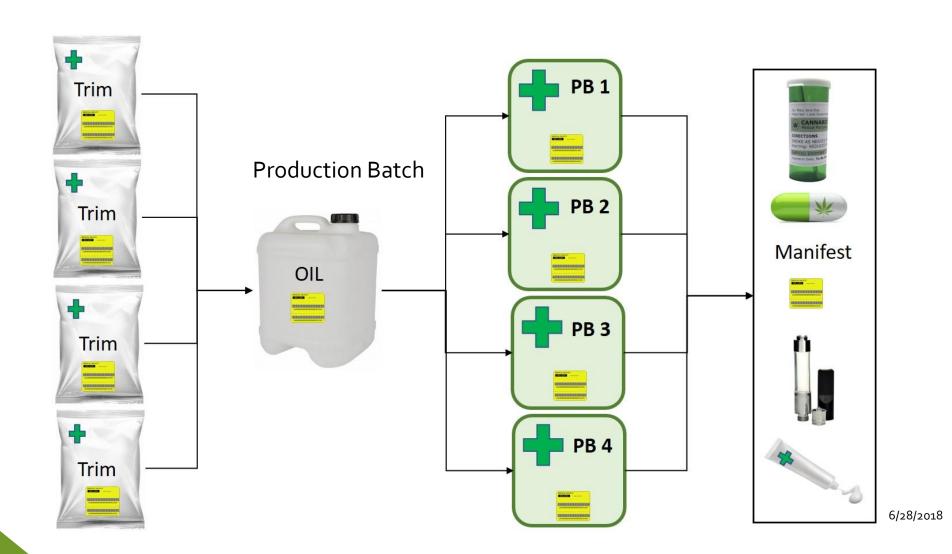
Product Manufacturers

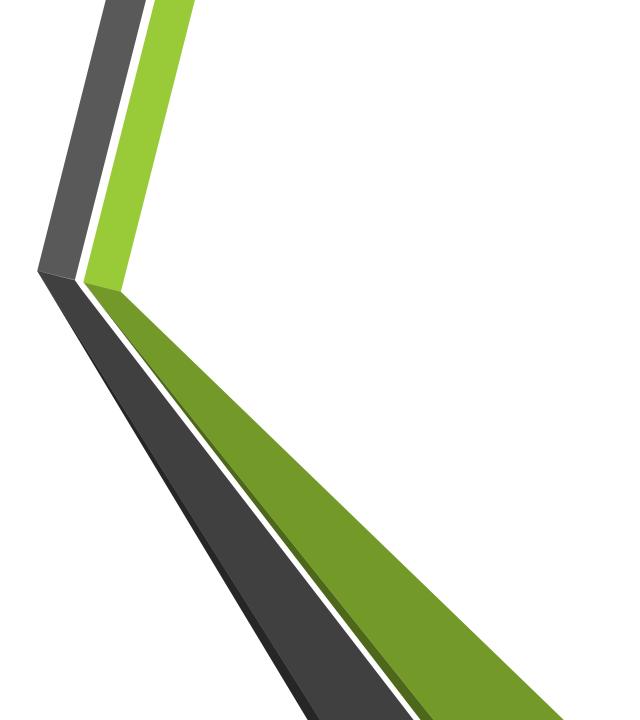
Packages & Intermediate Processes

- For in-coming packages used in an intermediate process such as making concentrate.
 - Pull from existing packages and create a new package for the concentrate.
 - The new packaged concentrate may then be partially used in an infused product such as an Infused Edible or Infused Non-Edible or another Concentrate.



Edible/Non-Edible Process

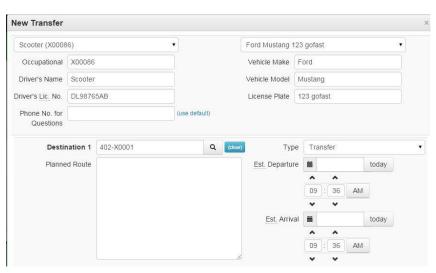




Transfers

Transfers

- A transfer must be created anytime a package moves from one physical location or licensed facility to another.
- A transfer can be rejected by package or completely.
- A rejected package will require the originating Licensee receive the package back into their custody.



MARIJUANA ENFORCEMENT DIVISION MARIJUANA TRANSPORTATION MANIFEST

| License # of Originating E | | 000000040 | Date Completed: | 01/26/2016 | | | |
|---|------------|--|---------------------------------|-----------------------------------|----------------|--------------------|--|
| License # or Originating t | intity: 3 | 100-X0002 | | For MED Use Only | | | |
| Name of Originating Entity: 0 | | OR LOFTY ESTABLISHMENT, LLC | | | | | |
| Address of Originating Entity: | | 079 SE McLoughlin Blvd. Portland,OR 97222-7355 | | | | | |
| Phone # of Originating Entity: | | | | | | | |
| Phone # MED Can | Call w | ith Questions: 123.456.78 | 390 | ' | | | |
| DESTINATION: | OR LO | DFTY ESTABLISHMENT, LLC | 3 | Destination Phone #: | | | |
| Stop Number on Route: | 1 | | | Destination License Number: | 200-X00 | X0002 | |
| | 9079 91 | E McLoughlin Blvd. | | Date and Approximate Time of De | parture: 1 | /27/16 3:09 PM | |
| Address of Destination: Por | | I,OR 97222-7355 | Date and Approximate Time of Ar | rival: 1 | /28/16 3:09 AM | | |
| | lana D | | | Item Label | | Walahaloale. | |
| Shake/Trim | Item D | escription | ABCDEF012345670000012679 | | | Weight/Quantity | |
| Shake/Trim | | | ABCDEF012345670000012678 | | | 14.0 | |
| Shake/Trim | | | | DEF012345670000012681 | 10.00 | | |
| Shake/Trim | | | ABCDEF012345670000012682 | | | 15.0 | |
| PRO | DUCT | REJECTION (if only a portion | of shipmen | t is rejected, circle that po | ortion abo | ive) | |
| Name of Person Receivir Rejecting Product: | g or | | | | | | |
| | | is shipment match weight records en led above. Those portions circled wer | | | | of this shipment n | |
| I confirm that the conte | Signature: | | | Date: | | | |
| | | | | | | | |
| Signature: | king rece | eipt of rejected portion of this | | | | | |
| Signature: Signature of individual tal | | eipt of rejected portion of this | Occ | cupational License # of Person Tr | ansporting: | Pending | |

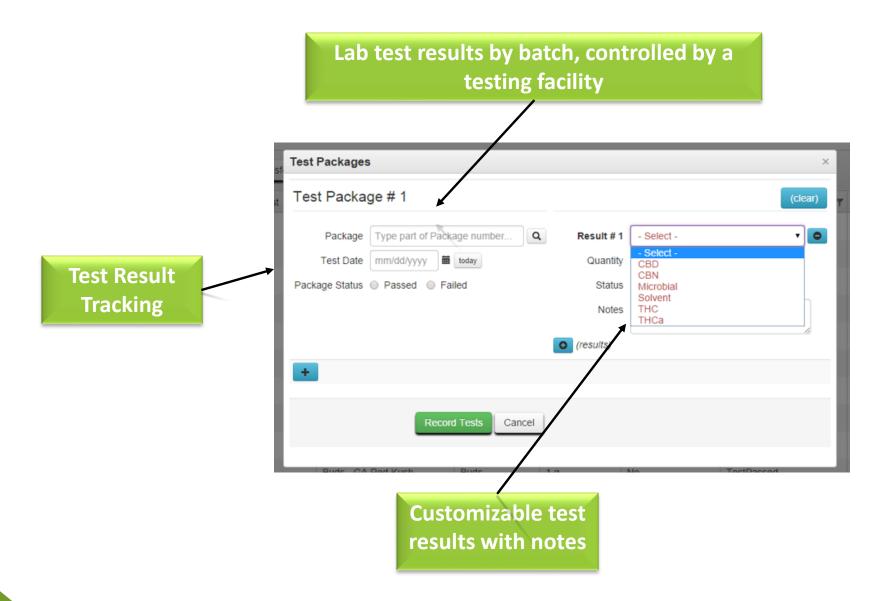
Transfer Tracking

Transfer manifest created, moved and monitored by the system

Detailed transfer manifest and history captured



Lab Test Results

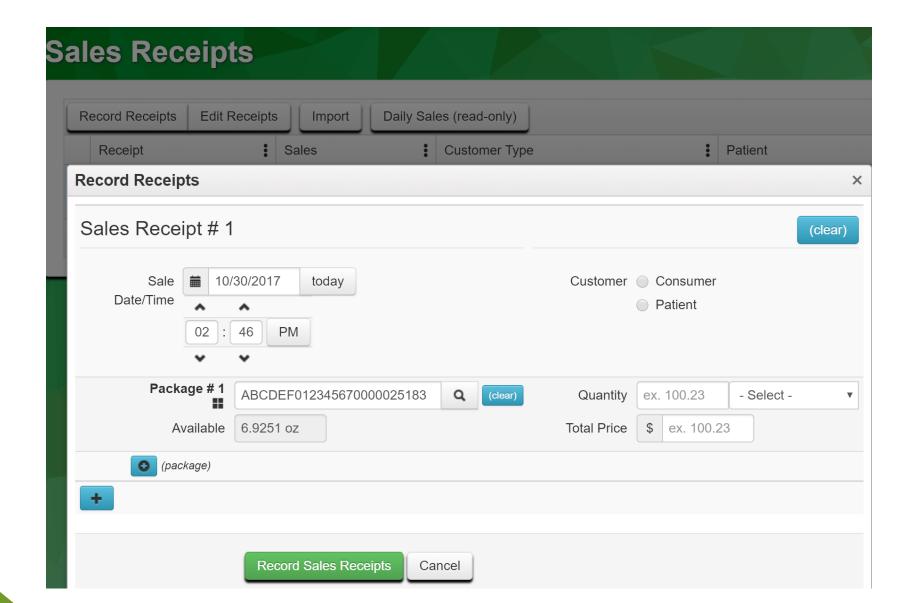


Sales

- Recording of Sales in Metrc is for "reporting last event in chain of custody"
 - Quantity
 - Unit of Measure
 - Total dollars of the sale
- There is sales data import functionality currently with Point of Sale (POS) companies
 - POS companies will provide more details.
 - Comma Separated Value (CSV) File upload



Sales Reporting



Reports







Exportable to

MS Word, MS Excel and PDF

formats

RFID, What & Why

Speed / Accuracy / Precision

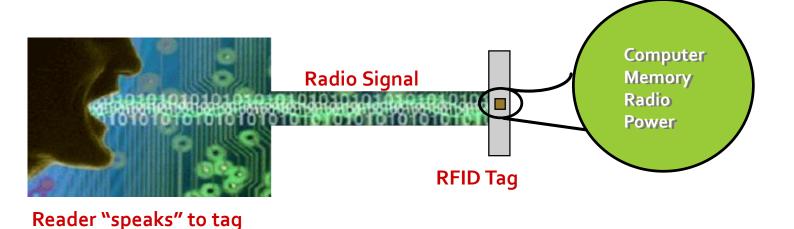






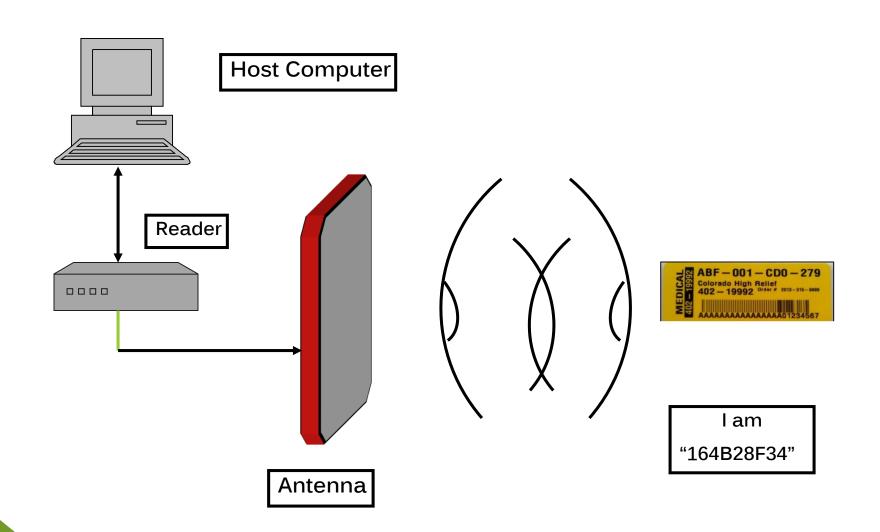
What is RFID?

- Radio Frequency Identification
 - A technology that identifies objects using low-power radio frequency technology.
- RFID Solutions consist of three components:
 - Hardware (Reader and Antenna)
 - RFID Tag
 - Software



The graphic some. Maybe be explain how II contains different and how to unthem (without

How Passive RFID Works



Why RFID

- Read Range 10+ Feet
- Line of sight is not required
- Speed 8 to 10 times faster than bar-code
 - Improved Accuracy
 - Faster compliance
 - Search and find feature



Integration

Use Caution and Seek Clarity



- Metrc does not outsource, partner or validate 3rd party companies
- Not all aspects of Metrc are available in the API
- Remember the state does not look at other systems only the system the state procured



Application Programming Interface

- The API supports data transfer FROM vendor applications to METRC
- The API supports data transfer TO vendor applications from METRC
- The API supports data transfer FROM agency applications to METRC
- The API supports data transfer TO agency applications from METRC

Third party vendors validation process currently in process



Support

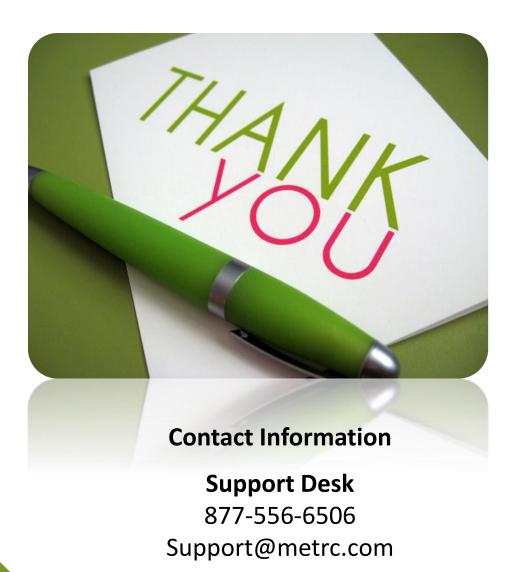
Support Resources

Support Tab

- Metrc Manual/User Guide
- Quick Reference guide
- Training
- Interactive Support
- E-mail
 - Support@metrc.com
 - Metrc support line 877-566-6506







www.metrc.com/massachusetts