

Business Process Management Systems (2II55)  
Party store "Drankorgel"

GROUP 1

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# 1 Settings

## 1.1 Organizational context

The Party store is composed of four groups - the warehouse, store, administration and logistics department. The organizational model of the party store is presented below where the blue color represents groups and the green color represents roles.

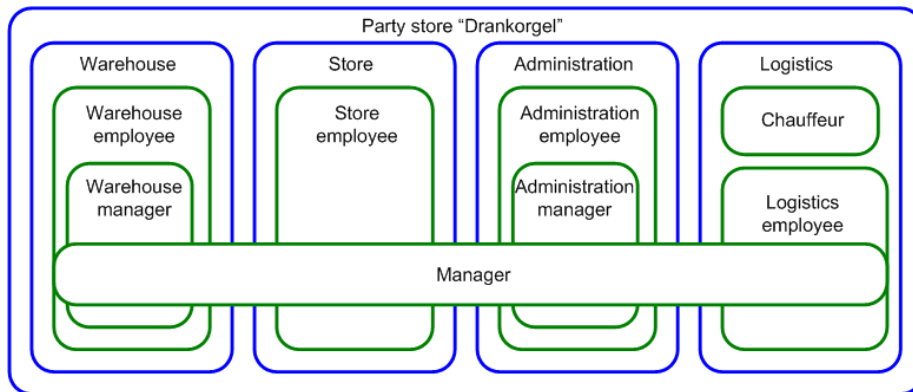


Figure 1: Organizational context of the Party store

## 1.2 Workflow process PartyParty (A)

When someone places an order the good people of "Drankorgel" will prepare the order. Also, for each order there will be some logistics involved. These will be scheduled only when the customer has payed the bill. The customer can directly pay or choose to pay by bill.

When the customer has payed the bill, the order is completed. When the bill is not payed within a week, a reminder will be sent. If the customer does'nt pay after two reminders the order is canceled and the prepared goods are put back into the warehouse.

The preparing of an order will involve picking the order until the entire order is prepared. Then the goods are checked and send if the order is complete. If the order picker made a mistake he will have the opportunity to re-pick until the inspection is ok. If some goods are out of stock and need to be ordered, the order can only be finished upon arrival of the goods.

After preparing the order and receiving the money the goods are ship by the planned logistic means. If the order contained hired wares, that equipment will be retrieved by the company. If, after the inspection, everything seems in order, then the customer will not be bothered until the next order he or she places. If something is wrong, an extra fine has to be paid depending on the damage or missing equipment. If the customer does not pay after getting two reminders, he will be sued and the money will eventually go to the store.

### **1.3 Workflow process Warehouse Warehouse (B)**

Every now and then an employee checks if the warehouse needs to be restocked or if some goods passed their freshness date. This is done by hand and for every item the store sells. If a certain item passed the date, it is thrown away. If not, the next item will be evaluated. If the quantity is low for that item, it will be put on the 'restock list'.

If the employee finished the route in the warehouse and inspected all the goods, the 'restock list' is used to order the items that were running out of stock.

Upon arrival of new goods, the entire order needs to be checked before the item are put in the warehouse. An employee checks for both missing (ordered but not received) and extra (received but not ordered) items. Missing items will be re-ordered and extra goods will be returned.

After checking the order some employee will place the items on the right shelf in the warehouse.

