<text>

러는 러는 러는 러는

clarity through connections www.lucity.com

Parts Warehousing in the Web

The Parts Warehousing modules in Lucity Web allow your agency to keep track of parts, locations, quantities, costs, vendors, purchase orders, transactions, and receipts. These modules can be integrated with the Work modules to show where and how the parts are being used in relation to your agency's work. This documentation is meant to serve as a starter guide to using Parts Warehousing in the web and provide basic information about the functionality and tools available to users.

Contents

Parts Warehousing in the Web
Web Warehouses & Warehouse Locations
Location Tab4
Security Tab
Parts Inventory 11
Parts 11
LIFO, FIFO, and Cost Averaging 12
Inventory Tab
Vendor Tab
Part History Tab 21
Transaction Tab
On Order Tab 23
Hazard Codes Tab
WO Tab
Material Cat Tab 25
Fluid Cat Tab 25
Toolkits
Vendors
Vendor Parts Tab
Purchase Orders Tab
Parts Purchase Orders
Parts Purchase Order Grid
Parts Tab
Receipts Tab
Transactions
Integrating Parts with Work Orders
Parts Dispersal Scenarios
Parts Dispersal Scenario 1 - Default Location = N & Force Mobile = N
Parts Dispersal Scenario 2 - Default Location = Y & Force Mobile = N
Parts Dispersal Scenario 3 - Default Location = N & Force Mobile = Y

40
41
41
41
41
42
42
42

Parts Warehousing in the Web

Lucity Parts Warehousing in the web can be used as a stand-alone product or integrated with Lucity's Work Order system. In this section we are going to focus on how the module works, first as a standalone system and then, later in this document, we will be demonstrating how the integration acts with work orders functions.

Web Warehouses & Warehouse Locations

The first step in the setup of the Parts Warehousing suite is to create at least one Warehouse with at least one location. Once the grid and form are set up in Lucity Administration, users can go into Lucity Web and create a warehouse by clicking the green add button on the left side of the upper toolbar. This will bring up the warehouse form.

Equipment Description Gener	ral Comment Last Modified By			Part Ware Ware	houses X.							
Equipment Description Gener	ral Comment Last Modified By			Ware	Photoses with							
equipment vesterpriori	in comment ensemblance of	Last Modified Date 1	ast Modified Time	Link to Equipment	Chinning Address	Shinning Address 2	Shinning City S	hinning State	Shinning 7in Status Code	Status Type Wa	10 ×	Warel
		Cast mountee pore	ant mounted time	cont to equipment	and dealers and a second second second	subling russes a	authing any a	outpung state	subbull rds and cont	Status ()pc 110		
	Lucity	6/3/2015	3:42 PM									666-1
2000 CHEVROLET SILVERADO	Lucity	6/3/2015	3:28 PM	814						Evil		666
	GBA	8/15/2007	10:10 AM	0						Ger	neral Warehouse 1	GWH
	bobj	2/8/2007	10:38 AM	0						Fle	et - North Area Service Center	fitnas
	bobj	1/25/2007	2:35 PM	0						Soli	id Waste, North Area Service Center	swmas
Shippin	g Address			Shipping City	,	Shipping	State	ş	hipping Zip			
Created	I Ву	Creation Date Tir	ne					L				
Email				1								
	Comment		Shipp	oing Address 2								
General												
	2000 OHENROLET SLIVERADO	X000 CHEMPAULT SLVERADO Lettry GLA Mail beig beig Beig be	X000 CHEMPOLIT SUVERADO Lettry 4/3/2015 GBA 8/15/2007 GBA 8/15/2007 Help 2/8/2007 Help 2/8/2007 Help 1/25/2007 ACT Warehouse Form Equipment Description Equipment Description Shipping Address Created By Creation Date Time	2000 OHE/HOLET SULVERADO Lucity 6/3/2015 3:28 PM GBA #/15/2007 10:15 A4 Leeby 2/4/2007 10:35 A4 Leeby 1/25/2007 2:35 PM ACT Warehouse Form Equipment Description Email	X000 CHCHWALET SIXUERADO Leefry 4.1/2/2015 3.28 PM 814 GBA #1/15/2027 10:10 AA 0 beaj 2.9/2027 10:33 AA 0 beaj 1/25/2027 2.35 PA 0	X000 CH4/MALET SIX/ERADO Lectry 6/12/2015 3.28 FM 614 GRA M/15/2027 10.10 AA 0 Bebj 2/16/2027 10.38 AA 0 Bebj 1/125/2027 2.15 FM 0	X000 CHCHWALET SURFACO Leefry 6.1/2015 3.28 PM 814 GBA #1/3/2027 10.10 AA 0 begi 2.4/2027 10.38 AA 0 begi 1/23/2027 2.35 PA 0	X000 CH4(MALET SLIVERADO Lactity 6/12/2015 3.28 PM B14 QRA #/15/2007 19/10 AA 0 Beej 2/12/2007 19/10 AA 0 Beej 2/12/2007 19/10 AA 0 Beej 2/12/2007 2/15 PM 0 Image: Control of the status of th	X000 CH4(MALET SLIVERADO Lactity 6/12/2015 3.28 PM B14 Image: Control of Control	X000 CHCHWALLT SLIVERADO Leefny 4/1/2015 2.02 PA 814 GBA 8/15/2007 10.10 A4 0 beigi 2.07/2007 10.10 A4 0 beigi 2.07/2007 2.03 PA 0 Warehouse ID* Warehouse Desc. Status Code Equipment Description AutoNumber Equipment Code Shipping Address Shipping City Shipping State Shipping Zip Created By Creation Date Time Shipping City Shipping Zip	X000 CHCWARLET SURFACO Leefry 4.1/2/2015 3.28 PM 814 East GBA #1/3/2027 10.10 AM 0 Gaa Gaa bogi 2.9/2027 10.38 AM 0 Gaa File bogi 2.9/2027 2.35 PM 0 Gaa File bogi 1/25/2027 2.35 PM 0 Gaa File Warehouse ID* Warehouse Desc. Status Code File File Suppress ID* Marehouse Desc. File File File File Status Code 0 Gaa Gaa File File File Suppress ID* Last Modified Date Last Modified Time File File File File Suppress ID Last Modified Date Last Modified Time File Fil	2000 OH:WAULT SURRADO Leethy 4/12/205 2.028 PA 84 Ent GBA 8/15/2007 100.10 A4 0 Image: Control of

The Warehouse ID must be unique and is required. The Warehouse description does not need to be unique but it may be helpful if it is. The Equipment Code links to an Equipment record in the Work Order setup system.

The grid is customizable to what the user or users want to see and what is necessary when they open the Parts Warehouse. These fields can be controlled using the View/Form Manager in Lucity Administration making the grid easily editable to be either highly detailed or as basic as is desired.

Location Tab

The location tab provides a list of all the locations found within the warehouse. This could be a general as a section of the warehouse, or as specific as a particular bin. It is found by expanding the warehouse record using the green plus symbol on the left hand side.

	Part Warehouses											
b 🛽	😰 🕴 💭 😵 🔜 📘 🛛 🔹 🔯											10 •
	Wareho	ehouse ID Warehouse Desc. Equipment Code Equipment Description Status Type Shipping Ad							Shipping City	Shipping State	Shipping Zip	
	82185		Mike's Wareh	ouse	PKGN01	Generator		10561 Barkley St.	Overland Park	KS	66212	
	Locati	cations (2) Warehouse Security (2)										
									Locations	K-		10 -
			Location ID	Location Desc.	Default Locatio	n						
	43	Բ 🖻	M30	Mike's Primary Warehouse	M							
	-8	Բ 🖻	M31	Mike's Secondary Warehous	e 🗌							
🕂 🖻	666-1		ACT Warehou	se								

The first Location entered for the warehouse will automatically be the Default location. To add a location to the warehouse the user must click the green add button on the toolbar under the expanded locations tab. By doing the user brings up the Location Form. Fields such as Location Description and Location ID are required by the system while others are optional unless previously set to be required in Lucity Administration.

┥┝	Part Locations Form	
	Loc Rec #* -1 Location ID* Location Desc.* Default Location	
	Loc Barcode	
		

By further drilling down into the record on the Location tab you can see the quantities of each part at that location. When working with a part in the web users have several options. By clicking the toolbox icon on the toolbar users can adjust quantities by adding or subtracting from the inventory, entering inventory count, issuing a part to an employee, or transferring parts to a different location.

2																Part	Ware	houses		
	0	- 🄻		J	Ð	es 📘										Warehouses 📈 🗸				
		Creatio	n Date	Time	Email	Equipment Code	Equipme	nt Descrip	tion (General (Comment	Last Mod	ified By	Last Modifi	ed Date	Last Modified	l Time	Link to Equ	ipment	Shipping Add
	P	6/3/201	5 3:40	00 PM								Lucity		6,	3/2015	3:	42 PM			
	Locations (1) Warehouse Security (1)																			
	Locations 🚈																			
		Created By Creation Date Time Default				Default	It Location Last Modi		ied By L	d By Last Modified Date		Last Modified Time Lo		Loc Barcode Loc Rec		# Loca	# Location Desc.		n ID	
			P	Lucity	/	5/3/2015 3:41:00 PM	(✓ Lucity			6/3/2015			3:41 PM 111-1		11-1 645 Bi			B2	
				Quar	ntities (1)														
						0											Quant	ities 🔭		
		Adjust Inventory Quantity (-)					-)	• Time	Description	n	Last N	odified B	/ Last A	Aodified Date	e Last M	odified Time	Part ID	Quantity	Reorde	r Point
		Adjust Inventory Quantity (+)																		
	Enter Inventory Count			3:00 PM	Mueller Hy	drant FLJ	3' Lucity			8/3/2019	5	5:48 PM	301	0.0000						
					Issue T	o Employee														
					Transfe	r Parts to Different	Location													

• Adjust Inventory Quantity (+) By clicking the Add Inventory option the following window appears and can be filled out by the user. Part ID, location, and per item cost are all filled out automatically when the window appears.

Adjust Inventory Quantity	y (+)	22							
PartID	301	Mueller Hydrant FlJ 3'							
Location	M30	Mike's Primary Warehouse							
Quantity	5								
Per Item Cost	250								
Date	8/28/20	15 🗦 🔅							
Reference Number	Added th	nru Warehouse Module							
Description	Item Add	lition							
Transaction Description	1	Test							
Vendor	082185	Mike's Parts Shop							
Cancel		ОК							

• Adjust Inventory Quantity (-) - By clicking the Subtract Inventory option the following window pops up and can be filled out by the user. Again, Part ID and location are filled out automatically.

