Understanding the Relationship Among Inventory Lots, Usage, & Transactions

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This guide explains inventory lots, inventory usage, and inventory transactions. It is intended for advanced users.

These three records and modules interact to help you manage your inventory and <u>calculate</u> <u>COGS</u> (https://aace6.knowledgeowl.com/help/understanding-the-cogs-reconciliation-process):

- <u>Inventory Lots</u> (https://aace6.knowledgeowl.com/help/understanding-the-relationship-among-inventory-lots-usage-andtransactions#OverviewofInventoryLots) — Represent the source of goods (i.e. items received or produced)
- <u>Inventory Usage (https://aace6.knowledgeowl.com/help/understanding-the-relationship-among-inventory-lots-usage-and-</u> <u>transactions#OverviewofInventoryUsage</u>) — Represent the use of goods (i.e. items shipped to customers or used in production)
- <u>Inventory Transactions</u> (https://aace6.knowledgeowl.com/help/understanding-the-relationship-among-inventory-lots-usageand-transactions#OverviewofInventoryTransactions)</u> — Track the changes to the quantity balances of inventoried line items

Each of these modules is explained below.

Note: Inventory lots are related to, but distinct from, <u>manufacturer lot tracking</u> (https://aace6.knowledgeowl.com/help/understanding-inventory-tracking-with-manufacturer-lots).

Overview of Inventory Lots

aACE uses inventory lot records to track inventoried and inventoried assembly <u>line item</u> <u>codes (https://aace6.knowledgeowl.com/help/overview-of-line-item-codes#LICoffices</u>). Navigate from Main Menu > Inventory > Inventory Lots.

•••					Inventory Lot	s							
Record:	: 1 of 48								New 🖶 🛛 Edit 🖋	Delete 🗶 🛛 P	rint 🖶	Actions 🛪	
Inver	ntory Lots												
0												Q	-
Lot	Code	Transaction ID	Date	Office	Ref #(s)	Lot Qty	Lot Value	Curr Qty	~Curr Value	Accr Value	Status	_	Ľ.,
> 60000	> TB-LIT102	> PO-60003	07/18/22	AI		0	0.00	0	0.00	0.00	OPEN	₹ ●	-
> 60001	> TB-SCI4	> PO-60003	07/18/22	AI		0	0.00	0	0.00	0.00	OPEN	₹ ●	-
> 60003	> TB-SCI4	> PO-60008	07/18/22	AI		50	7,499.50	50	7,499.50	0.00	OPEN	۳ 🔴	-
> 60004	> TB-SCI4	> PO-60013	07/18/22	AI		0	7,499.50	0	0.00	-7,499.50	OPEN	۳ 🌒	-
> 60005	> TB-LIT6	> PO-60030	07/19/22	AI		50	8,250.00	50	8,250.00	0.00	OPEN	۳, 🔴	-
> 60006	> TB-HIST	> PO-60030	07/19/22	AI		50	4,499.50	50	4,499.50	0.00	OPEN	₹ ●	-
> 60007	> SW-HIS2	> PO-60009	07/18/22	AI	Order #60016	50	998.50	50	998.50	0.00	OPEN	₹ ●	-
> 60008	> SW-HIS1	> PO-60009	07/18/22	AI	Order #60016	50	998.50	50	998.50	0.00	OPEN	۳ 🔴	-
> 60009	> TBLT-8C	> PO-60038	07/19/22	AI		0	0.00	0	0.00	0.00	OPEN	۳ 🌒	-
> 60015	> TM-INVTRY	> PO-60050	07/20/22	AI		0	0.00	0	0.00	0.00	OPEN	۳, 🌒	-
> 60019	> TM-INVTRY	> PO-60051	07/20/22	AI		0	0.00	0	0.00	0.00	OPEN	₹ ●	-
> 60024	> SE-B-G4	> PO-60073	07/20/22	AI		4	18.40	4	18.40	0.00	OPEN	₹ ●	-
> 60025	> SE-8-H	> PO-60073	07/20/22	AI		8	46.00	8	46.00	0.00	OPEN	۳ 🌒	-
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Click on a specific inventory lot to display additional details:

Record: 1 of 48							t 🖋 🛛 Delete 🛠		
Inventory Lo	t: 6000	00 TB-LI	T102					OF	PEN 🔵
Purchase Inventory	Lot					Notices 😣	Tasks 🔽	Emails 🔀	Docs @
General Info							Serialized [Track by 1	Mfr Lot
Trans ID >	Date	Office >	Code >		Code Description	Referen	nce #(s)		
PO-60003	07/18/22	AI	TB-LIT:	102	The Complete Works of Shakesp	eare			
Ordered / Purchased					Ordered / Received				
		Quantity	Each	Value		Quantity			Value
Ordered		80	79.99	6,399.20	Ordered	80		6,:	399.20
Purchased		0	0.00	0.00	Received	0			0.00
Purchased Remaining		80		6,399.20	Received Remaining	80		6,	399.20
Accrued Inventory					Current Inventory				
		Quantity		Value		Quantity			Value
Received		0		0.00	Received	0			0.00
Purchased		0		0.00	Used	0			0.00
Accrued Inventory		0		0.00	Current Inventory	0			0.00
Inventory COGS					Note: The Est Unit Cos	t is used until the Act Unit C	ost is final (i.e. the	related PO is c	closed).
Usage ID Tra	ns ID	Trans D	te Reference	#(s)		Quantity	Est Unit Cost	Totz	al Cost
									^
									~
					Used	0			0.00

Creating an inventory lot record can be triggered from various modules:

- Purchase Orders module Opening a PO
 Note: The lot's quantity is not populated until the shipment is received. The lot's value is initially an estimate, which is finalized when the purchase is opened.
- Orders module Through the Management tab > Procurement or Fulfillment tabs of an order by creating a PO or Job
- Jobs module
- Inventory Adjustments module Posting an Assembly, Division, or Beginning Balance

adjustment

Overview of Inventory Usage

Navigate from Main Menu > Inventory > Inventory Usage.

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Recor	d: 1 of 53							Nei	v 🕂 🛛 Edit 🖋	Delete 🗶 🕴	rint 🖶	Actions 🛪	•
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THINE	intory Usag	Je											
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Usage	Code	Transaction ID	Date	Office	Order	Ref #(s)	Quantity	~ COGS	Unallocated	Accrued COGS	5 Status		
60000	> 16G-W	> SHIP-60000	07/18/22	AI	> 60007	Order #60007	1,000	1,990.00	1,000	1,990.00	OPEN	۳, 🔴	-
60002	> 16G-W	> SHIP-60000	07/18/22	AI	> 60010	Order #60010	100	199.00	100	199.00	OPEN	ج 🔵	
60003	> TM-FRNCH3	> SHIP-60002	07/18/22	AI	> 60011	Order #60011	50	3,749.50	50	3,749.50	OPEN	۳ 🔴	
60009	> TB-LIT102	> SHIP-60021	07/20/22	AI	> 60029	Order #60029	20	1,599.80	10	799.90	OPEN	ج 🔵	
60014	> PEN-SPF	> SHIP-60029	07/20/22	AI	> 60042	Order #60042	0	0.00	-20	-6,560.00	OPEN	۳, 🔴	
60030	> TM-FRNCH3	> INVTRYADJ-60001	07/21/22				75	5,624.25	75	5,624.25	OPEN	اتر 🔴	
60031	> TM-FRNCH3	> INVTRYADJ-60002	07/21/22				-125	-9,373.75	-125	-9,373.75	OPEN	۳ 🔴	
60032	> TB-FRNCH3	> SHIP-60062	07/22/22	AI	> 60059	Order #60059	1	33.00	1	33.00	OPEN	۳ 🔴	
60033	> TB-FRNCH3	> SHIP-60065	07/22/22	AI	> 60059	Order #60059	14	462.00	14	462.00	OPEN	۳, 🔴	
60034	> TB-HIST	> SHIP-60065	07/22/22	AI	> 60059	Order #60059	1	89.99	1	89.95	OPEN	۳, 🔴	
60035	> TB-SCI4	> SHIP-60070	07/22/22	AI	> 60062	Order #60062	15	674.85	15	674.85	6 OPEN	اتر 🔴	
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Click on a specific usage record to review details:

Record: 4 of 5	53			Inventory Usage	New de Leite	🖋 Delete 🗙	Print 🖶	Actions 3
		: 60009	TB-LIT102		Hew - Con	g beece g		PEN O
Inventory	Usage Details				Notices 😣	Tasks 🗹	Emails 🔛	Docs @
eneral Info				Serialized By Mfr Lot	COGS Alloca	ation		
rans ID >		Date	Office >	Department >	Inventory Used	ł		20
HIP-60021		07/20/22	aACME Education Solutions, Inc. (AI)	aACME, Inc. (AI)	Allocated			10
lode > Code Description					Unallocated			10
B-LIT102 The Complete Works of Shakespeare					Est Unit Cost		79.99	
Order > Reference #(s) Released to general inventory					Estimated Accr Actual COGS	799.90 799.90		
		Actual COGS						
0029		Order #60029	9		Total COCC			1 EOO OO
		Order #60025	9		Total COGS Average Unit C	lost		1,599.80 79.99
	SS Trans ID	Order #60029	9 Trans Date Reference #(s)			Cost Unit Cost		
i0029 inventory COG Lot ID > 60002		Order #60029			Average Unit C		To	79.99
Lot ID	Trans ID	Order #60025	Trans Date Reference ∉(s)		Average Unit C Quantity	Unit Cost	To	79.99

Inventory usage records are created from events in various modules, such as Jobs, Shipping Log, and Inventory Adjustments.

Inventory usage records are helpful for identifying and <u>resolving unallocated inventory</u>

USage (https://aace6.knowledgeowl.com/help/using-inventory-adjustments-to-resolve-unallocated-inventory-usage).

Overview of Inventory Transactions

Navigate from Main Menu > Inventory > Inventory Transactions.

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Record: 1 of 3	74								NOW T	East of 1	Delete 🗶	Print 📾	Actions 7	<u> </u>
Inventor	y Transactio	ons												
>													9	
L Code 🤍	Transaction ID	Date	Office	Bin	Order	PO	Ref #(s)		On Order	Demand	On Hand	Status		
> 16G-W	> ORD-60007	07/18/22	AI	C-AI	> 60007			*		-1,000		POSTED	× () 🛪	- 1
> TM-INVTRY	> ORD-60007	07/18/22	AI	C-AI	> 60007			*		-2		POSTED	$\circ \circ \pi$	
> TB-LIT102	> PO-60003	07/18/22	AI	C-AI		> 60003		*	80			POSTED	\circ	
> TB-SCI4	> PO-60003	07/18/22	AI	C-AI		> 60003		*	95			POSTED	$\odot \pi$	
> 16G-W	> ORD-60010	07/18/22	AI	C-AI	> 60010			*		-100		POSTED	$\odot \pi$	
> 16G-W	> SHIP-60000	07/18/22	AI	C-AI	> 60007			*			-1,000	POSTED	$\odot \pi$	
> TM-INVTRY	> SHIP-60000	07/18/22	AI	C-AI	> 60007			*			-2	POSTED	$\odot \pi$	
> 16G-W	> SHIP-60000	07/18/22	AI	C-AI	> 60010			*			-100	POSTED	$\circ \circ \pi$	
> 16G-W	> ORD-60007	07/18/22	AI	C-AI	> 60007			*		1,000		POSTED	\circ	ι.
> TM-INVTRY	> ORD-60007	07/18/22	AI	C-AI	> 60007			*		2		POSTED	$\odot \pi$	1.
> 16G-W	> ORD-60010	07/18/22	AI	C-AI	> 60010			*		100		POSTED	$\sim \pi$	ε.

Inventory transaction records are calculations that track the changes or 'movement' in inventory balances. This module is akin to a general ledger for inventory balances.

The Inventory Transactions module can help you track the various records that change inventory quantities:

- Purchase Orders Opening a PO increases the On Order count for each line item code (LIC) on the PO. Receiving the incoming shipment reverses this count.
- Orders Opening an order posts a negative on the Demand count for each LIC on the order. Shipping the outgoing shipment reverses this count.
- Shipments Receiving an incoming shipment increases the On Hand count for each LIC. Shipping the outgoing shipment reverses this count.
 Note: As mentioned above, incoming shipments also reverse the On Order count for PO's while outgoing shipments reverse the Demand count for orders.
- Inventory adjustments Positive adjustments increase the On Hand count for each LIC. Negative adjustments decrease this count.
- Jobs May increase or decrease the count in On Order, Demand, or On Hand, depending on the specific tasks of the job.

Note: When you receive items that are tracked by manufacturer lot, each lot is recorded as a separate transaction. Also, when handling returns for lot-tracked inventory (and serialized inventory), the needed <u>inventory adjustments (https://aace6.knowledgeowl.com/help/handling-returns-and-inventory-adjustments-for-lot-tracked-and-serialized-items)</u> require additional details.

Understanding Inventory Quantity Values

In both the Inventory Lots and Inventory Usage modules, quantity values are naturally positive. In other words, "We received three units" would equate to an inventory lot record with a quantity of three. Likewise, "We used three units" would equate to an inventory usage record with a quantity of three.

In contrast, the Inventory Transactions module presents a positive quantity as an increase in the balance and a negative quantity as a decrease in the balance. The On Hand values from inventory transaction records are added together to determine the current total balance. With that in mind, an inventory *usage* record with a quantity of three will have a corresponding inventory *transaction* with an On Hand quantity of negative three (i.e. the positive usage depletes three units of inventory).

The relationship between these three modules can be summarized with this equation:

Inventory Transactions _ Inventory Lot quantities _ Inventory Lot quantitie

Inventory Usage quantities (use of goods)