BIO-TECH MEDICAL SOFTWARE, INC.

BioTrackTHC JSON API

# BioTrackTHCAPI

#### BIO-TECH MEDICAL SOFTWARE, INC.

# **BioTrackTHC JSON API**

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# **Prefix: About This Document**

elcome to BioTrackTHC JSON platform. This manual serves as a comprehensive guide that details the various functions and data points that are relevant for the BioTrackTHC traceability system.

Please note: There may be additional enhancements, functions, etc. in the future to this specification.

Although this document is public and may be read by anyone; much of it assumes that the reader has a basic understanding of web technologies and programming interfaces. It is geared towards individuals looking to interface directly to the state traceability system without utilizing the official state web interface. The official state web interface will be available at no cost for individuals who wish to upload their data without a commercial application. However, the official web interface is intended to only collect the minimum amount of information for the state compliance and does not collect information related to e.g. sales; every licensee is responsible for keeping their own business records.

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# **Changes**

#### **Since 1.18**

The following functions have been added: inventory\_qa\_sample\_non\_mandatory plant\_harvest\_undo plant\_cure\_undo

The following functions have been enhanced: sync\_sale

1 New Inventory Type has been added.

#### **Since 1.17**

The following functions have been added: card\_lookup

The following functions have been enhanced: inventory\_create\_lot inventory\_qa\_sample\_results inventory\_sample inventory\_transfer\_lookup sale\_dispense sync\_inventory sync\_sale sync\_vendor

4 New Inventory Types have been added.

#### **Since 1.16**

The following functions have been added: inventory\_manifest\_third\_party sync\_third\_party\_transporter

The following functions have been enhanced: inventory\_manifest\_modify sync\_manifest sync\_vendor

#### **Since 1.15**

The following functions have been added: inventory\_convert\_undo

The following functions have been enhanced: plant\_harvest sync\_sale

#### **Since 1.14**

The following functions have been enhanced: inventory\_convert

#### **Since 1.13**

The following functions have been enhanced: inventory\_convert inventory\_create\_lot inventory\_destroy\_schedule inventory\_modify inventory\_sample inventory\_transfer\_lookup inventory\_transfer\_outbound\_return inventory\_transfer\_outbound\_return\_lookup plant\_destroy\_schedule sync\_inventory\_sample

3 New Inventory Types have been added.

#### **Since 1.12**

The following functions have been added: inventory\_manifest\_void\_stop inventory\_manifest\_void\_items inventory\_transfer\_outbound\_return\_lookup inventory\_transfer\_outbound\_return

The following functions have been enhanced: sync\_manifest sale\_dispense sync\_sale

#### **Since 1.11**

The following functions have been added: inventory\_transfer\_inbound\_modify sync\_inventory\_sample sync\_inventory\_transfer\_inbound

The following functions have been enhanced:

inventory\_transfer\_outbound\_modify
sync\_inventory\_transfer

#### **Since 1.10**

The following functions have been added: plant\_destroy\_schedule\_undo plant\_harvest\_schedule\_undo inventory\_adjust\_usable inventory\_qa\_check\_all

The following functions have been enhanced: plant\_yield\_modify inventory\_modify inventory\_qa\_check

#### **Since 1.09**

The following functions have been added: inventory\_manifest\_pickup inventory\_manifest\_modify

The following functions have been enhanced: sync\_manifest

#### **Since 1.08**

The following functions have been enhanced: sale\_dispense sale\_modify sale\_refund inventory\_adjust

#### **Since 1.07**

The following functions have been added: inventory\_modify

The following functions have been enhanced: plant\_new plant\_modify

#### **Since 1.06**

The following functions have been enhanced: inventory\_manifest

```
inventory_adjust
employee_modify
The following functions have been added:
sync check
sync_vehicle
sync_employee
sync_plant_room
sync_inventory_room
sync_inventory
sync_plant
sync_plant_derivative
sync_manifest
sync_inventory_transfer
sync_sale
sync_tax_report
sync_inventory_adjust
sync_inventory_qa_sample
sync_vendor
sync_qa_lab
```

The inventorytype 29 has been added (see inventory type table).

#### **Since 1.05**

The following functions have been added: inventory\_transfer\_outbound\_void

#### **Since 1.04**

The following functions have had an optional parameter added: sale\_dispense sale\_refund

The following functions have been added: nonce\_replay

Various language cleanup regarding price data. Functions in chapters 2 and 3 now return transaction id values.

#### **Since 1.03**

The following functions have been enhanced: plant\_harvest plant\_cure

The following functions have been added:

#### plant\_add\_undo

The following functions have been modified: inventory\_destroy inventory\_destroy\_schedule plant\_destroy plant\_destroy\_schedule

#### **Since 1.02**

The following functions have been enhanced: plant\_new

The following functions have been added: plant\_modify

#### **Since 1.01**

The following functions have been enhanced: inventory\_new

#### Since 1.0

The following functions have been modified: inventory\_qa\_sample inventory\_qa\_sample\_results inventory\_qa\_check

#### Since Draft 2

Requests no longer need to include an outer JSON identifier.

The following functions have been removed: inventory\_transfer inventory\_transfer\_modify

The following functions have been added: inventory\_manifest\_void inventory\_manifest\_lookup inventory\_qa\_check inventory\_qa\_sample inventory\_qa\_sample\_void inventory\_qa\_sample\_results inventory\_transfer\_inbound inventory\_transfer\_lookup inventory\_transfer\_outbound inventory\_transfer\_outbound\_modify

6

tax\_obligation\_file

The following functions have either added or removed parameters: plant\_harvest inventory\_create\_lot inventory\_adjust vehicle\_add vehicle\_modify

QA testing has been added and folded into the Inventory section.

A number of what were previously known as "undo" functions have been returned, under the more appropriate "void" suffix.

All attempts have been made to include relevant major changes since the last draft in this section. It is highly advised, however, to review the document in its entirety for any such changes.

#### Since Draft 1

Before diving in, there have been a number of changes since the initial draft. The current draft includes Washington specific language and functions. The inventory typing system has been greatly expanded to cover all of the various types of inventory that have been defined with limits as delineated in law and rules.

**Inventory Types** 

inventory Types	
5	Kief
6	Flower
7	Clone
9	Other Plant Material (stems, leaves, etc to be processed)
10	Seed
11	Plant Tissue
12	Mature Plant
13	Flower Lot
14	Other Plant Material Lot
15	Bubble Hash

16	Hash
17	Hydrocarbon Wax
18	CO2 Hash Oil
19	Food Grade Solvent Extract
20	Infused Dairy Butter or Fat in Solid Form
21	Infused Cooking Oil
22	Solid Marijuana Infused Edible
23	Liquid Marijuana Infused Edible
24	Marijuana Extract for Inhalation
25	Marijuana Infused Topicals
26	Sample Jar
27	Waste
28	Usable Marijuana
29	Wet Flower
30	Marijuana Mix
31	Marijuana Mix Packaged
32	Marijuana Mix Infused
33	Non-Mandatory QA Sample
34	Capsule
35	Tincture
36	Transdermal Patch
37	Suppository

#### **Unique Identifiers**

The system will generate unique identifiers for all plants and inventory. Plants will be assigned random sixteen digit identifiers. Inventory items (e.g. lots, batches, etc.) will also be provided identifiers, with the first nine digits representing the UBI number of the producer or processor that is creating the item.

#### **Convenience Functions**

A number of convenience functions have been removed to facilitate a quicker implementation timeline for third party integrators. A future specification may reimplement these to further improve data integrity.

#### **Online Tax Payments**

There is an online payment portal that can be utilized to facilitate tax payments. The URL format is as follows:

https://epayment.epymtservice.com/epay.jhtml?productCode=MarijuanaExciseTax &amountDue=000.00&dueDate=YYYY-MM-DD&billerId=EXC&billerGroupId=WSL&disallowLogin=N&LicenseNumber=00 000

The tax amount that is due should be filled in the amountDue URL variable. The date the payment is due should be filled in the dueDate URL variable. The license number should be filled in the LicenseNumber URL variable.

# **Chapter 1: Authentication**

#### In this chapter, you'll learn how to:

- ✓ Communicate with the traceability system
- ✓ Authenticate
- ✓ Create and modify users
- Elevate privileges, when necessary

very request begins with with "json".. The current iteration of our API is now at 4.0. It is **strongly** recommended that every application specify this with every request. We do anticipate future changes and specifying the API will ensure your application does not receive errors when features are added or deprecated, but not entirely removed. Otherwise, the system will assume you are referencing the latest version. Every API request has an action associated with it. Any request that does not specify an action will automatically be rejected. Improperly formatted JSON requests will be rejected. When in doubt, see: <a href="http://jsonlint.com/">http://jsonlint.com/</a>. So, at bare minimum, a request should appear as follows:

```
{
    "API": "4.0",
    "action": "foo"
}
```

The request should be sent as a raw POST request of the type text/JSON. The result will also be of text/JSON type.

The URL is: https://wslcb.mjtraceability.com/serverjson.asp

# login

When registering with the WSLCB, an account administrator will receive a password in their email that will grant full access. This email address and password can then be shared, stored or utilized by a commercial application to initially authenticate with the traceability system.

```
Parameters:
action
                          variable length text field
                          variable length text field
username
                          variable length text field
password
                          variable length text field
license_number
  "API": "4.0",
  "action": "login",
  "password": "foobar",
   "license_number": "000000009",
   "username": "username@domain.com"
}
A client should login with their username, password and the 9 digit UBI number of their
account. A successful authentication will result in the following:
  "admin": "1",
  "sessionid":
"2f58596cad6db73d6cdd599b11cd169263a54cd37dc75ae0bfefe0cd9c9
c571c107059f23fe8cf7d4572f4878b9e1d9821e097e9348aa7b59a31180
ab8c9e6c8",
  "time": "1384323370",
  "success": "1"
Returned Parameters:
                          Boolean value
admin
```

sessionid sha512 hex encoded string time Unix 32-bit integer timestamp success Boolean value

The admin parameter will indicate that the authenticated user is an administrator capable of creating other users, setting permissions, etc. The sessionid parameter can be used for future requests under the user who originally authenticated for quicker requests.

If an application is not interested in maintaining sessions, they may also choose to simply include the aforementioned values with the nosession parameter. For example:

```
"API": "4.0",
    "action": "test",
    "password": "foobar",
    "license_number": "000000009",
    "username": "username@domain.com",
    "nosession": "1"
}
```

By setting the nosession parameter to 1, requests can be made without creating a stateful session, if necessary.

During the course of a normal session, a session's credentials can also be temporarily elevated for the duration of the action by passing the super\_user and super\_password parameters.

{

```
"API": "4.0",

"action": "admin_action_example",

"sessionid":

"2f58596cad6db73d6cdd599b11cd169263a54cd37dc75ae0bfe
fe0cd9c9c571c107059f23fe8cf7d4572f4878b9e1d9821e097e9
348aa7b59a31180ab8c9e6c8",

"super_password": "foobar",

"super_user": "username@domain.com",

"param": "foo"

}
```

If a function call returns 0 value for success, it will also set an <error>explanation</error> for easier error handling. For brevity, all code examples hereafter will omit the sessionid parameter; but it is assumed that either that or the proper nosession credentials are provided for **every** request.

The application interface also supports a testing interface. If a licensee wishes to practice or a commercial application wishes to test their integration capabilities a request may include the "training": "1" node within a request. Users cannot be created, modified or removed in training mode. They are automatically transposed from the production environment. Every user automatically has full capabilities in training mode; that is, there are no ACL controls (as the data is not real). If a session is created in training mode, and an attempt is made to perform an action in production mode (or vice versa) an invalid session will be triggered as they operate completely separate from one another. It will be up to the application to save state as to which mode the connection was initiated with. Finally, certain live rules can be enforced in training mode, if the user desires via the enforce\_rules\_training parameter. As can be seen below, training mode is easy to trigger:

```
"API": "4.0",
"training": "1",
"enforce_rules_training": "0",
```

```
"action": "login",

"password": "foobar",

"license_number": "123456789",

"username": "username@domain.com"

}
}
```

# user add

Users with administrative privileges can add other users via the user\_add function. As demonstrated below, each function is discrete and robust ACLs can be utilized by an integrating party.

```
Parameters:
action
                                variable length text field
                                variable length text field
new_username
                                variable length text field
new_password
new_permissions
                                nested field that includes boolean
                                values for each permission
  "API": "4.0",
  "action": "user_add",
  "new_admin": "1",
  "new_password": "foobar",
  "new_username": "user1@domain.com",
  "new_permissions": {
   "inventory_convert": "1",
   "sale_dispense": "1",
   "sale_modify": "1",
   "sale_void": "1",
   "sale_refund": "1",
```

```
"justauthenticate": "1",
"employee_add": "1",
"employee_modify": "1",
"employee_remove": "1",
"vehicle_add": "1",
"vehicle_modify": "1",
"vehicle_remove": "1",
"plant_room_add": "1",
"plant_room_modify": "1",
"plant_room_remove": "1",
"inventory_room_add": "1",
"inventory_room_modify": "1",
"inventory_room_remove": "1",
"plant_destroy_schedule": "1",
"plant_destroy_schedule_undo": "1",
"plant_destroy": "1",
"plant_harvest_schedule": "1",
"plant_harvest_schedule_undo": "1",
"plant_harvest": "1",
"plant_new": "1",
"plant_new_undo": "1",
"plant_convert_to_inventory": "1",
"plant_cure": "1",
```

```
"plant_yield_modify": "1",
"plant_waste_weigh": "1",
"inventory_new": "1",
"inventory_manifest_lookup": "1",
"inventory_transfer_inbound": "1",
"inventory_transfer_inbound_modify": "1",
"inventory_transfer_lookup": "1",
"inventory_transfer_outbound": "1",
"inventory_transfer_outbound_modify": "1",
"inventory_transfer_outbound_void": "1",
"plant_move": "1",
"plant_modify": "1",
"inventory_adjust": "1",
"inventory_adjust_usable": "1",
"inventory_sample": "1",
"inventory_qa_check": "1",
"inventory_qa_check_all": "1",
"inventory_qa_sample": "1",
"inventory_qa_sample_void": "1",
"inventory_qa_sample_results": "1",
"inventory_manifest_pickup": "1",
"inventory_manifest_modify": "1",
"inventory_manifest": "1",
```

```
"inventory_manifest_void": "1",
"inventory_manifest_void_stop": "1",
"inventory_manifest_void_items": "1",
"inventory_create_lot": "1",
"inventory_split": "1",
"user add": "1",
"user_modify": "1",
"user remove": "1",
"inventory_move": "1",
"inventory_destroy_schedule": "1",
"inventory_destroy_schedule_undo": "1",
"inventory_destroy": "1",
"tax_obligation_file": "1",
"nonce_replay": "1",
"sync_vehicle": "1",
"sync_employee": "1",
"sync_plant_room": "1",
"sync_inventory_room": "1",
"sync_inventory": "1",
"sync_plant": "1",
"sync_plant_derivative": "1",
"sync_manifest": "1",
"sync_inventory_transfer": "1",
```

```
"sync_inventory_transfer_inbound": "1",
"sync_sale": "1",
"sync_tax_report": "1",
"sync_vendor": "1",
"sync_qa_lab": "1",
"sync_check": "1",
"sync_inventory_adjust": "1",
"sync_inventory_qa_sample": "1",
"sync_inventory_sample": "1",
"inventory_manifest_void_stop": "1",
"inventory_manifest_void_items": "1",
"inventory_transfer_outbound_return_lookup": "1",
"inventory_transfer_outbound_return": "1",
"inventory_convert_undo": "1",
"inventory_manifest_third_party": "1",
"sync_third_party_transporter": "1",
"card_lookup": "1",
"inventory_qa_sample_non_mandatory": "1",
"plant_harvest_undo": "1",
"plant_cure_undo": "1"
```

Each permission should either be 1 for true, 0 for false. Any nested parameter for the new\_permissions parameter that are not included shall be assumed to be 0.

}

Returned Parameters:

success Boolean value

# user\_modify

Users with administrative privileges can modify other users via the user\_modify function.

```
Parameters:
```

```
action variable length text field new_username variable length text field variable length text field variable length text field
```

new\_permissions nested field that includes boolean

values for each permission

```
{
    "API": "4.0",
    "action": "user_modify",
    "new_admin": "1",
    "new_password": "foobar",
    "new_username": "user1@domain.com",
    "new_permissions": "
...
}
```

Returned Parameters:

success Boolean value

#### user remove

Users with administrative privileges can remove other users via the user\_remove function. Please note: The initial user that was created with the license cannot be removed.

```
Parameters:
```

```
action variable length text field variable length text field
```

```
"API": "4.0",
```

```
"action": "user_remove",
    "new_username": "user1@domain.com"
}

Returned Parameters:
success Boolean value
```

# **Chapter 2: Employees & Vehicles**

#### In this chapter, you'll learn how to:

- Add, modify and remove employees
- ✓ Add, modify and remove vehicles

# employee\_add

Every organization will need to input basic information on their employees when providing samples or submitting transport manifests. Organizations will not be required to provide comprehensive employee lists, but, rather, on an as-needed basis for actions requiring an employee identification.