Adjust Inventory Quantity	/ (-)	22
PartID	301	Mueller Hydrant FlJ 3'
Location	M30	Mike's Primary Warehouse
Quantity	1	
Date	8/28/20	15 10:50 AM 🖶 🕓
Reference Number	Removed	d Thru Warehouse Module
Description	Item Rer	noval
Transaction Description	1	Test
Cancel		ОК

• Enter Inventory Count - This tool allows users to enter the current stock quantity at this location. The system will then make whatever adjustments to the system (adding or subtracting) to make the parts inventory quantity match the stock count. If the count is different than the original quantity the system will calculate the adjustment automatically as seen in the following graphic.

(Enter Inventory Count		23
	PartID	301	Mueller Hydrant FlJ 3'
	Location	M30	Mike's Primary Warehouse
	Count	7	Original Quantity: 5
	Per Item Cost	250	Adjustment: 2
	Date	8/28/20	15 10:52 AM
	Reference Number	Added th	nru Warehouse Module
	Description	Item Cou	Int
	Transaction Description	1	Test
	Cancel		ОК

• **Issue to Employee-** Using this tool the user can issue a part directly to an employee. Several fields including quantity, employee name, date, and reference number all help in the tracking of parts. If the count is greater than the original quantity the user must enter the per item cost. The reason for this is because a new entry must be made into the PTPartCost table.

Issue To Employee		23
PartID	301	Mueller Hydrant FlJ 3'
Location	M30	Mike's Primary Warehouse
Employee	DEP	Don Pinkston
Quantity	1	
Date	8/28/20	15 10:59 AM 🔁 🕟
Reference Number	lssued to	DEP
Description	Issued to	DEP Don Pinkston thru Parts Mc
Transaction Description	1	Test 🧾
Consumable		
Cancel		ОК

• **Transfer Parts to Different Location**- This tool allows users to transfer parts from one location to another. Some fields like the Part ID and current location are already filled in. Fields helpful in tracking during a transfer include quantity, date, location, and description. The description of the transaction can also sometimes helpful.

Tra	Transfer Parts to Different Location										
	PartID	301	Mue	eller Hydr							
	Location	M30	Mik	e's Prima	ry W	areh	ouse				
Transfer To Location											
	Quantity	2				٨	Max Quantit	y:5			
	Date	8/28/2015 15 11:00					00 AM 🔶 🤅				
	Location			M31	Mike's Secondary Warehouse						
	Descriptio	on		Part Transfer							
	Transacti	on Descrip	tion	1	Tes	t					
	Employee DEP Don Pinkston										
	Cancel									OK	

Notes: ______

Security Tab

This tab gives users the ability to lock staff out of certain warehouses while still giving them the ability to use other warehouses (and the parts contained therein). The Security system will not work unless the Parts Warehousing option "Use Parts Warehouse Security" is checked. This option can be found on the web in the modules section under general, options, work options, parts.

 WORK REQUESTS NUMBER FORMAT	
⊛ Setup	
⊜ Parts	
Integrate Work and Parts Inventory (Y,N)	\checkmark
Always use Parts Default Location	
Force dispersal from mobile warehouses	
Prevent Negative Part Quantities	\checkmark
Make Vendor Part No the Default for Part Lookup	
Comma Delim list of UserIds that should not trigger disp/ret notif TEST,NICOLE	
Email address to send disbursal/return notifications	om
Use Parts Warehouse Security	\checkmark
Use Part Open Inventory Date Range	
⊕ Financial	
Dates	
Work Orders	
Tasks	
Assets	

- Adding a Record Individual users can be added manually to each warehouse. The employee list comes from the Employee Setup module. To add employees click the green add button on the tool bar to bring up the warehouse security form. There are only two types of Security status allowed
 - **WO only** this gives an employee rights to pull parts from the warehouse on a work order (or return parts from the work order back into the warehouse). When completing a work order, the work order will only display those locations to the user for which that user has rights to use.
 - **Full Access** this setting allows the user to have full rights to this warehouse including adding parts, transferring parts, and removing parts. When transferring parts between warehouses, the user must have Full Access to both warehouses.
 - We recommend Parts Warehouse Security functionality not be turned on until the warehouse security is setup for all users that need access.

Z	7								Part Wa	arehou	ises								5
		· †- 📑	50				Warehouses 🥢						10 -						
		Creation Date	Fime Ema	il Equipment Code	Equipment Descrip	tion Genera	I Comment	Last Modified By	Last Modified Date	Last Mo	dified Tim	e Link to Equipme	nt Shipping Address	Shipping Address 2	Shipping City	Shipping State	Shipping Zip	Status Code	Status Type
	- 🄊	6/3/2015 3:40:	00 PM					Lucity	6/3/2015		3:42 P/	٨							
		Locations (1)	Warehou	se Security (2)															
		🗈 🚔	0						Warehouse	Securi	ty 🔀-					10 🔻			
			Created B	Creation Date Time	Employee Name	Employee Rec #	Last Mod By	Last Mod Date	Last Modified Time	Ме	Security	Security Text							
			Levelse	R/E (2015 4-50-00 D		14.40	Lunder	B /E /2015	4.50 DH	001110	2	E-II Annua							
			LUCITY	6/5/2015 4:50:00 P/	MARGARITA BULL	4047	Lucity	6/5/2015	4:50 PM	001110	2	Full Access							
		1	Lucity	6/3/2015 3:42:00 P/	A PATRICK JOY	4655	Lucity	6/3/2015	3:42 PM	001393	1	WO only							

• **Copy employees from another warehouse** - It can take some effort to setup a warehouse's security. This tool is valuable as it lets you copy the security from one warehouse into another warehouse. You can actually run the tool more than once, selecting different warehouses each time. When doing so, it will always bring in the new staff from the next warehouse but it will never change the Security settings, once established.

	₽	2	
	Locations (2) Ware	house Security (0)	
		Warehouse Security	
	Add Multip	le Employees	
	Copy Empl	oyees from another warehouse	
	Set Employ	ee Security for Selected Records	
Copy Employees from an	other warehouse		23
		100 -	
Warehouse ID	Name	Rec #	
121483	ACT Warehouse	7	
GWH1	General Warehouse 1	5	
swnasc	Solid Waste, North Area Servic	e Center 2	

• Add Multiple Employees - Using this tool the user can quickly add an entire group of employees to the security of the selected warehouse. Fields can also be searched and filtered based on a common item like department.

Employee	Employee Name	Department water metering	Status	
002844	RONALD GONZALES	Water Metering		
001159	RICHARD SALAIS	Water Metering		
001952	RAFAEL BERUMEN	Water Metering		
003255	JOSE FLORES	Water Metering		
003015	JEFFERY KING	Water Metering		
002220	JAMES ZELKO	Water Metering		
003065	FRANCISCO CHAIRA	Water Metering		
002843	DANTE' BEVINEAU	Water Metering		
002837	ADAM MYLANT	Water Metering		
370	SUKE HO	Water Metering		
361	BRIAN HALO	Water Metering		
352	WILSON WALLACE	Water Metering		
349	GRANT PURSELL	Water Metering		
340	HECTOR MARTINEZ	Water Metering		
264	WAYNE LIENE	Water Metering		
257	GARY HANDY	Water Metering		
247	ROGER TURNER	Water Metering		
243	DON MILLER	Water Metering		
224	DERIK FRONZE	Water Metering		
223	BEN BURGES	Water Metering		
222	MARK LONESTAR	Water Metering		
195	RYAN DOVER	Water Metering		
149	EDISON CHIPOTLE	Water Metering		
129	JASON WRIGHT	Water Metering		

• Set Employee Security - Once the user has multiple employees in the grid, one or more can be highlighted and all of the highlighted employees can have their security changed with this tool.

(Se	t Employee Se	curity for Selec	ted Records	23
01		Code	Text		
D1		1	WO only		
		2	Full Access		
01					
01					
01					
01		Cancel		ОК	

Notes: _____

Parts Inventory

Parts

Parts have to be added into the system through the Parts module. When adding a new part record several fields are required including

- Parts ID (and this must be unique and cannot be longer than 20 characters).
- Part Description
- Location ID (which must have been set up previously)
- Cost Method (LIFO, FIFO, Average or Fixed Cost)

5	~								F	Parts					
	b 🖻	- 🌴- 🧯	è 📑 📮	📀 🗟 📘					Parts 📈						
		Part ID	Warehouse ID	Warehouse Desc.	Location ID	Location Desc.	Default Location	Cost Method	Cost Method Type	Material Code	Fluid Code	Qty On Hand	Reorder Point	Reorder Qty.	Qty On Order
	P	301	GWH1	General Warehouse 1	B1	Bin 1	642	1	FIFO-First In First Out	135 99		80.00	100.00	250.00	0.00
	P	108-7860	fltnasc	Fleet - North Area Service Center	ns	not stocked	621	3	Average	108-7860		1.00	0.00	0.00	0.00
	P	71N24MD5	fltnasc	Fleet - North Area Service Center	1-6H2	1-6H2	493	3	Average	71N24MD5		4.00	0.00	0.00	0.00
	P	TA040-99700	fltnasc	Fleet - North Area Service Center	ns	not stocked	621	3	Average	TA040-99700		1.00	0.00	0.00	0.00
	P	R1401-64440	fltnasc	Fleet - North Area Service Center	ns	not stocked	621	3	Average	R1401-64440		1.00	0.00	0.00	0.00
	P	R1401-64430	fltnasc	Fleet - North Area Service Center	ns	not stocked	621	3	Average	R1401-64430		1.00	0.00	0.00	0.00
	P	108-5031	fltnasc	Fleet - North Area Service Center	ns	not stocked	621	3	Average	108-5031		8.00	0.00	0.00	0.00
	P	001-6404	fltnasc	Fleet - North Area Service Center	ns	not stocked	621	3	Average	001-6404		1.00	0.00	0.00	0.00
	P	25C600KCS	fltnasc	Fleet - North Area Service Center	1-5B5	1-5B5	387	3	Average	25C600KCS		50.00	0.00	0.00	0.00
	1	10461330	fltnasc	Fleet - North Area Service Center	ns	not stocked	621	3	Average	10461330		1.00	0.00	0.00	0.00

Several other fields of note are:

- Material Code This field links the part to record in the Work Materials module. Materials are used on work orders and if they are linked to a part that part is dispersed from the inventory to the work order. If this field is blank, the user can click in this field, and press F5 to populate the Code from the Part ID. If this field is filled out:
 - The Fluid Code becomes inactive (because a part cannot be both a material and a fluid at the same time)
 - On Save, the Material Setup data will be searched. If that material code is not found, then a new record will be added into the Material module based on the following:
 - The Material ID = Part ID
 - The Material Description = Part Description
 - The Unit of Measure = the Part Unit of Measure
 - Automatically sets the material as Active
 - This process takes place whether or not the user has the "Integrate Work and Parts Inventory" option set to Yes or No.
- Fluid Code works the same as Material Code except that it works with the Work Fluid module and the Material Code field is then set to inactive.