## 2 Protos models

### 2.1 Workflow process PartyParty

#### 2.1.1 Process perspective

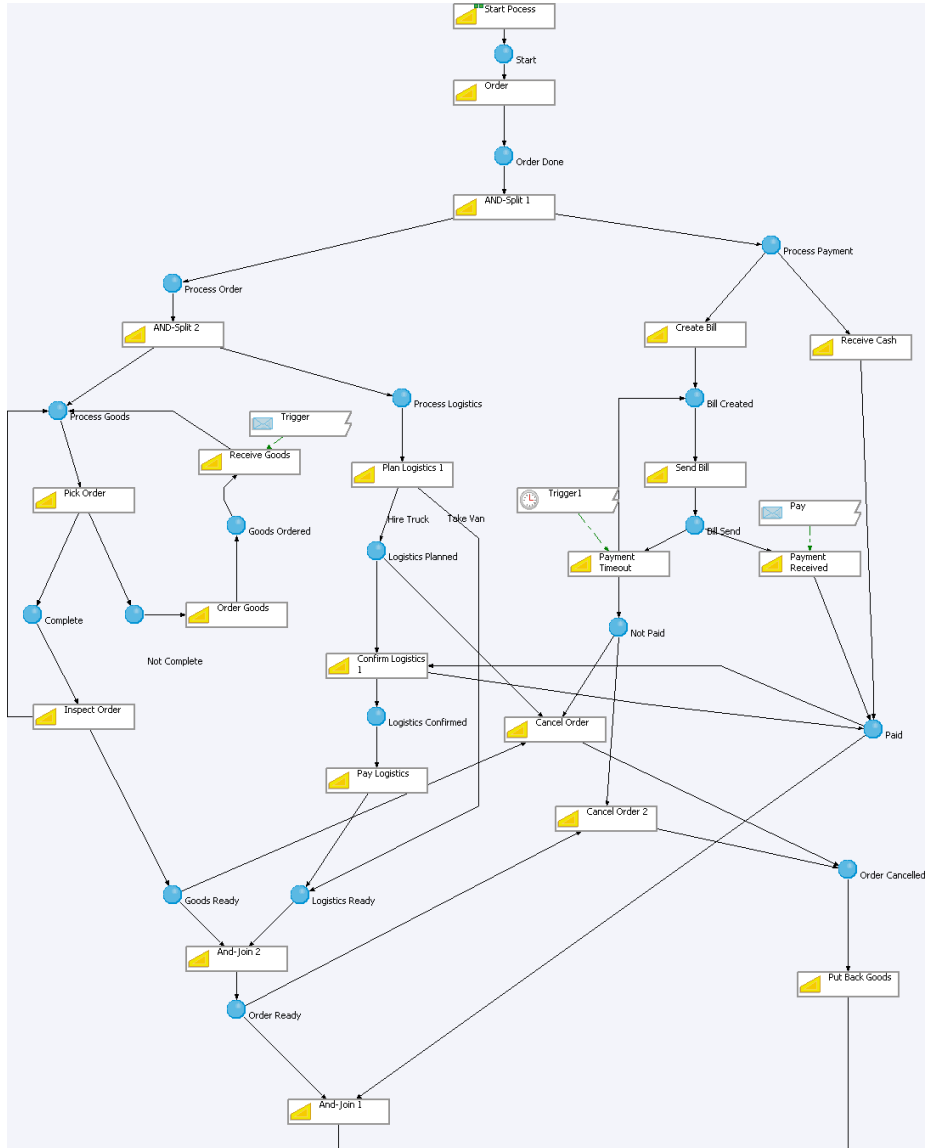


Figure 2: Workflow process PartyParty (Top Half)

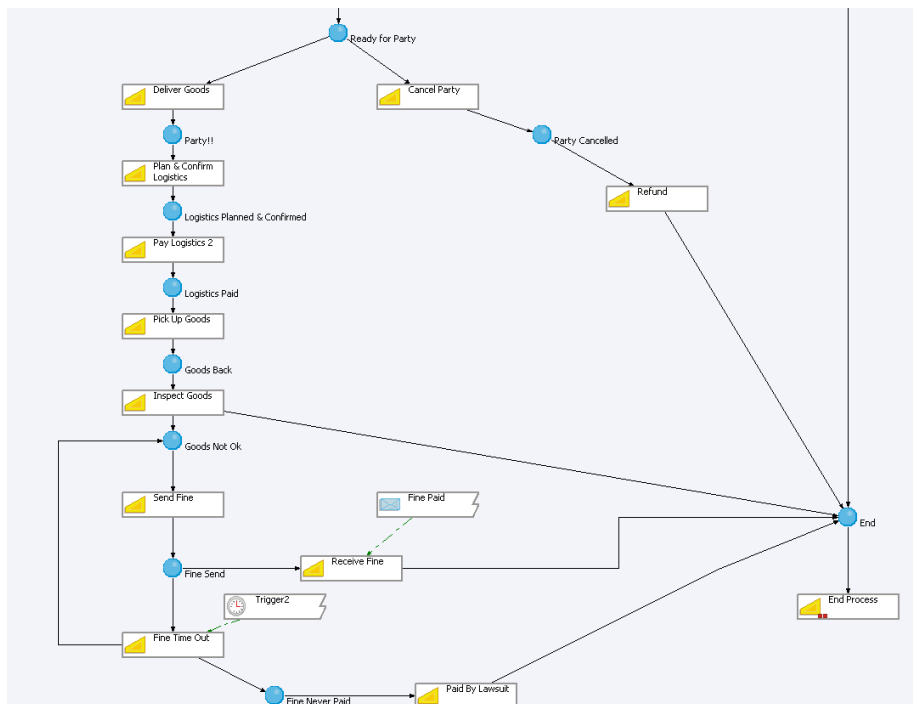


Figure 3: Workflow process PartyParty (Bottom Half)

### 2.1.2 Resource perspective

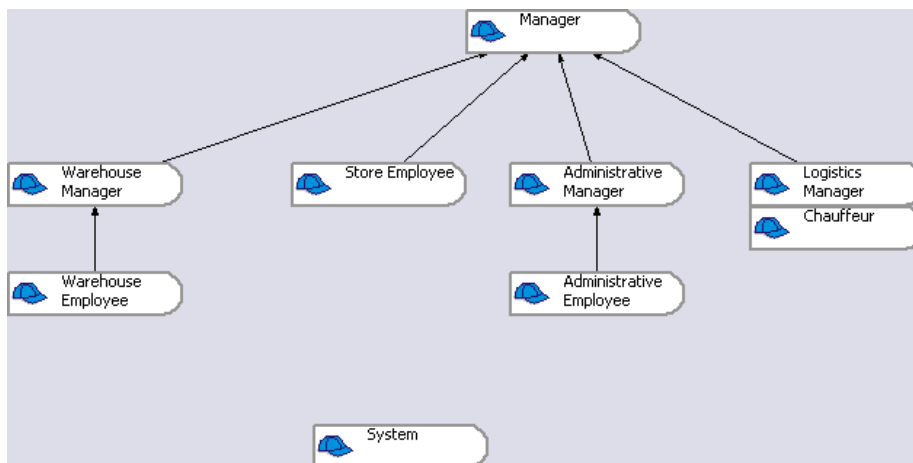


Figure 4: Resource Perspective PartyParty

<b>Role</b>	<b>Manager</b>
Number of Persons	1
Cost	0
<b>Role</b>	<b>Warehouse Manager</b>
Number of Persons	2
Cost	0

<b>Role</b>	<b>Administration Manager</b>
Number of Persons	3
Cost	0
<b>Role</b>	<b>Warehouse Employee</b>
Number of Persons	10
Cost	0
<b>Role</b>	<b>Store Employee</b>
Number of Persons	10
Cost	0
<b>Role</b>	<b>Logistics Employee</b>
Number of Persons	3
Cost	0
<b>Role</b>	<b>Chauffeur</b>
Number of Persons	2
Cost	0
<b>Role</b>	<b>Administration Employee</b>
Number of Persons	5
Cost	0

<b>Team</b>	<b>Warehouse</b>
<b>Team</b>	<b>Store</b>
<b>Team</b>	<b>Administration</b>
<b>Team</b>	<b>Logistics</b>

### 2.1.3 Explanation

- I. After a Store Employee receives an order from a customer, there's 2 things that will need to be accomplished. The order has to be prepared to be shipped and payment for the order has to be received. These tasks can be performed in parallel of each other, but can only finish when both tasks are completed.
- II. Unless an order is canceled by the customer by not paying the bill, the prepared order is then canceled and goods returned. There is a milestone in place to assure that the order is not shipped out before payment is received.

