BIO-TECH MEDICAL SOFTWARE, INC.

BioTrackTHC JSON API

BioTrackTHCAPI

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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 1.15

The following functions have been added: inventory_convert_undo

The following functions have been enhanced: plant_harvest

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 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 rypes	
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

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 License Number 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: http://jsonlint.com/. 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
/training> 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. As can be seen below, training mode is easy to trigger:

```
{
    "API": "4.0",
    "training": "1",
    "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
                                nested field that includes boolean
new_permissions
                                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"
  }
}
```

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

```
new_password 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

success

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
new_username variable length text field

{

"API": "4.0",
    "action": "user_remove",
    "new_username": "user1@domain.com"
}

Returned Parameters:
```

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
                                 unique variable length text field
employee_id
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
two character integer
two 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 unique variable length text field unique variable length text field {

"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 variable length text field vin variable length text field

year

variable length text field

```
"API": "4.0",
    "action": "vehicle_add",
    "vehicle_id": "2",
    "color": "Red",
    "make": "Ford",
    "model": "Mustang",
    "plate": "ABC124",
    "vin": "123242365566",
    "year": "2008"
}

Returned Parameters:
```

vehicle_modify

This function should be used to update an existing vehicle.

Parameters:

success

transactionid

action variable length text field vehicle_id unique integer variable length text field make variable length text field model variable length text field variable length text field variable length text field vin variable length text field variable length text field variable length text field

Boolean value

integer value

```
variable length text field
year
  "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
                         integer value
transactionid
vehicle remove
This function should be used to remove an employee.
Parameters:
action
                               variable length text field
                               unique integer
vehicle_id
  "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
                               integer value
id
  "API": "4.0",
  "action": "plant_room_remove",
  "id": "1"
}
Returned Parameters:
                         Boolean value
success
```

transactionid

integer value

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:
                         Boolean value
success
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"
Returned Parameters:
```

success

transactionid

Boolean value

integer value

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"
}
```

Returned Parameters:

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

barcodeid

Array of 1 or more text fields representing the plants to undo

```
{
    "API": "4.0",
    "action": "plant_new_undo",
    "barcodeid": "2288954595338316"
}

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

Returned Parameters:

success Boolean value transactionid integer value

sessiontime Unix 32-bit integer timestamp

plant_move

The plant_move function will allow a cultivator to move plants from their current room to a new one.

```
Parameters:
```

action variable length text field

room integer value

barcodeid Array of 1 or more text fields

representing the plants to move

```
"API": "4.0",
"action": "plant_move",
"barcodeid": [
"6853296789574115",
```

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

Returned Parameters:

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.

```
Parameters:
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).
  "API": "4.0",
  "action": "plant_destroy_schedule",
  "barcodeid": [
```

```
"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 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 reason 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_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
                                            Unix
                               Optional,
                                                    32-bit
                                                             integer
                               timestamp, defaults to current time
                               decimal value
weight
                               variable length text field. Valid values
uom
                               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"
Returned Parameters:
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

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.

room integer, room the collection occurred

111

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_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"
    ]
}
```

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:

transactionid

action variable length text field

collectiontime Optional, Unix 32-bit integer

timestamp, defaults to current time integer, the transaction to correct

weights Array of 1 or more nodes containing

weight information

amount Optional, 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.

```
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"
}
Returned Parameters:
                        Boolean value
success
transactionid
                        integer value
                        Unix 32-bit integer timestamp
sessiontime
                        Optional, Array of 1 or more nodes
derivatives
                        containing new identifiers with their
                        associated inventory types. Only returned if
                             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"
}
```

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:

action variable length text field

data Array of 1 or more nodes containing

inventory information

barcodeid 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.

Unix 32-bit integer timestamp

integer value

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)

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

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"
}
Returned Parameters:
                        Boolean value
success
transactionid
                        integer value
```

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.