- **Reorder Point** once the total quantity on hand reaches this value, the user should be notified that they need to reorder the parts. Lucity contains a report that can be run on demand that prints out all parts needing to be reordered.
- AutoNumber this displays the computer generated number for this part. This can help if you are ever looking behind the scenes at the database and need to know the PA_ID value.
- Start Date & End Date If the integration with Work is turned on, then the Resource End Date has to be greater or equal to the start date or less than or equal to the End Date (if the End Date is entered). There is a flag in the Work Options to turn this test on.
- Parts On-Hand this is the total number of parts available at all locations
- **Parts On-Order** this is the total number of parts that are on-order in the Parts Purchase Order system and have not yet been received
- Average Cost This field is only displayed if the Part uses Cost Averaging for its pricing
- Add To Inventory This is a button that the user can use to add Parts into the system without going through the Purchase Order system

LIFO, FIFO, and Cost Averaging

When a part is first entered into Lucity, the user must pick if the cost of the part is going to use LIFO (Last In First Out), FIFO (First In First Out), Cost Averaging or Fixed Cost. Fixed cost is the easiest to explain because then the cost entered is simply the value of the Fixed Cost value entered. The rest require some explanation.

When the user receives parts into the system, Lucity requires the value (or unit cost) of the parts is entered as well. For each increase in part quantity several new records are created in the Work database.

PTPARTCOST - This table tracks the date that the quantity was entered, the total original quantity entered, the quantity remaining (as parts get extracted), the unit cost of these parts, and the average cost of the part based on the total quantity and cost of the part that exist in the system

2	PC_ID 👻	PC_PONUM -	PC_PA_ID 🖓	PC_DATE 👻	PC_ORIGQTY -	PC_CURRQTY -	PC_COSTUNT -	PC_COSTAVI -
	2955	Added thru Parts Module	2860	6/1/2013	100	100	5	7.5
	2956	Added thru Parts Module	2860	7/1/2013	100	100	10	7.5

The above image is from the PTPARTCOST table. The values are linked to the Part by the PC_PA_ID value. There were 2 different times that parts have been added to the system - both directly from the Parts Module. The first entry in June had 100 units at a unit price of \$5. The July record added 100 parts at \$10. The average of all of the parts after the last upload is \$7.5.

If the Part used LIFO (and no other parts were added), the July parts would be used first until the 100 parts were totally removed. So the unit cost of each part would be \$10. Thereafter, the parts entered in June would be used so the unit cost of each would be \$5.

FIFO is just the opposite. The first parts entered (the June entry) would be used first so the unit cost for a work order would be \$5 for the first 100 units and \$10 for the next 100.

If Average Cost is used, then all 200 units would be charged out at \$7.5.

PTINV - This is a table that stores the quantity of the part at each location. Prior to Version 7.6, Lucity automatically created a record in this table so that every part had a PTINV record for ever warehouse location (making for a very large table). This has been changed for Version 7.6 and onward so that the user gets to select what locations that they want to have active for each part.

4	PI_ID 👻	PI_PA_ID 🌱	PI_PL_ID 👻	PI_QTY 👻	PI_REORDER -
	3682448	2860	5	200	1
	3682449	2860	6	0	0
	3682450	2860	7	0	0
	3682451	2860	8	0	0

As can be seen from the above picture of the PTINV table, Part Location 5 (PI_PL_ID) stores all of the quantity for Part 2860 (PI_PA_ID). This location also has a reorder point of 1. Therefor Location 5 is an Active Location.

Notice that costs are not associated to the location of the part in any way. The value of the part cannot be determined for any warehouse or location unless the part is using Cost Averaging.

Notes:

Inventory Tab

Previous to 7.6 Lucity added a record in the PTINV table for every possible part and warehouse location combination. Starting with Version 7.6 this was changed. Now records in the PTINV table only store those part/warehouse location combinations where either the part has a quantity in the location or the part has a Reorder Point for that location. In this section we will be describing all of the special tools that exist for the Inventory grid as seen below.

	Part ID	Warehouse ID	Warehouse Desc.			Location ID		Location Desc.		Def	
- 19	301	301 GWH1		General Warehouse 1			B1	B1 Bin 1			
	Inventory (3) Transaction	ns (16) History (7) P		arts Vendo	ors (1)	On	Order (1) Haz	ard (
	🗈 in 🖓 🖪										
		Adjust Inventory	Quantity (-)				Location De		esc.	sc. Location	
		Adjust Inventory	Quantity	y (+)]						
		Enter Inventory (Count	int			Mobile	Mobile1 Location1		MOB1L1	
		ssue To Employe	e)					D1	
		Manual Quantity	Adjustm	ent)		61N I			ы	
	9	Set Reorder Poin	t for Sele	for Selected Records vice Cen			1-10A	1		1-10A1	
		Transfer Parts to	Differer	Different Location							
					_						

Adjust Inventory Qty (+)

The only difference between this dialog that pops-up and the "Add to Inventory toolkit" dialog is that the Location is set to the location that is highlighted and cannot be changed. This is also the same dialog that the user has in the Parts Warehousing module in the Parts grid.

Adjust Inventory Quantity	y (+)		23					
PartID	301	Mueller Hydrant FlJ 3'						
Location	B1	Bin 1						
Quantity								
Per Item Cost	1310							
Date	<m d="" td="" yy<=""><td>yy> 🚺 🗧 🕓</td><td></td></m>	yy> 🚺 🗧 🕓						
Reference Number	Added th	nru Parts Module						
Description								
Transaction Description								
Vendor								
Cancel		ОК						

Adjust Inventory Qty (-)

This tool allows the user to enter the quantity of the parts that have been removed from the location. All other information and appearance is similar to the Adjust Inventory Qty (+).

Issue to Employee

This tool allows the user to assign and track parts to employees. This is especially beneficial for consumables like gloves, shovels, etc.

Issue To Employee				23
PartID	301	Mueller Hydrant FlJ 3'		
Location				
Employee				
Quantity				
Date	<m d="" td="" yy<=""><td>УУ> 15</td><td>3</td><td></td></m>	УУ> 15	3	
Reference Number	Added th	nru Parts Module		
Description				
Transaction Description				
Consumable				
Cancel			Oł	<

The employee must be in the Work Flow Setup Employee module. The tool removes the quantity from the location specified and adds that quantity to the Employee records returnable parts grid. The Reference and Description are defaulted but can be changed by the user. The Date, Quantity and Employee are all required in order to save the record.

R	\sim												Work	Employee
			· 🌱 -	<u>e</u>	🕴 🗔 🔇									Work Emplo
			Employee	Employe	ee Name	Assigned Work	Employee S	Status Text	Active	Login ID	Job Title Text		Position Text	
		P	001390	MELECIC	CAMPOS				√					
			Availabil	ity (0)	Equipment U	sage (0) Cate	gories (1)	Timesheet	Admin (0) Clas	sifications (0)	Certifications	(0) Returnable Part	s (1)
				2									Returnable	e Parts 🔭
			Recei	ved Date	Original Qty	. Current Qty.	Part ID	Description	Consu	mable				
				17/2015	1.0	0 1.00	109 7940							
				////2015	1.0	u 1.00	100-7000	MINI PLC						

The above image shows how this transaction appears in the Employee record.

Transfer Parts to Different Locations

This works exactly the same as described in the Warehouse module.

Transfer Pa	rts to Diff	erer	t Location		23
PartID	301	Mu	eller Hydrant FlJ 3'		
Location	MOB1L1	Mol	pile1 Location1		
Transfe	er To Lo	cati	on		
Quantity			Ma	x Quantity:25	
Date			<m d="" yyyy=""> 15</m>	3	
Location					
Descriptio	on				
Transacti	on Descrip	tion			
Employee					
Cancel				ОК	

Notes:_____

Enter Inventory Count

The Enter Inventory Count dialog allows the user to enter the results of a stock count. There are three things that can happen. The stock count can equal the current quantity at that location, the stock count can be greater than the current quantity at that location or the stock count can be less than the current quantity at that location. We will go through all three scenarios and see how the transaction table is impacted.

Enter Inventory Count					23				
PartID	301	Mueller H	ydrant Fl	J 3'					
Location	B1	Bin 1							
Count	80	Origina	al Quantity	y: 80					
Per Item Cost		Adjustment: 0							
Date									
Reference Number	Added t	hru Parts M	odule						
Description									
Transaction Description									
Cancel					ОК				
☆ ┣ ▣- Ÿ- ▲ ♥	50							Ρ	art
Part ID Wareho	use ID Ware	house Desc.		Location ID	Location Desc.	Default Locati	on Cost Method	Cost Method Type	Mate
👝 🔊 301 GWH1	Gener	ral Warehouse 1		B1	Bin 1	6	42 1	FIFO-First In First Out	1359
Inventory (3) Tran	sactions (16)	History (7)	Parts Vendo	rs (1) On	Order (1) Haz	ard Codes (1)	Work Orders (1)	Material Category (1	6)
.	csV							Transaction	ns 👌
Date \$	Transac \$	ction Time Qty.	. Unit Cos	t Part ID	Part Description	n Transac	tion Type Text	Reference	
17/2	2015	6:36 PM 0	.00 0.000	301	Mueller Hydrant	FLJ 3' Loc Cou	nt - No Adjustment	Added thru Parts Moo	dule

Inventory count is equal to the current quantity at that location.

As can be seen above, nothing much really happens if the count equals the original count. We simply log a record of the count being performed in the transaction grid.

Notes:_____

Inventory count is less than the current quantity at that location.

In this example, our count equaled 3 (and not the original quantity of 4).

Enter Inventory Count				23
PartID	71N24M	SNA	PTIGHT TEST COUPLER	
Location	1-6H2	1-6	12	
Count	3		Original Quantity: 4	
Per Item Cost	8.1575		Adjustment: -1	
Date	9/7/201	5	15 6:39 PM 🔿 🕓	
Reference Number	Added th	nru P	arts Module	
Description				
Transaction Description				
Cancel			ОК	

The system automatically grabs the Per Item Cost similar to how work order dispersals work. After hitting save, the Quantity becomes 3 at that location.