#### 2.1.4 Task description

Name	Executor	Description
Order	Store employee	The store employee takes an order of a customer.
Receive cash	Store employee	The store employee receives the cash money from the customer.
Create bill	Administrative employee	The order is processed and the bill for the customer is being created.
Send bill	Administrative employee	The bill is being send to the customer.
Payment received	Administrative manager	The manager marks the order as being paid.
Payment timeout	System	
Plan logistics 1	Logistics employee	The manager plans the logistics used for the shipment of the ordered goods.
Confirm logistics 1	Logistics employee	The manager confirms the logistics after the payment has been received.
Pay logistics 1	Administrative manager	The manager pays the logistics after the logistics have been confirmed.
Pick order	Warehouse employee	The employee picks the needed goods for the order.
Order goods	Warehouse manager	The manager orders the goods needed to complete the order.
Receive goods	Warehouse employee	Employee $e_1$ receives the goods ordered by the manager to complete the order.
Inspect order	Warehouse employee	Employee $e_2$ , where $e_1 \neq e_2$ , inspects the order for completeness.
Cancel order	Manager	The manager can decide to cancel an order
Put back goods	Store employee	After a order is canceled the goods are placed back into the warehouse.
Cancel party	Manager	After the payment has been done and before the goods are being delivered, the party can be canceled by the manager.
Deliver goods	Chauffeur	The chauffeur delivers the goods to the party.
Refund	Administrative manager	After the cancelation of a party the manager can refund the money paid by the customer.
Plan logistics 2	Logistics employee	The manager plans the logistics for the retrieval of the goods.
Confirm logistics 2	Logistics employee	The manager confirms the logistics for the retrieval of the goods.
Pay logistics 2	Administrative manager	The manger pays the money for the logistics of the retrieval of the goods.
Pick up goods	Chauffeur	The chauffeur retrieves the goods after the party has been held.
Inspect goods	Warehouse manager	The manager inspects the retrieved goods for damages or missing parts.
Send fine	Administrative employee	The employee sends a fine for the damaged or missing goods.
Fine timeout	System	7
Receive fine	Administrative manager	The manager has received the money for the fine.
Paid by lawsuit	Administrative manager	The manager has sued the customer and eventually received the money.

### 2.1.5 Data perspective

#### Order specifications:

Subprocess	Object	Mandatory	Created	Deleted	Changed
Main process	Order	✓	✓		
Main process	Receive cash	✓			
Main process	Create bill	✓			
Main process	Send bill	✓			
Main process	Payment timeout	✓			✓
Main process	Pick order	✓			
Main process	Inspect order	✓			
Main process	Plan logistics 1	✓			
Main process	Cancel order	✓			
Main process	Put back goods	✓			✓
Main process	Cancel party	✓			
Main process	Refund	✓		✓	
Main process	Plan logistics 2	✓			
Main process	Confirm logistics 2	✓			
Main process	Inspect goods	✓			
Main process	Send fine	✓			✓
Main process	Receive fine	✓		✓	
Main process	Fine timeout	✓			✓
Main process	Paid by lawsuit	✓		✓	

#### Customer specifications:



Subprocess	Object	Mandatory	Created	Deleted	Changed
Main process	Order	✓	✓		
Main process	Receive cash	✓			
Main process	Create bill	✓			
Main process	Send bill	✓			
Main process	Payment timeout	✓			✓
Main process	Payment received	✓			✓
Main process	Cancel order	✓			
Main process	Cancel party	✓			
Main process	Refund	✓		✓	
Main process	Send fine	✓			✓
Main process	Receive Fine	✓		✓	
Main process	Fine timeout	✓			✓
Main process	Paid by lawsuit	✓		✓	

**Order price:**

Subprocess	Object	Mandatory	Created	Deleted	Changed
Main process	Order	✓	✓		
Main process	Receive cash	✓			
Main process	Create bill	✓			
Main process	Send bill	✓			
Main process	Payment received	✓			
Main process	Payment timeout	✓			✓
Main process	Refund	✓		✓	
Main process	Send fine	✓			✓
Main process	Receive fine	✓		✓	
Main process	Fine timeout	✓			✓
Main process	Paid by lawsuit	✓		✓	

**Ordering list:**

Subprocess	Object	Mandatory	Created	Deleted	Changed
Main process	Order goods	✓	✓		
Main process	Receive goods	✓		✓	

**Order pick list:**

Subprocess	Object	Mandatory	Created	Deleted	Changed
Main process	Pick order	✓	✓		
Main process	Order goods	✓			
Main process	Receive goods	✓			
Main process	Inspect order	✓			
Main process	AND-join	✓		✓	

**Logistics plan:**

Subprocess	Object	Mandatory	Created	Deleted	Changed
Main process	Plan logistics 1	✓	✓		
Main process	Confirm logistics 1	✓			
Main process	Pay logistics 1	✓			
Main process	Deliver goods	✓		✓	
Main process	Plan logistics 2	✓	✓		
Main process	Confirm logistics 2	✓			
Main process	Pay logistics 2	✓			
Main process	Pick up goods	✓		✓	

**Chauffeur id:**

<b>Subprocess</b>	<b>Object</b>	<b>Mandatory</b>	<b>Created</b>	<b>Deleted</b>	<b>Changed</b>
Main process	Plan logistics 1	✓	✓		
Main process	Confirm logistics 1	✓			
Main process	Pay logistics 1	✓			
Main process	Deliver goods	✓		✓	
Main process	Plan logistics 2	✓	✓		
Main process	Confirm logistics 2	✓			
Main process	Pay logistics 2	✓			
Main process	Pick up goods	✓		✓	

