

Leaf Data Systems
State of Washington
1.37.5 Release Changes for Tribe Licensees

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RELEASE HIGHLIGHTS:

1.37.5 WORKFLOW IMPROVEMENTS AND ISSUE RESOLUTION:

- Waste Reporting:
 - o Added workflow for reporting "Daily Plant Waste"
 - o Refined ability to report waste during harvest-related workflows:
 - Harvest Batch
 - Cure Batch
 - Finish Batch
 - o Resolved issues related to waste reporting when performing Conversions
- Inventory Type Attributes:
 - o Added ability to capture 'Weight per unit' for weight-based discrete items
 - o Added ability to capture 'Serving Size' for infused discrete items
 - o Added ability to capture 'Servings per Unit' for infused discrete items
- Lab Results:
 - o Refined business logic surrounding lab results requirements
 - Resolved threshold and validation issues with individual lab tests.
 - NOTE: While there are no direct workflow changes for Tribe licensees involving lab results, the improved logic and validation for lab results will indirectly improve reporting for lab results in Leaf Data Systems for all License Types
- Inventory Transfers:
 - o Refined data validation in order to minimize ability for invalid data entry
- Sales:
 - o Added ability to adjust previously entered sales data (unit price)



1.37.5 GENERAL IMPROVEMENTS:

- Numeric Standardization:
 - o Decimal values pertaining to weights are all now to two decimal places
- Drop-down Menus:
 - o Traditional drop-down menus replaced with "type-ahead" search fields
 - Batches
 - Inventories
 - Inventory Types



SUMMARY OF CHANGES:

Following is a list of the items being released with 1.37.5.

Terminology Used in Table Below

Issue/Solution	denotes an instance where the system was not functioning as designed, and the corresponding solution to resolve the issue
Workflow Gap/	describes a situation where licensees/integrators have used a procedural system workaround to accomplish a workflow that they
Improved Workflow perform along with the corresponding solution implemented to address the gap	
Update	new/improved/enhanced functionality that represents new requirements implemented

	Summary of Work	Extended Description of Solution Implemented
BATCHES		Issue: When creating a plant batch, the 'harvest_stage' and 'harvested_at' fields are
	Batches/Add: creation of	automatically populated.
	'type'='plant' populates	Solution: The 'harvest_stage' and 'harvested_at' fields will no longer be populated
	'harvest_stage' and 'harvested_at'	automatically upon creation of a plant batch.
		Workflow Gap: When curing a batch of harvested material, user is unable to
		associate waste with this process.
		Improved Workflow: During the "cure batch" and "finish batch" functions, waste
		can be reported that will be associated with the harvest batch. This will cause the
	Batches/Cure: add ability to report	creation of a destruction record as well as the related inventory lot record
	waste during cure	representing the waste.
		Workflow Gap: Batches with associated plants and inventory can be deleted, which
		corrupts the associated records.
		Improved Workflow: Batches that have plants or inventory (active or inactive)
	Batches/Delete: block ability if	associated with them cannot be deleted. Attempting to delete a batch that is in use
	active plants/inventory associated	will cause the request to fail, and an error message to be returned.
		Workflow Gap: Harvest batches being finished into inventory can be changed into
		different inventory types.
		Improved Workflow: When finishing harvest batches into inventory, user must
	Batches/Finish: inventory lot	select the 'material_type' that they are creating, which results in the system
	creation validation	validating which inventory types are appropriate based on this data.
		Workflow Gap: When finishing a batch of harvested material, user is unable to
		associate waste with this process.
	Batches/Finish: waste creation	Improved Workflow: During the "cure batch" and "finish batch" functions, waste
	workflow	can be reported that will be associated with the harvest batch. This will cause the