🗕 P	71N24MDS	fltna	isc I	Fleet - Nor	th Area S	Service Ce	enter	1-6H2	1-6	H2			4 9 3	
	Inventor	y (1) T	ransactions	(2) His	tory (1)	Parts V	endors	; (1)	On Order	r (1) Ha:	zard C	odes (0)	Wor	k Orders
				×										
		Wa	rehouse ID	Warehou	se Desc.			Locat	tion Desc.	Location	ID L	ocation Re	c# (Quantity
		📂 fltr	nasc	Fleet - N	orth Area	Service (Center	1-6H2	2	1-6H2			493	3.0000
	71N24	MDS	fltnasc	Fl	eet - N	orth Are	a Serv	rice C	enter 1	-6H2	1	-6H2		
	Inven	tory (1) Trans	actions (2) H	istory (1) P	arts \	Vendors	(1) Or	n Ord	er (1)	Ha:	
	1	10												
	In	ventori	ed Date (Cost per	Unit ()riginal	Qty.	Curr	ent Qty.	PO Nur	mber	Avg. Co	st	
		2/	/8/2007	8.	1575		4.00		3.0000	070212	-160	8.	16	
- 19 7	71N24MDS f	ltnasc	Fleet - North	Area Service	e Center 1	-6H2 (1-6H2			493	3 A	verage		71N24MDS
	Inventory (1)	Transacti	ons (2) Histo	ry (1) Part	s Vendors	(1) On Or	der (1)	Hazard	d Codes (0)	Work Orders	s (0) A	Material Categ	ory (10)) Fluid Ca
	5	Q 🖪										Trans	actio	ns 📈-
		Date	Transaction T	ime Qty.	Unit Cost	Part ID	Part De	scriptio	n	Transaction 1	уре Те	xt Referenc	e	
	P	9/7/2015	6:39	PM 1.00	8.1600	71N24MDS	SNAPTIC	GHT TES	T COUPLER	Loc Count Ad	i Qty (-)	Added th	ru Parts	Module

Inventory count is greater than the current quantity at that location.

When the user enters a count that it greater than the original quantity, it is like hitting the Add to Inventory button - the system enters a new record in the PTPARTCOST table.

Enter Inventory Count			23
PartID	TA040-9	BRACKET KIT, REPLMT FOR TAO	
Location	ns	not stocked	
Count	2	Original Quantity: 1	
Per Item Cost	118.5099	995 Adjustment: 1	
Date	9/7/201	5 15 6:47 PM 🚔 🕓	
Reference Number	Added th	nru Parts Module	
Description			
Transaction Description			3
Cancel		OK	\Box

- P	TA040-99700	fltnasc	Fleet - North Area Service Center	ns n	ot stocked	621	
	Inventory (1) Transaction	s (1) History (1) Parts Vendor	s (1) On Ord	ler (1) Hazar	d Codes (0) Wo	ork Orders
		8	×				
		Warehouse ID	Warehouse Desc.	Location Des	c. Location ID	Location Rec #	Quantity
	e e e e e e e e e e e e e e e e e e e	fltnasc	Fleet - North Area Service Center	not stocked	ns	621	2.0000

P	TA040-99700	fltnasc	Fleet -	North Area Ser	vice Center	ns	not stocked	
_	Inventory (1) Trar	sactions (1)	History (2)	Parts Vendors	; (1) On O	rder (1) Haza	rd Codes (C
	Inventor	ried Date	Cost per Unit	Original Qty.	Current Qty	. PO Numb	er	Avg. Cost
	9	9/7/2015	118.5100	1.00	1.0000	Added the	ru Parts Module	118.51
	1.	/25/2007	118.5100	1.00	1.0000	070212-1	55	118.51

- 🄊	TA040-99700	fltnasc	Fleet - North Are	a Service	Center n	s n	ot stocked	e	521	3 Average	TA040-99700
	Inventory (1)	Transactio	ons (2) History (2	2) Parts	s Vendors	(1) On Ord	ler (1) Haza	rd Codes (0)	Work Orders	(0) Material Category (10) Fluid Category (0)
		8								Transacti	ons 📈
		Date	Transaction Time	Qty.	Unit Cost	Part ID	Part Descri	ption		Transaction Type Text	Reference
	P	9/7/2015	6:47 PM	1.00	118.5100	TA040-9970	BRACKET K	IT, REPLMT FOR	TA040-18502	Loc Count Adj Qty (+)	Added thru Parts Module

Set Reorder Point

This tool allows the user to quickly set the reorder point for this part at this location. Prior to Version 7.6 this was important because the grid would only show locations where the Quantity > 0 or the Reorder Point > 0. The grid now shows all locations that the parts are deposited at one time or another. The reorder point is still used to send out reminders about parts that need to be reordered or restocked at a warehouse.

Set Reorder Point for Selected Records	23
Reorder Point	
Cancel	ОК

Vendor Tab

- P	301	GWH1	Gene	ral Warehouse 1	B1		Bin 1
	Inventory (3) Transa	ctions (16)	History (7)	Parts Vendors (1) On (Order (1)
		5	2	×			
		Rank	Vendor ID	Vendor Part ID	Description	End Da	te
	1		07	F2500	Mueller Hydran	:	

This tab shows all vendors from whom you can get the part (or at least have a link to the part). If you plan on using the Purchase Order module, you must have vendors defined and what parts the vendor can supply to you. The vendor module is described in depth in the Vendor section.

Notes:_____

Part History Tab

— P	301	GWH1	Genera	l Warehouse 1	E	1 Bin	1		642
	Inventory (3) Tran	sactions (16)	History (7)	Parts Vendor	s (1) On Orde	er (1) Haza	rd Codes (1)	Wor
	<u></u>	cs							
	Inventorio	ed Date	Cost per Unit	Original Qty.	Current Qty.	PO Number		Avg.	Cost
	9/	7/2015	655.0000	1.00	1.0000	Inventory Ret	urn WO# 2015	-01916 65	54.39
	4/3	80/2015	0.0000	5.00	5.0000	Inventory Ret	urn WO# 2015	-00004 65	54.39
	4/3	80/2015	1310.0000	5.00	5.0000	Inventory Ret	urn WO# 2015	-00004 65	54.39
	6/2	21/2007	655.0000	10.00	10.0000	070815-182		65	54.39
	6/2	1/2007	655.0000	15.00	15.0000	070815-182		65	54.39
	6/2	20/2007	655.0000	120.00	29.0000	Added thru Pa	arts Module	65	54.39
	6/2	20/2007	645.0000	10.00	10.0000	Added thru Pa	arts Module	65	54.39

This tab shows several things:

- 1. The transaction every time more of the part was added to the inventory system the date, the cost per unit, the original quantity and the description of how it was entered manually or through the Purchase Order system
- 2. The current quantity remaining from the original quantity that was added.
- 3. The current Average Cost of the part. This is generally not calculable unless no further transactions have occurred since the last part entry.

There are two tools that are available in this grid.

Adjust Cost per Unit

The Adjust Cost per Unit tool allows the user to make modifications to a per unit cost for a particular entry. For example, lets say that the user accidently entered a \$655 cost per unit below and they should have used \$700.



The user can highlight the row, right-mouse click and select the Adjust Cost per Unit tool. A dialog will appear that warns the user that this will recalculate all costs for this part. This is important because there is no undo button. Each undo will have to be done manually and they can be quite tedious.

Confirmation	23
This function will recalculate all cos undone. Please refer to the help gui before proceeding.	ts for this part. This cannot be de for details on this calculation
Yes	No

Cancelling this dialog mean that no changes are performed. If the user hits OK then a new dialog appears.

Adjust Cost Per Unit	:	23
PartID	301	Mueller Hydrant FlJ 3'
Per Item Cost	655	
New Cost/Unit	700	
Reference number		
Cancel		OK

The New Cost/Unit is initially empty. This is where the user enters the new cost. Cancelling again at this point means that no changes are made. Once OK is selected the system is recalculated.

It is important to note that the average cost is recalculated based not on the Original Quantity of the parts but on the Current Quantity of the parts.

Change PO Number

This tool simply allows the user to manually change the text field currently displayed under the PO Number column.

Change PO Number	23
New Reference:	
Cancel	ОК

Transaction Tab

- P	3	01	GWH1	General Wareho	use 1	B1		Bin 1	642 1	FIFO-First In First Out 13599	75.00 100.00				
	1	Inventory (3)	Transacti	ons (16) History	(7) Pa	rts Vendors	(1) On	Order (1) Hazard (odes (1) Work Orders (1)	Material Category (16) Fluid C	ategory (0)				
	I	Ľ	0						Transactions 📈						
			Date \$	Transaction Time	Qty.	Unit Cost	Part ID	Part Description	Transaction Type Text	Reference	Description				
		1	9/7/2015	6:36 PM	0.00	0.0000	301	Mueller Hydrant FlJ 3	Loc Count - No Adjustment	Added thru Parts Module					
		1	9/7/2015	12:54 PM	1.00	655.0000	301	Mueller Hydrant FlJ 3	Return to Inventory	Rtrn-WO# 2015-01916	Returned on Work Order 2015-01916				
		P	9/7/2015	12:30 PM	1.00	655.0000	301	Mueller Hydrant FlJ 3	Disburse Parts	Disp-WO# 2015-01916	Used on Work Order 2015-01916				
		P	9/7/2015	12:14 PM	25.00		301	Mueller Hydrant FlJ 3	Transfer Parts		Transfer 25 parts from Bin 1 to Mobile1 Location1				
		P	9/7/2015	12:02 PM	5.00	655.0000	301	Mueller Hydrant FlJ 3	Disburse Parts	Disp-WO# 2015-01916	Used on Work Order 2015-01916				

This tab shows all of the transactions that have been logged for the part. This is not used to Add, Edit or Delete transactions but a user can view more details of any transaction record from here.

On Order Tab

— P	301	GWH1	General Wa	arehouse 1	B1	Bin 1	
	Inventory (3)	Transaction	ns (16) His	story (7) Parts Ve	endors (1)	On Order (1)	Hazard Codes (1)
	6 8	- CSV					
	PO Numbe	er Date	Qty Recvd	Vendor UOM Text	Part Units	Part UOM Text	Parts Remaining
	070045 40	0 4 100 10007	25.00	To all	25.00	E h	0.00
	070815-18	6/20/200/	25.00	Each	25.00	Each	0.00

This tab displays all POs for which the Part has been included in a purchase order, how many parts were ordered and how many are still remaining to be received from active purchase orders.

Hazard Codes Tab



This tab shows all Hazard codes related to the Part. The user will have to determine the alphanumeric popup list that they wish to use to track hazardous items as Lucity does not have a prepopulated list. WO Tab

- P	301 GW	H1 Gene	eral Warehouse 1	B1	Bin 1		642 1
	Inventory (3)	Transactions (16) History (7)	Parts Vendors (1)	On Order (1)	Hazard Codes (1	Work Orders (1)
	0	. .	5 O 🖬				
	Work Order #	Category Text	Main Task Text	Problem Text	Reason Text	Lead Worker Text	Assigned Crew Text
	2015-01916	Hydrants	Work Zone	WATER FLOW TEST		Don Pinkston	

This tab shows every work order for which this part has been used. Similar to Transactions, the user only has the ability to view the WO record from here. As an example, below shows the results of the Transaction tab for this same part:

— P	301		GWH1	General Warehou	use 1	B1		Bin 1	642 1	FIFO-First In First Out 13599	75.00				
	Invento	ry (3)	Transactio	ons (16) History	(7) Pa	rts Vendors	(1) On	Order (1) Hazard	Codes (1) Work Orders (1)	Material Category (16) Fluid C	ategory (0)				
		C	0							Transactions 📈					
			Date ¢	Transaction Time	Qty.	Unit Cost	Part ID	Part Description	Transaction Type Text	Reference	Description				
		P	9/7/2015	12:02 PM	5.00	655.0000	301	Mueller Hydrant FlJ	3' Disburse Parts	Disp-WO# 2015-01916	Used on Work Order 2015-01916				

Notice how the Reference number in the transaction displays the WO # that is found in the WO tab.