Unix 32-bit integer timestamp

Parameters:

sessiontime

action

data

variable length text field

Array of 1 or more nodes containing inventory information

barcodeid inventory identifier

room

Integer value, represents the identification number of a room

inventory_check

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
success
data
                               Array of 1 or more nodes containing
                               inventory information
 barcode_id
                               inventory identifier
 strain
                               variable length text field
 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
                                Array of 1 or more nodes containing
data
                                new inventory information
 strain
                                variable length text field
  quantity
                                integer value
 invtype
                                integer, corresponds to the inventory
                                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 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",
  "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"
}
Returned Parameters:
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:

vehicle color

vehicle_make

vehicle_model

vehicle_plate

vehicle_vin

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 variable length text field variable length text field variable length text field variable length text field

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 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

```
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"
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"
  "success": "1",
  "sessiontime": "1390548537"
}
Returned Parameters:
                        Boolean value
success
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

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, optional for

regular manifests

employee_id unique variable length text field employee_dob variable length text field in the

format MM/DD/YYYY, optional

for regular manifests

Example:

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

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
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

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"
}
Returned Parameters:
                         Boolean value
success
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:
                               variable length text field
action
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
      barcode_id
                         Unique identifier
      description
                         Variable length text field that describes the
                         item being transported.
      inventorytype
                         integer, corresponds to the inventory type
                         system
      license_number
                         variable length text field, license number of
                         shipping entity
                         variable length text field, unique manifest
      manifest_id
                         identifier
      trade_name
                         variable length text field, name of the
                         shipping entity
      transfer_date
                         Date of actual shipment
                         decimal value that indicates how much the
      price
                         item was sold for, originally.
                         decimal value
      quantity
```

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
sessiontime
                       Unix 32-bit integer timestamp
```

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
                                Array of 1 or more nodes containing
data
                               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.
  "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:
success
                         Boolean value
```

inventory_transfer_inbound_modify

transactionid

sessiontime

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

Unix 32-bit integer timestamp

integer value

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.
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
                        text fields representing new unique identifier,
barcode_id
                        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 Valid values are: g, mg, kg, oz, lb.

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

derivative_usable_uom Valid values are: g, mg, kg, oz, lb,

each. These represent: grams,

```
milligrams, kilograms, ounces,
                                pounds, each.
derivative_strain
                                Optional, variable length text field
                                Optional, variable length text field
derivative_product
net_package
                                Optional, decimal value that defined
                                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.
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:
  "derivatives": [
     "barcode_id": "0358560579655606",
     "barcode_type": "18"
    },
```

```
{
    "barcode_id": "0358560579655605",
    "barcode_type": "27"
    }
]
```

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.

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.

Example:

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

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:

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

sessiontime transactionid success integer value Unix 32-bit integer timestamp Boolean value

inventory_qa_sample_results

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

```
sample_id
                                                              action
                                                                                Parameters:
                                        sample identifier
test details
                   Array of 1 or more nodes containing
                                                          variable length text field
```

The parameters to expect for each test can be found in both the

example and tables below.

```
Example:
                                                                                                                       "sample_id": "00000000090000058",
                                                                                                                                           "action": "inventory_qa_sample_results"
                                                                                                                                                            "API": "4.0",
                                                                                                       "test": [
"CBD": "5",
                                                 "type": "1"
                                                                    "moisture": "5",
```

```
"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" }
}
```

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

Moisture Content Details

Parameter	Details
moisture	Moisture Content, whole number only

Potency Analysis Details

CBD Content	CBD
THCA Content	THCA
THC Content	THC
Details	Parameter

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)

D	D-1-:1-
raianeen	Delans
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

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:
                         Boolean value
success
                         integer value, -1 for failure, 1 for success
result
sessiontime
                         Unix 32-bit integer timestamp
                         Array of 1 or more nodes containing test
test
```

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

details

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
                         Array of 1 or more nodes containing
data
                         inventory information
      barcode id
                         Unique identifier
      result
                         integer value, -1 for failure, 1 for success
                         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
      inventorytype
                         Inventory type of the item
      parent_id
                         Unique parent identifier
      sample_id
                         Sample identifier
```

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 productname Optional variable length text field 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.

Example:

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

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

Returned Parameters:

success Boolean value 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"
     "barcodeid": "5723224643296982",
     "quantity": "252.00"
Returned Parameters:
                        Boolean value
success
transactionid
                        integer value
                        Unix 32-bit integer timestamp
sessiontime
data
                        Array of 1 or more nodes containing
                        transportation information
      barcode_id
                        Inventory identifier of parent
      quantity
                        Decimal value, new parent quantity after
                        success
```

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.