#### Parameters:

```
action
                                 variable length text field
employee_name
                                 variable length text field
employee_id
                                 unique variable length text field
birth_month
                                 two character integer
birth_day
                                 two character integer
birth_year
                                 four character integer
hire month
                                 two character integer
hire_day
                                 two character integer
hire_year
                                 four character integer
```

```
"API": "4.0",
"action": "employee_add",
"employee_name": "Joe Employee",
"employee_id": "12345",
"birth_month": "01",
"birth_day": "01",
"birth_year": "1980",
"hire_month": "01",
"hire_day": "01",
"hire_day": "2014"
```

Returned Parameters:

success Boolean value transactionid integer value

# employee\_modify

This function should be used to update an existing employee.

```
Parameters:
```

action variable length text field employee\_name variable length text field

employee\_id unique variable length text field

birth\_month two character integer birth\_day two character integer birth\_year four character integer hire\_month two character integer two character integer bire\_day two character integer four character integer four character integer

transactionid\_original Optional, integer, this is the first

transactionid value received from creation of this employee. This can also be used to identify and update

an existing record.

```
{
   "API": "4.0",
   "action": "employee_modify",
   "employee_name": " Joe Employee",
   "employee_id": "12345",
   "birth_month": "01",
   "birth_day": "01",
   "birth_year": "1980",
   "hire_month": "01",
   "hire_day": "01",
   "hire_year": "2014"
}
```

Returned Parameters:

success Boolean value transactionid integer value

# employee\_remove

This function should be used to remove an employee.

Parameters:

action variable length text field

employee\_id unique variable length text field transactionid\_original Optional, integer, this is the first

transactionid value received from creation of this employee. This can also be used to identify and update

an existing record.

```
"API": "4.0",
  "action": "employee_remove",
  "employee_id": "12345"
}
```

Returned Parameters:

success Boolean value transactionid integer value

# vehicle\_add

Every organization will need to input basic information on their vehicles when submitting transport manifests. This includes an integer id number that should be associated with the vehicle and the associated information for that vehicle, including: Color, make, model, plate and VIN.

Parameters:

action variable length text field

vehicle\_id unique integer

```
color
                                variable length text field
make
                                variable length text field
model
                                variable length text field
plate
                                variable length text field
vin
                                variable length text field
                                variable length text field
year
                                Optional, nick name that can be
name
                                given to the vehicle. A default one
                                will be provided if none is given.
{
  "API": "4.0",
  "action": "vehicle_add",
  "vehicle_id": "2",
  "color": "Red",
  "make": "Ford",
  "model": "Mustang",
  "plate": "ABC124",
  "vin": "123242365566",
  "year": "2008"
}
Returned Parameters:
success
                          Boolean value
transactionid
                          integer value
```

# vehicle\_modify

This function should be used to update an existing vehicle.

Parameters:

action variable length text field vehicle\_id unique integer color variable length text field make variable length text field wariable length text field variable length text field variable length text field

```
plate
                                variable length text field
vin
                                variable length text field
                                variable length text field
year
                                Optional, nick name that can be
name
                                given to the vehicle. A default one
                                will be provided if none is given.
{
  "API": "4.0",
  "action": "vehicle_modify",
  "vehicle_id": "2",
  "color": "Blue",
  "make": "Ford",
  "model": "Mustang",
  "plate": "ABC124",
  "vin": "123242365566",
  "year": "2008"
}
Returned Parameters:
success
                          Boolean value
transactionid
                          integer value
vehicle_remove
This function should be used to remove an employee.
Parameters:
action
                                variable length text field
vehicle id
                                unique integer
  "API": "4.0",
  "action": "vehicle_remove",
```

"vehicle id": "2"

}

Returned Parameters:

success Boolean value transactionid integer value

# **Chapter 3: Rooms**

#### In this chapter, you'll learn how to:

- Add, modify and remove plant rooms
- ✓ Add, modify and remove inventory rooms

# plant\_room\_add

Plant rooms represent a way to logically segregate plants in a specific location. These can include actual rooms inside of indoor facility or fields in an outdoor facility.

Parameters:

action variable length text field variable length text field

location license number of location value

id integer value

```
{
   "API": "4.0",
   "action": "plant_room_add",
   "name": "Veg 1",
   "id": "1",
   "location": "12345"
}
```

#### Returned Parameters:

success Boolean value transactionid integer value

# plant\_room\_modify

Plant rooms can be renamed or re-activated with this function.

Parameters:

action variable length text field variable length text field

location license number of location value

```
id
                               integer value
  "API": "4.0",
  "action": "plant_room_modify",
  "name": "Veg 2",
  "id": "1",
  "location": "12345"
Returned Parameters:
                         Boolean value
success
transactionid
                         integer value
plant room remove
Plant rooms can be removed with this function.
Parameters:
action
                               variable length text field
location
                               license number of location value
id
                               integer value
  "API": "4.0",
  "action": "plant_room_remove",
  "id": "1"
}
Returned Parameters:
```

Boolean value

integer value

success

transactionid

# inventory\_room\_add

Inventory rooms represent a way to logically segregate inventory in a specific location. This can offer a real-time representation not only of the overall on-hand amount of a specific item but also the amount in a specific area of a facility. A room can be designated as a quarantine room with this function, as well. At least one quarantine room is required for segregating inventory before transportation. A room identifier must always be greater than zero. The room 0 is reserved as a general identifier for inventory that has not been assigned to a room.

Parameters:

action variable length text field variable length text field

location license number of location value

id integer value quarantine Boolean value

```
"API": "4.0",
   "action": "inventory_room_add",
   "name": "Veg 1",
   "id": "1",
   "quarantine": "0",
   "location": "12345"
}
```

#### Returned Parameters:

success Boolean value transactionid integer value

# inventory\_room\_modify

Inventory rooms can be renamed or re-activated with this function.

Parameters:

action variable length text field variable length text field

location license number of location value

```
id
                               integer value
quarantine
                               Boolean value
  "API": "4.0",
  "action": "inventory_room_modify",
  "name": "Veg 2",
  "id": "1",
  "quarantine": "0",
  "location": "12345"
}
Returned Parameters:
success
                         Boolean value
transactionid
                         integer value
inventory_room_remove
Inventory rooms can be removed with this function.
Parameters:
action
                               variable length text field
location
                               license number of location value
id
                               integer value
  "API": "4.0",
  "action": "inventory_room_remove",
  "id": "1"
```

Boolean value

integer value

Returned Parameters:

success

transactionid

# **Chapter 4: Plants**

#### In this chapter, you'll learn how to:

- Add and remove plants
- ✓ Harvest and cure plants
- ✓ ...and much, much more!

## plant\_new

The plant\_new function will allow a cultivator to enter new plants into the traceability system. This function will require the strain, quantity, location, new room, whether the plant will be used as a mother plant (this can be toggled later if necessary) and the source identification number. The source identification number can be from one of the following inventory types: Clone, Seed, Mature Plant and Plant Tissue. Clone, Seed and Mature Plant are depletable inventory items in that any plant creation will automatically deduct from the count in inventory (so ensure that the quantity of new plants does not exceed that available from inventory).

#### Parameters:

action variable length text field strain variable length text field location license number of location

room integer value

source text field representing unique

identifier

quantity integer value mother integer value

birthdate Optional, 8 character birthdate in the

following format: YYYYMMDD. If not provided, the system will default

to the current date.

```
"API": "4.0",
"action": "plant_new",
"location": "12345",
"source": "2288954595338316",
"quantity": "2",
"room": "1",
```

```
"strain": "Blueberry",
   "mother": "0"
}

Return example:
{
   "barcode_id": [
      "6853296789574115",
      "6853296789574116"
],
   "sessiontime": "1384476925",
   "success": "1",
   "transactionid": "3278"
}
```

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

barcode\_id Array of 1 or more text fields representing

the new unique identifiers attached to the

plants

Transaction IDs are generated for every action which involves the submission of licensee data. These TIDs are used for audit purposes and should be maintained.

#### plant\_new\_undo

The plant\_new\_undo function will allow a cultivator to correct a mistake. This function can be used when a user accidentally moves items from the inventory to the plant area inadvertently. It can only be used on plants that have not been destroyed or harvested. Also, the parent item the plant was sourced from must also still be in possession of the licensee. Once called on a plant identifier, the system will automatically remove the plant from the system and increment the quantity of the parent source by one.

Parameters:

action variable length text field

```
"6853296789574115",
                                                "barcodeid": [
                                      "action": "plant_move",
                                                 "API": "4.0.,"
                                                                 }
     representing the plants to move
Array of 1 or more text fields
                                                         parcodeid
                       integer value
                                                             moor
             variable length text field
                                                            асцоп
                                                       Parameters:
                                                        to a new one.
The plant_move function will allow a cultivator to move plants from their current room
                                                  plant_move
             Unix 32-bit integer timestamp
                                                       sessiontime
                             integer value
                                                      transactionid
                            Boolean value
                                                           snccess
                                              Returned Parameters:
                                       "transactionid": "3278"
                               "sessiontime": "1384476925",
                                                 Return example:
                          "barcodeid": "2288954595338316"
                                "action": "plant_new_undo",
                                                 ,"0.4" :"IAA"
      representing the plants to undo
Array of 1 or more text fields
                                                         parcodeid
```

```
"6853296789574116"
],
"room": "2"
}
```

Parameters:

"API": "4.0",

"barcodeid": [

success Boolean value transactionid integer value

# plant\_destroy\_schedule

The plant\_destroy\_schedule function will allow a licensee to schedule for destruction a plant or set of plants. This event will begin a 72-hour waiting period before a plant\_destroy function may be called on the plant(s). The optional override parameter can be used in instances where a user successfully initiated a scheduled destruction across one or more plants but, e.g. they failed to commit locally to a user's platform. Essentially, it will suppress the error message that indicates an item has already been scheduled and will handle any additional items within the list. It will NOT suppress any other error messages.

```
action
                                variable length text field
                                variable length text field
reason
barcodeid
                                Array of 1 or more text fields
                                representing the plants
                                Optional, 0 or 1 Boolean value
override
                                (defaults to 0 if omitted)
                                Integer value corresponding to a pre-
reason_extended
                                defined set of values. If set to 0 or not
                                provided, the reason field must be
                                provided. The acceptable values are: 0
                                (Other), 1 (Waste), 2 (Unhealthy or
                                Died), 3 (Infestation), 4 (Product
                                Return), 5 (Mistake), 6 (Spoilage), 7
                                (Quality Control).
```

"action": "plant\_destroy\_schedule",

```
"6853296789574115",
"6853296789574116"
],
"reason": "Mold",
"reason_extended": "0"
```

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

## plant\_destroy\_schedule\_undo

The plant\_destroy\_schedule\_undo function will allow a licensee to correct plants that were accidentally scheduled for destruction; before they've actually been destroyed.

#### Parameters:

action variable length text field reason variable length text field

barcodeid Array of 1 or more text fields

representing the plants

```
"API": "4.0",
   "action": "plant_destroy_schedule_undo",
   "barcodeid": [
      "6853296789574115",
      "6853296789574116"
]
```

#### Returned Parameters:

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

## plant\_destroy

The plant\_destroy function will allow a licensee to destroy a plant or set of plants. Plants may only be destroyed after the waiting period has expired. Please see the plant\_destroy\_schedule function for an explanation on the optional override parameter.

```
Parameters:
```

action variable length text field

barcodeid Array of 1 or more text fields

representing the plants

```
{
    "API": "4.0",
    "action": "plant_destroy",
    "barcodeid": [
        "6853296789574115",
        "6853296789574116"
    ]
}
```

#### Returned Parameters:

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

## plant\_harvest\_schedule

The plant\_harvest\_schedule function will notify the traceability system of intent to begin harvesting a plant or set of plants. This notification must occur before the plant\_harvest is called on these plants.

#### Parameters:

action variable length text field

barcodeid Array of 1 or more text fields

representing the plants

```
{
"API": "4.0",
```

```
"action": "plant_harvest_schedule",
"barcodeid": [
    "6853296789574115",
    "6853296789574116"
]
```

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

## plant\_harvest\_schedule\_undo

The plant\_harvest\_schedule\_undo function will allow a licensee to correct plants that were accidentally scheduled for harvest; before they've actually been harvested.

#### Parameters:

action variable length text field variable length text field

barcodeid Array of 1 or more text fields

representing the plants

```
"API": "4.0",
    "action": "plant_harvest_schedule_undo",
    "barcodeid": [
        "6853296789574115",
        "6853296789574116"
    ]
```

#### Returned Parameters:

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

## plant\_harvest

The plant\_harvest function will begin the process of harvesting a plant. This will move said plant from the "growing" phase to the "drying" phase. During this process, a cultivator must take, at a minimum, a wet weight of the plant. In addition, a cultivator may also gather two additional derivatives defined by their inventory type. Specifically, the system requires inventory type 6 (Flower) and optionally allows type 9 (Other Plant Material) and type 27 (Waste).

Harvests can be partial, as well. In other words, if part of the plant is harvested and the rest of the plant will be processed later (commonly known as re-flowering), then the collectadditional parameter should be 1. This will inform the traceability system to expect another additional wet weight.

Each harvest event should be on a per-plant basis. So every individual plant will need its own wet weight reported. Both Other Plant Material and Waste collected during this process will receive random unique identifiers. For Other Plant Material, this will facilitate the process of creating a lot. For Waste, this will allow a user to accumulate waste in a traceable manner and schedule a destruction event at a later point.

Parameters:

action variable length text field

collectiontime Optional, Unix 32-bit integer

timestamp, defaults to current time

barcodeid Array of one or more unique plant

identifiers

weights Array of 1 or more nodes containing

weight information

amount decimal value

invtype integer value representing the

derivative type

uom variable length text field. Valid values

are: g, mg, kg, oz, lb. These represent: grams, milligrams, kilograms, ounces

and pounds.

collectadditional Keeps the plant in the growing phase

and allows the user to take another wet weight of the plant(s) at a later point that will compound to the

original wet weight.

```
Optional, will move the now drying
new_room
                             plant(s) to another plant room.
                             Optional, will move the plant into
wet
                             inventory for drying at another
                             facility.
Example:
{
  "API": "4.0",
  "action": "plant_harvest",
  "barcodeid": "9318094993507695",
  "collectadditional": "0",
  "new_room": "3",
  "weights": [
     "amount": "250.00",
     "invtype": "6",
     "uom": "g"
     "amount": "500.00",
     "invtype": "9",
     "uom": "g"
     "amount": "125.00",
     "invtype": "27",
     "uom": "g"
Returns:
```

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

derivatives Array of 1 or more nodes containing new

identifiers with their associated inventory

types.

barcode\_id New identifier for the inventory specified by

barcode\_type.

barcode\_type Specifies the type of derivative.

#### plant\_harvest\_undo

The plant\_harvest\_undo function will allow a licensee to correct plants that were accidentally harvested and need to be placed into the growth phase of cultivation. If derivative items were collected and have been altered; this function will report an error. Or, if the plant is no longer in cultivation this function will also report an error. For example, if an inventory adjustment were made to flower collected from this specific cure process, the system will then disallow the action. It is designed to correct simple mistakes and actively prevents individuals from abusing the function to hide inventory.

Parameters:

action variable length text field

transactionid The transaction ID of the original

plant\_harvest call

```
{
    "API": "4.0",
    "action": "plant_harvest_undo",
    "transactionid": "123455"
}
```

Returned Parameters:

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

## plant\_waste\_weigh

The plant\_waste\_weigh function will allow a cultivator to take a general waste weight for destruction accountability at a later point. General leaf, stem, veg trimming, etc. collection can thus be facilitated in a more generalized fashion without unduly burdening a licensee.

The return inventory will be typed as 27 and must be scheduled for destruction at a later point.

Parameters:

action variable length text field

collectiontime Optional, Unix 32-bit integer

timestamp, defaults to current time

weight decimal value

uom variable length text field. Valid values

are: g, mg, kg, oz, lb. These represent: grams, milligrams, kilograms, ounces

and pounds.

location license number of location

Example:

```
{
   "API": "4.0",
   "action": "plant_waste_weigh",
   "location": "12345",
   "weight": "250.00",
   "uom": "g"
}
}
Returns:
{
   "barcode_id": "0358560579655604",
   "barcode_type": "27",
   "sessiontime": "1384487873",
   "success": "1",
   "transactionid": "3286"
}
```

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

barcode\_id New identifier for the inventory specified by

barcode\_type.

barcode\_type Specifies the type of derivative, always 27.