Notae	•
NULCS	•

Material Cat Tab

It allows users to assign categories to parts directly. Once assigned, it automatically assigns the linked material to the same category.



Fluid Cat Tab

Works just like the Material Category tab except that the Fluid Code in the Order Info tab must have valid data.

Notes:_____

Toolkits

There is four toolkits featured in the Parts module, Update Average Cost for Selected Records, Manual Parts On Hand Count Adjustment, Manual Transaction Count Adjustment and the Add to Inventory Tool.

Update Average Cost for Selected Records (Toolkit)

This tool can be used to quickly update the average cost for a specific part if the part comes out of synch between the average cost found in the PTPARTSCOST Table and the average cost displayed on the parts form in the average cost field. The tool can also be used if an agency desires to cost a part at a different average cost than the one the system calculated. In the tool dialog you simply have to enter a new average cost for the part you are also provided with a field to provide a reason for the change in the parts average cost.

(Update Average Cost for Selected Rec	ords	23
	Current Average Cost	653.75	
	Average Cost without Historical Data	654.360707	
	New Average Cost	0	
	Reference		
	Cancel	ОК	

Manual Parts on Hand Count Adjustment (Toolkit)

This tool allows you to manually adjust the quantity on hand field for a specific part. Lucity provides you with a report called parts with inaccurate Parts counts we recommend that you only run the Manual Parts on Hand Count Adjustment tool after running the report and verifying a part has a discrepancy between its quantity on hand value and its transaction records. When you run the tool give the part a new count and a corresponding record is created in the parts transactions grid.

Manual Parts Or	Hand Count Adjustment	23
New Count		
Cancel		ОК

Manual Transaction Count Adjustment (Toolkit)

This tool allows you to manually add a transaction record for a part to adjust the parts transaction quantity. This tool does essentially the exact same thing as the Manual Parts on Hand Adjustment tool but for the transaction count specifically. This tool should also only be run after the parts with inaccurate part counts report has been run and you verify that the specific part needs an adjustment to its transaction count. The appears the exact same as the Manual Parts on Hand Count Adjustment tool only with a different title.

Add to Inventory (Toolkit)

One quick way to enter parts quantities into the system is to find the part in the parts module and use the Add to inventory toolkit. The following dialog appears after selecting the toolkit.

Once clicked, the user gets the standard "Add to Inventory" dialog as shown below. This is the dialog that they will always get when adding a new part quantity (and is the same dialog as described in the Warehouse section).

Add To Inventory		23	
PartID	301	Mueller Hydrant FlJ 3'	
Location	B1	Bin 1 🧮	
Quantity			
Per Item Cost	1310		
Date	<m d="" td="" yy<=""><td>yy> 15 🗧 🕓</td><td></td></m>	yy> 15 🗧 🕓	
Reference Number	Added th	nru Parts Module	
Description			
Transaction Description			
Vendor			
Cancel		ОК	

In this case, the Location field is defaulted to the Part's default Warehouse/Location. If the part quantity is actually going to be placed in another location, the location can be changed. Then the user enters the Quantity to be added, the Per Item Cost and the Date. Those four fields (including the Location) are all required prior to hitting Save. The Reference Number can be changed and a Description can be entered if desired.

Notes:_____

Vendors

Vendor information must be filled in prior to purchase orders being entered. If the Purchase Order system is not used, then the Vendor module can be skipped. This grid can be accessed from the Inventory module drop down list.

ᆉ	=lu		Menu Favorites Sewer Storm Tran	S Open Vie S Water Electi	ews	Modules /Park Flee) et Plar	nt/Equip Fac	ility Refu	se/Recycle Work	Inventory						Cucity
2	?	· †- 📽 🗐 Q (Part Watehouses (103) Parts (105) Part Transactions (108) Part Transactions (108) Part Partose Orders (128) Vendors (107) Bar Coding Input Review (471) 10 •						7 60 > >>					
		Address	Address 2	Address 3	Address 4	Cell Phone	City	Contact Name	Created By	Creation Date Time	Description	Document Available	E-Mail	Fax	General Comment	Last Modified Time	Main Phon
4	} 🖻	958 W. Main		Boston, MA 11236				Mark Petersen			Clow Medallion					10:23 AM	
4	} 🔊	5022 N 54TH AVE. #10	GLENDALE, AZ 85301								WEST COAST EQUIPMENT AND PARTS					12:55 PM	
4	þ 🖻	1725 S. COUNTRY CLUB	MESA, AZ 85210-6003								EMPIRE MESA PARTS					10:34 AM	
4	þ 🤊	4830 S 33RD STREET	PHOENIX								KENNEDY HYDRAULICS OF ARIZONA					4:46 PM	
4	þ 🖻	PO BOX 1969	EASLEY, SC 29641								RJM WASTE EQUIPMENT CO					7:36 AM	
4	} 🖻	306 S. COUNTRY CLUB DR.	MESA, AZ								BROWN EVANS DISTRIBUTING CO.					4:13 PM	
4	þ 🤊	3010 W. THOMAS	PHOENIX, AZ 85017								COPPERSTATE BATTERY, INC.					3:52 PM	
4	} 🖻	1717 W. ROOSEVELT	PHOENIX, AZ 85007-2038								CW CARTER					3:50 PM	
4	} 🖻	4030 E BROADWAY RD STE 801	PHOENIX, AZ 85040								CANYON COMPRESSOR CO INC					12:23 PM	
4	F 🖻	3651 N. 35TH AVE	PHOENIX, AZ 85017-4410								CANYON FIRE EXTINGUISHER CO					12:12 PM	

Users can add a new record by clicking the green add button on the tool bar which brings up the vendors form. When adding a record, the Vendor ID must be unique and the Vendor Description should be filled in. The rest of the first page is strictly optional and is customizable.

┽┝	Vendors Form 1 of 170				
	Vendor ID*	Description			
	002105	mike's Parts Shop			
	Contact Name				
	Mike Schuckman				
	Address				
2	10651 Barkley St				
U	Totor Bunney or.				
	City	State	Zip	7	
<u> </u>	Ovelrand Park	KS	66212		
-	Phone Number	E-Ma	il		Fax
(<u>=</u> :)	(555) 555-5555	msc	huckman@lucity.com:		
:: 0					
	General Comment				
	ACT 2015!!		~	Document Available	
			~		

Vendor Parts Tab

This tab tracks every Part that is associated with the Vendor.

									Vend	ors									
	<u>.</u> -	🖫 🔻 😻 🗔 📀 📓 📘 🛛 Vendors 📈															10 • 1	of 17	G0 > >>
		Address	Address 2	Address 3	Address 4	Cell Phone C	City Co	ontact Name	Created By	Creation Date Time	Description		Document Ava	ilable E-i	Mail I	Fax General (Comment Las	Modified Time	Main Phon
+ 1	9	958 W. Main		Boston, MA 11236			м	Nark Petersen			Clow Medallion							10:23 AM	
+ 1	9 !	5022 N 54TH AVE. #10	GLENDALE, AZ 85301								WEST COAST EQUIPMEN	NT AND PARTS						12:55 PM	
÷	9	1725 S. COUNTRY CLUB	MESA, AZ 85210-6003								EMPIRE MESA PARTS							10:34 AM	
- 1	9 ·	4830 S 33RD STREET	PHOENIX								KENNEDY HYDRAULICS	OF ARIZONA						4:46 PM	
		Vendor Parts (2) Purchase	Orders (1)						Vendor Pa	rts 📈-						10 -			
		Created By Cr	reation Date Time Descri	ption		Document	Available	End Date L	ast Modified B.	 Last Modified Date 	e Last Modified Time	Part ID	Part Rec #	Rank R	atio	Shipping Dimen.	Shipping Wei	ht Unit of Meas	ure Unit c
		e e e e e e e e e e e e e e e e e e e	HEIL P	UMP				E	BRUCEM	2/9/200	7 4:48 PM	219-2263R	2790		1.000			2	Each
		P	REBUIL	T PARKER HYDRAUL	C GEAR PUMI	•		E	BRUCEM	2/9/200	7 4:48 PM	313-9610-367R	2791		1.000			2	Each

From this screen users can add parts that have been previously entered into the system and associate them with a particular vendor. The Vendor Part ID must be unique (against all other Vendor Parts). However, it can be the same as the Part ID. The UPC Code is particularly useful when entering work resources (as described later).

The Vendor UOM also does not have to match the Part UOM. For instance, the Vendor might sell the item in a box of 6 parts. Therefore the Vendor UOM may be 'case' and the Ratio would be 6. If the Vendor Unit Cost was \$12.00, then the Part Unit Cost would be \$2.00 each.

The Rank and End Date would be for situations where the Vendor was selected to provide this part for a period of time (say Sand or Gravel).

┥┝	Vendor Parts Form
	Vendor Part ID* Description Vendor Rec # 022-3509 Tailgate Seal 173
	000-00-0002 Part Pec #* Vender Part Pec #
2	022-3509 SEAL, TAILGATE Each Image: Constraint of the second seco
0	5 Set
F	5.000 Vendor Unit Cost
-0	2.00 Shipping Dimen.
	Shipping Weight
	Rank
	End Date

Purchase Orders Tab

- 19	PO B	OX 1969		EASLEY, SC 2964	1						LIM WASTE EQUIPMEN	гсо				7:3	16 AM	bobj	2/9/	2007 (8
	Ver	idor Parts	(1) Purcha	se Orders (4)																
			50						P	urchase Orders	2-						10 -			
			Created By	Creation Date Time	Date	Description	Document Available	General Comment	Items Cost	Last Modified By	Last Modified Date	Last Modified Time	Misc. Costs	Payment Method	Payment Method Text	PO Number	Shipping Costs	Status Code	Status Type	Taxes
	11																			-
		- P			1/31/2007	RJM WASTE EQUIPMENT CO			2360.00	bobj	2/9/2007	3:09 PM	0.00	1	Purchase Card	070209-122	70.00	999	Complete	191.16
		1			2/7/2007	RJM WASTE EQUIPMENT CO			2760.00	bobj	2/9/2007	2:58 PM	0.00	1	Purchase Card	070209-118	70.00	999	Complete	223.56
		1			2/8/2007	RJM WASTE EQUIPMENT CO			2988.00	bobj	2/9/2007	3:23 PM	0.00	1	Purchase Card	070209-116	70.00	999	Complete	242.03
		1			1/29/2007	RJM WASTE EQUIPMENT CO			2988.00	bobj	2/9/2007	3:14 PM	0.00	1	Purchase Card	070209-107	70.00	999	Complete	242.03

This tab shows all POs that are, or have been, assigned to the Vendor. Users cannot add POs from this tab. They only have the ability to view the POs from this tab. Adding purchase orders must be done from the Part Purchase Order module located within the Inventory drop down menu.