**Jurisdictional rules:**

<b>Subprocess</b>	<b>Object</b>	<b>Mandatory</b>	<b>Created</b>	<b>Deleted</b>	<b>Changed</b>
Main process	Send fine	✓	✓		
Main process	Receiver fine	✓			
Main process	Fine timeout	✓			
Main process	Paid by lawsuit	✓		✓	

**Warehouse employee id:**

<b>Subprocess</b>	<b>Object</b>	<b>Mandatory</b>	<b>Created</b>	<b>Deleted</b>	<b>Changed</b>
Main process	Inspect order	✓	✓	✓	
Main process	Inspect goods	✓	✓	✓	

**Cancellation form:**

<b>Subprocess</b>	<b>Object</b>	<b>Mandatory</b>	<b>Created</b>	<b>Deleted</b>	<b>Changed</b>
Main process	Cancel order	✓	✓		
Main process	Put back goods	✓		✓	
Main process	Cancel party	✓	✓		
Main process	Refund	✓		✓	

### 3 Protos models

#### 3.1 Workflow process WarehouseWarehouse

##### 3.1.1 Process perspective

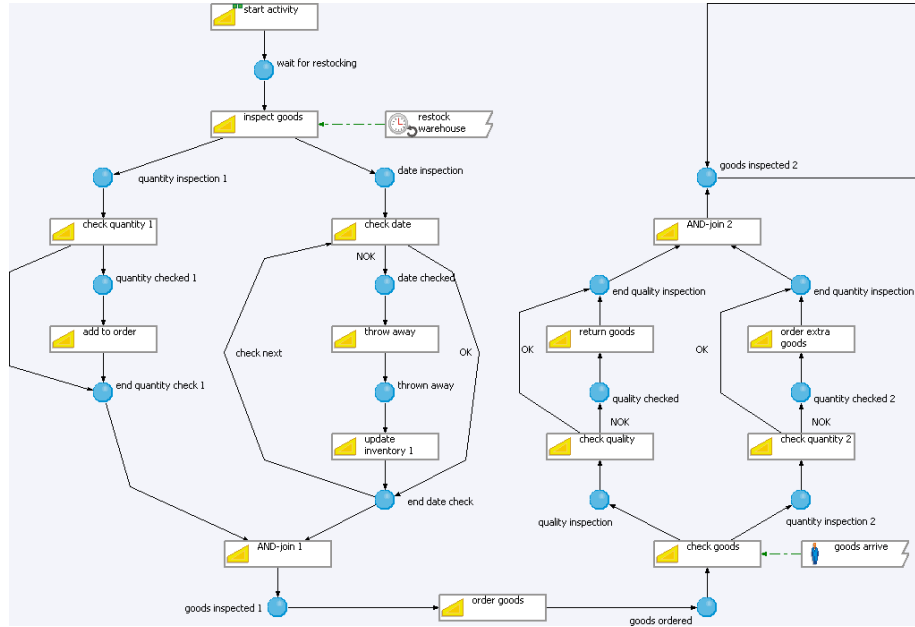


Figure 5: Workflow process WarehouseWarehouse (Left Half)