	Summary of Work	Extended Description of Solution Implemented
		creation of a destruction record as well as the related inventory lot record
		representing the waste.
		Issue: When creating a harvest batch, the dry weights entered are able to be greater
		than the wet weights previously entered for the batch.
	Batches/Harvest: dry weights can	Solution: Data validation has been added to ensure that dry weights exceeding the
	be higher than wet weights	original wet weight cannot be entered.
		Issue: Upon creating a harvest batch, the system does not save decimal values for
		weights.
	Batches/Harvest: only integer	Solution: When creating a harvest batch, users can enter values for weights with up
	values are saved	to two decimal places.
	Batches/Harvest: remove ability to	Update: Users will no longer be able to modify batch information for harvest type
	modify batch	batches and must follow appropriate batch workflows to log information changes.
		Issue: Upon retrieving the information associated with a batch, the number of
	Batches/Listing: 'num_plants' shows	plants includes plants that have been transferred or moved to inventory.
	plants with 'transferred' and	Solution: The number of plants associated with a batch has been corrected to
	'inventory' stage.	exclude plants that have been transferred to inventory.
		Issue: Within the user interface, drop-down menus with large amounts of data are truncated to 50 records.
		Solution: Drop-down menus for retrieval of batches, plants, inventories, and
	Batches/Plants/Inventories: add	inventory types have been changed to type-ahead search fields, where the drop-
	'type-ahead' search field	down populates filtered to the values entered.
		Update: Numeric standardization throughout the system will provide consistencies
	Batches: 'qty_cure' & 'dry_weight'	with decimal values entered. With the exception of lab results, all decimal values
	values have different datatype	will be saved to two places past the decimal. Lab Results will be saved to three
	lengths	places past the decimal.
	Batches: waste/destruction creation	Update: The workflows regarding waste creation for harvest processes and
	process	conversions are being reworked to align with the workflows.
CONVERSIONS		Issue: Waste created through a conversion is associated with the input lots, causing
		the creation of extraneous waste lots.
		Solution: Waste created through a conversion is associated with the output lot.
	Conversions/Add: associate 'waste'	Upon entering a waste value when performing a conversion, a destruction record
	with conversion output	and associated waste inventory lot are created automatically.
	Conversions/Add: waste	Issue: Waste created through a conversion should be associated with the output
	batch/inventory type relationship	inventory lot.



	Summary of Work	Extended Description of Solution Implemented
		Solution: The batch associated with waste from a conversion relates to the output
		inventory lot from the conversion.
		Issue: Upon completing a conversion with waste associated, the waste item created
		is multiplied by the number of inputs when it should be related to the output.
	Conversions/Add: waste created for	Solution: Waste created through a conversion is associated with the output lot.
	'qty_waste_total' for each item	Upon entering a waste value when performing a conversion, a destruction record
	converted if multiple inputs	and associated waste inventory lot are created automatically.
	Conversions/Report: 500 error	Issue: The Conversions Report returns a 500 error upon loading.
	upon loading page	Solution: The Conversions Report loads correctly.
DATA	Data Uploads/Report: 500 error	Issue: The Data Uploads Report returns a 500 error upon loading.
UPLOADS	upon loading page	Solution: The Data Uploads Report loads correctly.
DESTRUCTIONS	Destructions/Add/Edit: remove	
	"actual date of destruction" field,	
	"disposal_at" parameter is now a	Update: The actual date of destruction is captured based on the workflow rather
	returned value	than entered by the end user.
		Workflow Gap: Users do not have the ability to enter "Daily Waste" associated with
	<u>.</u>	a particular area at the facility.
	Destructions/Add: 'daily waste'	Improved Workflow: Users have the ability to create a destruction record with a
	workflow	source of "Daily Plant Waste" and a reason of "daily waste".
	Destructions/Add: behavior is	Issue: The weight of waste inventory lots created is not being incremented properly.
	incorrect	Solution: Waste workflows have been corrected.
		Issue: Waste packages are being presented with "0" inventory, so when they are
		disposed of the quantity becomes negative.
	Destructions/Dispose Item: creating	Solution: Waste packages created represent the correct quantity, so when they are
	inventory with negative quantity	disposed of they are decremented to zero.
	Destructions/Edit: disable "modify"	Issue: Destruction records that have been disposed of can be modified.
	ability (and remove link) once	Solution: Users can no longer modify a destruction record that has been disposed
	inventory has been disposed	of.
	Destructions/Inventory: waste	Update: The workflows regarding waste creation for inventory are being reworked
OF LIFE AL	creation workflow	to align with the harvest workflows.
GENERAL	General/Numeric Standardization:	Update: Numeric standardization is occurring throughout the system, which will
	integer, decimal, varchar limits not	provide consistencies with decimal values entered. With the exception of lab
	validated upon input; validate	results, all decimal values will be saved to two places past the decimal. Lab Results
	weight-based calls, decimal(14,2)	will be saved to three places past the decimal.
	General: ability to correct mistakes	Issue: Licensee must be able to correct mistakes for all data entered into Leaf.