Parts Purchase Orders

The Parts Purchase Orders module gives the users a quick and easy way to see important information about the purchase orders associated with specific parts.

									Part Purc	hase Orders										Þ
		· ₹- (y 👍 😳 🖪						Purc	hase Orders 📈•							10 🕶	1	of 10 GO	> >1
		Created By	Creation Date Time	Date	Description	Document Available	General Comment	Items Cost	Last Modified By	Last Modified Date	Last Modified Time	Misc. Costs	Payment Method	Payment Method Text	PO Number	Shipping Costs	Status Cod	e Status Type	Taxes T	otal (
÷	Ø			6/20/2007	Clow Medallion			16375.00	GBA	8/15/2007	10:25 AM	0.00	1	Purchase Card	070815-182	0.00		New	0.00	1637
÷	1			2/13/2007	FIRST IN INC			1520.80	GBA	2/13/2007	1:11 PM	6.00	1	Purchase Card	070213-167	0.00		New	122.91	164
÷	P			2/13/2007	BROWN EVANS DISTRIBUTING CO.			1527.80	BRUCEM	2/13/2007	1:04 PM	5.00	1	Purchase Card	070213-166	0.00	1	New	123.39	165
÷	6			1/24/2007	AZ REFUSE SALES LLC			467.51	bobj	2/13/2007	11:22 AM	0.00	1	Purchase Card	070213-165	85.67	99	Complete	37.87	59
÷	P			2/13/2007	FIRST IN INC			96.00	GBA	2/13/2007	11:07 AM	0.00	1	Purchase Card	070213-164	0.00		New	0.00	9
+	6			2/8/2007	WEST COAST EQUIPMENT AND PARTS			1780.00	bobj	2/12/2007	12:56 PM	0.00	1	Purchase Card	070212-162	0.00	99	Complete	144.18	192
÷	6			2/8/2007	GRANBERRY SUPPLY CORP			30.20	bobj	2/12/2007	12:46 PM	0.00	1	Purchase Card	070212-160	0.00	99	Complete	2.43	3
+	1			1/26/2007	RLS SERVICES INC			234.38	bobj	2/12/2007	12:41 PM	0.00	1	Purchase Card	070212-159	0.00	99	Complete	18.98	25
÷	6			2/8/2007	BERGE FORD			65.94	bobj	2/12/2007	12:39 PM	0.00	1	Purchase Card	070212-158	0.00	99	Complete	5.31	7
÷	۴			2/8/2007	AZ BRAKE & CLUTCH SUPPLY INC			154.86	bobj	2/12/2007	12:37 PM	0.00	1	Purchase Card	070212-157	0.00	99	Complete	12.54	16

Notes:

To create a new purchase order users select the add option on the Parts Purchase Orders module toolbar. Doing this brings up the purchase order form. The PO Number is automatically filled out and generated by the system so long as the Auto Generate PO Number tool is set to yes.

Work Orders	-	ĺ	
I their classe		1	
umber Format Tracking Options General Options Parts Ir	ntegration Fina	ncial Integration Advanc	ced Options
Option Name	Character	Text	Number
ntegrate Work and Parts Inventory (Y,N)	Y		
Always use Parts Default Location	N		
Force dispersal from mobile warehouses	N		
Prevent Negative Part Quantities	Y		
Make Vendor Part No the Default for Part Lookup	N		
Comma Delim list of UserIds that should not trigger disp/ret not	if	TEST,NICOLE	
Email address to send disbursal/return notifications		nschmidt@gbams.com	
Use Parts Warehouse Security	N		
Use Part Open Inventory Date Range	N		
Reset PO Number Each (M,Y,D,N)	Y		
Reset PO Number To			1
Auto Generate PO Numbers	Y		

╬	Part Purchase Order	rs Form		
	PO Number* 150908-029		Date*	
		Gene	eral	
	Created By* Lucity Vendor ID*		Work Order #	
F	Vendor Invoice # Status Code* New			
	Items Cost Misc. Costs 0.00			
	Shipping Costs 0.00 Taxes 0.00			
	General Comment			
				Ç

Once the record is saved, the PO Number and PO date **cannot** be modified. The Vendor field is also required in order to save the record (and probably should not be changed either).

Parts Purchase Order Grid

The grid users see is again customizable through the Lucity Administration program. Information available at a glance can be as detailed or as basic as is desired. When a field is expanded, two tabs appear. One for Parts and one for Receipts.

									Part Pu	rchas	e Order	s										
	<u>.</u> -	∀ -	📑 🗐 י	o 🖪 📘					P	urchas	e Orders	<u>×-</u>							10 🔻	1	of 10 (GO > >>
	'	Vendor ID	Created By	Creation Date Time	Date	Description		Document Avail	able General Comm	nent Ite	ems Cost Li	ast Modified B	/ Last Modified D	ate Last M	lodified Time Mi	sc. Costs F	Payment M	ethod Pa	iyment Me	thod Text	0 Number	Shippin
- 7	se la constante de la constante				6/20/2007	Clow Medallio	n				16375.00 G	iBA	8/15/2	007	10:25 AM	0.00		1 Pu	urchase Ca	rd (70815-182	
		Parts (1)	Receipts (2	2)																		
			🚔 🔁 🗎	×					F	arts 🔰	< <u>-</u>							10 -				
			Created	By Creation Date T	ime Descri	ption	Last Modified By	Last Modified Date	Last Modified Time	Logge	d Part Num	ber Part Rec	# Part Unit Cost	Part Units	Part Units rec'v	d Parts Re	maining	Qty Recvo	Ratio	Unit of Meas	ure Unit	of Measu
			2		Muelle	r Hydrant FlJ 3'	GBA	8/15/2007	10:25 AM		301	285	8 655.00	25.00	25.0	0	0.00	25.00	1.000	2	Each	
			•																			

Parts Tab

This is where users can enter what they want to order from the Vendor. This is different from the parts inventory tab discussed earlier. By clicking the add symbol for this tab it brings up the form for the parts purchase orders. Here users can add parts individually or in groups to a purchase order.

							Part Pu	ircha	se Orde	rs										
🛅 🖻 - 🌹 - 🎚	🔮 🖪 🔕	8 📘					P	urchas	e Orders	<u>*-</u>							10 🔻	1	of 10	G0 > >>
Vendor ID	Created By Cr	eation Date Time	Date	Description		Document Avail	lable General Comr	nent It	ems Cost I	ast Modified By	Last Modified D	ate Last M	odified Time	Misc. Co	sts Payment	Method I	ayment Me	ethod Text	PO Numbe	r Shippin
			6/20/2007	Clow Medallio	n				16375.00	GBA	8/15/2	007	10:25 AM	0.	00	1	Purchase Ca	ird	070815-182	2
Parts (1)	Receipts (2)																			
	0						F	Parts	K-							10				
	Created By	Creation Date Ti	me Descri	iption	Last Modified By	Last Modified Date	Last Modified Time	Logge	d Part Nur	nber Part Rec	# Part Unit Cost	Part Units	Part Units r	ec'vd Par	ts Remaining	Qty Recv	d Ratio	Unit of Me	asure Unit	of Measu
P	9		Muelle	er Hydrant FLJ 3'	GBA	8/15/2007	10:25 AM	V	301	285	655.00	25.00	:	25.00	0.00	25.0	0 1.000	2	Each	1
	-																			
		e Ore	der	Parts																
		1 01	3		•															
			,																	
		UF	C Cod	e																
	Ð	Г							-											
		, D-	at Num	nhor	v	landar Dart I	No													
		2	D1	iber	Ī	2500														
		15			P	2000														
		Ve	ndor F	Part Rec	¥						Part R	ec #*								
	2	E	2500	N	ueller Hy	drant						30	01 Mue	eller H	lydrant	FIJ 3	•			
	G	Ve	ndor I	IoM							Unit of	Maaci	IFO		-					
		2		Fach							2	F	ach					_		
	$\mathbf{\nabla}$	14		JEdon							14	jet								
		Ve	ndor (Unit Cost							Part U	nit Cos	t	Part	t Units					
	_		65	5.00							6	655.00			25.	00				
	1	Ra	tio																	
	-0		1	.000																
		1																		
		Ve	nd Un	its Recv'	1	Vendor F	Remaining				Part U	nits re	c'vd	P	arts Re	maini	ıg			
			2	5.00			0.00					25.00				0.00				

In the above example basic information on the part is provided at the top of the form including UPC code, part number, and vendor part number. Below we see the vendor part record number and part records number, vendor and client unit of measure fields, vendor unit cost and part unit cost, parts units, and several fields for quantities on both the vendor and client sides. The ratio in this case is 1 because the number of parts units is equal to the number of vendor units.

Receipts Tab

On the receipts tab under parts purchase orders there is no way for the users to directly add a receipt. The receipts are generated by altering the status of the purchase order using the toolbox options. Once one of these options is selected and the corresponding information is provided a receipt for that part will be generated and will show up under the receipts tab.