## plant\_cure

The plant\_cure function will begin the process of curing a plant. This will move said plant from the drying phase to inventory. During this process, a cultivator must take, at a minimum, a dry weight of the plant. In addition, a cultivator may also gather additional derivatives defined by their inventory type. Specifically, the system requires inventory type 6 (Flower) and optionally allows type 9 (Other Plant Material) and type 27 (Waste).

If the cultivator is doing a partial harvest/cure, the plant can pass through this function again to accumulate an additional dry weight. If the cultivator is reflowering, ensure the collectadditional field is set to 1.

```
Parameters:
action
                               variable length text field
collectiontime
                                Optional,
                                            Unix
                                                    32-bit
                                                             integer
                                timestamp, defaults to current time
barcodeid
                               Array of one or more unique plant
                               identifiers
                               Array of 1 or more nodes containing
weights
                               weight information
                               decimal value
 amount
                               integer
                                         value
                                                  representing
                                                                 the
 invtype
                                derivative type
                               variable length text field. Valid values
 uom
                                are: g, mg, kg, oz, lb. These represent:
                               grams, milligrams, kilograms, ounces
                               and pounds.
collectadditional
                                Keeps the plant in the growing phase
                                and allows the user to take another
                               wet weight of the plant(s) at a later
                               point that will compound to the
                               original wet weight.
                                integer, room the collection occurred
room
                               in
location
                               license number of location
Example:
{
  "API": "4.0",
  "action": "plant_cure",
  "barcodeid": "9992776458335982",
  "collectadditional": "0",
  "location": "12345",
  "room": "2",
  "weights": [
     "amount": "250.00",
```

```
"invtype": "6",
     "uom": "g"
     "amount": "500.00",
     "invtype": "9",
     "uom": "g"
     "amount": "125.00",
     "invtype": "27",
     "uom": "g"
Returns:
  "derivatives": [
     "barcode_id": "0358560579655604",
     "barcode_type": "6"
     "barcode_id": "0358560579655605",
     "barcode_type": "9"
  "sessiontime": "1384487873",
  "success": "1",
  "transactionid": "3290"
```

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

derivatives Array of 1 or more nodes containing new

identifiers with their associated inventory

types.

barcode\_id New identifier for the inventory specified by

barcode\_type.

barcode\_type Specifies the type of derivative.

## plant\_cure\_undo

The plant\_cure\_undo function will allow a licensee to correct plants that were accidentally cured and need to be placed into cultivation. If any of the derivative items have been altered, this function will report an error. For example, if an inventory adjustment were made to flower collected from this specific cure process, the system will then disallow the action. It is designed to correct simple mistakes and actively prevents individuals from abusing the function to hide inventory.

Parameters:

action variable length text field

transactionid The transaction ID of the original

plant\_cure call

```
{
    "API": "4.0",
    "action": "plant_cure_undo",
    "transactionid": "123456"
}
```

Returned Parameters:

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

## plant\_convert\_to\_inventory

The plant\_convert\_to\_inventory function will allow a licensee to convert a plant that is growing (but not flowering) into an inventory item that can then be transferred and sold.

Once converted, the new item will keep its identifier but will now have an inventory type of 12 (Mature Plant).

Parameters:

action variable length text field

barcodeid Array of 1 or more text fields representing the plants to convert

{

```
"API": "4.0",

"action": "plant_convert_to_inventory",

"barcodeid": [

"6853296789574125",

"6853296789574126"

]
```

Returned Parameters:

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

## plant\_yield\_modify

The plant\_yield\_modify function will allow direct access to modify previously stored values for harvest and cure collections. The user will need to specify one transaction at a time. The integrator is, of course, free to hide this from the end-user with multiple API calls behind the scenes if they display the capability to modify collected values in a unique or innovative way.

The user can, however, specify all values that would have been specifiable at the time of the original transaction. That is, if the transaction relates to the plant\_harvest, wet weight and any derivative can be specified. If the original transaction was a plant\_cure, dry weight could be specified, instead. Only values that are included will be modified. If a user wishes to zero out a value, it must be declared. Null or absent values will retain their previous values.

Parameters:

action variable length text field

```
collectiontime
                                Optional,
                                            Unix
                                                    32-bit
                                                             integer
                               timestamp, defaults to current time
transactionid
                               integer, the transaction to correct
                               Array of 1 or more nodes containing
weights
                               weight information
                               Optional, decimal value
 amount
                                         value
                               integer
                                                  representing
                                                                 the
 invtype
                               derivative type
                               variable length text field. Valid values
 uom
                               are: g, mg, kg, oz, lb. These represent:
                               grams, milligrams, kilograms, ounces
                               and pounds.
Example:
{
  "API": "4.0",
  "action": "plant_yield_modify",
  "transactionid": "3290",
  "weights": {
    "amount": "450.00",
    "invtype": "6",
    "uom": "g"
Returns:
  "sessiontime": "1384487873",
  "success": "1",
  "transactionid": "3309"
}
```

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

derivatives Optional, Array of 1 or more nodes

containing new identifiers with their associated inventory types. Only returned if the inventory type was previously

unaccounted for.

barcode\_id New identifier for the inventory specified by

barcode\_type.

barcode\_type Specifies the type of derivative.

## plant\_modify

The plant\_modify function will allow direct access to modify previously stored values for a plant. The user will need to specify one plant at a time. The integrator is, of course, free to hide this from the end-user with multiple API calls behind the scenes if they display the capability to modify collected values in a unique or innovative way.

The user will need to specify the barcode id and, optionally the new strain, new mother flag or new room.

#### Parameters:

action variable length text field

strain Optional, variable length text field of

the new strain name

room Optional, integer value that will move

the plant to another plant room.

mother Optional, integer value indicating if

the plant is a mother plant

birthdate Optional, 8 character birthdate in the

following format: YYYYMMDD. If not provided, the system will default

to the current date.

```
Example:
{
    "API": "4.0",
    "action": "plant_modify",
```

```
"barcodeid": "6853296789574125",
"strain": "Blueberry",
"room": "6",
"mother": "1"
}

Returns:
{
    "sessiontime": "1384487873",
    "success": "1",
    "transactionid": "3309"
}

Returned Parameters:
success
    Boolean value
transactionid integer value
sessiontime
    Unix 32-bit integer timestamp
```

# **Chapter 5: Inventory**

#### In this chapter, you'll learn how to:

- Adjust and audit inventory
- Create new inventory
- ✓ Convert inventory
- ✓ Perform inventory lookups

# inventory\_adjust

The inventory\_adjust function will allow a licensee to adjust the amount or quantity of an inventory item. The type field can represent one of the following: 1 (General Inventory Audit), 2 (Theft), 3, (Seizure by Federal, State, Local or Tribal Law Enforcement), 4 (Correcting a mistake), 5 (Moisture loss, e.g. wet other plant material), 6 (Depletion, e.g. inventory type 11). For backward compatibility, reason and type can be provided outside of the data array as a fallback default. The integrator can also choose whether to provide the new quantity to adjust to (with the quantity parameter) or can simply provide the remove\_quantity parameter. It is recommended to only provide one or the other. The system will look for remove\_quantity first and fallback to quantity if not found.

Parameters:

barcodeid

action variable length text field

data Array of 1 or more nodes containing

inventory information inventory identifier

quantity Decimal value, optional if

remove\_quantity is provided, new

quantity to adjust to.

quantity\_uom variable length text field. Valid values

are: g, mg, kg, oz, lb, each. These represent: grams, milligrams, kilograms, ounces, pounds, each.

remove\_quantity Decimal value, optional if quantity is

provided, quantity to remove. Does not need to be remaining quantity

(can be a partial removal).

remove\_quantity\_uom variable length text field. Valid values

are: g, mg, kg, oz, lb, each. These

```
represent: grams, milligrams,
                               kilograms, ounces, pounds, each.
                               variable length text field explaining in
 reason
                               greater detail the reason for the
                               removal or addition of inventory
                               Integer value representing the type of
 type
                               adjustment.
  "API": "4.0",
  "action": "inventory_adjust",
  "data": {
    "barcodeid": "6647455983218747",
    "quantity": "690",
    "reason": "Testing",
    "type": "1"
Return example:
  "sessiontime": "1384476925",
  "success": "1",
  "transactionid": "3311"
}
Returned Parameters:
success
                         Boolean value
```

# inventory\_adjust\_usable

transactionid

sessiontime

The inventory\_adjust\_usable function will allow a licensee to adjust the usable amount of an eligible inventory item. The current eligible inventory types for this function call are: 24 (Extract for Inhalation), 26 (Sample Jar), 28 (Usable Marijuana), 31 (Marijuana Mix Packaged). This function cannot be used to add inventory to the system via adjustment, but rather it will tie any quantity adjustments directly to the usable amount.

integer value

Unix 32-bit integer timestamp

That is, if an item has a current quantity of 2 and a usable amount of 2 grams; this function could then be used to change the item quantity to 1 which would cause the system to change the usable amount to 4 grams.

```
Parameters:
```

action variable length text field barcodeid inventory identifier

quantity Integer value, greater than zero, that

represents the correct number of

units for the identifier.

```
{
    "API": "4.0",
    "action": "inventory_adjust_usable",
    "barcodeid": "6647455983218747",
    "quantity": "1"
}

Return example:
{
    "sessiontime": "1384476925",
    "success": "1",
    "transactionid": "3311"
    "usableweight": "4.00"
}
```

#### Returned Parameters:

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

usableweight Decimal value that represents new usable

weight of item

## inventory\_destroy\_schedule

The inventory\_destroy\_schedule function will notify the traceability system of intent to destroy an inventory item. Per current rules, this function can only (currently) be called by producers and processors. Please see the plant\_destroy\_schedule function for an explanation on the optional override parameter.

Parameters:

reason

action variable length text field

barcodeid Array of 1 or more text fields

representing the inventory reason for the destruction

override Optional, 0 or 1 Boolean value

(defaults to 0 if omitted)

reason\_extended Integer value corresponding to a pre-

defined set of values. If set to 0 or not provided, the reason field must be provided. The acceptable values are: 0 (Other), 1 (Waste), 2 (Unhealthy or Died), 3 (Infestation), 4 (Product Return), 5 (Mistake), 6 (Spoilage), 7

(Quality Control).

```
{
  "API": "4.0",
  "action": "inventory_destroy_schedule",
  "barcodeid": [
    "6853296789574115",
    "6853296789574116"
],
    "reason": "Mold",
    "reason_extended": "0"
}
```

Returned Parameters:

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

## inventory\_destroy\_schedule\_undo

The inventory\_destroy\_schedule\_undo function will allow a licensee to correct inventory that was accidentally scheduled for destruction; before it has actually been destroyed.

Parameters:

action variable length text field

```
variable length text field
reason
barcodeid
                             Array of 1 or more text fields
                             representing the plants
  "API": "4.0",
  "action": "inventory_destroy_schedule_undo",
  "barcodeid": [
   "6853296789574115",
   "6853296789574116"
Returned Parameters:
```

Boolean value success transactionid integer value

sessiontime Unix 32-bit integer timestamp

## inventory\_destroy

The inventory\_destroy function will allow a licensee to destroy an item that has been previously scheduled for destruction. Please see the plant\_destroy\_schedule function for an explanation on the optional override parameter.

#### Parameters:

```
action
                               variable length text field
barcodeid
                               inventory identifier
                               reason for the removal of inventory
reason
override
                               Optional, 0 or 1 Boolean value
                               (defaults to 0 if omitted)
  "API": "4.0",
  "action": "inventory_destroy",
  "barcodeid": "6647455983218747"
```

```
Return example:
{

"sessiontime": "1384476925",

"success": "1",

"transactionid": "3411"
}
```

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

## inventory\_move

The inventory\_move function will update the current room for the specified inventory items. Essentially, it allows a user to move inventory from one room to another.

variable length text field

#### Parameters:

action

```
data

Array of 1 or more nodes containing inventory information

barcodeid inventory identifier

room Integer value, represents the identification number of a room

{
```

```
Return example:
{

"sessiontime": "1384476925",

"success": "1",

"transactionid": "3626"
}
```

# inventory\_check

success

The inventory\_check function can be used to perform a cursory lookup on an item before an inbound inventory\_transfer from an outside licensee. It will pull various pieces of inventory on the inventory identifiers specified in the request. This information can include: strain, quantity available, usable weight (if applicable), product (if applicable) and inventory type.

```
Parameters:
action variable length text field
barcodeid Array of 1 or more text fields
representing the inventory to lookup

{

"API": "4.0",

"action": "inventory_check",

"barcodeid": [

"6853296789574115",

"6853296789574116"

]

Returned Parameters:
```

Boolean value

data Array of 1 or more nodes containing inventory information barcode\_id inventory identifier variable length text field strain product variable length text field decimal value quantity usableweight decimal value (in grams). integer value based on pre-defined invtype inventory types

#### Return example:

```
"data": {
    "barcode_id": "8919990967962719",
    "invtype": "28",
    "quantity": "10",
    "usableweight": "3.50",
    "strain": "Blueberry"
    },
    "success": "1"
}
```

## inventory\_new

The inventory\_new function can be used to create new inventory not previously entered into the system. This function is ONLY accessible to a licensee that has been designated as a producer. It may be used for the first 15 days of operation without a source\_id. Subsequent calls to this function will require a source\_id of a plant in cultivation that has been designated as a mother plant. Only four types may be provided to this function without a source\_id: Seed, Clone, Mature Plant and Plant Tissue. After the 15 day period, only three types may be provided: Seed, Clone and Plant Tissue.

#### Parameters:

action variable length text field location license number of location

```
data
                               Array of 1 or more nodes containing
                               new inventory information
 strain
                               variable length text field
                               integer value
 quantity
                               integer, corresponds to the inventory
 invtype
                               type system
 source_id
                               text field, optional when within the
                               15 day period
{
  "API": "4.0",
  "action": "inventory_new",
  "data": {
    "invtype": "12",
    "quantity": "50",
    "strain": "Blueberry"
  "location": "12345"
Return example:
  "barcode_id": [
    "6853296789574115",
    "6853296789574116"
  "sessiontime": "1384476925",
  "success": "1",
  "transactionid": "3278"
}
```

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

barcode\_id Array of 1 or more text fields representing

the new unique identifiers attached to the

inventory items

# inventory\_manifest

The inventory\_manifest function will notify the traceability system of intent to transfer an inventory item. This function will need to be called in instances of transfers from one licensee to another. It will also need to be called for licensees which possess multiples licenses (e.g. Producer + Processor) that possess different license numbers. For internal transfers (e.g. from one part of a facility to another), there is no need to quarantine and schedule a transfer. In previous versions, this function did not require a location or a stop\_overview and assumed a single stop. The previous syntax, although deprecated, is still supported.

Parameters:

action variable length text field employee\_id variable length text field

vehicle\_id integer value

location license number of origin location stop\_overview Array of 1 or more nodes containing

stop information

approximate\_departure Unix 32-bit integer timestamp,

approximate departure time

approximate\_arrival Unix 32-bit integer timestamp,

approximate arrival time

approximate\_route variable length text field, route that

will be used

vendor\_license license number of vendor the item(s)

are being transferred to

stop\_number stop number of the overview, integer

greater than or equal to 1

barcodeid Array of 1 or more text fields

representing the items to be

transferred on the specific stop

new\_room Optional, can specify the item(s)

have been placed into e.g. a

quarantine room.

```
Example:

{
    "API": "4.0",
    "action": "inventory_manifest",
    "location": "12345",
    "stop_overview": {
        "approximate_departure": "1384476925",
        "approximate_arrival": "1384486925",
        "approximate_route": "Turn left on Main St.",
        "vendor_license": "25678787644",
        "stop_number": "1",
        "barcodeid": [
            "6853296789574115",
            "6853296789574116"
        ]
    },
    "employee_id": "23468",
    "vehicle_id": "2"
}
```

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

barcode\_id Unique identifier attached to the manifest

# inventory\_manifest\_pickup

The inventory\_manifest\_pickup function will notify the traceability system of intent to transfer an inventory item that will be picked up by the vendor rather than transferred by the licensee. This function will need to be called in instances of transfers from one licensee to another. For internal transfers (e.g. from one part of a facility to another), the inventory\_manifest should be used. This manifest type can only have one stop.