	Summary of Work	Extended Description of Solution Implemented
		Solution: All records entered can be updated, when appropriate.
INVENTORIES	Inventories/Inventory Types: add	Update: Traditional drop-down menus for Inventory and Inventory Types are being
	'type-ahead' search field	replaced with "type-ahead" search drop-down menu fields.
	Inventories/Labels: include potency	
	profile from lab results on label	Update: Labels are being updated to include potency profiles of inventory.
	Inventories/Move Inventory To	
	Plants: ability to move plants into an	Update: For the "move inventory to plants" workflow, users will have the option to
	existing batch	either create a new batch or add plants to an existing batch.
	Inventories/Report: 500 error upon	Issue: The Inventory Report returns a 500 error upon loading.
	loading page	Solution: The Inventory Report now load properly.
	Inventories: 'type'='waste' should	
	be restricted from all actions except	Update: Waste inventory will have restrictions applied to the actions that can be
	'area' modification	performed to it.
INVENTORY	_	Issue: The Inventory Adjustments report shows all actions related to inventory.
ADJUSTMENTS	Inventory Adjustments/Listing:	Solution: Only Inventory Adjustment records are shown on the Inventory
	inventory transfers are shown	Adjustments report.
INVENTORY	Inventory Transfers/Add: add	
TRANSFERS	ability to track 'origin'/'propagation	
	source' of plant from sender to	Update: As packaged plants are transferred from one facility to another, they
	receiver	maintain their original "propagation source" value.
		Issue: Upon receipt of inventory, the system is not accurately creating a correctly
	Inventory Transfers/Receive:	associated inventory type.
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INVENTORY		Jointion. Additional sale records will not be created when a transfer is updated.
		Undate: Users are able to capture "Servings per Unit" for inventory types
		The state of the s
		Update: Users are able to capture "Weight Per Unit (gm)" for inventory types.
INVENTORY TYPES	inventory type ID is not created automatically Inventory Transfers/Update: modifying price on inventory transfer adds additional sale record Inventory Types/Add: ability to capture 'servings_per_unit' for discrete items Inventory Types/Add: ability to capture/print 'Weight Per Unit (gm)' for weight-based items	Solution: Upon receipt of inventory, the receiving facility will have an appropriate inventory type automatically created by the system. Issue: When an inventory transfer is modified and the price of a line item changes, an additional sale record is created. Solution: Additional sale records will not be created when a transfer is updated. Update: Users are able to capture "Servings per Unit" for inventory types. Update: Users are able to capture "Weight Per Unit (gm)" for inventory types.



	Summary of Work	Extended Description of Solution Implemented
		Update: When an inventory type with a unit of measure "ea" is created, all
	Inventory Types/Add: only allow	associated inventory will only be able to have quantity values that are integers, not
	integer inputs for 'uom'='ea'	decimals.
LAB RESULTS	Lab Results/View: cannabinoid	
	potency and THC calculation	Update: The calculations for Total THC are being reworked/corrected.
		Update: Lab results validation will now trigger inventory to have a designation
	Lab Results/View: extraction	called "eligible for extraction", which will be deemed true or false based on lab
	capable inventory	results entered.
		Update: Lab results thresholds and behavior are being addressed in a series of
	Lab Results/View: all QA testing	tickets dedicated to lab result workflows and validation.
	Lab Results/Listing: calculate and	
	implement 'high THC' and 'high CBD'	Update: 'High THC' and 'High CBD' designations will be calculated based on lab
	product designations	result values and assigned in Leaf, if applicable.
		Update: Lab results validation will now trigger inventory to have a designation
	Lab Results/Retest Workflow:	called "eligible for retest", which will be deemed true or false based on previous lab
	'Eligible for Retest' status	results entered.
LABELS	Labels/View/Print: for 'lot labels',	
	add 'qty' (in grams) and testing lab	Update: For inventory labels, additional information regarding testing lab and
	'licensee name'	inventory lot quantity will now be displayed.
		Issue: For inventory labels, the "Washington" State reference is missing from the
	Labels/View/Print: missing	warning that states "This product may be unlawful outside of the State of".
	'Washington State' reference	Solution: The label message has been corrected.
	Labels/View/Print: potency analysis	
	(lab results) should be visible	Update: Potency analysis will appear on labels.
PLANTS	Plants/Move Plants To Inventory:	Issue: For the "move plants to inventory" function which packages plants for
	limit ability to move plants of	transfer, plants of different strains should not be packaged together.
	differing strains simultaneously	
	Plants/Delete: 500 error upon	Issue: When a plant is deleted, a 500 error occurs.
	submission	Solution: Plants can be deleted.
SALES		Issue: A sale record entered with an invalid item causes the sale record to fail, but
	Sales/Add: incorrect behavior upon	the valid inventory items to be decremented.
	submission of invalid items	Solution: Sale items are validated upon submission.
	Sales/Add: required IDs for medical	Update: For medical sales at Retailer facilities, the patient ID will be required,
	sales	whereas the caregiver ID will be optional.



Summary of Work	Extended Description of Solution Implemented
Sales/Add: 'status' field should be	
required	Update: When creating a sale, the 'status' field is required.
Sales/Adjustment: ability to capture	
'adjustment_date'	Update: Users can update sales records.
Sales/Report: 500 error upon	Issue: Navigating to the Sales Report produces a 500 error.
navigation to page	Solution: Sales Report loads properly.