] 🕘 🛛 🗍 🖷	- 🕓 🖪	×					
PO Number D	Date Vendor	Invoice # Ve	endor ID	Work Order #	Status Code		
	8/27/2015 Lucity	08	2185		1		
Parts (2) R	eceipts (0)	00	52105				
	CC CSV	×					
Ac	dd Multiple Items			scription	Last /		
	omplete W/O Defa	ult Location]t				
	omplete with Defau	It Location		LINDER, PACKE	K KAP LUCIT		
	artial with Default	Location		TER, OIL	Lucity		
Pr	opulate Quantity fo	r Selected Re	cords				
Re	etire Part Item						
150826-01					1		
Complete W/O De	efault Location				23		
Deference Num	ber: 150827-0	25					
Data:	0/9/2015	25		F			
Comment:	7/0/2013	LC ACT	2045	l	15		
connenci	Complete	d for ACT	2015				
Cancel				OK			
				011			
				F	art Purchas	e Orders	
	ade Ordar # Status Cod	a Itams Cast H	ing Castr S	F	art Purchas	e Orders e Orders X ≁	
dor Invoice # Vendor ID Wo	ork Order # Status Cod	e Items Cost Mi	isc. Costs	Fishipping Costs Ta:	Purchase Purchase Res Total Costs	e Orders e Orders X ≁	
dor Invoice # Vendor ID We	ork Order # Status Cod	e Items Cost Mi 1 0.00	isc. Costs S 0.00	F shipping Costs Ta: 0.00	art Purchas Purchas Total Costs	e Orders e Orders ∦ ≁	
dor Invoice # Vendor ID We	ork Order # Status Cod	e Items Cost Mi 1 0.00	isc. Costs 5 0.00	F Shipping Costs Ta: 0.00	art Purchas Purchas Total Costs 0.00 0.00	e Orders e Orders 🚀	
dor Invoice # Vendor ID Wo	ork Order # Status Cod	e Items Cost Mi 1 0.00 Last Modif	isc. Costs S 0.00	F ihipping Costs Ta 0.00 Rect t Modified Date L	art Purchas Purchas 2.00 0.00 eipts	e Orders	Total
dor Invoice # Vendor ID We ty 082185	ork Order # Status Cod	e Items Cost Mi 1 0.00 Last Modif	isc. Costs 5 0.00 fied By Las	F ihipping Costs Ta: 0.00 Reco t Modified Date L	art Purchas Purchas 0.00 0.00 eipts	e Orders X-	Total
dor Invoice # Vendor ID We ity 082185	ork Order # Status Cod General Comment 115 Completed for ACT	e Items Cost Mi 1 0.00 Last Modif 2015 Lucity	isc. Costs S 0.00 fied By Las	ihipping Costs Ta: 0.00 Reco t Modified Date L 9/8/2015	art Purchas Purchas total Costs 0.00 0.00 eipts	e Orders X- Orders X- Reference Number 150827-025	Total 0.00
dor Invoice # Vendor ID Wo ity 082185 Creation Date Time Date 7/8/2015 9:17:00 AM 9/8/20	ork Order # Status Cod General Comment 115 Completed for ACT	e Items Cost Mi 1 0.00 Last Modif 2015 Lucity	isc. Costs S 0.00	F ihipping Costs Ta 0.00 Rect t Modified Date L 9/8/2015	eipts 9:17 AW	e Orders e Orders	Total 0.00
dor Invoice # Vendor ID Wo ty 082185 Creation Date Time Date 7/8/2015 9:17:00 AM 9/8/20	ork Order # Status Cod General Comment 115 Completed for ACT dor Qty Location Numb	e Items Cost Mi 1 0.00 Last Modif 2015 Lucity	isc. Costs S 0.00 Fied By Las	F shipping Costs Ta: 0.00 Reco t Modified Date L 9/8/2015	art Purchass Purchass 0.00 0.00 eipts >>> ast Modified Time 9:17 AW Details	e Orders X- e Orders X- Reference Number 150827-025	Total
dor Invoice # Vendor ID We ty 082185 Creation Date Time Date 9/8/2015 9:17:00 AM 9/8/20 Part ID Description Vend	ork Order # Status Cod General Comment 115 Completed for ACT dor Qty Location Numb	e Items Cost Mi 1 0.00 Last Modif 2015 Lucity warehouse II	isc. Costs 9 0.00 iied By Las	F ihipping Costs Ta: 0.00 Reco t Modified Date L 9/8/2015	art Purchass Purchass ast Nodified Time 9:17 AW Details	e Orders X- e Orders X- Reference Number 150827-025	Total 0.00
dor Invoice # Vendor ID We ity 082185 Creation Date Time Date 9/8/2015 9:17:00 AM 9/8/20 Part ID Description Vendo 1036 FILTER, OIL	ork Order # Status Cod General Comment 115 Completed for ACT dor Qty Location Numb 3.00	e Items Cost Mi 1 0.00 Last Modif 2015 Lucity eer Warehouse II	isc. Costs S 0.00 fied By Las D Total Co: 0.0	st Logged	eipts 9:17 AW 9:17 AW	e Orders X-	Total 0.00
	PO Number I PO Number I Parts (2) F Parts (2) F Parts (2) F Parts (2) F Parts (2) F P P P P P P P P P P P P P P P P P P P	PO Number Date Vendor PO Number Date Vendor 150827-025 8/27/2015 Lucity Parts (2) Receipts (0) Add Multiple Items Complete W/O Default Partial W/O Default Partial W/O Default Populate Quantity for Reference Number: 150827-02 Date: 9/8/2015 Complete Complete W/O Default Location Reference Number: 150827-02 Date: 9/8/2015 Complete	PO Number Date Vendor Invoice # Volume PO Number Date Vendor Invoice # Volume 150827-025 8/27/2015 Lucity 00 Parts (2) Receipts (0) Add Multiple Items Complete W/O Default Location Partial W/O Default Location Partial with Default Location Partial with Default Location Partial with Default Location Populate Quantity for Selected Re Retire Part Item 150827-025 Date: 9/8/2015 Comment: Completed for ACT Cancel	PO Number Date Vendor Invoice # Vendor ID 150827-025 8/27/2015 Lucity 082185 Parts (2) Receipts (0) Add Multiple Items Complete W/O Default Location Complete with Default Location Partial W/O Default Location Partial with Default Location Populate Quantity for Selected Records Retire Part Item 150826-01 Complete W/O Default Location Reference Number: 150827-025 Date: 9/8/2015 Comment: Completed for ACT 2015 Complete diagram for the selected for t	PO Number Date Vendor Invoice # Vendor ID Work Order # 150827-025 8/27/2015 Lucity 082185 Parts (2) Receipts (0) Add Multiple Items scription Complete W/O Default Location YINDER, PACKE Partial W/O Default Location YINDER, PACKE Partial W/O Default Location Partial W/O Default Location Partial W/O Default Location Partial W/O Default Location Partial W/O Default Location Partial W/O Default Location Partial W/O Default Location TER, OIL Populate Quantity for Selected Records Herire Part Item 150826-01 150827-025 Date: 9/8/2015 Comment: Completed for ACT 2015 Cancel OK	PO Number Date Vendor Invoice # Vendor ID Work Order # Status Code IS0827-025 8/27/2015 Lucity 082185 1 Parts (2) Receipts (0) Image: Complete W/O Default Location scription Last / Complete W/O Default Location Complete W/O Default Location VLINDER, PACKER RAP Lucity Partial W/O Default Location Partial W/O Default Location Populate Quantity for Selected Records Image: Complete W/O Default Location Populate Quantity for Selected Records Retire Part Item 1 Complete W/O Default Location Image: Partial W/O Default Location Image: Partial W/O Default Location Reference Number: 150827-025 Pate: Part Item 1 Complete W/O Default Location Image: Partial W/O Default Location Image: Partial W/O Default Location Image: Partial W/O Default Location Reference Number: 150827-025 Image: Partial W/O Default Location Complete M/O Default Location Image: Partial W/O Default Location Image: Partial W/O Default Location Image: Partial W/O Default Location Cancel OK <td>P0 Number Date Vendor Invoice # Vendor ID Work Order # Status Code Pot Number Date Vendor Invoice # Vendor ID Work Order # Status Code Parts (2) Receipts (0) Parts (2) Receipts (0) Parts (2) Receipts (0) Add Multiple Items partial W/O Default Location Fscription Last / Complete W/O Default Location Partial W/O Default Location Partial W/O Default Location Partial W/O Default Location Partial W/O Default Location Partial W/O Default Location Populate Quantity for Selected Records Retire Part Item TER, OIL Lucity 150826-01 Partial W/O Default Location Partial W/O Default Location Partial W/O Default Location Complete W/O Default Location Partial W/O Default Location Partial W/O Default Location Partial W/O Default Location Reference Number: 150827-025 Pate: 9/8/2015 Pate: Partial W/O Default Location Pate: Completed for ACT 2015 Image: OK OK OK</td>	P0 Number Date Vendor Invoice # Vendor ID Work Order # Status Code Pot Number Date Vendor Invoice # Vendor ID Work Order # Status Code Parts (2) Receipts (0) Parts (2) Receipts (0) Parts (2) Receipts (0) Add Multiple Items partial W/O Default Location Fscription Last / Complete W/O Default Location Partial W/O Default Location Partial W/O Default Location Partial W/O Default Location Partial W/O Default Location Partial W/O Default Location Populate Quantity for Selected Records Retire Part Item TER, OIL Lucity 150826-01 Partial W/O Default Location Partial W/O Default Location Partial W/O Default Location Complete W/O Default Location Partial W/O Default Location Partial W/O Default Location Partial W/O Default Location Reference Number: 150827-025 Pate: 9/8/2015 Pate: Partial W/O Default Location Pate: Completed for ACT 2015 Image: OK OK OK

In the views above we see the process by which a receipt is created within the purchase order module. Once the receipt is in the system users can view the receipt created by the system or view more specific details about the receipt under the details tab.

Transactions

The Transactions module is like a general ledger for every part. Every time a part quantity or cost is modified a transaction is logged in the system. Below is an example of what the transaction log looks like after we have been adding, subtracting, ordering, and transferring parts. A few items of note within this module for users to be aware of; first, there is no add button. Users cannot add a transaction from within the module since these records are automatically created and added to the list through other means.

									Part Transact	ions						
Ê	- 1	🎙 - 📑 -	o 🖪						Transactions 淤				[1	10 🔻		1
		Date	Transaction Time	Qty.	Unit Cost	Part ID	Part Description	Transaction Type Text	Reference	Description	Location ID	Location Desc.	Transaction Descript Text	Con	sumable	'
	P	8/28/2015	12:00 AM	5.00	250.0000	301	Mueller Hydrant FLJ 3'	Adjust Inventory Qty (+)	Added thru Warehouse Module	Item Addition	M30	Mike's Primary Warehouse	Test			
	P	8/28/2015	11:00 AM	2.00		301	Mueller Hydrant FLJ 3'	Transfer Parts		Part Transfer	M30	Mike's Primary Warehouse	Test			
	P	8/27/2015		2.00	250.0000	301	Mueller Hydrant FLJ 3'	Adjust Inventory Qty (+)	Added From Purchase Order	Purchase order 150826-019	B2	Bin2				
	1	8/25/2015		100.00	0.2500	055-1391-010	WASHER	Adjust Inventory Qty (+)	Added from Purchase Order	Purchase order 150825-009	1-6D3	1-6D3				
	1	8/25/2015		200.00	0.2500	055-1391-010	WASHER	Adjust Inventory Qty (+)	Added from Purchase Order	Purchase order 150825-009	B1	Bin1				
	1	8/25/2015	8:40 AM	3.00	655.0000	301	Mueller Hydrant FlJ 3'	Adjust Inventory Qty (-)	Removed Thru Parts Module		B2	Bin2	Delete			
	P	8/5/2015	12:00 AM	2.00	655.0000	301	Mueller Hydrant FlJ 3'	Adjust Inventory Qty (+)	Added thru Warehouse Module		B2	Bin2				
	1	9/15/2008		1.00	10.5000	11421460845	OIL FITER	Disburse Parts	Disp-WO# 2008-00006	Used on Work Order 2008-00006	1-413	1-413				
	1	8/15/2007		10.00	655.0000	301	Mueller Hydrant FlJ 3'	Adjust Inventory Qty (+)	Added from Purchase Order	Purchase order 070815-182	B1	Bin 1				
	P	8/15/2007		15.00	655.0000	301	Mueller Hydrant FlJ 3'	Adjust Inventory Qty (+)	Added from Purchase Order	Purchase order 070815-182	B1	Bin 1				

Integrating Parts with Work Orders

There are a number of options that govern the integration between the Work Orders and Parts Inventory modules. Our initial focus will be on simply setting the Integrate Work and Parts Inventory (Y,N) to Y. This means that the user desires the integration to work.