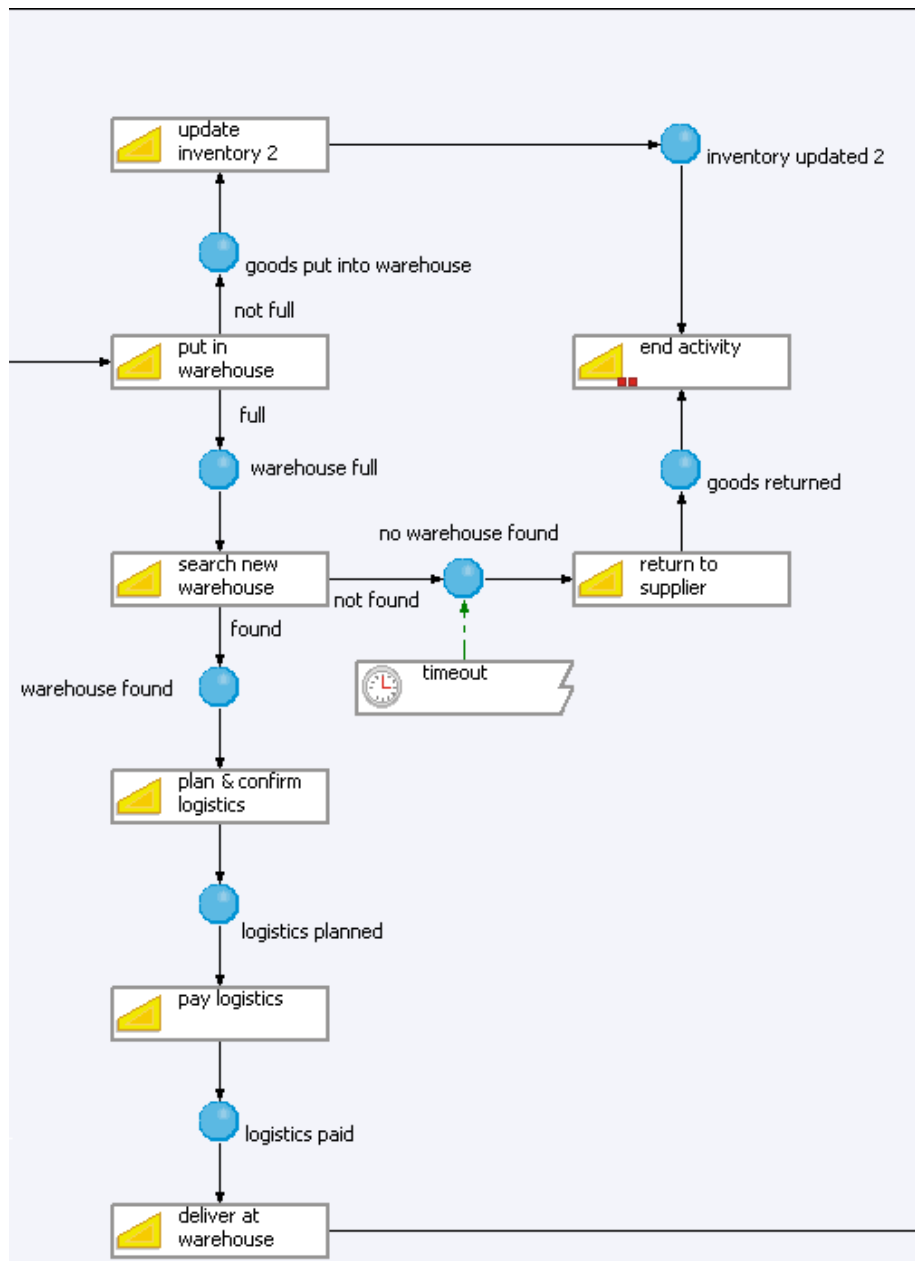


Figure 6: Workflow process WarehouseWarehouse (Right Half)

### 3.1.2 Resource perspective

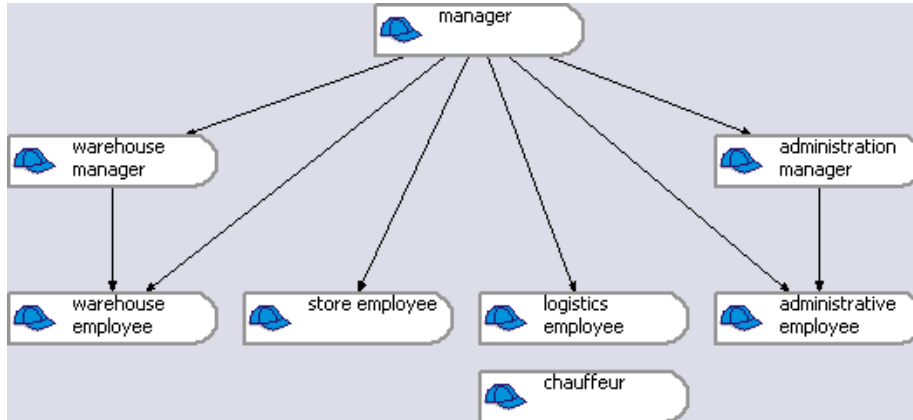


Figure 7: Resource Perspective WarehouseWarehouse

<b>Role</b>	<b>Manager</b>
Number of Persons	1
Cost	0
<b>Role</b>	<b>Warehouse Manager</b>
Number of Persons	2
Cost	0
<b>Role</b>	<b>Administration Manager</b>
Number of Persons	3
Cost	0
<b>Role</b>	<b>Warehouse Employee</b>
Number of Persons	10
Cost	0
<b>Role</b>	<b>Store Employee</b>
Number of Persons	10
Cost	0
<b>Role</b>	<b>Logistics Employee</b>
Number of Persons	3
Cost	0
<b>Role</b>	<b>Chauffeur</b>
Number of Persons	2
Cost	0
<b>Role</b>	<b>Administration Employee</b>
Number of Persons	5
Cost	0

<b>Team</b>	<b>Warehouse</b>
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<b>Team</b>	<b>Store</b>
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<b>Team</b>	<b>Administration</b>
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<b>Team</b>	<b>Logistics</b>
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### 3.1.3 Explanation

- I. A warehouse employee starts his day with either checking the quantity or the date of a product. After this a Warehouse manager orders the missing goods. Once the items are received a Warehouse manager accepts the order and a Warehouse employee needs to check both the quantity aswell as the quality of the received goods. A warehouse employee finally checks wether there is actually room in the Warehouse. If so then the goods are placed and inventory updated. If not a new warehouse will be found and sent there.

### 3.1.4 Task description

Name	Executor	Description
Inspect goods	Warehouse employee	The employee inspects the goods inside the warehouse for both freshness date and quantity.
Check date	Warehouse employee	The employee checks the freshness date of a particular item.
Throw away	Warehouse employee	The employee discards of the item if it expired it's date.
Update inventory	Warehouse manager	The manager updates the inventory after an item is discarded.
Check quantity	Warehouse employee	The employee checks the quantity of a particular item.
Add to order	Warehouse employee	The employee adds the out of stock item to the ordering list.
AND-join	System	
Order goods	Warehouse manager	The manager orders the goods that are on the ordering list.
Check goods	Warehouse employee	The employee checks the goods after an order arrives if it's complete.
Check quality	Warehouse employee	The employee checks the quality of the incoming goods.
Return goods	Warehouse employee	The employee returns the goods which were lacking quality.
Check quantity	Warehouse employee	The employee checks if the quantity of the goods is correct.
Order extra goods	Warehouse manager	The manager re-orders the missing items.
AND-Join	System	
Put in warehouse	Warehouse employee	The employee puts the incoming goods inside the warehouse.
Update inventory	Warehouse manager	The manager updates the inventory after the new items arrived.
Search new warehouse	Manager	The manager searches for a suitable new warehouse.
Plan & confirm logistics	Logistics employee	The manager plans and confirms the logistics for the reshipment of the goods.
Pay logistics	Logistics employee	The manager pays the logistics for the reshipment of the goods.
Deliver at warehouse	Chauffeur	The chauffeur delivers the goods to the new warehouse.