Parameters:

action variable length text field employee\_name variable length text field

```
employee_id
                               unique variable length text field
employee_dob
                               variable length text field in the
                                format MM/DD/YYYY
vehicle_color
                               variable length text field
vehicle make
                               variable length text field
vehicle model
                               variable length text field
vehicle_plate
                               variable length text field
vehicle_vin
                               variable length text field
vehicle_year
                               integer
location
                               license number of origin location
stop_overview
                               Array of 1 or more nodes containing
                               stop information
 approximate_departure
                               Unix
                                       32-bit
                                               integer
                                                         timestamp,
                               approximate departure time
 approximate_arrival
                               Unix
                                       32-bit
                                               integer
                                                         timestamp,
                               approximate arrival time
 approximate_route
                               variable length text field, route that
                               will be used
 vendor license
                               license number of vendor the item(s)
                               are being transferred to
                               stop number of the overview, integer
 stop_number
                               greater than or equal to 1
 barcodeid
                               Array of 1 or more text fields
                               representing
                                              the items
                                                                 be
                               transferred on the specific stop
                               Optional, can specify the item(s)
new_room
                               have been placed into e.g. a
                               quarantine room.
Example:
  "API": "4.0",
  "action": "inventory_manifest_pickup",
  "employee_dob": "01/01/1980",
  "employee_id": "124",
  "employee_name": "Joe Everyman",
  "vehicle_color": "Black",
  "vehicle_make": "Ford",
```

```
"vehicle_model": "Focus",

"vehicle_plate": "111",

"vehicle_vin": "123",

"vehicle_year": "1990",

"location": "12345",

"stop_overview": {

    "approximate_departure": "1384476925",

    "approximate_arrival": "1384486925",

    "approximate_route": "Turn left on Main St.",

    "vendor_license": "25678787644",

    "stop_number": "1",

    "barcodeid": [
        "6853296789574115",
        "6853296789574116"

    ]

}
```

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

barcode\_id Unique identifier attached to the manifest

## inventory\_manifest\_third\_party

The inventory\_manifest\_third\_party function will notify the traceability system of intent to transfer an inventory item that will be delivered by a third party rather than delivered by either licensee. This manifest type can only have one stop. Route and travel information are not needed for this manifest type.

#### Parameters:

action variable length text field third\_party\_license variable length text field

location license number of origin location stop\_overview Array of 1 or more nodes containing

stop information

approximate\_departure Unix 32-bit integer timestamp,

approximate departure time

```
vendor_license
                              license number of vendor the item(s)
                              are being transferred to
 stop_number
                              stop number of the overview, integer
                              greater than or equal to 1
                              Array of 1 or more text fields
 barcodeid
                              representing
                                             the
                                                   items
                              transferred on the specific stop
                              Optional, can specify the item(s)
new_room
                              have been placed into e.g. a
                              quarantine room.
Example:
  "API": "4.0",
  "action": "inventory_manifest_third_party",
  "location": "12345",
  "third_party_license": "191",
  "stop_overview": {
    "approximate_departure": "1384476925",
    "vendor_license": "25678787644",
    "stop_number": "1",
    "barcodeid": [
     "6853296789574115",
     "6853296789574116"
Returned Parameters:
                        Boolean value
success
transactionid
                        integer value
sessiontime
                        Unix 32-bit integer timestamp
barcode_id
                        Unique identifier attached to the manifest
```

# inventory\_manifest\_lookup

The inventory\_manifest\_lookup function can be used to offer a heads up of shipments that have been both manifested and transferred out of one licensee and are ready to be transferred into the receiver's inventory.

```
Parameters:
action
                              variable length text field
location
                              license number of location
Example:
  "API": "4.0",
  "action": "inventory_manifest_lookup",
  "location": "12345"
}
Return example:
  "data": {
    "item_count": "1",
    "license_number": "18750",
    "manifest_id": "7949844847294004",
    "trade_name": "Trade 24",
    "transfer_date": "01/21/2014",
   "return_indicated": "0"
  },
  "success": "1",
  "sessiontime": "1390548537"
}
Returned Parameters:
success
                        Boolean value
sessiontime
                        Unix 32-bit integer timestamp
```

data Array of 1 or more nodes containing

transportation information

item\_count Integer, number of separate items

license\_number variable length text field, license number of

shipping entity

manifest\_id variable length text field, unique manifest

identifier

trade\_name variable length text field, name of the

shipping entity

transfer\_date Date of actual shipment

return\_indicated Boolean (0/1) value whether or not the item

is eligible for return before receipt

# inventory\_manifest\_modify

The inventory\_manifest\_modify function will modify an existing manifest that has not been shipped yet. Currently, it can be used to modify or add an employee/driver on a manifest. The employee ID can be provided for a regular manifest whereas the full driver information will need to be provided for a pick-up manifest.

#### Parameters:

action variable length text field manifest id manifest identifier

employee\_name variable length text field, required for

pick-up manifests

employee\_id unique variable length text field, not

required for third party manifests

employee\_dob variable length text field in the

format MM/DD/YYYY, required

for pick-up manifests

third\_party\_license variable length text field, required for

third party manifests

#### Example:

```
"API": "4.0",
   "action": "inventory_manifest_modify",
   "manifest_id": "1234567812345678",
   "employee_id": "23468"
```

}

Returned Parameters:

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

## inventory\_manifest\_void

The inventory\_manifest\_void function will cancel a manifest that has been previously filed.

Parameters:

action variable length text field manifest id manifest identifier

```
Example:
{

"API": "4.0",

"action": "inventory_manifest_void",

"manifest_id": "1234567812345678"
```

#### Returned Parameters:

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

# inventory\_manifest\_void\_stop

The inventory\_manifest\_void\_stop function will void a specific stop on a manifest that has been previously filed. If there are no remaining active stops, the manifest itself will be automatically voided.

Parameters:

action variable length text field manifest\_id manifest identifier stop\_number integer value

Example:

```
{
    "API": "4.0",
    "action": "inventory_manifest_void",
    "manifest_id": "1234567812345678",
    "stop_number": "1"
}
Returned Parameters:
success
Boolean value
```

transactionid integer value

sessiontime Unix 32-bit integer timestamp

# inventory\_manifest\_void\_items

The inventory\_manifest\_void\_items function will void one or more items from a manifest. If there are no remaining active items in a specific stop, that stop will be automatically voided. If there are no remaining active items in the entire manifest itself, the manifest will be automatically voided.

Parameters:

action variable length text field

manifest\_id manifest identifier

barcodeid Array of 1 or more inventory

identifiers

Example:

```
{
    "API": "4.0",
    "action": "inventory_manifest_void_items",
    "manifest_id": "1234567812345678",
    "barcodeid": "6853296789574116"
}
```

Returned Parameters:

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

# inventory\_transfer\_lookup

The inventory\_transfer\_lookup function can be after the inventory\_manifest\_lookup function, or, alternatively, after having the manifest identifier in hand to retrieve specific details on the receiving items.

```
Parameters:
action
                              variable length text field
                              license number of location
location
manifest id
                              manifest identifier
Example:
  "API": "4.0",
  "action": "inventory_transfer_lookup",
  "location": "12345",
  "manifest id": "1234567812345678"
}
Return example:
  "data": {
    "barcode_id": "1234567812345678",
    "product": "Space Cookie",
    "quantity": "5",
    "inventorytype": "22",
    "description": "Infused Edible",
    "is_sample": "1"
  "success": "1",
  "sessiontime": "1390548537"
Returned Parameters:
                        Boolean value
success
sessiontime
                        Unix 32-bit integer timestamp
data
                        Array of 1 or more nodes containing
                        inventory information
```

barcode\_id Unique identifier

product variable length text field, name of product

where applicable

quantity decimal value

inventorytype integer value based on pre-defined inventory

types

strain variable length text field, name of product

where applicable

description variable length text field, description of item sample\_id variable length text field, ID of QA sample if

directly taken from item

is\_return Boolean value, returned only if item indicates

it should be accepted as a return

is\_sample Boolean value, true if the item has been

created as a vendor sample

usableweight Optional, decimal value if the inventory type

supports a usable weight

is\_medical Optional, integer value that indicates if the

inventory item is marked as medical.

# inventory\_transfer\_outbound

The inventory\_transfer\_outbound function can be used to transfer inventory that already exists in the system. A manifest must be filed prior to all transfers.

Parameters:

action variable length text field

manifest id manifest identifier obtained from

previously filed manifest

data Array of 1 or more nodes containing

inventory information

barcodeid inventory identifier

price Optional if inter-UBI transfer,

decimal value that indicates how much the item was sold for before

any applicable taxes.

"API": "4.0",

"action": "inventory\_transfer\_outbound",

"manifest\_id": "1234567812345678",

```
"data": {
    "barcodeid": "6853296789574115",
    "price": "100.00"
    }
}

Return example:
{
    "sessiontime": "1384476925",
    "success": "1",
    "transactionid": "3778"
}
```

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

## inventory\_transfer\_outbound\_return\_lookup

The inventory\_transfer\_outbound\_return\_lookup function can be used to perform a lookup of any items that have been sent, but not fully received by the recipient.

### Parameters:

action variable length text field location license number of location

# Example: {

```
{
    "API": "4.0",
    "action": "inventory_transfer_outbound_return_lookup",
    "location": "12345"
}
```

```
Return example:
```

```
"data": {
    "barcode_id": "6853296789574115",
```

```
"description": "Usable Marijuana",
    "inventorytype": "28",
    "license_number": "12845",
    "manifest id": "1234567812345678",
    "price": "100.00",
    "quantity": "4",
    "received": "1",
    "received_quantity": "1",
    "stop_number": "1",
    "strain": "Blueberry",
    "trade_name": "Retail 123",
    "transfer_date": "04/16/2015",
    "usableweight": "2.00",
    "return available": "1"
  "sessiontime": "1429314044",
  "success": "1"
Returned Parameters:
success
                         Boolean value
sessiontime
                         Unix 32-bit integer timestamp
data
                         Array of 1 or more nodes containing
                         transportation information
                         Unique identifier
      barcode id
                         Variable length text field that describes the
      description
                         item being transported.
                         integer, corresponds to the inventory type
      inventorytype
                         system
      license_number
                         variable length text field, license number of
                         shipping entity
      manifest id
                         variable length text field, unique manifest
                         identifier
      trade_name
                         variable length text field, name of the
                         shipping entity
      transfer_date
                         Date of actual shipment
      price
                         decimal value that indicates how much the
                         item was sold for, originally.
```

quantity decimal value

received boolean value, indicates if the item was

received.

quantity\_received decimal value, indicates the quantity

accepted, if any.

stop\_number integer value

strain variable length text field

usableweight decimal value that represents usable weight

of item, where applicable.

return\_available boolean value, indicates if the item has been

specifically rejected by the intended recipient

# inventory\_transfer\_outbound\_return

The inventory\_transfer\_outbound\_return function can be used to return items to inventory which were either partially or fully rejected by the recipient.

#### Parameters:

action variable length text field location license number of location

data Array of 1 or more nodes containing

transportation information

barcodeid unique identifier

item\_number integer, optional, that uniquely identifies

each data element. If no item\_number is provided, the system will provide one

starting at 0

manifest\_id variable length text field, unique manifest

identifier

price decimal value, optional, if the transfer was

partially accepted

```
Example:
```

```
"API": "4.0",

"action": "inventory_transfer_outbound_return",

"data": [

{
    "barcodeid": "6853296789574115",
    "item_number": "0",
```

```
"manifest_id": "1234567812345678",
     "price": "50.00"
     "barcodeid": "6853296789574116",
     "item_number": "1",
     "manifest_id": "1234567812345678",
     "price": "20.00"
  "location": "12345"
Return example:
  "data": [
     "barcode_id": "6853296789574115",
     "item_number": "0",
     "sub lot": "0"
     "barcode_id": "6853296789574118",
     "item_number": "1",
     "sub lot": "1"
  "sessiontime": "1429315773",
  "success": "1",
  "transactionid": "65349"
Returned Parameters:
success
                       Boolean value
                       Unix 32-bit integer timestamp
sessiontime
```

transactionid integer value

data Array of 1 or more nodes containing

transportation information

barcode\_id Unique identifier

item\_number integer, that uniquely identifies each data

element. If no item\_number was provided upon submission, the system will provide

this starting at 0

sub\_lot boolean value, indicates if the item was sub-

lotted. An item would be sub-lotted if it were partially accepted. If a sub-lot is generated, the barcode\_id will correspond to the new sub-lot. If not, the barcode\_id corresponds

to the original identifier.

# inventory\_transfer\_outbound\_modify

The inventory\_transfer\_outbound\_modify function will allow a user to modify the price recorded for an inventory transfer sale. This can be used before filing a monthly report if a line item mistake is noticed and needs to be corrected.

Parameters:

action variable length text field

transactionid integer value

barcodeid inventory identifier

price Decimal value representing the price

paid before any applicable taxes.

item\_number Optional, integer, should be provided

if multiple line items of the same barcode were included in one sale. 0 would represent the first item (in the order submitted to the system), 1 the

next, etc.

Example:

```
{
```

"API": "4.0",

"action": "inventory\_transfer\_outbound\_modify",

```
"transactionid": "3590",
"barcodeid": "6647455983218749",
"price": "15.00"
}
```

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

# inventory\_transfer\_outbound\_void

The inventory\_transfer\_outbound\_void function will allow a user to void an inventory transfer that has been completed but not yet received by the recipient. This can be used for instances where a sale has been reported complete on the sender end; but was made in error. The transfer can then be made again; or the manifest voided, if necessary.

Parameters:

action variable length text field

transactionid integer value

Example:

```
{
    "API": "4.0",
    "action": "inventory_transfer_outbound_void",
    "transactionid": "5590"
}
```

Returned Parameters:

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

## inventory\_transfer\_inbound

The inventory\_transfer\_inbound function can be used to officially receive inventory from another licensee.

Parameters:

```
action
                                variable length text field
location
                                license number of location
data
                                Array of 1 or more nodes containing
                                inventory information
 barcodeid
                                inventory identifier
                                Quantity or amount received
 quantity
                                variable length text field. Valid values
 uom
                                are: g, mg, kg, oz, lb, each. These
                                represent: grams, milligrams,
                                kilograms, ounces, pounds, each.
                                Optional, decimal value indicating a
 refund_amount
                                refund amount if the transfer is a
                                refund.
  "API": "4.0",
  "action": "inventory_transfer_inbound",
  "data": {
    "barcodeid": "6853296789574115",
    "quantity": "100.00",
    "uom": "g"
Return example:
  "sessiontime": "1384476925",
  "success": "1",
  "transactionid": "3778"
}
Returned Parameters:
                         Boolean value
success
transactionid
                         integer value
sessiontime
                         Unix 32-bit integer timestamp
```

# inventory\_transfer\_inbound\_modify

The inventory\_transfer\_inbound\_modify function will allow a user to modify the refund price recorded for an inventory transfer sale that came into a licensed location. This can be used before filing a monthly report if a line item mistake is noticed and needs to be corrected.

Parameters:

action variable length text field

transactionid integer value

barcodeid inventory identifier

price Decimal value representing the

refund price, if any, paid before any

applicable taxes.

Example:

```
"API": "4.0",
"action": "inventory_transfer_inbound_modify",
"transactionid": "3596",
"barcodeid": "6647455983218749",
"price": "15.00"
```

Returned Parameters:

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

### inventory\_create\_lot

The inventory\_create\_lot function will allow a user to combine inventory types 6 (Flower) and 9 (Other Plant Material) into lots as mandated by rules. The return types will be 13 (Flower Lot) and 14 (Other Plant Material Lot), respectively. The system will implicitly calculate the new quantity based on what is removed from the original items. Type 30 (Marijuana Mix) can also be created using this function using a combination of flower and other material, as necessary.

```
Parameters:
action
                                variable length text field
lot_type
                                Optional, integer that can be either
                                13, 14 or 30. If not specified, the
                                system will automatically assign 13
                                for flower, 14 for other material and
                                30 for submitted barcodes that
                                contain a mix of both.
is_medical
                                Optional, integer that indicates the
                                lot will be used for medical purposes.
data
                                Array of 1 or more nodes containing
                                inventory information
 barcodeid
                                inventory identifier
                                integer value, quantity to remove.
 remove_quantity
                                Does not need to be remaining
                                quantity (can be a partial
                                combination).
                                variable length text field. Valid values
 remove_quantity_uom
                                are: g, mg, kg, oz, lb, each. These
                                represent: grams, milligrams,
                                kilograms, ounces, pounds, each.
  "API": "4.0",
  "action": "inventory_create_lot",
  "lot_quantity": "945",
  "data": [
     "barcodeid": "6647455983218747",
     "remove_quantity": "693.00"
     "barcodeid": "5723224643296982",
     "remove_quantity": "252.00"
```

```
Return example:
{

"sessiontime": "1384476925",

"barcode_id": "5723224643296983",

"barcode_type": "13",

"success": "1",

"transactionid": "3312"
}
```

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

barcode\_id text field representing new unique identifier

barcode\_type integer representing new lot type

## inventory\_split

The inventory\_split function will allow a user to split inventory items into sub lots or sub batches. For example, if a user has a lot of Flower and only wishes to sell half of it, they would need to first create a sub lot using this function. Then, with the new lot number, they can sell the desired amount. Multiple lots or batches can be specified at a time, however, keep in mind they will not be combined. Rather, each one will receive a new sub-lot or sub-batch number.

Parameters:

action variable length text field

data Array of 1 or more nodes containing

inventory information

barcodeid inventory identifier

remove\_quantity integer value, quantity to remove.

Does not need to be remaining

quantity (can be a partial

combination).

```
remove_quantity_uom
                              variable length text field. Valid values
                              are: g, mg, kg, oz, lb, each. These
                              represent: grams, milligrams,
                              kilograms, ounces, pounds, each.
{
  "API": "4.0",
  "action": "inventory_split",
  "data": [
     "barcodeid": "6647455983218747",
     "remove_quantity": "693.00"
     "barcodeid": "5723224643296982",
     "remove_quantity": "252.00"
Return example:
  "sessiontime": "1384476925",
  "barcode_id": [
    "5723224643296983",
    "5723224643296984"
  "success": "1",
  "transactionid": "3312"
Returned Parameters:
success
                        Boolean value
transactionid
                        integer value
```

sessiontime Unix 32-bit integer timestamp

barcode\_id text fields representing new unique identifier,

returned in the order of the input identifiers

## inventory\_convert

The inventory\_convert function will allow a user to convert one type of item to another. The system allows for multiple sources. So, for example, a processor may use part of various Other Plant Material Lots in producing a batch of hash oil. Certain derivatives may not be strain specific, so entering a strain is optional under those circumstances. Product name is optional when it is not the end product. If the derivative item will be sold to a consumer (that is, inventory types 22,23,24,25) and is not regular usable marijuana (type 28), then a product will be required (e.g. Cookie, Brownie, etc).

Parameters:

waste

action variable length text field

data Array of 1 or more nodes containing

inventory information

barcodeid inventory identifier

remove\_quantity integer value, quantity to remove.

Does not need to be remaining

quantity (can be a partial

combination).

remove\_quantity\_uom variable length text field. Valid values

are: g, mg, kg, oz, lb, each. These represent: grams, milligrams, kilograms, ounces, pounds, each. decimal value, amount of waste

produced by the process, if any

waste\_uom Valid values are: g, mg, kg, oz, lb.

These represent: grams, milligrams,

kilograms, ounces, pounds.

derivative\_type Inventory type of derivative item derivative\_quantity decimal value, quantity of new

derivative after conversion

derivative\_quantity\_uom Valid values are: g, mg, kg, oz, lb,

each. These represent: grams, milligrams, kilograms, ounces,

pounds, each.

```
derivative_usable
                                decimal value, quantity of usable
                                marijuana in new product after
                                conversion
                                Valid values are: g, mg, kg, oz, lb,
derivative_usable_uom
                                each. These represent: grams,
                                milligrams, kilograms, ounces,
                                pounds, each.
derivative_strain
                                Optional, variable length text field
derivative_product
                                Optional, variable length text field
net_package
                                Optional, decimal value that defined
                                the net package weight or volume.
net_package_uom
                                Optional, defines net_package units.
                                Valid values are: g, mg, kg, oz, lb, ml.
                                These represent: grams, milligrams,
                                kilograms, ounces, pounds, milliliters.
no_modification
                                Optional, boolean value. If the item
                                being converted is eligible for QA
                                bypass due to no physical change,
                                this should be set to 1.
Example:
{
  "API": "4.0",
  "action": "inventory_convert",
  "data": {
    "barcodeid": "6647455983218747",
    "remove_quantity": "25.00"
   },
  "waste": "15.00",
  "derivative_quantity": "10.00",
  "derivative_inventory_type": "18"
}
Return example:
```

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

derivatives Array of 1 or more nodes containing new

identifiers with their associated inventory

types.

barcode\_id New identifier for the inventory specified by

barcode\_type.

barcode\_type Specifies the type of derivative.

# inventory\_sample

The inventory\_sample function will allow a user to provide samples as allowed by law. Specifically, samples can be provided to employees for quality assurance purposes or to vendors for the purposes of negotiating a sale. Either employee\_id or vendor\_license should be provided; but not both. For a new sample, an inventory ID will be returned for that sample. If this is a vendor sample, the sample must be sent with a manifest and the receiver must then acknowledge the sample with one of their employees. If the sample is being provided for educational purposes, it must be identified as such and there are additional restrictions in place for this type of sample.

Parameters:

action variable length text field barcodeid inventory identifier

employee\_id Optional, variable length text field

vendor\_license Optional, variable length text field

representing license number of

receiving entity

quantity decimal value, quantity of old

product before conversion

quantity\_uom Valid values are: g, mg, kg, oz, lb,

each. These represent: grams, milligrams, kilograms, ounces,

pounds, each.

sample\_type integer value indicating the action of

the sample. 2 indicates a new employee sample that is being created, 1 indicates a new sample to be sent to an external vendor, 0 indicates the sample is being

consumed.

educational\_sample Optional, boolean value.

### Example:

```
{
    "API": "4.0",
    "action": "inventory_sample",
    "barcodeid": "6647455983218747",
    "quantity": "1.00",
    "employee_id": "12356",
    "educational_sample ": "0"
}
```

#### Returned Parameters:

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

barcode\_id Optional, new identifier if the call is

referencing the creation of a new sample rather than the deduction of an existing one

## inventory\_qa\_sample

The inventory\_qa\_sample function will allow a user to provide QA samples to qualified testing facilities as allowed by law.

Parameters:

action variable length text field barcodeid inventory identifier

lab\_id variable length text field, license

number of the QA facility

quantity decimal value, quantity of old

product before conversion

quantity\_uom Valid values are: g, mg, kg, oz, lb,

each. These represent: grams, milligrams, kilograms, ounces,

pounds, each.

use Optional. If the inventory type is 13

(flower lot), this field should be 1 to

indicate the lot will be used to

convert to usable marijuana (type 28, e.g. pre-packs), or 0 to indicate it will be used for an extract. Converting directly to type 28 will trigger more

rigorous QA test requirements.

```
Example:
```

```
"API": "4.0",
    "action": "inventory_qa_sample",
    "barcodeid": "6647455983218747",
    "quantity": "1.00",
    "lab_id": "12356"
}
```

Returned Parameters:

success Boolean value

transactionid integer value

sessiontime Unix 32-bit integer timestamp

sample\_id 16 digit sample identifier that is required for

manifest transportation and other sample

functions

# inventory\_qa\_sample\_void

The inventory\_qa\_sample\_void function will void a sample that has been sent out (from the traceability system's perspective), but not tested yet.

Parameters:

action variable length text field

transactionid integer value

Example:

```
"API": "4.0",
  "action": "inventory_qa_sample_void",
  "transactionid": "1234567812345678"
}
```

Returned Parameters:

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

### inventory\_qa\_sample\_results

The inventory\_qa\_sample\_results function will allow a user or laboratory to provide QA results as allowed by law. As QA facilities will be reporting directly, most licensed facilities will not need to report the results themselves.

Parameters:

action variable length text field

sample\_id sample identifier

test Array of 1 or more nodes containing

test details

The parameters to expect for each test can be found in both the example and tables below.

```
Example:
  "API": "4.0",
  "action": "inventory_qa_sample_results",
  "sample_id": "0000000090000058",
  "test": [
     "moisture": "5",
    "type": "1"
    "CBD": "5",
    "CBDA": "10",
     "THC": "20",
    "THCA": "1".
    "Total": "36",
     "type": "2"
     "Other": "1",
     "Stems": "2",
     "type": "3"
    "aerobic_bacteria": "1000",
     "bile_tolerant": "10000",
     "coliforms": "10000",
     "e_coli_and_salmonella": "0",
     "type": "4",
     "yeast_and_mold": "2500"
   },
```

```
{
    "residual_solvent": "0",
    "type": "5"
    }
]
```

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

### **QA Test Types**

1	Moisture Content
2	Potency Analysis
3	Foreign Matter Inspection
4	Microbiological Screening
5	Residual Solvent
6	Mycotoxin Screening
7	Pesticide Residue
8	Heavy Metals

### **Moisture Content Details**

Parameter	Details
moisture	Moisture Content, whole number only

### **Potency Analysis Details**

Parameter	Details
THC	THC Content

THCA	THCA Content
CBD	CBD Content
CBDA	CBDA Content
Total	Total Cannabinoid Profile

### **Foreign Matter Types**

Parameter	Details
Stems	Content of the aforementioned matter, as a percentage
Other	Content of the aforementioned matter, as a percentage

### Microbial and Fungal Counts (Colony Forming Units [CFU]/g)

Parameter	Details
aerobic_bacteria	Total viable aerobic bacteria count
yeast_and_mold	Total yeast and mold count
coliforms	Total coliforms count
bile_tolerant	Bile-tolerant gram-negative bacteria
e_coli_and_salmonella	E. coli and Salmonella

### **Residual Solvent Details**

Parameter	Details
residual_solvent	Residual Solvents

### **Mycotoxin Screening Details**

Parameter	Details	

total_mycotoxins	Total Mycotoxins

#### **Pesticide Residue Details**

Parameter	Details
pesticide_residue	Pesticide Residue

### **Heavy Metals Details**

Parameter	Details
heavy_metal	Heavy Metals

## inventory\_qa\_check

The inventory\_qa\_check function will pull down lab results that have been submitted to the traceability system by a certified QA lab.

Parameters:

action variable length text field sample\_id sample identifier

```
Example:
```

```
"API": "4.0",
    "action": "inventory_qa_check",
    "sample_id": "0000000090000059"
}
```

Returned Parameters:

success Boolean value

result integer value, -1 failure, 1 success, 2 rejected

sessiontime Unix 32-bit integer timestamp

test Array of 1 or more nodes containing test

details

The parameters to expect for each test can be found in the tables above.

# inventory\_qa\_check\_all

The inventory\_qa\_check\_all function will pull down lab results that have been submitted to the traceability system by a certified QA lab given the specific lot or batch numbers.

```
Parameters:
action
                                variable length text field
barcodeid
                                Array of one or more identifiers
Example:
  "API": "4.0",
  "action": "inventory_qa_check",
  "barcodeid": "0000000090000059",
  "barcodeid": "0000000090000060"
Returned Parameters:
                          Boolean value
success
sessiontime
                          Unix 32-bit integer timestamp
data
                          Array of 1 or more nodes containing
                          inventory information
      barcode_id
                          Unique identifier
                          integer value, -1 failure, 1 success, 2 rejected
      result
                          Array of 1 or more nodes containing test
      test
                          details
                          integer value, sample use, 0 for standard
      use
                          test, 1 for test specifically for extract
                          Inventory type of the item
      inventorytype
      parent_id
                          Unique parent identifier
      sample_id
                          Sample identifier
      lab_license
                          License number of the QA lab the sample
                          was sent to
      transactionid
                          integer value of the current transaction id
                          for the result
                                integer value of the original
      transactionid_original
                          transaction id of the result
```

is\_medical

Boolean value (0/1) indicating whether or not the sample has been designated as medical

The parameters to expect for each test can be found in the tables above.

# inventory\_modify

The inventory\_modify function will allow a producer to modify the strain on inventory that can be used as a plant source (inventory types 7, 10, 11, 12) or inventory that was incorrectly classified but not yet grouped (inventory types 6, 9, 27). The function may also be used by any privilege type to modify the product name. Both can be updated simultaneously; provided the producer privilege type is possessed by the licensee per the requirement for updating the strain.

Parameters:

action variable length text field barcodeid 16 digit barcode identifier strain Optional variable length text field Optional variable length text field productname Optional, decimal value that defined net\_package the net package weight or volume. Optional, defines net\_package units. net\_package\_uom Valid values are: g, mg, kg, oz, lb, ml. These represent: grams, milligrams, kilograms, ounces, pounds, milliliters.

Example:

```
{
    "API": "4.0",
    "action": "inventory_modify",
    "barcodeid": "6647455983218757",
    "strain": "Raspberry"
}

Return example:
{
    "sessiontime": "1384476925",
```

```
"success": "1",
  "transactionid": "3278"
}
```

Boolean value success transactionid integer value

sessiontime Unix 32-bit integer timestamp

# inventory\_convert\_undo

The inventory\_convert\_undo function will allow a licensee to correct an inventory conversion where a mistake was made. This function can only be used when additional changes (e.g. adjustments) have not been made to the derivative item.

#### Parameters:

```
action
                             variable length text field
barcodeid
                             Array of 1 or more text fields
                             representing the plants to undo
  "API": "4.0",
  "action": "inventory_convert_undo",
  "barcodeid": "2288954595338316"
}
Return example:
  "sessiontime": "1384476925",
  "success": "1",
  "transactionid": "3278",
  "data": [
     "barcodeid": "6647455983218747",
     "quantity": "693.00"
```

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

data Array of 1 or more nodes containing

transportation information

barcode\_id Inventory identifier of parent

quantity Decimal value, new parent quantity after

success

## inventory\_qa\_sample\_non\_mandatory

The inventory\_qa\_sample\_non\_mandatory function will allow a licensee to create a non-mandatory QA sample for sending to a QA lab. This can be a sample of any inventory type, and can also originate from a plant in cultivation. These items cannot be sold and may only be sent via manifest to a QA lab. Once there, the results will not be reported to traceability and the results should be received and reported outside of the system. No system deduction occurs to plants still in cultivation.

Parameters:

action variable length text field

barcode of the plant or inventory item

that the user is choosing to sample

quantity decimal value of the quantity that

should be deducted from an inventory

item for sample

quantity\_uom Optional, variable length text field.

Valid values are: g, mg, kg, oz, lb. These represent: grams, milligrams,

kilograms, ounces and pounds.

lab\_id variable length text field, license

number of the QA facility

```
{
   "API": "4.0",
   "action": "inventory_qa_sample_non_mandatory",
   "barcodeid": "2288954595338316",
   "lab_id": "12345",
   "quantity": "1"
}

Return example:
{
   "sessiontime": "1384476925",
   "success": "1",
   "transactionid": "3278",
   "sample_id": "1738193018349173"
}
```

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

sample\_id 16 digit sample identifier that is required for

manifest transportation and other sample

functions

# **Chapter 6: Sales**

### In this chapter, you'll learn how to:

- Deduct inventory for a sale
- ✓ Void a sale
- ✓ Refund a sale

# sale\_dispense

The sale\_dispense function will allow a user to deduct items from inventory through the sales process. Since all items sold must be pre-packaged, units will be assumed to be "each".

Parameters:

action variable length text field

data Array of 1 or more nodes containing

inventory information

barcodeid inventory identifier

quantity integer value, quantity to remove price Decimal value representing the price

paid before any applicable taxes.

item\_number Optional, integer, should be provided

if multiple line items of the same barcode were included in one sale. 0 would represent the first item (in the order submitted to the system), 1 the

next, etc.

sale\_time Optional, unix 32-bit integer

timestamp of when the sale occurred. If not used, will default to current time. Otherwise, the time must not be in the future and, also, must not

be in a locked tax period.

terminal\_id Optional, user-defined text value

(max 32 characters) that can be associated with a sale and retrieved at a later point with a synchronization

call.

```
card_key
                               Optional, 128 character hexadecimal
                               key as provided by the card_lookup
                               function, if the sale is a medical sale.
Example:
{
  "API": "4.0",
  "action": "sale_dispense",
  "data": [
     "barcodeid": "6647455983218747",
     "quantity": "1.00",
     "price": "5.00"
     "barcodeid": "6647455983218749",
     "quantity": "1.00",
     "price": "15.00"
Return example:
  "sessiontime": "1384476925",
  "success": "1",
  "transactionid": "3312"
}
Returned Parameters:
success
                        Boolean value
transactionid
                        integer value
                        Unix 32-bit integer timestamp
sessiontime
```

terminal\_counter Optional, integer value, if terminal\_id is

provided, that indicates the number of times the terminal ID provided has called the

function.

### sale void

The sale\_void function will reverse items that have been sold to a customer and return the items to inventory. A refund should be used, instead, when the return is not being used to simply fix a mistake.

Parameters:

action variable length text field

transactionid integer value

Example:

```
"API": "4.0",
  "action": "sale_void",
  "transactionid": "3590"
}
```

#### Returned Parameters:

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

# sale\_modify

The sale\_modify function will allow a user to modify the price recorded for a sale. This can be used before filing a monthly report if a line item mistake is noticed and needs to be corrected.

Parameters:

action variable length text field

transactionid integer value

barcodeid inventory identifier

price Decimal value representing the price

paid before any applicable taxes.

item\_number Optional, integer, should be provided

if multiple line items of the same barcode were included in one sale. 0 would represent the first item (in the order submitted to the system), 1 the

next, etc.

sale\_time Optional, unix 32-bit integer

timestamp of when the sale occurred. If not used, will default to current time. Otherwise, the time must not be in the future and, also, must not

be in a locked tax period.

Example:

```
{
  "API": "4.0",
  "action": "sale_modify",
  "transactionid": "3590",
  "barcodeid": "6647455983218749",
  "price": "15.00"
}
```

Returned Parameters:

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

### sale refund

The sale\_refund function is nearly identical to sale\_dispense except that it for items to selectively come back into inventory from a sale. This can take place at any time period after the original sale and will reflect on current sales as opposed to affecting previously reported data. You must specify both a transactionid and one or more identifiers. Retailers are not currently allowed by rule to destroy product, so if an open item is received it must be scheduled for transfer back to the processor for destruction.