WORK REQUESTS NUMBER FORMAT	
Setup	
□ Parts	
Integrate Work and Parts Inventory (Y,N)	\checkmark
Always use Parts Default Location	
Force dispersal from mobile warehouses	
Prevent Negative Part Quantities	\checkmark
Make Vendor Part No the Default for Part Lookup	
Comma Delim list of UserIds that should not trigger disp/ret notif TEST,NICOLE	
Email address to send disbursal/return notifications	s.com
Use Parts Warehouse Security	
Use Part Open Inventory Date Range	

This integration allows users to automatically remove parts from warehouse locations when using the work order system. It automatically returns parts to the warehouse if not all parts were actually used.

Some items that need to be setup prior to the integration actually working are:

- 1. Material Setup records are linked with Parts Records
- 2. Fluid Setup records are linked with Parts Records
- 3. Equipment Setup records are linked with Warehouses (if desired) so that vehicles or trucks can be used as mobile warehouses out in the field.

How the system interacts with the user is based on many things including which option flags are turned on, the quantity of the parts that are in stock and the number of locations where the part is in stock and the quantity in each location. Our on-line help guide does an excellent job of documenting four scenarios based on the combination of two of these flags: "Always Use Parts Default Location" and "Force Dispersal from Mobile Warehouse". So let's start with these scenarios.

Parts Dispersal Scenarios

Parts Dispersal Scenario 1 - Default Location = N & Force Mobile = N

If both the "Always Use Parts Default Location" and "Force Dispersal from Mobile Warehouses" integration options are set to "No":



The basic concept is that the program will automatically try and use the mobile warehouse first.

Note: Mobile Warehouses are Work Order Equipment records that are linked to Inventory Warehouse records.

Therefore, users should always add the Equipment records to the Work Order Resources grid prior to adding their Material or Fluid records. If there is more than one mobile warehouse record entered, then the user will have to select from which mobile warehouse to take the parts from. If no mobile warehouse exists, then the program prompts the user for where to extract the parts from.



The Part is only located in 1 Warehouse, and Location. There are 3 parts at an average cost of \$8.16. Then I enter a new Work Order and add the part to the work order as a resource using the parts material code.

ᆛᄂ	EVAL1 WO Materials Complete	
	Resource*	
•	71N24MDS SNAPTIGHT TEST COUPLER	Processed by Financials
	Alt Description	
	Department 110201(Facilities Maint 🗃	
0	Class	Units Estimated Units 1.00 0.00
•	Group Number	Unit Cost Estimated Total Cost
ËÕ	2 Each	0.00
	Default Unit Cost	

In the screen shot above I am just about to hit Save. Notice

• Now because the material is linked to the Parts module the Unit cost is \$0. This is because the system does not yet know if the part is average cost, LIFO, FIFO or fixed cost. All of these calculations happen on the save.

In hitting save, the user is not prompted at all. Previously, the user had to put into the system how many parts they wanted to extract from each location, even when there was only one location to grab the part from. With Version 7.6 and onward, if there is only one location from which the system can grab a part then it does so.

┽┝	EVAL1 WO Materials Complete		
	Saved Successfully Resource* 71N24MDS SNAPTIGHT TEST COUPLER		Processed by Financials
	Alt Description		
<u>ତ</u> ଜ	1102010 Facilities Maint	Units	Estimated Units
Ť	Group Number	Unit Cost 8.160	Estimated Total Cost
o	2 Each Default Unit Cost 0.000	8.16	

This is what the WO resource record now looks like after hitting the save

The Part record then shows the reduction of the 1 part used on the work order in the parts Inventory grid.

- 🄊	71N24MDS	fltnasc	Fleet - North Area Service Center	1-6H2 1-6	H2	493		3
	Inventory (1)	Transaction	s (3) History (1) Parts Vendors	s (1) On Orde	r (1) Hazar	d Codes (0) Wo	ork Orders ((1)
		Warehouse ID	Warehouse Desc.	Location Desc.	Location ID	Location Rec #	Quantity	Re
	P	fltnasc	Fleet - North Area Service Center	1-6H2	1-6H2	493	2.0000	

Now, we need to see what happens when there is more than one location from which to pull a part. I will add a warehouse location to a part. Now let's repeat what we did before.

Everything until we hit Save on the WO Resource remains the same. On Save, we get a new dialog

Parts Inve	entory				
G	Needed: 5 Supplied: 5				
	Quantity Selected	Quantity Available	Location Name	Warehouse Name	
-	5	80	B1	GWH1	
		0	1-10A1	fltnasc	\sim
	<)	
	Note: You must click ou	itside of the Quantity Sele	cted field to enable t	he OK button.	
	Cancel				OK

We get this dialog because there are multiple locations where the part could come from and the computer does not know automatically which location to use. Therefore, the user must tell the computer this information. A couple of items of note:

- The number needed so that parts can be disbursed is in the upper left hand corner (the Needed amount). As the user enters the Quantity to take from each location the Supplied quantity increases. Once the Supplied amount equals the Needed amount, the Disburse Parts becomes active.
- Every time that a location is associated with a part, the location appears in the above dialog. Prior to 7.6, it only showed those locations that either had a quantity that was not equal to 0 and/or the Location had been setup with a reorder point for that part.
- The Cancel button. If selected, the dialog box disappears and the user will be provided a message stating that no parts were disbursed. Then the Resource Dialog box will return and the Quantity is reset to 0.

Now let's try the same thing but prior to adding the Part, we add the Mobile Warehouse as a resource. In this example we will see that the parts are automatically taken from the Mobile Warehouse because the mobile warehouse is always the first place that the software looks to remove parts from if it is included as a resource.

If there were two mobile warehouses listed as resources (MOB1 and Fitnasc in this example) that both at one time had Part quantities, then when the part resource was saved, it would again prompt the user for the location from which it should grab the part.

Parts Inve	ntory				
G	Needed: 1 Supplied: 0				
	Quantity Selected	Quantity Available	Location Name	Warehouse Name	
		50	B1	GWH1	^
		25	MOB1L1	MOB1	
		0	1-10A1	fltnasc	~
	<)	
	Noto: You must click out	trida of the Quantity Sola	ctod field to onable t	ha OK buttan	
		iside of the Qualitity Sele		ne ok button.	>
	Cancel				OK

Notice that even though only one part was needed, the computer did not know where to take the one part from so it shows all locations from which the part can be taken.

N	n	tc	20	2 .
	v	ιc	-	∍.

Parts Dispersal Scenario 2 - Default Location = Y & Force Mobile = N

If the "Always Use Parts Default Location" is set to "Yes" and the "Force Dispersal from Mobile Warehouses" integration option is set to "No":



This scenario is almost exactly like Scenario 1 with the exception that if there are no mobile warehouses present and there are more than two other warehouse locations that could provide the quantity, the system will always automatically disperse the parts from the Part's default location. That is the case even if the Default Location ends up going negative.

Using Part 2 (which has parts in Warehouse 1, Locations 1 and 2 as well as some mobile warehouses we can demo this. The Always use Parts Default Location is set to Y. We create a work order with a quantity of 1 for Part 2. On the save, it automatically grabs the part from the default location (with no prompt for the user).

Notes:_____

Parts Dispersal Scenario 3 - Default Location = N & Force Mobile = Y

If the "Always Use Parts Default Location" is set to "No" and the "Force Dispersal from Mobile Warehouses" integration option is set to "Yes":



This setup is almost exactly the same as Scenario 1 except when there are multiple mobile warehouses as work resources. If so the dispersal dialog only shows mobile warehouses. If no mobile warehouses exist as work resources then the dialog shows all warehouses that have that part.

Parts Dispersal Scenario 4 - Default Location = Y & Force Mobile = Y

If the "Always Use Parts Default Location" is set to "Yes" and the "Force Dispersal from Mobile Warehouses" integration option is set to "Yes":



This is almost exactly the same as Scenario 1 except that it automatically uses the Default Location if a mobile warehouse does not exist in the work resource record.

Other Options

Prevent Negative Part Quantities

The following example helps demonstrate what will occur when the "Prevent Negative Part Quantities" option is turned on:

If you try to disperse 100 parts in a work order, but only 60 parts were in stock, you will receive the following warning:



Then the system would automatically adjust the requested part quantity to 60.

- If you use the Populate Material Units function in the Resources grid of a work order, and the specified amount of the material(s) exceeds the on-hand quantity, you will receive a warning (pictured above) and the system will automatically adjust the requested quantities to disburse the on-hand amount.
- If you have default units for materials or fluids (setup in the *PM/Template* module or in the Work Flow Setup *Tasks* module) and the specified amount exceeds the on-hand quantity, the system will automatically adjust the part quantities to disburse the on-hand amount without giving a warning.
- If you try to disburse parts in work order using Lucity Field and the specified amount exceeds the on-hand quantity, the system will disburse the parts anyway. This could result in a negative inventory. You will not receive a warning when this occurs.

Make Vendor Part Number the Default for Part Lookup

This work option flag allows the user to determine if they want to enter purchase order items by Part ID (when the flag is set to N) or by Vendor Part ID (when the flag is set to Y). With the addition of the UPC code in Version 7.6, this flag may not be as useful.

Comma Delimited list of UserIDs that should not trigger dispersal or return notifications.

This option works in conjunction with the "Email address to send dispersal/return notifications" option. This comma delimited list of Lucity UserIDs (or login IDs) lets the system know that when one of these individuals disperse or return a part the system should not send out the dispersal/return notification.

Email address to send dispersal/return notifications

This would be the one email address to send a notification when users disperse or return parts. This notification is not sent if the user's ID appears in the **Comma Delimited List of UserIDs that should not trigger**... setting.

Use Parts Warehouse Security

This option is new for Version 7.6. We recommend that the user does not set this to Y until they have all of the managers of each warehouse setup and given then Full Access. The Warehouse Security is documented thoroughly in the Warehouse section.

Use Part Open Inventory Date Range

This option is new for Version 7.6. If this option is set to Y then when work orders resources are being saved, the system obtains the end date of the resource and compares it with both the Start Date and End Date of the Part record. If neither field has information, then the test is ignored. Otherwise, if either or both of the fields have values, then the resource end date has to be on or after the Start Date and/or on or before the End Date. Otherwise the user will be prompted with the following (this example showing the end date is the problem)



When the user hits OK, the Resource is changed so that the units used are back to 0.

Notes: