

## Introduction to California Cannabis Track-and-Trace System

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#### Agenda

- Who is Franwell?
- Introduction to Metrc
- Working with Metrc
  - Obtaining User Access
  - Tags and Tracking
  - Plants
  - Packages
  - Manufacturing
  - Transfers
  - Laboratory Testing
  - Retail Sales
  - Reports
- RFID, What and Why
- Integration with other Software
- Support

Introduction to California Cannabis Track-and-Trace System v1.2



#### 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 (Barcoding, RFID, etc.)
- Current Statistics:
  - Over 53,000 Industry users enrolled
  - Over 200 State users
  - Over 11,501,800 plants commissioned
  - Over 8,527,139 packages tracked
  - Over 1,421,585 travel manifests processed













# Introduction to Metrc

#### Scope

- Metrc® is a compliance management solution used by regulatory bodies for the oversight of the cannabis industry.
- Metrc is a cloud hosted on-line software reporting system used by licensed cannabis businesses to manage and report supply chain activities as required by State rules.

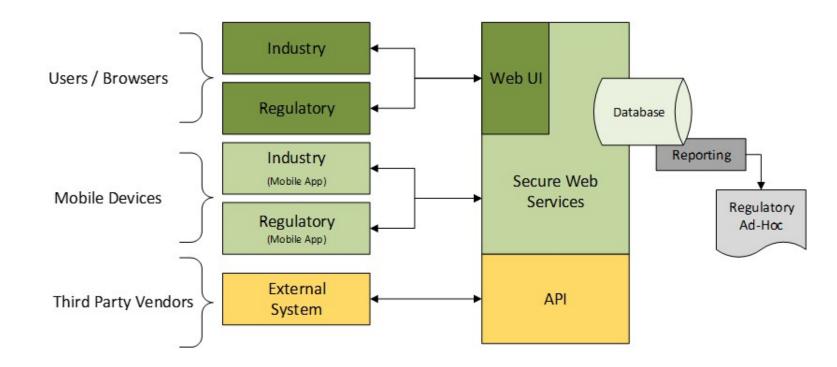




CCTT-Metrc is California's implementation of Metrc (metrc.com/California)

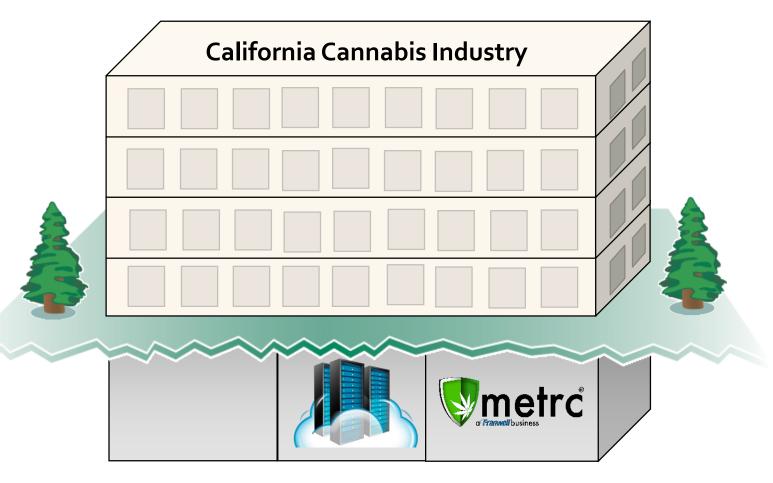
#### What Makes up Metrc?

- The system consists of:
- A web application
- Web services
- A mobile application for site inspection
- A mobile application for industry use