Parameters:

action variable length text field

```
transactionid
                                integer value
data
                                Array of 1 or more nodes containing
                                inventory information
 barcodeid
                                inventory identifier
 quantity
                                integer value, quantity to bring in.
                                Negative decimal value representing
 price
                                the price paid before any applicable
                                taxes.
 item_number
                                Optional, integer, should be provided
                                if multiple line items of the same
                                barcode were included in one sale. 0
                                would represent the first item (in the
                                order submitted to the system), 1 the
                                next, etc.
sale_time
                                Optional, unix 32-bit integer
                                timestamp of when the sale occurred.
                                If not used, will default to current
                                time. Otherwise, the time must not
                                be in the future and, also, must not
                                be in a locked tax period.
Example:
{
  "API": "4.0",
  "action": "sale_refund",
  "transactionid": "3590",
  "data": [
     "barcodeid": "6647455983218747",
     "quantity": "1.00",
     "price": "-5.00"
     "barcodeid": "6647455983218749",
     "quantity": "1.00",
     "price": "-15.00"
```

```
}
]
}
```

```
Return example:
{

"sessiontime": "1384476925",

"success": "1",

"transactionid": "3312"
}
```

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

## card\_lookup

The card\_lookup function will allow a dispensary to validate a card holder's eligibility in the system. This function will return an ephemeral key that will be valid for 1 hour from issuance and must be provided to the sale\_dispense function for that specific patient. A caregiver card is not required if the patient is purchasing on their own. If a caregiver is performing the purchase, then both fields are required. If the patient is a minor, then only the caregiver card should be provided.

#### Parameters:

```
action variable length text field variable length text field variable length text field variable length text field variable length text field
```

### Example:

```
{
    "API": "4.0",
    "action": "card_lookup",
```

```
"card_id": "QP.55553547",
    "caregiver_card_id": "CG.55553548"
}

Return example:

{
    "card_key":
"dbf06eda1572c8e3c90d951ed9b5b14c32096570a7a902f8120
a0b006b90c7df131ed2c8105ebbe5f9681f1537739e1969bf3ab
684ca20864023a46830509242",
    "success": "1"
}

Returned Parameters:
success
Boolean value
card_key
128 character hexadecimal key
```

# **Chapter 7: Finance**

#### In this chapter, you'll learn how to:

Confirm a monthly tax obligation report

### tax\_obligation\_file

After the system collects sales information over the course of a month, a licensee will be able to confirm their records with what is stored in the traceability system and track down any discrepancies.

Parameters:
action variable length text field location license number of location

gross\_sales decimal value representing all sales excise\_tax decimal value representing amount

believed to be owed

month integer value, 1 (Jan) – 12 (Dec)

year integer value

verify Boolean value. If set to true, the

system will kick back an error instead

of proceeding.

```
{
    "API": "4.0",
    "action": "tax_obligation_file",
    "excise_tax": "553.75",
    "gross_sales": "2215.00",
    "location": "18750",
    "month": "1",
    "verify": "1",
    "year": "2014"
}
```

### Returned Parameters:

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

total\_sales decimal value representing total sales before

any applicable taxes.

excise\_tax decimal value representing the calculated

excise tax due.

# **Chapter 8: Synchronization**

#### In this chapter, you'll learn how to:

- Replay a transaction's results.
- ✓ Download current plants, inventory, etc. stored in traceability system
- Receive notifications of inventory seizures, etc.
- Assist a licensee transition from the state interface to a commercial application

### nonce\_replay

The system allows for a nonce value to be embedded in any request in which data is being saved. This is a user-defined value that should be unique for every request. It is the integrator's responsibility, should they choose to utilize this functionality, to ensure this. Should the integrator re-use a token, and later request a replay of the results; the system will only return the last result for said token. For simplicity, a user may include a nonce value in non-transactional requests; they will be silently ignored. The system will only store data for which a transaction id is returned. Therefore, if the submitted data was non-transactional or produced an error, replay data would be unavailable and a request for said nonce would simply return a not found error.

To embed a nonce value, simply encode said value into a standard request. For example, one might call the inventory\_new function as:

```
{
  "API": "4.0",
  "action": "inventory_new",
  "data": {
      "invtype": "12",
      "quantity": "50",
      "strain": "Blueberry"
    },
  "location": "12345",
  "nonce": "2ebf8a5981651d7403a40a3a4f710551afab"
}
```

The results of said request would be returned, as usual. However, the results will now be accessible at any future point with the nonce\_replay function.

To execute such a request:

```
Parameters:
action variable length text field
nonce variable length user-defined text field

{
    "API": "4.0",
    "action": "nonce_replay",
    "nonce": "2ebf8a5981651d7403a40a3a4f710551afab"
}
```

### Returned Parameters:

Variable

An error will be returned if the nonce value can't be found. Otherwise, the successful results of the original request will be returned. If the specified nonce was not found; it is therefore safe to assume the data was not committed and may be submitted again.

The system will return the data in whatever format the ORIGINAL request was performed in. That is, if the original request was made with JSON, and the nonce\_replay was performed in XML, the data from the replay will always be returned in JSON (ensuring the replay is always exact and not otherwise re-filtered, processed, etc.).

This functionality is optional, but can be used in cases where a successful request is made but the response not received. For example, if an integrator makes a request, the request is received and acted upon but the end-client disconnects before receiving the response (e.g. loses internet connection); the end-client's system would be considered in an inconsistent state. The end-client would, of course, not want to simply call the function again (e.g. another call to inventory\_new might then produce double the inventory). In this way, an integrator can essentially create a psuedo two-phase commit behind the scenes as demonstrated by the following (example) steps:

- 1. Client submits data.
- 2. Software integrator stores submitted data locally immediately before submission and toggles the data as incomplete.
- 3. Connection is established to server, the data is successfully received, but the connection is interrupted and software throws an error stating such before receiving return data.

- 4. Client attempts to re-submit data.
- 5. Software recognizes the user is attempting to submit a request that already exists but is toggled as incomplete.
- 6. Software attempts a replay, instead, with the associated nonce value.
- 7. Server returns data from original request, the software parses the result, toggles the original data submission as complete, and commits the data locally.
- 8. Client receives expected results from software (e.g. new barcodes) unaware and unaffected by issues at the lower layers.

### sync\_check

The sync\_check function is the canonical function for synchronization. As indicated throughout this text; the system uses identification numbers for all transactional data received (via the transactionid). This function allows an integrator to determine if the summation of the transactions they have recorded what is currently stored within the traceability system. It can be used to either compare local value to remote values; or it can be used to simultaneously compare and download data that does not match. As these functions are comparing raw data tables the integrator should expect them returned as such.

The data tables can be queried on their own via a specific call directly without doing a summation check or through this function. The direct calls will be detailed later in the chapter.

The consistency check involves, at a minimum, providing a table. An integrator can also provide a start transaction (inclusive), an end transaction (inclusive), a sum value and whether or not only active data points are considered. More on this below.

There are currently 18 tables which can be queried: vehicle, employee, plant\_room, inventory\_room, inventory, plant, plant\_derivative, manifest, inventory\_transfer, inventory\_transfer\_inbouns, sale, tax\_report, inventory\_adjust, inventory\_qa\_sample, vendor, qa\_lab, and third\_party\_transporter.

#### **Data Tables**

vehicle

This contains vehicle information as previously submitted. It is UBI specific (as opposed to license specific) and can be queried with all records or only active ones.

#### employee

This contains employee information as previously submitted. It is UBI specific (as opposed to license specific) and can be queried with all records or only active ones.

plant\_room

This contains plant room information as previously submitted. It is license specific and can be queried with all records or only active ones.

#### inventory\_room

This contains inventory room information as previously submitted. It is license specific and can be queried with all records or only active ones.

#### inventory

This contains inventory information as previously submitted. It is license specific and can be queried with all records or only active ones. Active records are considered to be inventory that has not been moved into cultivation, zeroed or destroyed.

#### plant

This contains plant information as previously submitted. It is license specific and can be queried with all records or only active ones. Active records are considered to be plants that have not been destroyed or moved into inventory.

#### plant\_derivative

This contains plant yield information as previously submitted. It is license specific and can be queried with all records or only active ones.

#### manifest

This contains manifest information as previously submitted. It is license specific and can be queried with all records or only active ones.

### inventory\_transfer

This contains inventory transfer information as previously submitted. It is license specific and can be queried with all records or only active ones.

#### inventory\_transfer\_inbound

This contains inbound inventory transfer information as previously received and submitted. It is license specific and can be queried with all records or only active ones.

#### sale

This contains end-customer sale information as previously submitted. It is license specific and can be queried with all records or only active ones.

#### tax\_report

This contains tax obligation report information as previously submitted. It is license specific and can be queried with all records or only active ones.

#### inventory\_adjust

This contains all inventory adjustment information. It is useful for retrieving historical data and should not be necessary in most scenarios. This function will only return active entries.

### inventory\_qa\_sample

This contains basic quality assurance sample information as previously submitted. It is license specific and can be queried with all records or only active ones. As QA derived samples receive their own identifier; this list can be used to cross-reference said samples currently (or previously) in inventory.

#### inventory\_sample

This contains all inventory samples that have been provided to either employees or to other vendors as samples for negotiation.

#### vendor

This contains all active vendor information (sans phone numbers).

### qa\_lab

This contains all active quality assurance lab information (sans phone numbers).

#### third\_party\_transporter

This contains all active third party transporter information.

#### Parameters:

action variable length text field download integer value of 0 or 1

data Array of 1 or more nodes containing

synchronization information

table data table to be queried

transaction\_start Optional, minimum transactionid

(inclusive) to compare sums with.

transaction\_end Optional, maximum transactionid

(inclusive) to compare sums with.

Optional, summation of sum transactionid values the client side possesses. active Optional, indicates only active records should be returned. Example: { "API": "4.0", "action": "sync\_check", "data": { "table": "vehicle", "transaction\_start": "0", "transaction\_end": "5", "sum": "15" } Returned Parameters: Boolean value success summary Array of 1 or more nodes containing match information. match Boolean value that indicates whether the sum was matched by the server. Integer value indicating the server sum. This sum value will be the same as provided if match is 1. This value will indicate the correct summation if match is 0. table The name of the table that was checked. As this function allows for multiple tables to be checked simultaneously; this will allow an integrator to identify the return values when more than one table is provided.

```
"success": "1",
    "summary": {
        "match": "1",
        "sum": "15",
        "table": "vehicle"
     }
}
```

The additional functions outlined in this chapter will provide examples for what an integrator can expect in terms of specific returned data when download is set to 1. The system will query all transactions available (as indicated by the active constraint) when start and end transaction values are not provided. The system will assume an integrator is simply querying for the sum if no sum is provided to check against and download is set to 0. If download is set to 1; the system will return all matching rows for the transaction range specified.

# sync\_vehicle

The sync\_vehicle function will allow a user to synchronize vehicle data as previously submitted.

Parameters:

action variable length text field transaction\_start Optional, integer that indicates the

first transactionid of interest

transaction\_end Optional, integer that indicates the

last transactionid of interest
active Optional, boolean value that
indicates whether or not to only

return non-deleted records

```
Example:
{
    "API": "4.0",
    "action": "sync_vehicle"
}
```

### Returned Parameters:

success Boolean value

vehicle Array of 1 or more nodes that include all of

the relevant data

Variable length text field that describes the nickname

nickname of the vehicle

Variable length text field that describes the color

color of the vehicle

make Variable length text field that describes the

make of the vehicle

model Variable length text field that describes the

model of the vehicle

Variable length text field that describes the plate

plate number of the vehicle

vin Variable length text field that describes the

VIN of the vehicle

Integer, user provided, that vehicle\_id uniquely

identifies the vehicle

Integer that describes the year of the vehicle year deleted

Boolean (0/1) value that indicates whether

or not the vehicle is active

transactionid Integer, this is the last transactionid value

applied to this vehicle. This is updated upon

every successful modification.

transactionid\_original Integer, this is the first transactionid value

> received from creation of this vehicle. This will not change with respect to modification,

removal, etc.

```
"vehicle": [
  "color": "Red",
  "deleted": "1",
  "make": "Ford",
```

```
"model": "Ranger",
  "nickname": "Red Ford",
  "plate": "23q3432",
  "transactionid": "4069",
  "transactionid_original": "4068",
  "vehicle_id": "28",
  "vin": "234342423",
  "year": "1983"
  "color": "Black",
  "deleted": "0",
  "make": "Ford",
  "model": "Mustang",
  "nickname": "My Ford",
  "plate": "123501",
  "transactionid": "4912",
  "transactionid_original": "4912",
  "vehicle_id": "28",
  "vin": "18384955",
  "year": "2000"
"success": "1"
```

### sync\_employee

The sync\_employee function will allow a user to synchronize employee data as previously submitted.

### Parameters:

action variable length text field
transaction\_start Optional, integer that indicates the
first transactionid of interest
transaction\_end Optional, integer that indicates the
last transactionid of interest
optional, boolean value that
indicates whether or not to only
return non-deleted records

```
Example:
  "API": "4.0",
  "action": "sync_employee"
Returned Parameters:
success
                         Boolean value
employee
                         Array of 1 or more nodes that include all of
                         the relevant data
 birthday
                         Integer that describes the birth day of the
                         employee
 birthmonth
                         Integer that describes the birth month of the
                         employee
 birthyear
                         Integer that describes the birth year of the
                         employee
 hireday
                         Integer that describes the hire day of the
                         employee
 hiremonth
                         Integer that describes the hire month of the
                         employee
 hireyear
                         Integer that describes the hire year of the
                         employee
 employee_id
                         Integer, user provided,
                                                     that
                                                           uniquely
                         identifies the employee
 employee_name
                         Name of the employee
```

deleted Boolean (0/1) value that indicates whether

or not the employee is active

transactionid Integer, this is the last transactionid value

applied to this line item. This is updated

upon every successful modification.

transactionid\_original Integer, this is the first transactionid value

> received from creation of this line item. This will not change with respect to modification,

removal, etc.

### Return example:

{

```
"employee": [
  "birthday": "01",
  "birthmonth": "02",
  "birthyear": "1980",
  "deleted": "0",
  "employee_id": "12384",
  "employee_name": "new Guy",
  "hireday": "23",
  "hiremonth": "12",
  "hireyear": "2013",
  "transactionid": "3570",
  "transactionid_original": "3570"
 },
  "birthday": "01",
  "birthmonth": "01",
  "birthyear": "1980",
  "deleted": "0",
  "employee_id": "123467",
  "employee_name": "Test",
  "hireday": "03",
  "hiremonth": "03",
  "hireyear": "2014",
  "transactionid": "3946",
  "transactionid_original": "3946"
"success": "1"
```

### sync\_plant\_room

The sync\_plant\_room function will allow a user to synchronize cultivation room data as previously submitted.

Parameters:

action transaction\_start

variable length text field Optional, integer that indicates the first transactionid of interest transaction\_end Optional, integer that indicates the last transactionid of interest optional, boolean value that indicates whether or not to only

return non-deleted records

```
Example:
{
    "API": "4.0",
    "action": "sync_plant_room"
}
```

#### Returned Parameters:

success Boolean value

plant\_room Array of 1 or more nodes that include all of

the relevant data

roomid Integer, user provided, that uniquely

identifies the cultivation room

name Variable length text field that identifies the

name of the cultivation room

deleted Boolean (0/1) value that indicates whether

or not the cultivation room is active

location license number of the location the room was

created in

transactionid Integer, this is the last transactionid value

applied to this line item. This is updated

upon every successful modification.

transactionid\_original Integer, this is the first transactionid value

received from creation of this line item. This will not change with respect to modification,

removal, etc.

```
"deleted": "0",
    "location": "18750",
    "name": "Default",
    "roomid": "1",
    "transactionid": "4075",
    "transactionid_original": "4070"
},
{
    "deleted": "0",
    "location": "18750",
    "name": "Clone Room 1",
    "roomid": "7",
    "transactionid": "4081",
    "transactionid_original": "4081"
}
],
    "success": "1"
```

# sync\_inventory\_room

The sync\_inventory\_room function will allow a user to synchronize inventory room data as previously submitted.

### Parameters:

action variable length text field transaction\_start Optional, integer that indicates the

first transactionid of interest

transaction\_end Optional, integer that indicates the

last transactionid of interest Optional, boolean value that indicates whether or not to only

return non-deleted records

Example:

active

{ "API": "4.0",

```
"action": "sync_inventory_room"
Returned Parameters:
                         Boolean value
success
inventory_room
                         Array of 1 or more nodes that include all of
                         the relevant data
                         Integer, user provided,
 roomid
                                                     that uniquely
                         identifies the inventory room
                         Variable length text field that identifies the
 name
                         name of the inventory room
 deleted
                         Boolean (0/1) value that indicates whether
                         or not the inventory room is active
                         Boolean (0/1) value that indicates whether
 quarantine
                         or not the inventory room has been
                         designated as a quarantine room
 location
                         license number of the location the room was
                         created in
 transactionid
                         Integer, this is the last transactionid value
                         applied to this line item. This is updated
                         upon every successful modification.
```

transactionid\_original Integer, this is the first transactionid value

received from creation of this line item. This will not change with respect to modification,

removal, etc.

```
"inventory_room": [

{
    "deleted": "0",
    "location": "18750",
    "name": "Quarantine",
    "quarantine": "1",
    "roomid": "1",
    "transactionid": "4032",
    "transactionid_original": "4032"
```

# sync\_inventory

The sync\_inventory function will allow a user to synchronize inventory data as previously submitted.

Parameters:

action variable length text field

transaction\_start Optional, integer that indicates the

first transactionid of interest

transaction\_end Optional, integer that indicates the

last transactionid of interest

active Optional, boolean value that

indicates whether or not to only

return non-deleted records

Example:

```
"API": "4.0",
   "action": "sync_inventory"
}
```

Returned Parameters:

success Boolean value

inventory Array of 1 or more nodes that include all of

the relevant data

currentroom Integer, user provided, that uniquely

identifies the inventory room the item is currently in. Can be null to indicate the Bulk

Inventory room.

deleted Boolean (0/1) value that indicates whether

or not the inventory item still exists.

id 16 digit barcode identifier

inventoryparentid Array of 1 or more 16 digit identifiers that

identify the identifier(s) this item is descended from with respect to QA testing eligibility. That is, if a lot (eligible for testing) is sublotted many times over, this will always

be the original lot number.

inventorystatus Integer, status identifier of the inventory.

Can be null, 1 (scheduled for destruction), 2 (scheduled for transport) or 3 (in-transport

but not yet received).

inventorystatustime Unix 32-bit integer timestamp of when the

non-null status was added.

inventorytype Inventory type of the item

location license number of the location the inventory

currently exists in.

parentid Array of 1 or more 16 digit direct inventory

parent identifiers. If an item is sublotted, this would be the inventory id the item was

sublotted from.

plantid Array of 1 or more 16 digit plant identifiers.

When an item is harvested and placed into inventory (e.g. inventory type 6), this will indicate the plant(s) the item was harvested

from.

productname Variable length text field

remaining\_quantity Decimal value, quantity currently available

seized If the item has been seized, this field will

indicate 1.

sessiontime Unix 32-bit integer timestamp of when the

item was inserted.

source\_id 16 digit identifier of the mother plant, if the item was created directly from one (e.g. clone). strain Variable length text field transactionid Integer, this is the last transactionid value applied to this line item. This is updated upon every successful modification. transactionid\_original Integer, this is the first transactionid value received from creation of this line item. This will not change with respect to modification, removal, etc. usable\_weight Decimal value that, for non-weighable inventory types (e.g. usable marijuana type 28), will indicate the pre-package value. For any weighable types (e.g. type 13 flower lot), this field will indicate the original quantity of the item when created. If the item was collected during harvest and wet not cure (e.g. other material type 9), it will be considered wet and can be adjusted for reason type 5. Decimal value that defines the net package net\_package weight or volume. is\_sample Optional integer value, 1 if the inventory item is a sample intended for a vendor. is\_medical Optional integer value, 1 if the inventory item has been designated as a medical product.

```
{
   "inventory": [
      {
        "deleted": "0",
        "id": "6902364819540939",
        "inventorytype": "6",
        "location": "18750",
```

```
"plantid": "3749713237156948",
  "remaining_quantity": "250.00",
  "sessiontime": "1405844163",
  "strain": "Blueberry",
  "transactionid": "4861",
  "transactionid_original": "4861",
  "usable_weight": "250.00",
  "wet": "0",
  "net_package": "100.00"
  "deleted": "0",
  "id": "0000000090000190",
  "inventoryparentid": "0000000090000190",
  "inventorytype": "13",
  "location": "18750",
  "parentid": "0008595315708336",
  "remaining_quantity": "139.00",
  "sessiontime": "1405844196",
  "strain": "Blueberry",
  "transactionid": "4862",
  "transactionid_original": "4862",
  "usable_weight": "240",
  "wet": "0",
  "net_package": "50.00"
"success": "1"
```

### sync\_plant

The sync\_plant function will allow a user to synchronize plant data as previously submitted.

Parameters:

action variable length text field

transaction\_start Optional, integer that indicates the

first transactionid of interest

transaction\_end Optional, integer that indicates the

last transactionid of interest

active Optional, boolean value that

indicates whether or not to only

return non-deleted records

Example:

```
{
    "API": "4.0",
    "action": "sync_plant"
}
```

Returned Parameters:

success Boolean value

plant Array of 1 or more nodes that include all of

the relevant data

converted Boolean (0/1) value that indicates whether

or not the plant was converted to a sellable clone (and thus removed from cultivation for

that reason)

harvestcollect The number of times the plant has been

harvested. Null indicates it has not been

harvested yet.

curecollect The number of times the plant has been

cured. Null indicates it has not been cured

yet.

deleted Boolean (0/1) value that indicates whether

or not the plant still exists.

deletetime If the plant has been destroyed, this field will

indicate the unix 32-bit integer timestamp of

the destruction.

id 16 digit barcode identifier

harvestscheduled Boolean (0/1) value that indicates whether

or not the plant has been scheduled for

harvest.

harvestscheduletime If the plant has been scheduled for harvest,

this field will indicate the unix 32-bit integer

timestamp of when the item was scheduled for harvest (there is currently no waiting period; so it will be the time the notification

was sent across).

location license number of the location the plant is

located in.

mother Boolean (0/1) value that indicates whether

or not the plant is tagged as a mother plant.

parentid 16 digit identifier that was the inventory

source for the current plant

removereason Variable length text field that will be non-null

if the plant has been scheduled for

destruction.

removescheduled Boolean (0/1) value that indicates whether

or not the plant has been scheduled for

destruction.

removescheduletime If the plant has been scheduled for

destruction, this field will indicate the unix 32-bit integer timestamp of when the item is eligible, at a minimum, for actual destruction (after a destruction has been scheduled, this

will be 72 hours from that time).

room Integer value, user provided, of the room the

plant is currently in. If the plant has been destroyed or harvested, it will represent the

last room it occupied.

seized If the item has been seized, this field will

indicate 1.

sessiontime Unix 32-bit integer timestamp of the birth

date of the plant.

state Integer value occupying either a 0 (currently

growing), 1 (currently drying) or 2 (fully cured and no longer in the cultivation area). Plants with state 2 will not be displayed in a

request only interested in active plants.

strain Variable length text field

transactionid Integer, this is the last transactionid value

applied to this line item. This is updated

upon every successful modification.

transactionid\_original

Integer, this is the first transactionid value received from creation of this line item. This will not change with respect to modification, removal, etc.

### Return example:

```
"plant": {
   "converted": "0",
   "deleted": "0",
   "id": "6038749231561918",
   "harvestscheduled": "0",
   "location": "18750",
   "mother": "0",
   "parentid": "0000000090000177",
   "removescheduled": "0",
   "room": "64".
   "sessiontime": "1405464324",
   "state": "0",
   "strain": "AK-47",
   "transactionid": "4815",
   "transactionid_original": "4815"
}
```

### sync\_plant\_derivative

The sync\_plant\_derivative function will allow a user to synchronize plant derivative data (wet and dry weights) as previously submitted.

Parameters:

action variable length text field

transaction\_start Optional, integer that indicates the

first transactionid of interest

transaction\_end Optional, integer that indicates the

last transactionid of interest

active Optional, boolean value that indicates whether or not to only

return non-deleted records

Example:

```
"API": "4.0",
  "action": "sync_plant_derivative"
}
```

Returned Parameters:

success Boolean value

plant\_derivative Array of 1 or more nodes that include all of

the relevant data

harvestcollect Will be set to 1 if this collection occurred

during a harvest (wet) point.

curecollect Will be set to 1 if this collection occurred

during a cure (dry) point.

deleted Boolean (0/1) value that indicates whether

or not the derivative still exists.

plantid 16 digit barcode identifier of the plant

location license number of the location the derivative

was collected in.

inventorytype Inventory type of the derivative item.

weight Decimal value of the weight recorded for the

specific inventory type.

wholeweight If a plant was harvested/cured as a group,

this would indicate the overall weight of the group being collected (whereas the weight field will indicate the individual weight). If a harvest is done on an individual basis, this

will be the same as weight.

room Integer value, user provided, of the room the

plant was in when the action occured.

inventoryid 16 digit identifier of the derivative

sessiontime Unix 32-bit integer timestamp of the

collection time of the plant.

collectadditional Boolean (0/1) value that indicates whether

or not the collection point was requested with additional collection points (re-

flowering).

transactionid Integer, this is the last transactionid value

applied to this line item. This is updated

upon every successful modification.

transactionid\_original Integer, this is the first transactionid value

received from creation of this line item. This will not change with respect to modification,

removal, etc.

### Return example:

```
"plant_derivative": {
    "collectadditional": "0",
    "deleted": "0",
    "inventoryid": "6902364819540939",
    "inventorytype": "6",
    "location": "18750",
    "plantid": "3749713237156948",
    "room": "5",
    "sessiontime": "1405844163",
    "transactionid": "4861",
    "transactionid_original": "4861",
    "weight": "250",
    "wholeweight": "250.00"
    },
    "success": "1"
}
```

### sync\_manifest

The sync\_manifest function will allow a user to synchronize manifest data as previously submitted.

Parameters:

action variable length text field

transaction\_start Optional, integer that indicates the

first transactionid of interest

transaction\_end Optional, integer that indicates the

last transactionid of interest

active Optional, boolean value that

indicates whether or not to only return non-deleted records

Example:

```
{
    "API": "4.0",
    "action": "sync_manifest"
}
```

#### Returned Parameters:

success Boolean value

manifest Array of 1 or more nodes that include the

high level relevant data of submitted

manifests

manifestid 16 digit manifest identifier

sessiontime Unix 32-bit integer timestamp of the time the

manifest was filed.

completion\_date Unix 32-bit integer timestamp of the time the

manifest was filed (duplicate of sessiontime

kept for backward compatibility).

stopcount Integer value indicating the number of stops

on the manifest.

deleted Boolean (0/1) value that indicates whether

or not the manifest has been voided.

location license number of the location the manifest

was filed from

origination\_city Variable length text field of the city the

manifest originates from

origination\_license\_number Variable length text field of the license

number the manifest originates from

origination\_name Variable length text field of the name of the

licensee the manifest originates from

origination_phone	Variable length text field of the phone number of the licensee the manifest originates from
origination_state	Variable length text field of the state the manifest originates from
origination_street	Variable length text field of the street the manifest originates from
origination_zip	Variable length text field of the zip the manifest originates from
total_item_count	Integer value indicating the number of items on the manifest.
transporter_dob	Variable length text field of the birthdate of the employee transporting the product.
transporter_id	Integer, identification number of the employee transporting the product.
transporter_name	Variable length text field of the name of the employee transporting the product.
transporter_vehicle_det	rails Variable length text field of the vehicle transporting the product.
transporter_vehicle_ide	ntification Variable length text field of the VIN.
transactionid	Integer, this is the last transactionid value applied to this line item. This is updated upon every successful modification.
transactionid_original	Integer, this is the first transactionid value received from creation of this line item. This will not change with respect to modification, removal, etc.
manifest_type	Integer, 0 for regular manifests 1 for pick-u manifests, 2 for third party manifests.
manifest_fully_complet	- · ·
third_party_license_numl	, , , , , , , , , , , , , , , , , , ,
manifest_stop_data	Array of 1 or more nodes that include the stop level data of submitted manifests
sessiontime	Unix 32-bit integer timestamp of the time the manifest was filed.

manifestid 16 digit manifest identifier

arrive\_time Unix 32-bit integer timestamp of the

approximate time the items are expected to

arrive at their destination

city Variable length text field that indicates the

city of the stop destination

depart\_time Unix 32-bit integer timestamp of the

approximate departure time

item\_count Integer value indicating the number of items

for the specified stop.

license\_number License number of specific stop destination.

location license number of the location the manifest

was filed from

name Variable length text field that indicates the

name of the stop destination

phone Variable length text field that indicates the

phone of the stop destination

state Variable length text field that indicates the

state of the stop destination

street Variable length text field that indicates the

street of the stop destination

zip Variable length text field that indicates the

zip of the stop destination

travel\_route Variable length text field that indicates the

route of travel as filed.

stopnumber Integer value indicating the stop number on

the manifest.

transactionid Integer, this is the last transactionid value

applied to this line item. This is updated

upon every successful modification.

transactionid\_original Integer, this is the first transactionid value

received from creation of this line item. This will not change with respect to modification,

removal, etc.

deleted Boolean (0/1) value that indicates whether

or not the stop has been voided.

item level data of submitted manifests

sessiontime Unix 32-bit integer timestamp of the time the

manifest was filed.

description Variable length text field that describes the

item being transported.

manifestid 16 digit manifest identifier

inventoryid 16 digit barcode identifier of the item being

transported.

quantity Decimal value indicating the number of units

of the specified item.

location license number of the location the manifest

was filed from

stopnumber Integer value indicating the stop number on

the manifest.

requiresweighing (Deprecated) Integer value indicating if the

item is a weighable item. This field remains for backward-compatibility. An integrator should rely on the inventory type for determining whether or not an inventory

item requires weighing.

transactionid Integer, this is the last transactionid value

applied to this line item. This is updated

upon every successful modification.

transactionid\_original Integer, this is the first transactionid value

received from creation of this line item. This will not change with respect to modification,

removal, etc.

deleted Boolean (0/1) value that indicates whether

or not the item has been voided.

```
"manifest": {
  "completion_date": "1389796859",
  "deleted": "0",
  "fulfilled": "1",
  "location": "18750",
  "manifestid": "3692253654269107",
  "origination_city": "Seattle",
  "origination_license_number": "189",
  "origination_name": "Trade 24",
```

```
"origination_phone": "222-333-4444",
 "origination_state": "WA",
"origination_street": "2135 Address Way",
"origination_zip": "98101",
"sessiontime": "1389192059",
 "stopcount": "1",
"total_item_count": "1",
 "transactionid": "9821",
"transactionid_original": "9821",
 "transporter_dob": "01/01/1980",
 "transporter_id": "23486",
 "transporter_name": "New Employee",
"transporter_vehicle_details": "Black Chevy Cavalier 23856",
 "transporter_vehicle_identification": "32495954656"
},
"manifest_stop_data": {
 "arrive_time": "1389886803",
 "city": "Tacoma",
"depart_time": "1389885003",
 "item_count": "1",
 "license number": "11111",
 "location": "18750",
 "manifestid": "3692253654269107",
 "name": "Some Retail Location",
 "phone": "444-555-6666",
 "sessiontime": "1389796859",
 "state": "WA",
 "stopnumber": "1",
 "street": "22993 New Road Way",
"transactionid": "9821",
"transactionid_original": "9821",
 "travel_route": "Head southwest.",
 "zip": "98295",
 "deleted": "0"
"manifest_stop_items": {
"description": "Usable Marijuana",
 "inventoryid": "0000000090000033",
"location": "18750",
 "manifestid": "3692253654269107",
```

```
"quantity": "15.00",
    "sessiontime": "1389796859",
    "stopnumber": "1",
    "transactionid": "9821",
    "transactionid_original": "9821",
    "deleted": "0"
    },
    "success": "1"
}
```

# sync\_inventory\_transfer

The sync\_inventory\_transfer function will allow a user to synchronize inventory transfer data as previously submitted.

#### Parameters:

action variable length text field

transaction\_start Optional, integer that indicates the

first transactionid of interest

transaction\_end Optional, integer that indicates the

last transactionid of interest

active Optional, boolean value that

indicates whether or not to only

return non-deleted records

### Example:

```
"API": "4.0",
  "action": "sync_inventory_transfer"
}
```

### Returned Parameters:

success Boolean value

inventory\_transfer Array of 1 or more nodes that include all of

the relevant data

deleted Boolean (0/1) value that indicates whether

or not the transfer has been voided.

inventoryid 16 digit barcode identifier of the item being

transported.

inventorytype Inventory type of the item.

is\_refund Boolean (0/1) value that indicates whether

or not the transfer is a refund.

manifestid 16 digit manifest identifier attached to the

transfer.

manifest\_stop Stop number on the manifest.

sessiontime Unix 32-bit integer timestamp of the time the

transfer was initiated.

location license number of the location the transfer

was initiated from.

outbound license license number of the location the transfer

was initiated from.

price Decimal value indicating the total dollar

amount received for the line item.

quantity Decimal value indicating the total quantity of

the item shipped.

strain Variable length text field

transactionid Integer, this is the last transactionid value

applied to this line item. This is updated

upon every successful modification.

transactionid\_original Integer, this is the first transactionid value

received from creation of this line item. This will not change with respect to modification,

removal, etc.

```
"inventory_transfer": {
    "deleted": "1",
    "inventoryid": "0000000090000191",
    "inventorytype": "28",
    "location": "18750",
    "manifest_stop": "1",
    "manifestid": "3387557157087693",
    "outbound_license": "18750",
```

```
"price": "1000.00",
"quantity": "50",
"sessiontime": "1405844437",
"strain": "Blueberry",
"transactionid": "4918",
"transactionid_original": "4918"
},
"success": "1"
```

# sync\_inventory\_transfer\_inbound

The sync\_inventory\_transfer\_inbound function will allow a user to synchronize inbound inventory transfer data that as previously received and submitted.

#### Parameters:

action variable length text field

transaction\_start Optional, integer that indicates the

first transactionid of interest

transaction\_end Optional, integer that indicates the

last transactionid of interest

active Optional, boolean value that

indicates whether or not to only

return non-deleted records

### Example:

```
{
    "API": "4.0",
    "action": "sync_inventory_transfer_inbound"
}
```

#### Returned Parameters:

success Boolean value

inventory\_transfer\_inbound Array of 1 or more nodes that include

all of the relevant data

deleted Boolean (0/1) value that indicates whether

or not the transfer has been voided.

inventoryid 16 digit barcode identifier of the item being

transported.

inventorytype Inventory type of the item.

is\_refund Boolean (0/1) value that indicates whether

or not the transfer is a refund.

manifestid 16 digit manifest identifier attached to the

transfer.

manifest\_stop Stop number on the manifest.

sessiontime Unix 32-bit integer timestamp of the time the

transfer was received.

location license number of the location the transfer

was received to.

outbound\_license license number of the location the transfer

was transferred from.

price Decimal value indicating the total dollar

amount transferred out for the line item.

quantity Decimal value indicating the total quantity of

the item received.

refund\_amount Decimal value indicating the total dollar

amount of the refund, if the line item is a

refund.

strain Variable length text field

transactionid Integer, this is the last transactionid value

applied to this line item. This is updated

upon every successful modification.

transactionid\_original Integer, this is the first transactionid value

received from the inbound transfer of this line item. This will not change with respect

to modification, removal, etc.

```
"inventory_transfer_inbound": {
   "deleted": "1",
   "inventoryid": "0000000090000191",
   "inventorytype": "28",
   "is_refund": "1",
   "location": "18750",
   "manifest_stop": "1",
   "manifestid": "3387557157087693",
   "outbound_license": "18751",
```

```
"price": "0.00",
    "quantity": "50",
    "refund_amount": "50.00",
    "sessiontime": "1405844437",
    "strain": "Blueberry",
    "transactionid": "4919",
    "transactionid_original": "4918"
    },
    "success": "1"
}
```

### sync\_sale

The sync\_sale function will allow a user to synchronize sale data as previously submitted.

#### Parameters:

action variable length text field

transaction\_start Optional, integer that indicates the

first transactionid of interest

transaction\_end Optional, integer that indicates the

last transactionid of interest

active Optional, boolean value that

indicates whether or not to only

return non-deleted records

### Example:

```
{
    "API": "4.0",
    "action": "sync_sale"
}
```

### Returned Parameters:

success Boolean value

sale Array of 1 or more nodes that include all of

the relevant data

deleted Boolean (0/1) value that indicates whether

or not the sale has been voided.

inventoryid 16 digit barcode identifier of the item being

sold.

itemnumber Item number, as provided by the integrator,

that uniquely identifies the line item for the

specific sale.

sessiontime Unix 32-bit integer timestamp of the time the

sale was performed.

location license number of the location the sale was

initiated from.

price Decimal value indicating the total dollar

amount received for the line item.

quantity Decimal value indicating the total quantity of

the item sold.

refunded Indicates if the item has been refunded. Can

be null or set to 1 if it was refunded.

transactionid Integer, this is the last transactionid value

applied to this line item. This is updated

upon every successful modification.

transactionid\_original Integer, this is the first transactionid value

received from creation of this line item. This will not change with respect to modification,

removal, etc.

terminal\_id User-defined text field, when provided.

inventorytype Inventory type of the sale.

is\_medical Optional integer, indicates if the sale was

flagged as a medical sale.

card\_number Optional, if a medical sale, the card number

as submitted to the sale\_dispense function.

```
"sale": {
    "deleted": "0",
    "inventoryid": "0000000090000178",
    "itemnumber": "0",
    "location": "18750",
```

```
"price": "8.00",
    "quantity": "1",
    "sessiontime": "1405830081",
    "transactionid": "4857",
    "transactionid_original": "4857",
    "terminal_id": "1"
    },
    "success": "1"
}
```

# sync\_tax\_report

The sync\_tax\_report function will allow a user to synchronize tax obligation report data as previously submitted.

#### Parameters:

action variable length text field

transaction\_start Optional, integer that indicates the

first transactionid of interest

transaction\_end Optional, integer that indicates the

last transactionid of interest

active Optional, boolean value that

indicates whether or not to only

return non-deleted records

### Example:

```
{
    "API": "4.0",
    "action": "sync_tax_report"
}
```

#### Returned Parameters:

success Boolean value

tax\_report Array of 1 or more nodes that include all of

the relevant data

deleted Boolean (0/1) value that indicates whether

or not the report has been voided.

amount\_due Decimal value indicating how much owed.

excise\_tax Decimal value indicating the total excise tax

(should match the amount\_due).

gross\_sales Decimal value indicating the total gross sales

for the time period.

location license number of the location the tax

obligation report was filed for.

month Integer indicating the month the tax

obligation report was filed for (1-12).

year Integer indicating the year the tax obligation

report was filed for.

submit\_time Unix 32-bit integer timestamp of the time the

report was filed.

re\_submit\_time Unix 32-bit integer timestamp of the time the

report was re-filed, if applicable.

time\_start Unix 32-bit integer timestamp of the

beginning time the report is valid for.

time\_end Unix 32-bit integer timestamp of the ending

time the report is valid for.

transactionid Integer, this is the last transactionid value

applied to this line item. This is updated

upon every successful modification.

transactionid\_original Integer, this is the first transactionid value

received from creation of this line item. This will not change with respect to modification,

removal, etc.

# Return example:

```
"success": "1",
"tax_report": {
    "amount_due": "100.00",
    "deleted": "0",
    "excise_tax": "100.00",
    "gross_sales": "400.00",
    "location": "18750",
    "month": "5",
    "submit_time": "1402990546",
    "time_end": "1401595199",
```

```
"time_start": "1398916800",
    "transactionid": "12356",
    "transactionid_original": "12356",
    "year": "2014"
    }
}
```

# sync\_inventory\_adjust

The sync\_inventory\_adjust function will allow a user to synchronize inventory adjustment report data as previously submitted.

#### Parameters:

action variable length text field

transaction\_start Optional, integer that indicates the

first transactionid of interest

transaction\_end Optional, integer that indicates the

last transactionid of interest

### Example:

```
{
    "API": "4.0",
    "action": "sync_inventory_adjust"
}
```

#### Returned Parameters:

success Boolean value

inventory\_adjust Array of 1 or more nodes that include all of

the relevant data

inventoryid 16 digit barcode identifier of the item that

was adjusted.

atype Integer that describes the type of adjustment,

as indicated in the inventory\_adjust function.

sessiontime Unix 32-bit integer timestamp of the time the

adjustment was performed.

location license number of the location the

adjustment was initiated from.

new\_quantity Decimal value indicating the new quantity of

the item.

previous\_quantity Decimal value indicating the previous

quantity of the item.

reason Variable length text field that describes the

reason for adjustment as provided by the

user.

transactionid Integer, this is the last transactionid value

applied to this line item. This is updated

upon every successful modification.

transactionid\_original Integer, this is the first transactionid value

received from creation of this line item. This will not change with respect to modification,

removal, etc.

## Return example:

```
"inventory_adjust": {
    "atype": "4",
    "inventoryid": "0000000090000178",
    "location": "18750",
    "new_quantity": "8.00",
    "previous_quantity": "10",
    "reason": "Testing",
    "sessiontime": "1405829973",
    "transactionid": "4856",
    "transactionid_original": "4856"
},
    "success": "1"
```

# sync\_inventory\_qa\_sample

The sync\_inventory\_qa\_sample function will allow a user to synchronize inventory quality assurance samples as previously submitted.

action variable length text field
transaction\_start Optional, integer that indicates the
first transactionid of interest

transaction\_end Optional, integer that indicates the
last transactionid of interest
active Optional, boolean value that
indicates whether or not to only
return non-deleted records

Example:

Parameters:

```
"API": "4.0",
  "action": "sync_inventory_qa_sample"
}
```

#### Returned Parameters:

success Boolean value

inventory\_qa\_sample Array of 1 or more nodes that include all of

the relevant data

deleted Boolean (0/1) value that indicates whether

or not the sample has been voided.

inventoryid 16 digit barcode identifier of the unique

sample.

parentid 16 digit barcode identifier of the batch or lot

the sample was taken from.

inventorytype Inventory type of the item the sample was

taken from.

lab\_license Integer, license number of the QA laboratory

the sample will be sent to.

sessiontime Unix 32-bit integer timestamp of the time the

sample was taken.

location license number of the location the sample

was initiated from.

quantity Decimal value indicating the quantity of the

sample.

result Integer value that represents the result of the sample. Valid values can be -1 (fail), 0 (untested), 1 (success), 2 (rejected). The intended use of the sample, as indicated sample\_use by the inventory\_qa\_sample function. Variable length text field. strain transactionid Integer, this is the last transactionid value applied to this line item. This is updated upon every successful modification. transactionid\_original Integer, this is the first transactionid value received from creation of this line item. This will not change with respect to modification, removal, etc.

## Return example:

```
"inventory_qa_sample": {
   "deleted": "0",
   "inventoryid": "2891345622130160",
   "inventorytype": "13",
   "lab_license": "123456",
   "location": "18750",
   "parentid": "0000000090000190",
   "quantity": "1.00",
   "result": "1",
   "sample_use": "1",
   "sessiontime": "1405844232",
   "strain": "Blueberry",
   "transactionid": "4863",
   "transactionid_original": "4863"
},
   "success": "1"
```

## sync\_inventory\_sample

The sync\_inventory\_sample function will allow a user to synchronize inventory samples provided to employees or as samples for negotiation, as previously submitted.

Parameters:

action variable length text field

transaction\_start Optional, integer that indicates the

first transactionid of interest

transaction\_end Optional, integer that indicates the

last transactionid of interest

active Optional, boolean value that

indicates whether or not to only

return non-deleted records

Example:

```
{
    "API": "4.0",
    "action": "sync_inventory_sample"
```

#### Returned Parameters:

success Boolean value

inventory\_sample Array of 1 or more nodes that include all of

the relevant data

employee\_id Employee license number, if the sample is an

employee sample.

inventoryid 16 digit barcode identifier of the unique

sample.

sessiontime Unix 32-bit integer timestamp of the time the

sample was taken.

location license number of the location the sample

was initiated from.

quantity Decimal value indicating the quantity of the

sample.

sample\_type Integer value that indicates the type of

sample. Valid values can be 1 (external

vendor) or 2 (employee).

transactionid Integer, this is the last transactionid value

applied to this line item. This is updated

upon every successful modification.

transactionid\_original Integer, this is the first transactionid value

received from creation of this line item. This

```
will not change with respect to modification,
                           removal, etc.
 vendor_license
                           Vendor license number of the sample, if the
                           sample was provided to a vendor.
 sample_inventoryid
                           Inventory ID of the new sample.
Return example:
  "inventory_sample": {
   "inventoryid": "2891345622130160",
   "vendor_license": "123456",
   "location": "18750",
   "quantity": "1.00",
   "sample_type": "1",
    "sessiontime": "1405844232",
    "transactionid": "4863",
    "transactionid_original": "4863"
  "success": "1"
sync_vendor
The sync_vendor function will allow a user to synchronize official vendor data.
Parameters:
action
                                 variable length text field
                                 Optional, integer that indicates the
transaction_start
                                 first transactionid of interest
transaction_end
                                 Optional, integer that indicates the
                                 last transactionid of interest
Example:
{
  "API": "4.0",
   "action": "sync_vendor"
```

Returned Parameters:

success Boolean value

vendor Array of 1 or more nodes that include all of

the relevant data

city Variable length text field of the vendor's city. Variable length text field of the vendor's

license number.

name Variable length text field of the vendor's

name.

state Variable length text field of the vendor's

state.

address1 Variable length text field of the vendor's

address.

address2 Variable length text field of the vendor's

address continued.

zip Variable length text field of the vendor's zip.
Variable length text field of the vendor's

UBI.

producer Boolean (0/1) value that indicates whether

or not the vendor possesses the producer

license type.

processor Boolean (0/1) value that indicates whether

or not the vendor possesses the processor

license type.

retail Boolean (0/1) value that indicates whether

or not the vendor possesses the retail license

type.

locationtype Integer that indicates a combination value

that describes the privilege types the vendor possesses as follows: 1 (Producer Tier 1), 2 (Producer Tier 2), 3 (Producer Tier 3), 4 (Producer Tier 1 + Processor), 5 (Producer Tier 2 + Processor), 6 (Producer Tier 3 + Processor), 7 (Processor only), 8 (Retailer), 9 (Tribal Compact), 10 (Retailer + Medical), 11

(Medical Cooperative).

transactionid Integer, this is the last transactionid value

applied to this line item. This is updated

upon every successful modification.

transactionid\_original Integer, this is the first transactionid value

received from creation of this line item. This will not change with respect to modification,

removal, etc.

deleted Boolean (0/1) value that indicates whether

or not the vendor has been deactivated.

medical Boolean (0/1) value that indicates whether

or not the retail vendor also possesses the

medical license type.

## Return example:

```
{
  "success": "1",
  "vendor": {
   "address1": "1274 Address Way",
   "city": "Seattle",
   "location": "111112",
   "locationtype": "8",
   "name": "New Retail Store",
   "processor": "0",
   "producer": "0",
   "retail": "1",
   "state": "WA",
   "transactionid": "4898",
   "transactionid_original": "4898",
   "ubi": "000000009",
   "zip": "986420000",
   "deleted": "0",
   "medical": "0"
```

# sync qa lab

The sync\_qa\_lab function will allow a user to synchronize official QA labs.

Parameters:

action variable length text field

transaction\_start Optional, integer that indicates the

first transactionid of interest

transaction\_end Optional, integer that indicates the

last transactionid of interest

Example:

```
{
    "API": "4.0",
    "action": "sync_qa_lab"
}
```

#### Returned Parameters:

success Boolean value

qa\_lab Array of 1 or more nodes that include all of

the relevant data

city Variable length text field of the QA lab's city. Variable length text field of the QA lab's

license number.

name Variable length text field of the QA lab's

name.

state Variable length text field of the QA lab's

state.

address1 Variable length text field of the QA lab's

address.

address2 Variable length text field of the QA lab's

address continued.

zip Variable length text field of the QA lab's zip.

transactionid Integer, this is the last transactionid value

applied to this line item. This is updated

upon every successful modification.

transactionid\_original Integer, this is the first transactionid value

received from creation of this line item. This will not change with respect to modification,

removal, etc.

### Return example:

```
"qa_lab": {
    "address1": "1234 Address Way",
    "city": "City",
    "location": "55555",
    "name": "QTest1",
    "state": "WA",
    "transactionid": "4924",
    "transactionid_original": "4924",
    "zip": "89101"
    },
    "success": "1"
}
```

# sync\_third\_party\_transporter

The sync\_third\_party\_transporter function will allow a user to synchronize official third party transportation data.

Parameters:

action variable length text field

transaction\_start Optional, integer that indicates the

first transactionid of interest

transaction\_end Optional, integer that indicates the

last transactionid of interest

### Example:

```
{
    "API": "4.0",
    "action": "sync_third_party_transporter"
}
```

#### Returned Parameters:

success Boolean value

third\_party\_transporter Array of 1 or more nodes that include all of

the relevant data

city Variable length text field of the vendor's city.
Variable length text field of the vendor's

license number.

name Variable length text field of the vendor's

name.

state Variable length text field of the vendor's

state.

address1 Variable length text field of the vendor's

address.

address2 Variable length text field of the vendor's

address continued.

zip Variable length text field of the vendor's zip. Variable length text field of the vendor's

UBI.

transactionid Integer, this is the last transactionid value

applied to this line item. This is updated

upon every successful modification.

transactionid\_original Integer, this is the first transactionid value

received from creation of this line item. This will not change with respect to modification,

removal, etc.

### Return example:

```
{
    "success": "1",
    "third_party_transporter": {
        "address1": "1274 Address Way",
```

```
"city": "Seattle",
   "location": "919",
   "name": "Transportation Company",
   "state": "WA",
   "transactionid": "4898",
   "transactionid_original": "4898",
   "ubi": "000000009",
   "zip": "986420000"
}
```