```
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:
                        Boolean value
success
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.
 price
                                Negative 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_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

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

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 15 tables which can be queried: vehicle, employee, plant_room, inventory_room, inventory, plant, plant_derivative, manifest, inventory_transfer, sale, tax_report, vendor, qa_lab, inventory_adjust and inventory_qa_sample.

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.

vendor

This contains all active vendor information (sans phone numbers). This function will only return active entries.

qa_lab

This contains all active quality assurance lab information (sans phone numbers). This function will only return active entries.

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.

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.

sum Optional, summation of

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:

success Boolean value

summary Array of 1 or more nodes containing match

information.

match Boolean value that indicates whether the

sum was matched by the server.

sum Integer value indicating the server sum. This

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

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
 nickname
                           Variable length text field that describes the
                           nickname of the vehicle
  color
                           Variable length text field that describes the
                           color of the vehicle
                           Variable length text field that describes the
 make
                           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
 vehicle_id
                           Integer, user provided,
                                                         that
                                                               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.
                           Integer, this is the first transactionid value
  transactionid_original
                           received from creation of this vehicle. This
                           will not change with respect to modification,
                           removal, etc.
Return example:
  "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

active 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.

```
"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

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_plant_room"
}
```

Returned Parameters:

active

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.

Return example:

{

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
Coptional, integer that indicates the
first transactionid of interest
Coptional, integer that indicates the
last transactionid of interest
Coptional, boolean value that
indicates whether or not to only
return non-deleted records

Example:

{

```
"API": "4.0",
  "action": "sync_inventory_room"
Returned Parameters:
                         Boolean value
success
                         Array of 1 or more nodes that include all of
inventory_room
                         the relevant data
 roomid
                         Integer, user provided,
                                                      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
 quarantine
                          Boolean (0/1) value that indicates whether
                          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"
},
{
  "deleted": "0",
  "location": "18750",
  "name": "New",
  "quarantine": "0",
  "roomid": "7",
  "transactionid": "4057",
  "transactionid_original": "4057"
}
],
  "success": "1"
```

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 Optional, boolean value that

indicates whether or not to only

return non-deleted records

Example:

active

```
{
  "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.

wet If the item was collected during harvest and

not cure (e.g. other material type 9), it will be considered wet and can be adjusted for

reason type 5.

net_package Decimal value that defines the net package

weight or volume.

is_sample Optional integer value, 1 if the inventory

item is a sample intended for a vendor.

Return example:

{

```
"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:
                          Boolean value
success
                          Array of 1 or more nodes that include all of
plant
                          the relevant data
                          Boolean (0/1) value that indicates whether
 converted
                          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.
 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).
```

license number of the location the plant is

located in.

location

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.

removes cheduled 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.

```
"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
Optional, integer that indicates the
first transactionid of interest
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_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

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

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_details Variable length text field of the

vehicle transporting the product.

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.

manifest_fully_completed Integer, 0 for manifests that have had

an employee/driver added, 1 for manifests

that are fully ready to ship.

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. Decimal value indicating the total dollar price amount transferred out for the line item. quantity Decimal value indicating the total quantity of the item received. Decimal value indicating the total dollar refund_amount 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. Integer, this is the first transactionid value transactionid_original 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.

Return example:

```
"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 Optional, boolean value that indicates whether or not to only

return non-deleted records

Example:

active

```
"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

Decimal value mulcating the total excise t

(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.

```
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
active
                                 indicates whether or not to only
                                 return non-deleted records
Example:
  "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).

sample_use The intended use of the sample, as indicated

by the inventory_qa_sample function.

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:

{

```
"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:

Boolean value success inventory_sample Array of 1 or more nodes that include all of the relevant data Employee license number, if the sample is an employee_id employee sample. 16 digit barcode identifier of the unique inventoryid 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. Decimal value indicating the quantity of the quantity sample. Integer value that indicates the type of sample_type 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. Inventory ID of the new sample. sample_inventoryid 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

transaction_start Optional, integer that indicates the

first transactionid of interest

transaction_end Optional, integer that indicates the

last transactionid of interest

Example:

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.

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).

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.

```
"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"
   }
}
```

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.

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