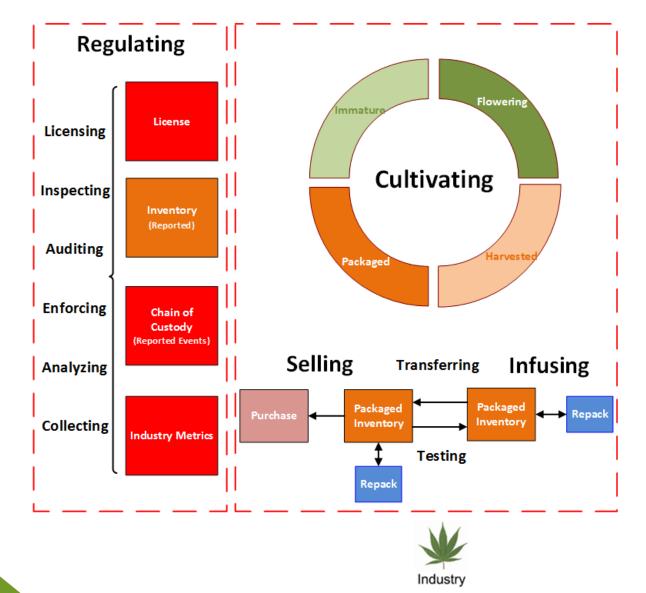


#### **How Metrc is Built**

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



#### **How Metrc is Organized**



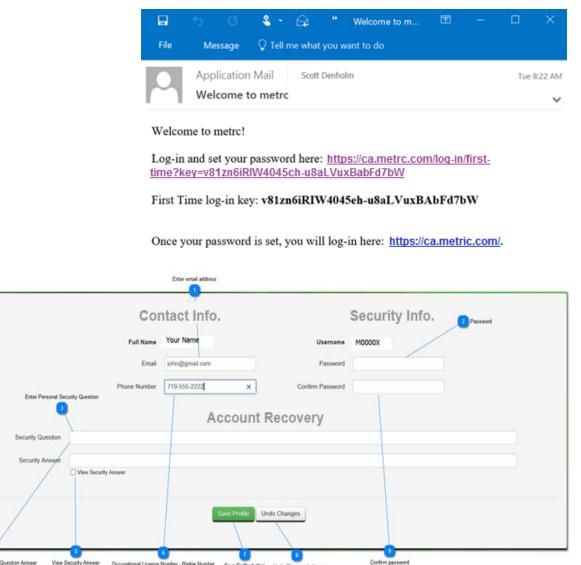
"Immature plant" or "immature" means a cannabis plant that is not flowering.

"Flowering" means that a cannabis plant has formed a mass of pistils measuring greater than one half inch wide at its widest point.

# Working with Metrc

## **Obtaining User Access**

- Submit your Annual license application and take the required training
- Obtain approval of Annual license
- Call or email Metrc Support to receive confirmation of Annual license and training completion
- Follow these steps to complete your login credentials upon receipt of welcome email:
  - Click on the first link in the "Welcome to Metrc" email. You will be directed to the website.
  - Accept State Attestation and Metrc Terms and Conditions
  - Setup a User Profile



Enter Personal Security Question Answer View Security Answer Occupational License Number - Badge Number Save Profile button Undo Changes button

#### **Setup Business Profile**

For each license (facility) add:

- 1. Employees
- 2. Strains
- 3. Items
- 4. Rooms (Cultivators Only)

#### California Regulations can be accessed at:

California Department of Food and Agriculture (CDFA): <u>http://calcannabis.cdfa.ca.gov/</u> Cultivator licenses

Bureau of Cannabis Control (BCC): <u>http://www.bcc.ca.gov</u> Distributor, Retailer, Testing Laboratory and Microbusiness licenses

California Department of Public Health (CDPH): https://www.cdph.ca.gov/Programs/CEH/DFDCS/Pages/MCS B.aspx Manufacturing licenses

#### Permissions for Each Type of License Facility

		Cultivator		Distributor		Manufacturer		Testing		
	Cultivator	Processor Only	Distributor	Transporter Only	Manufacturer	Packager Only	Retailer	Laboratory	Microbusiness	
Plants	✓								✓	
Packages	<ul> <li>✓</li> </ul>	✓	✓		✓	✓	$\checkmark$	✓	✓	
Packages - Remediation					✓	✓			✓	
Packages - Test Product								✓		
Licensed Transfers	<ul> <li>✓</li> </ul>	✓	✓		✓	✓	✓	√	✓	
Transfers Hub			✓	✓				✓	✓	
Sales							$\checkmark$		✓	
Admin	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Reports	~	✓	✓	✓	✓	✓	✓	✓	✓	

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#### **Setup Product Profile**

#### Categories

- Capsule/Tablet
- Concentrate (liquid)
- Concentrate (liquid each)
- Concentrate (solid)
- Concentrate (solid each)
- Edible
- Edible (each)
- Extract (liquid)
- Extract (liquid-each)
- Extract (solid)
- Extract (solid-each)
- Flower
- Fresh Cannabis Plant
- Immature Plant
- Kief
- Leaf

#### Liquid

- Liquid (each)
- Pre-Roll Flower
- Pre-Roll Leaf
- Suppository (each)
- Tincture
- Tincture (each)
- Topical
- Topical (liquid)
- Topical (liquid-each)
- Topical (solid)
- Topical (solid-each)
- Vape Oil
- Vape Oil (each)

#### Items Item names are used to identify what type of item is packed into a package.

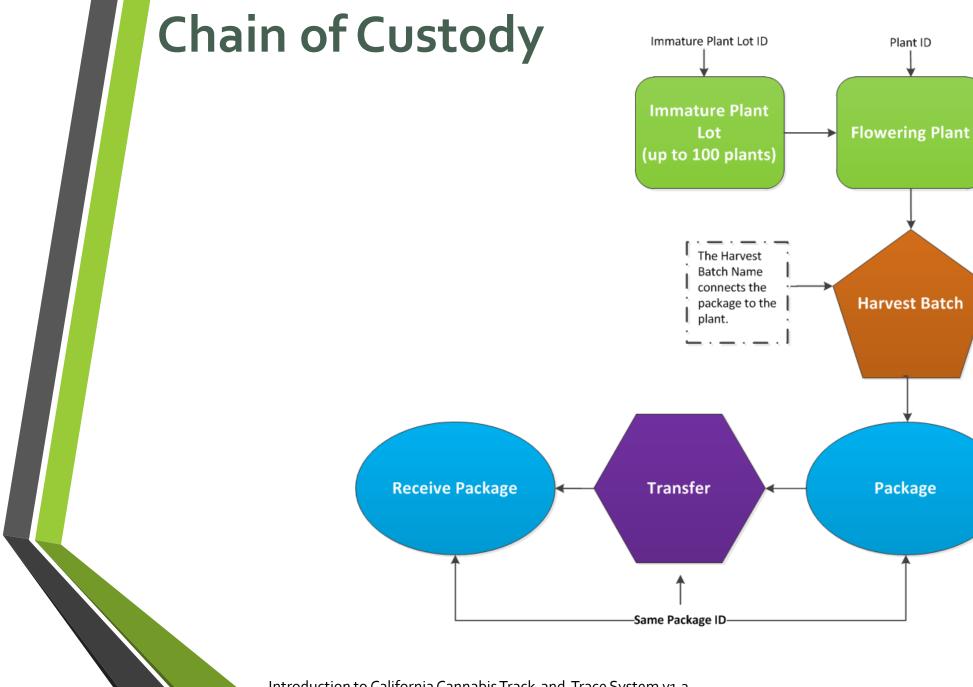
- Category
- Type of product
- Quantity
- Unit of measure
- Used for traceability and recalls if necessary.

# **Tags and Tracking**

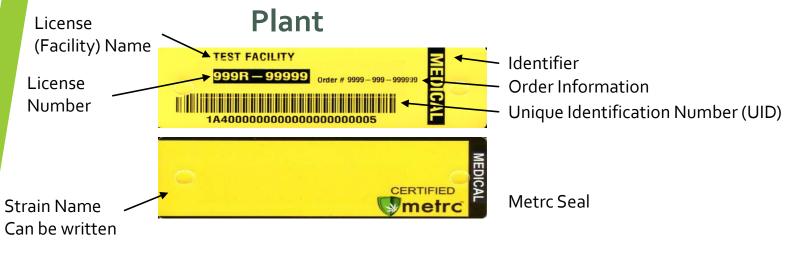
## **Tagged Inventory in Metrc**

- There are two types of tagged inventory in Metrc: Plants and Packages.
  - Plants are immature or flowering. All plants must enter the system through immature plant lots (up to 100 plants / lot).
    - Immature plant lots (up to 100 plants) are assigned a Unique Identifier Plant tag.
    - Each immature plant must be labelled with the lot Unique Identifier (UID).
    - Individual flowering plants are assigned a Plant tag.
  - Packages are created from immature plants, harvest batches, testing lab samples, production batches, and other packages.
- Licensees order tags through Metrc (costs of tags are incorporated into the license fees).





## **Tag Explanation**



#### 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).







#### **Immature Plant Lot Tagging**



- One UID (plant tag) is assigned to an Immature Plant Lot (up to 100 plants per lot).
- Each plant in the lot must be labelled with the corresponding UID.

## **Tag Attached to Flowering Plant**

- Plant Tags are assigned to individual plants when moved to canopy or when plant flowers
- Must be attached to main stem at the base of each plant using a tamper evident strap or zip tie
- Must be visible and within clear view





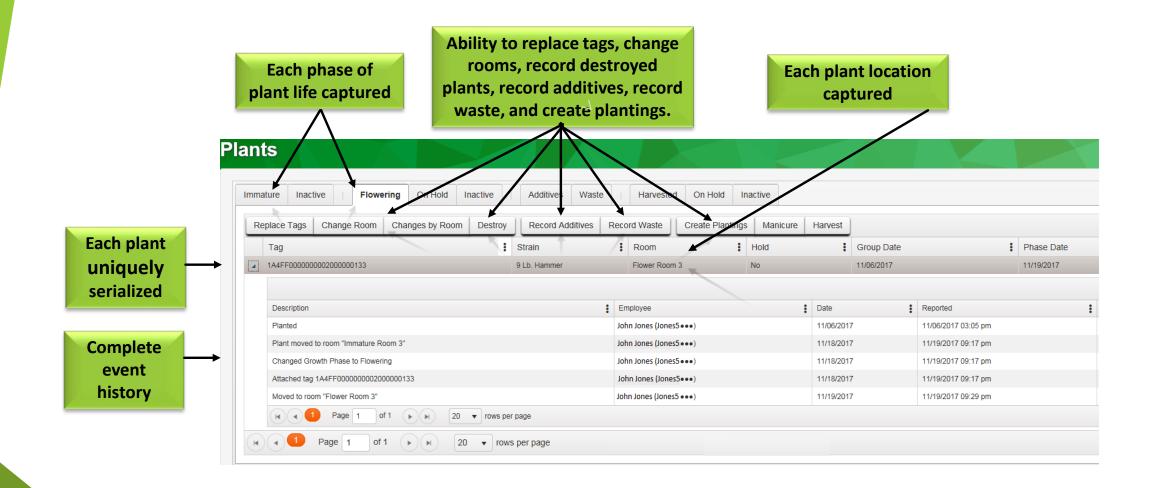


#### Reminder

- "Immature plant" or
   "immature" means a cannabis plant that is not flowering.
- "Flowering" means that a cannabis plant has formed a mass of pistils measuring greater than one half inch wide at its widest point.

# Plants

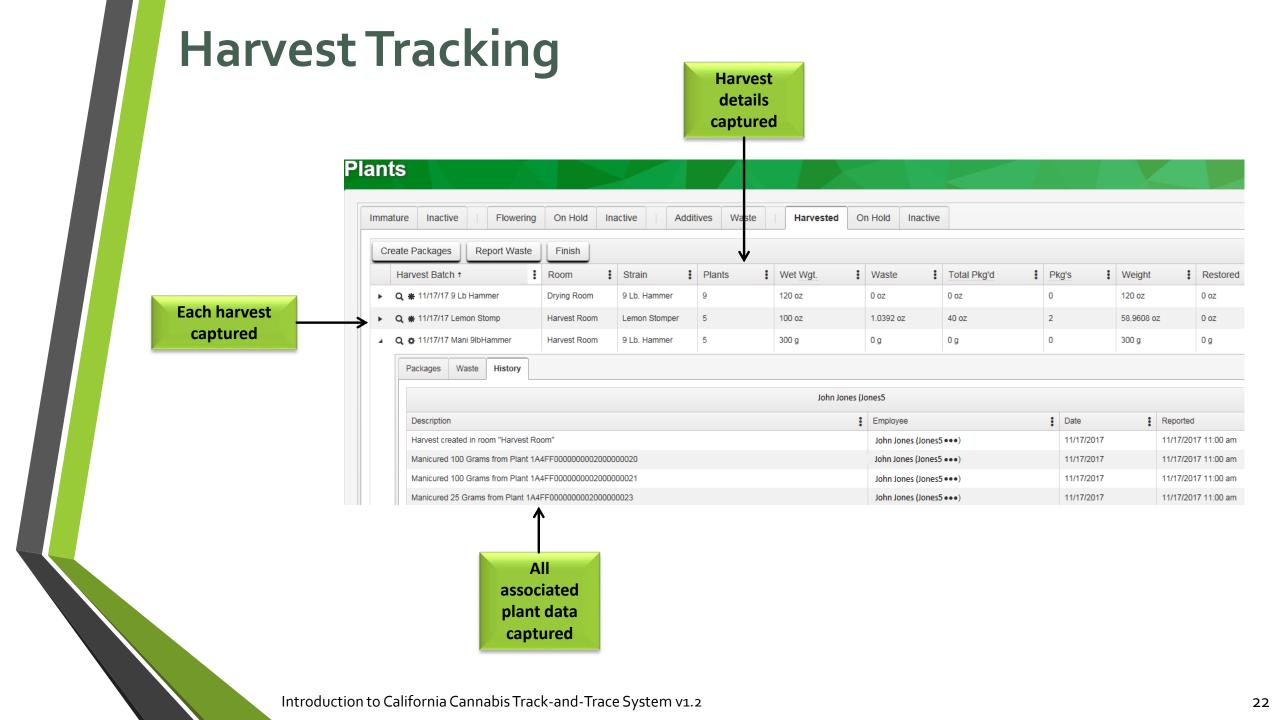
#### **Plant Tracking**



#### Harvest Steps - Cultivator

- Harvest Name Harvest name is required to be unique name. Strain Name & Harvest Date is recommended best practice.
- Weight the plant in its entirety after being cut from root ball (stems, stalk, flower, leaves, trim, etc.)
- Waste can be multiple entries but must be reported within 3 days after it is created. Waste may include stems, stalk, flower, leaf, trim, etc.
- Package package with unique identifier (flower, leaf, kief, fresh cannabis plant, or pre-rolls)
- Finish when Harvest Batch (HB) is completely done (packages created and waste calculated), click 'Finish'. Any remaining weight associated to the HB is considered moisture loss. Harvest must be completed within 60 days.
- Transfer must create transfer manifest to move product (by a Distributor) to a Processor or Manufacturer or to a Distributor for testing and quality assurance prior to retail sale.







## **Packages in Metrc - Definition**

- Any amount of cannabis or cannabis product that may be sold, manufactured or transferred, must be placed into one or more packages, each package having a UID (package tag) created in Metrc.
- Any product that you intend to transfer from one licensee to another must have a UID which must be physically attached to the package.
- $\square$  Metrc allows you to repack any package into a new package.



## **Package Tracking**

Each package iquely serialized		issociated p Juct data ca I									
ages									Freedo	om Farms Cultivation	CML17-
ve On Holt Inactive											
ew Packages Submit for Testing Create Plantings	Unpack Plants New Transfer C	Change Items Adjust	Finish								
Tag 🖌 🚦 Harvest	: Item	Category	2 Quantity	• P.B.	P.B. N	IO. :	_ab Testing	A.H.	: Date	Rcv'd	
Q # 1A4FF01000000200000025	Afghan Haze Trim	Leaf V	11 g	No		1	lotSubmitted	No	11/17/2017		×
											۰.
	Description				:	Date	Reported		Sources	External App	:
Description				John Jones (Jones5•••)			11/17/2017 02:20 pm				
Description Packaged 11 Grams of Afghan Haze Trim from another Packag	ge		John Jones (Jo	nes5•••)		11/17/2017	11/1//2017 02:20 pm		User		
			John Jones (Jo John Jones (Jo			11/17/2017 11/17/2017	11/17/2017 02:20 pm 11/17/2017 02:20 pm		User		
Packaged 11 Grams of Afghan Haze Trim from another Package Took 11 Grams of Afghan Haze Trim from Package 1A4FF01										Viewing 1 - 2 (2 total	) ()
Packaged 11 Grams of Afghan Haze Trim from another Package Took 11 Grams of Afghan Haze Trim from Package 1A4FF01	1000000200000022	Immature Plant				11/17/2017		No		Viewing 1 - 2 (2 total	) () ×
Packaged 11 Grams of Afghan Haze Trim from another Package Took 11 Grams of Afghan Haze Trim from Package 1A4FF01 Page of 1 Page 0 01 Page 0 000012	10000000200000022	Immature Plant Immature Plant	John Jones (Jo	nes5 ••••)		11/17/2017	11/17/2017 02:20 pm	No	User	Viewing 1 - 2 (2 total	
Packaged 11 Grams of Afghan Haze Trim from another Package - Took 11 Grams of Afghan Haze Trim from Package 1A4FF01 Reference of the second	Tows per page Tows per page Immature Pineapple Express		John Jones (Jo 5 ea	nes5•••) No		11/17/2017	11/17/2017 02:20 pm		User 11/14/2017	Viewing 1 - 2 (2 total	×

Complete package status & history

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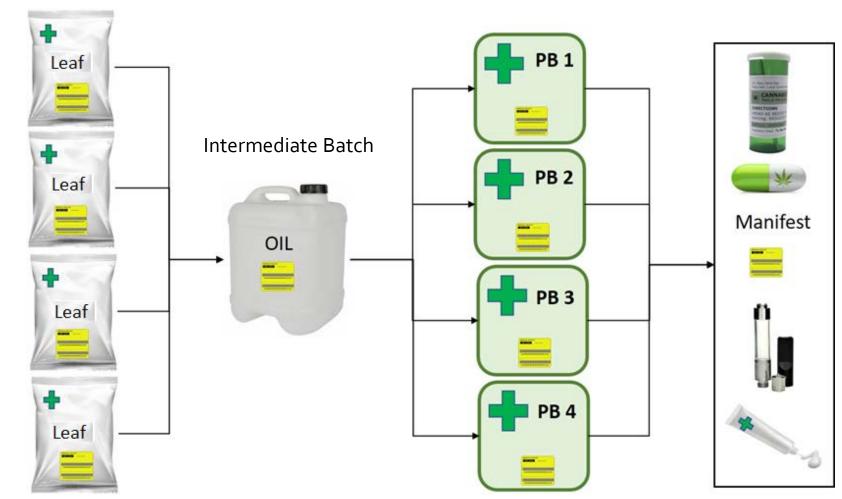
# Manufacturing

## Packages, Intermediate Batches and Production Batches

- Incoming packages can be used in an intermediate batch such as making concentrate.
  - Pull from existing packages to make an intermediate batch of concentrate.
  - Create a new package for the concentrate.
  - The newly packaged concentrate may then be partially used in a production batch to make an infused product such as an Infused Edible or Infused Non-Edible or another Concentrate.



#### **Manufactured Product Process**

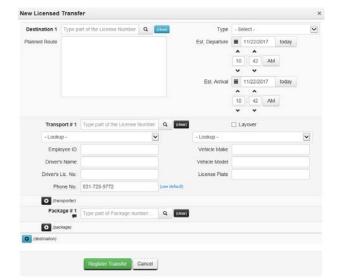


Production Batch

# Transfers

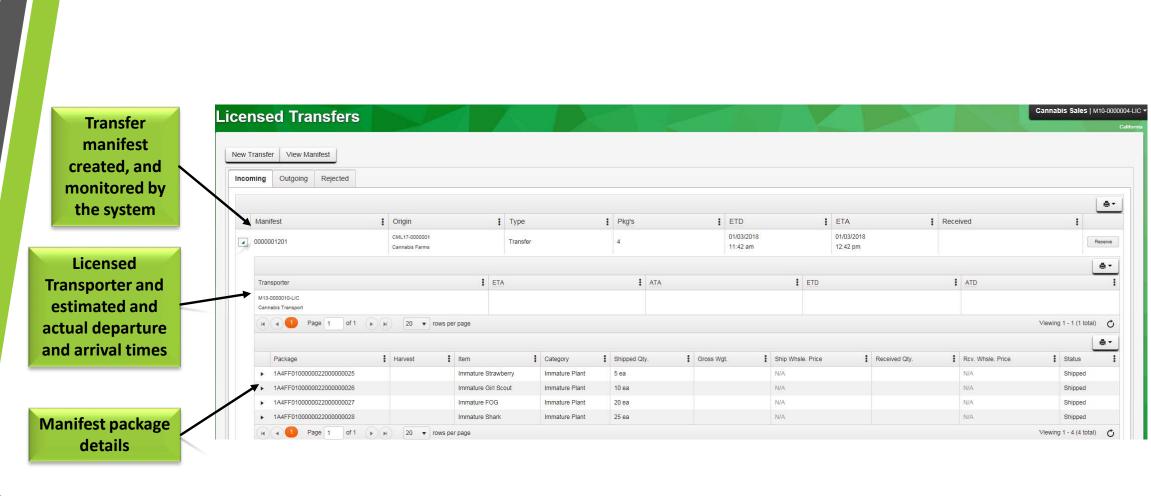
#### Transfers

- A transfer must be created anytime a package moves from one licensed facility to another (even on same property).
- A transfer can be rejected by package or wholly reject all packages.
- A rejected package will require the originating Licensee to receive the rejected package back into inventory.
- You can only transport packages if you have a Distributor license or a Laboratory with samples.
- Transporters are required to record actual departure and arrival times in Metrc.





Destination # 1:	Harvest Moon Manufacturer		estination Phone No.:	530-987-6298				
Destination License Number:	CDPH-0000003	Da	te and Approximate Time of Departure:	11/17/2017 5:23 PM				
	13500 Cement Hill Rd		tual Date/Time of Departure:	11/17/2017 5:34 PM				
			te and Approximate Time of Arrival:	11/17/2017 7:22 PM				
Address of Destination:	Nevada City, CA 95959	Ac	tual Date/Time of Arrival:	11/17/2017 5:38 PM				
		Da	te/Time Received:	11/17/2017 5:43 PM				
Route to be Traveled: 1233		N	VES: details for extenuating circumstances (	ag, road closu	re, flat tire, etc.)			
Transporter # 1:	Cannabis Connection Distributor	Non-Javover						
Transporter License Number:	A11-0000002							
Address of Transporter:	4260 MILLPORT WAY Sacramento, CA 95823							
Contact Phone No. for Ing	uirles:	83	31-728-9772					
Name of Person Transporting:	kip McGee E		nploye ID of Driver:	1234				
State Driver's License No.:	1234567		gnature of Person Transporting:					
Make, Model, License Plate No.:	Honda Civic 7ABCD123							
Package Label	Harvest Name		Item Name	Weight/Quantit				
1A4FF01000000200000022			Afghan Haze Trim (Leaf)		Shp: 14.0000 g Rev: 14.0000 g			
PRODUCT F	REJECTION (if only a portion of s	hipme	nt is rejected, circle that portio	n above)				
Name of Person Receiving or Rejecting Product:								
	shipment match weight records entered a d above. Those portions circled were return				s shipment not			
Signature:			Date:					
Signature of individual taking re- of rejected portion of this shipm								



## Transfer Tracking

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#### Notes to Remember about Transfers

- A package must exist in order for it to be selected for transfer. Transfers are real-time inventorydependent.
- If you receive a package that doesn't match the weight, volume or count on the manifest (but varies only slightly) you must adjust the package in your inventory to report the actual, adjusted weight, volume or count.
- If you have any question at all about the transfer; then you need to reject it.



# Transfer Procedures – Annual vs. Temporary Licenses

#### **Transfers Involving Temporary Licensees**

- After completing required training, an approved Annual licensee will be credentialed into Metrc and report supply chain activities (Metrc Enabled).
- Temporary licensees will not be provided access to Metrc to report supply chain activities (non-Metrc Enabled).
- Transfers between temporary and Annual licensees require some manual paper process.
  - The paper process is also required for transfers between two temporary licensees.





## Manual Manifest Transfer Process

If the **originating** licensee is a Metrc enabled Annual licensee and the destination entity is a temporary licensee:

- The originating licensee creates an external manifest in Metrc by manually entering the temporary licensee information on the external transfer manifest.
- The Distributor keeps the manifest during transport, and documents the departure and arrival information.
- The destination licensee receives the transfer and follows the paper process prescribed by the Licensing Authority.

#### Manual Manifest Transfer Process

If the **destination** licensee is a Metrc enabled annual licensee and the sending entity is a temporary licensee:

- The originating temporary licensee creates a paper transfer document (per the paper process prescribed by the Licensing Authority) that contains the required package details.
- The Distributor keeps the paper transfer document during transport, and documents the departure and arrival information.
- The destination licensee enters the paper transfer document details and assigns a package tag UID from Metrc using the external transfer function.

## Distributors

### **Distributors**

**Quantization** Only Distributors can transport packages

Testing Laboratories can transport packages of samples

Important role in maintaining Chain of Custody during

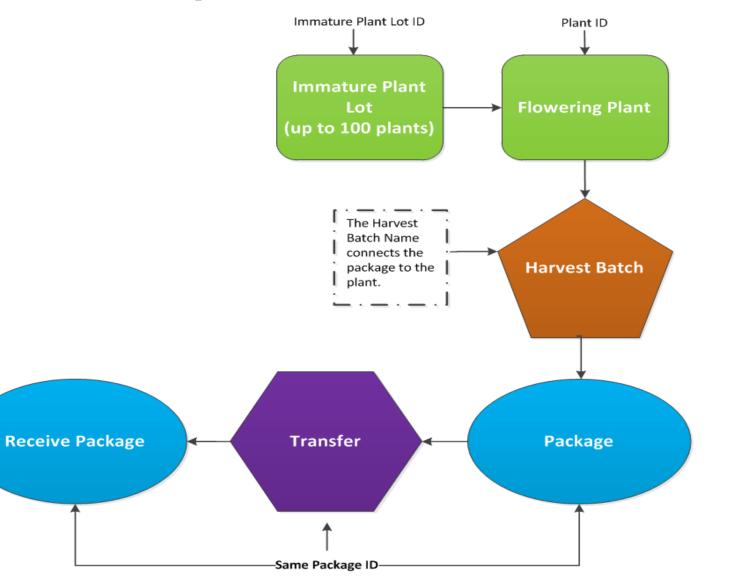
transport

Responsible for submitting samples of final product for testing prior to transferring to Retailer



See Distributors are required record actual departure and arrival times at destinations and layover stops in Metrc

### Chain of Custody



# Laboratory Testing

#### Lab Test Results

Result Date 101/03/2018 today Test Batch - Select - - Select - Cannabinoids Category I Residual Pesticides (required) Category I Residual Solvent or Processing Chemicals Category II Residual Solvents and Processing Chemicals Category II Residual Solvents and Processing Chemicals Foreign Materials (optional) Heavy Metals (optional) Heavy Metals (optional) Homogeneity (edbles) Microbiological Impurities (Aspergillus) Status Passed Failed Notes Result # 1 Escherichia coli. (pass/fail) ex. 100.2345 Status Passed Failed Notes Additional notes Salmonella spp. (pass/fail) 0.0001 Microbiological Impurities (required) Notes Status Passed Failed Salmonella spp. (pass/fail) Category Failed	×	
Package Additional notes Package Package Package Package Passed Passed Failed Mini-template Status Passed Failed Status Passed Failed Status Passed Failed Passed Failed Notes Passed Failed	(clear)	
Cannabinoids Category I Residual Pesticides (required) Category I Residual Solvent or Processing Chemicals Category II Residual Solvents and Processing Chemicals Category II Residual Solvents and Processing Chemicals Foreign Materials (optional) Heavy Metals (optional) Heavy Metals (optional) Heavy Metals (optional) Homogeneity (edbles) Microbiological Impurities (Aspergillus) Microbiological Impurities (required) Misture Content and Water Activity Mycotoxins (optional) Motes Additional notes		
		Test Results recorded by Quantity an Status. Notes can a be recorded
(results)	.11	

## **Retail Sales**

### Sales

Recording of Sales in Metrc is "reporting last event in chain of custody" and are entered by transaction per California requirements

- 🖆 Total quantity
- 🙃 Unit of Measure
- 💼 Date and time
- 🖆 Total dollars of the sale
- Transactions must be entered within 24 hours
- There is sales data import functionality currently with POS companies
  - 🖆 CSV File upload

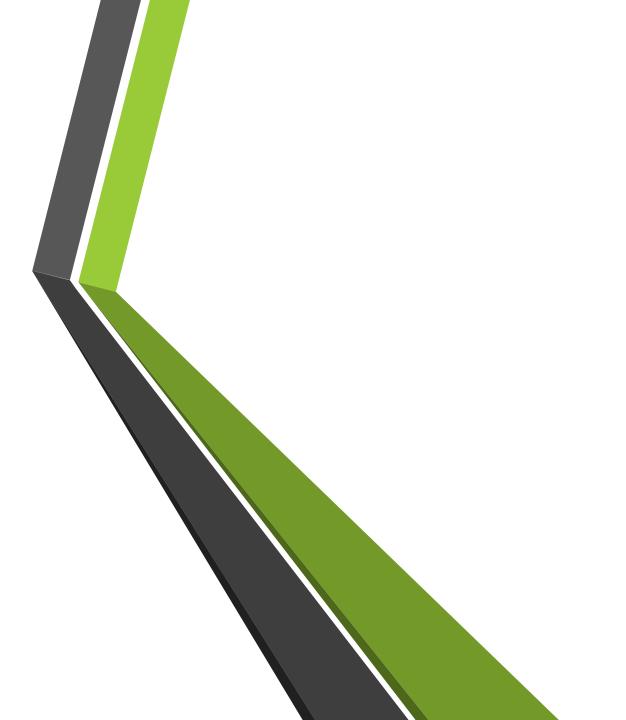


### **Sales Reporting**

#### Sales Receipts

Record Receipts Edit	t Receipts Import D	aily Sales (read-only)		
Receipt	Sales	Customer Type	:	Patient
Record Receipts				×
Sales Receipt #	1			(clear)
Date/Time	0/30/2017 today • • • • • • • • • • • • • • • • • • •		Customer O Consume	r
Package # 1	ABCDEF01234567000002	25183 <b>Q</b> (clear)	Quantity ex. 100.23	- Select -
Available	e 6.9251 oz		Total Price \$ ex. 100	0.23
(package)				
+				
	Record Sales Receipts	Cancel		





#### Reports

#### Sausalito Solutions Retailer | M10-0000004 -**Reports Control Panel** select one, or multiple, tags to filter reports. Monthly Sales Packages Adjustments Packages Inventory Cultivation Item Filter (optional) Harvest Filter (optional PDF Excel Excel End Date today - All Item Categories ~ Item Filter (optional) V - All Item Categories -All Adjustment Reasons -× × today - All Lab Testing States Start Date Wo today End Date today Start Date i End Date today

orts Control Panel	select one, or multiple, tags to titler reports.	Freedom Farms Cultivistion   CML176000001 + California	configured w trend analys
Harvest Kame / Her (optional) Room Filter (optional) Start Date today 11/21/2017 End Date today 11/21/2017 Wort	Monthly Plants Inventory	Packages Adjustments	Exportable MS Word, N Excel, CSV a PDF format

Sales

Transfer

Package

Reports

# RFID, What & Why

## Speed / Accuracy / Precision



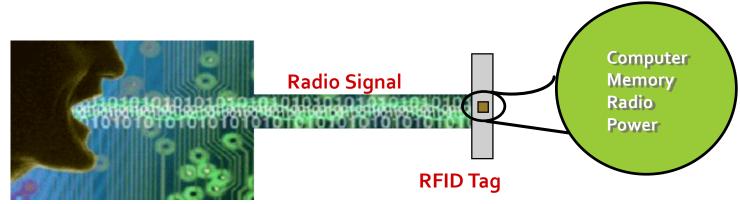


## What is **RFID**?

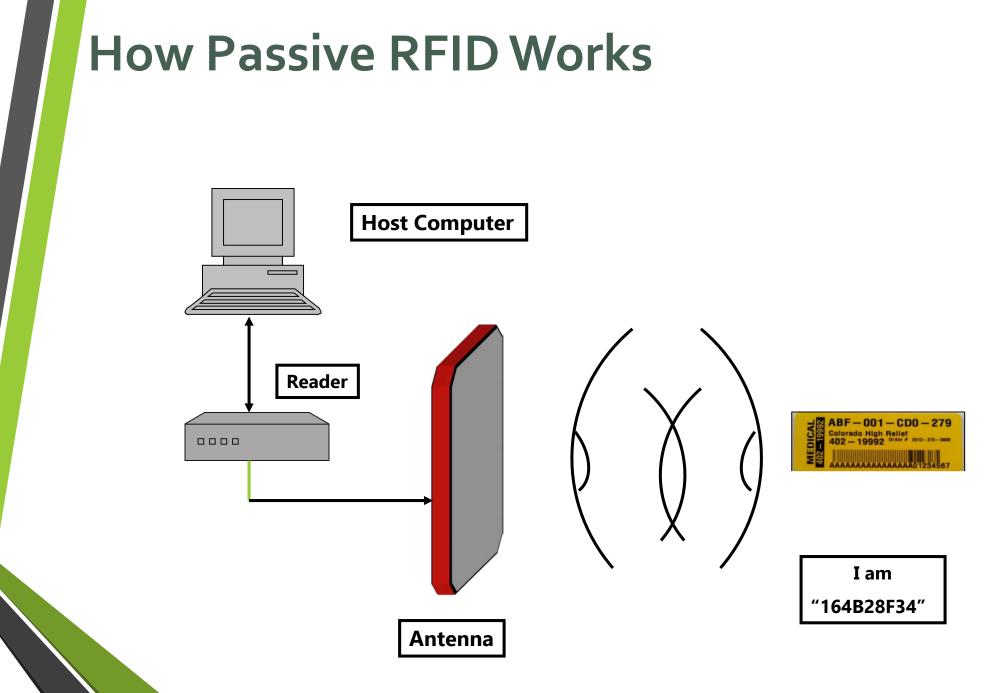
- <u>Radio Frequency Identification</u>
  - A technology that identifies objects using low-power radio frequency technology.

#### RFID Solutions consist of three components:

- Hardware (Reader and Antenna)
- RFID Tag
- Software



Reader "speaks" to tag



## Why RFID?

- Read Range 10+ Feet
- No line of sight

#### Speed 8 to 10 times faster than bar-code

- Improved Accuracy
- Faster compliance
- Search and find feature



# Integration

### **Application Programming Interface**

- The API supports data transfer FROM third party vendor (TPV) applications to METRC
- Not all aspects of Metrc are available in the API
- The API supports data transfer TO TPV from METRC
- CA POS / API Integration training will begin on January 24<sup>th</sup>.





# Support

## **Support Resources**

#### **California Licensing Authorities**

- California Department of Food and Agriculture (CDFA): <u>calcannabis.cdfa.ca.gov</u>
  - Cultivator licenses
- Bureau of Cannabis Control (BCC): <u>www.bcc.ca.gov</u>
  - Distributor, Retailer, Testing Laboratory and Microbusiness licenses
- California Department of Public Health (CDPH): <u>www.cdph.ca.gov/mcsb</u>
  - Manufacturing licenses

#### Support Tab

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

You Tube





#### **Contact Information**

Support Desk 877-566-6506 Support@metrc.com

www.metrc.com/california