### 3.1.5 Data perspective

#### Inspect Date List:

Subprocess	Object	Mandatory	Created	Deleted	Changed
Main process	Inspect goods	✓	✓		
Main process	Check date	✓			
Main process	Throw away	✓			✓
Main process	Update inventory 1	✓			
Main process	And-join	✓			

#### Throw Away Documents:

Subprocess	Object	Mandatory	Created	Deleted	Changed
Main process	Inspect goods	✓	✓		
Main process	Check date	✓			✓
Main process	Throw away	✓			
Main process	And-join	✓		✓	

#### Inspect Quantity List:

Subprocess	Object	Mandatory	Created	Deleted	Changed
Main process	Inspect goods	✓	✓		
Main process	Check quantity	✓			✓
Main process	Add to order	✓			
Main process	And-join	✓		✓	

#### Ordering list:

<b>Subprocess</b>	<b>Object</b>	<b>Mandatory</b>	<b>Created</b>	<b>Deleted</b>	<b>Changed</b>
Main process	Inspect goods	✓	✓		
Main process	Check quantity	✓			
Main process	Add to order	✓			✓
Main process	And-join	✓			
Main process	Order goods	✓			
Main process	Check goods	✓			
Main process	Check quality				
Main process	Return goods				
Main process	Check quantity	✓			
Main process	Order extra goods	✓			
Main process	And-join	✓		✓	

**Complaint form:**

<b>Subprocess</b>	<b>Object</b>	<b>Mandatory</b>	<b>Created</b>	<b>Deleted</b>	<b>Changed</b>
Main process	Check goods	✓	✓		
Main process	Check quality	✓			✓
Main process	Return goods	✓			
Main process	And-join	✓		✓	

**Item list:**

Subprocess	Object	Mandatory	Created	Deleted	Changed
Main process	And-join	✓	✓		
Main process	Put in warehouse	✓			✓
Main process	Update inventory 2	✓		✓	
Main process	Search new warehouse	✓			
Main process	Return to supplier	✓			
Main process	Plan & confirm logistics	✓			
Main process	Pay logistics				
Main process	Deliver goods	✓			

**Item checklist:**

Subprocess	Object	Mandatory	Created	Deleted	Changed
Main process	Put in warehouse	✓	✓		
Main process	Update inventory 2	✓		✓	

**Warehouses list:**

Subprocess	Object	Mandatory	Created	Deleted	Changed
Main process	Search new warehouse	✓	✓		
Main process	Return to supplier	✓		✓	
Main process	Plan & confirm logistics	✓			
Main process	Deliver goods	✓		✓	

**Logistics documents:**

<b>Subprocess</b>	<b>Object</b>	<b>Mandatory</b>	<b>Created</b>	<b>Deleted</b>	<b>Changed</b>
Main process	Return to supplier	✓			
Main process	Plan & confirm logistics	✓	✓		
Main process	Pay logistics	✓			
Main process	Deliver goods	✓		✓	

**Supplier documents:**

<b>Subprocess</b>	<b>Object</b>	<b>Mandatory</b>	<b>Created</b>	<b>Deleted</b>	<b>Changed</b>
Main process	Add to order	✓			
Main process	Order goods	✓			
Main process	Check goods	✓			
Main process	Check quality				
Main process	Return goods	✓			
Main process	Check quantity				
Main process	Order extra goods	✓			
Main process	Return to supplier	✓			

**Warehouse inventory:**

<b>Subprocess</b>	<b>Object</b>	<b>Mandatory</b>	<b>Created</b>	<b>Deleted</b>	<b>Changed</b>
Main process	Inspect goods	✓			
Main process	Update inventory 1	✓			✓
Main process	Put in warehouse	✓			
Main process	Update inventory 2	✓			✓
Main process	Return to supplier	✓			✓
Main process	Search new warehouse	✓			
Main process	Deliver goods	✓			

**Financial register:**

<b>Subprocess</b>	<b>Object</b>	<b>Mandatory</b>	<b>Created</b>	<b>Deleted</b>	<b>Changed</b>
Main process	Order goods	✓			
Main process	Order extra goods	✓			
Main process	Return to supplier	✓			
Main process	Search new warehouse	✓			
Main process	Plan & confirm logistics	✓			
Main process	Pay logistics	✓			✓

**Employee ID:**

<b>Subprocess</b>	<b>Object</b>	<b>Mandatory</b>	<b>Created</b>	<b>Deleted</b>	<b>Changed</b>
Main process	Check date	✓			
Main process	Check quantity	✓			
Main process	Check quality	✓			
Main process	Check quantity	✓			

## 4 Simulation Results

### 4.1 Workflow process PartyParty

Roles	Utilization Rate				
	Mean	Lower 90%	Upper 90%	Lower 99%	Upper 99%
	Warehouse Employee	0.99	0.97	1.02	0.94
Warehouse Manager	0.48	0.39	0.57	0.32	0.63
Store Employee	0.99	0.97	1.01	0.96	1.03
Administrative Employee	0.99	0.97	1.01	0.96	1.02
Administrative Manager	0.88	0.77	0.99	0.69	1.08
Chauffeur	0.58	0.42	0.74	0.29	0.87
Logistics Manager	0.99	0.98	1.01	0.97	1.02
Manager	0.11	0.08	0.14	0.05	0.17
System	0.07	0.07	0.08	0.06	0.09

Activities	Queue Time					Work Time				
	Mean	Lower 90%	Upper 90%	Lower 99%	Upper 99%	Mean	Lower 90%	Upper 90%	Lower 99%	Upper 99%
	Start Process	0	0	0	0	0	0	0	0	0
AND-Split 2	0	0	0	0	0	0	0	0	0	0
Receive Goods	46.87	30.25	63.5	17.35	76.4	5.18	4.91	5.44	4.7	5.65
Create Bill	11.36	5.61	17.1	1.15	21.56	5.07	4.8	5.34	4.59	5.55
Inspect Order	7.04	5	9.08	3.41	10.67	5.1	4.95	5.24	4.84	5.36
Pick Order	193.69	116.45	270.94	56.51	330.88	40.36	40.09	40.62	39.89	40.83
Order	52.58	20.41	84.76	-4.56	109.72	5.04	4.92	5.16	4.82	5.25
Payment Timeout	0	0	0	0	0	5.06	4.92	5.21	4.8	5.33
Send Bill	27.22	18.78	35.66	12.23	42.21	4.89	4.68	5.11	4.51	5.27
Plan Logistics 1	112.02	64.54	159.51	27.69	196.36	5.02	4.86	5.18	4.73	5.3
Payment Received	0	0	0	0	0	1.12	-0.27	2.52	-1.36	3.6
Receive Cash	11.51	5.67	17.35	1.13	21.89	5.01	4.88	5.14	4.78	5.24
Confirm Logistics 1	3.86	2.98	4.74	2.3	5.43	5	4.77	5.23	4.59	5.41
Pay Logistics	18.47	9.18	27.76	1.97	34.97	4.66	4.27	5.05	3.96	5.35
And-Join 2	0	0	0	0	0	0	0	0	0	0
And-Join 1	0	0	0	0	0	0	0	0	0	0
Deliver Goods	0	0	0	0	0	40.09	39.38	40.79	38.83	41.34
Plan & Confirm Logistics	4.4	2.55	6.24	1.11	7.68	4.41	3.44	5.38	2.69	6.13
Pay Logistics 2	9.96	3.59	16.33	-1.36	21.28	4.66	3.69	5.63	2.94	6.39
PickUp Goods	1.9	-0.02	3.82	-1.51	5.3	36.63	29.17	44.1	23.38	49.89
Inspect Goods	1	0.19	1.82	-0.45	2.46	4.17	3.19	5.16	2.42	5.92
Order Goods	0.79	0.36	1.23	0.02	1.57	5.07	4.86	5.27	4.7	5.43
Send Fine	12.42	5.72	19.12	0.53	24.32	3.25	1.86	4.63	0.78	5.71
Fine Time Out	3.99	0.89	7.1	-1.53	9.51	3.41	1.88	5.14	0.34	6.48
Cancel Party	0.09	-0.07	0.25	-0.2	0.38	0	0	0	0	0
Cancel Order	0	0	0	0	0	4.07	2.48	5.67	1.24	6.91
Cancel Order 2	0.29	-0.24	0.83	-0.66	1.25	3.43	2.28	4.59	1.38	5.49
AND-Split 1	0	0	0	0	0	0	0	0	0	0
Receive Fine	6.15	0.75	11.54	-3.44	15.73	3.1	1.53	4.68	0.3	5.9
Paid By Lawsuit	3.63	-1.5	8.76	-5.48	12.74	2.19	0.5	3.88	-0.81	5.19
Refund	12.2	6.35	18.05	1.81	22.59	3.69	2.35	5.03	1.31	6.08
Put Back Goods	3.66	1.95	5.36	0.63	6.69	35.76	28.45	43.07	22.78	48.74
End Process	0	0	0	0	0	0	0	0	0	0

Status	Wait Time					Wait+Queue Time				
	Mean	Lower 90%	Upper 90%	Lower 99%	Upper 99%	Mean	Lower 90%	Upper 90%	Lower 99%	Upper 99%
	Start	0	0	0	0	0	52.58	20.41	84.76	-4.56
Process Payment	0	0	0	0	0	11.48	5.68	17.28	1.18	21.77
Complete	0	0	0	0	0	7.04	5	9.08	3.41	10.67
Process Goods	0	0	0	0	0	193.69	116.45	270.94	56.51	330.88
Process Logistics	0	0	0	0	0	112.02	64.54	159.51	27.69	196.36
Bill Created	0	0	0	0	0	27.22	18.78	35.66	12.23	42.21
Bill Send	0	0	0	0	0	0	0	0	0	0
Logistics Planned	18.55	7.78	29.32	-0.58	37.68	22	10.66	33.33	1.87	42.13
Not Complete	0	0	0	0	0	0.79	0.36	1.23	0.02	1.57
Paid	160.72	97.96	223.49	49.26	272.19	163.18	100.36	226.01	51.61	274.75
Logistics Confirmed	0	0	0	0	0	18.47	9.18	27.76	1.97	34.97
Goods Ready	0	0	0	0	0	0	0	0	0	0
Logistics Ready	252.5	163.98	341.01	95.29	409.7	252.5	163.98	341.01	95.29	409.7
Order Ready	0	0	0	0	0	0.07	-0.06	0.21	-0.17	0.31
Ready for Party	0	0	0	0	0	0.04	-0.03	0.11	-0.09	0.17
Order Done	0	0	0	0	0	0	0	0	0	0
Party!!	0	0	0	0	0	4.4	2.55	6.24	1.11	7.68
Logistics Planned & Confirmed	0	0	0	0	0	9.96	3.59	16.33	-1.36	21.28
Logistics Paid	0	0	0	0	0	1.9	-0.02	3.82	-1.51	5.3
Goods Back	0	0	0	0	0	1	0.19	1.82	-0.45	2.46
Not Paid	179.53	88.31	270.74	17.53	341.52	179.6	88.43	270.78	17.68	341.52
Goods Not Ok	0	0	0	0	0	12.42	5.72	19.12	0.53	24.32
Fine Send	0	0	0	0	0	6.51	2.11	10.92	-1.3	14.33
Fine Never Paid	0	0	0	0	0	3.63	-1.5	8.76	-5.48	12.74
Party Cancelled	0	0	0	0	0	12.2	6.35	18.05	1.81	22.59
Order Cancelled	0	0	0	0	0	3.66	1.95	5.36	0.63	6.69
End	0	0	0	0	0	0	0	0	0	0
Process Order	0	0	0	0	0	0	0	0	0	0
Goods Ordered	0	0	0	0	0	46.87	30.25	63.5	17.35	76.4

Total	Lead Time					Work Time				
	Mean	Lower 90%	Upper 90%	Lower 99%	Upper 99%	Mean	Lower 90%	Upper 90%	Lower 99%	Upper 99%
		352.44	233.93	470.95	141.98	562.9	152.62	132.4	172.84	116.71

<b>Cost</b>				
<b>Mean</b>	<b>Lower 90%</b>	<b>Upper 90%</b>	<b>Lower 99%</b>	<b>Upper 99%</b>
31.38	27.61	35.16	24.68	38.09

Comments:

- I. Employee's are generally cheapest to hire, but because there is generally many more of them available, they need to be utilized as highly as possible.
- II. To pick an order, a lot of tasks are involved, hence the large time to complete it.
- III. The low utilization of the manager is easily explained by the fact that there's only few tasks he has to do. But you have a minimum amount of managers, so lowering this number is not an option.

## 5 Simulation Results

### 5.1 Workflow process WarehouseWarehouse

Roles					
	Utilization Rate				
	Mean	Lower 90%	Upper 90%	Lower 99%	Upper 99%
warehouse employee	0.97	0.9	1.03	0.86	1.07
manager	0.93	0.77	1.08	0.65	1.2
administrative employee	0	0	0	0	0
warehouse manager	0.98	0.95	1.01	0.93	1.03
store employee	0	0	0	0	0
administration manager	0	0	0	0	0
chauffeur	0.25	0.19	0.32	0.14	0.36
logistics employee	0.31	0.23	0.4	0.17	0.46
system	0	0	0	0	0

Activities										
	Queue Time					Work Time				
	Mean	Lower 90%	Upper 90%	Lower 99%	Upper 99%	Mean	Lower 90%	Upper 90%	Lower 99%	Upper 99%
check quantity 1	5.18	3.19	7.18	1.64	8.73	20.03	19.92	20.14	19.84	20.22
inspect goods	24.81	14.16	35.47	5.89	43.74	14.96	14.85	15.07	14.76	15.15
update inventory 1	8.71	6.82	10.6	5.35	12.07	1	1	1	1	1
AND-join 1	0	0	0	0	0	0	0	0	0	0
add to order	0	0	0	0	0	0	0	0	0	0
order goods	56.4	38.87	73.92	25.27	87.52	1.9	1.72	2.08	1.58	2.22
check goods	24.12	10.68	37.56	0.25	48	3.81	3.65	3.96	3.53	4.08
start activity	0	0	0	0	0	0	0	0	0	0
check quality	4.37	2.78	5.96	1.55	7.2	2	1.86	2.14	1.76	2.25
return goods	2.15	1.39	2.91	0.8	3.5	2.18	2.01	2.35	1.87	2.49
order extra goods	5.5	3.3	7.69	1.59	9.4	1.96	1.84	2.09	1.75	2.18
check quantity 2	3.24	2.36	4.12	1.67	4.81	1.91	1.78	2.04	1.67	2.15
AND-join 2	0	0	0	0	0	0	0	0	0	0
put in warehouse	2.43	1.69	3.17	1.12	3.74	40.02	39.76	40.27	39.56	40.47
update inventory 2	21.42	10.1	32.75	1.3	41.54	1	1	1	1	1
end activity	0	0	0	0	0	0	0	0	0	0
search new warehouse	250.21	141.52	358.9	87.18	443.24	20.03	19.44	20.62	18.99	21.08
return to supplier	0	0	0	0	0	36.54	29.04	44.05	23.22	49.87
plan & confirm logistics	0	0	0	0	0	18.17	14.46	21.88	11.59	24.76
pay logistics	0	0	0	0	0	3.6	2.87	4.33	2.3	4.9
deliver at warehouse	0	0	0	0	0	17.89	14.23	21.54	11.39	24.38
check date	76.16	49.66	102.65	29.1	123.21	1.94	1.86	2.03	1.79	2.09
throw away	10.52	5.55	15.49	1.69	19.35	4.03	3.88	4.18	3.76	4.3

Status										
	Wait Time					Wait+Queue Time				
	Mean	Lower 90%	Upper 90%	Lower 99%	Upper 99%	Mean	Lower 90%	Upper 90%	Lower 99%	Upper 99%
end date check	0.11	-0.03	0.26	-0.14	0.37	0.34	-0.13	0.8	-0.48	1.16
end quantity check 1	76.12	47.96	104.27	26.12	126.12	76.12	47.96	104.27	26.12	126.12
quantity checked 1	0	0	0	0	0	0	0	0	0	0
goods inspected 1	0	0	0	0	0	56.4	38.87	73.92	25.27	87.52
goods ordered	0	0	0	0	0	24.12	10.68	37.56	0.25	48
quality inspection	0	0	0	0	0	4.37	2.78	5.96	1.55	7.2
quantity inspection 2	0	0	0	0	0	3.24	2.36	4.12	1.67	4.81
quality checked	0	0	0	0	0	2.15	1.39	2.91	0.8	3.5
end quality inspection	3.28	1.99	4.57	0.98	5.58	3.28	1.99	4.57	0.98	5.58
end quantity inspection 2	2.5	1.41	3.6	0.56	4.45	2.5	1.41	3.6	0.56	4.45
quantity checked 2	0	0	0	0	0	5.5	3.3	7.69	1.59	9.4
wait for restocking	0	0	0	0	0	24.81	14.16	35.47	5.89	43.74
goods inspected 2	0	0	0	0	0	2.43	1.69	3.17	1.12	3.74
goods put into warehouse	0	0	0	0	0	21.42	10.1	32.75	1.3	41.54
inventory updated 2	0	0	0	0	0	0	0	0	0	0
warehouse full	0	0	0	0	0	250.21	141.52	358.9	87.18	443.24
no warehouse found	0	0	0	0	0	0	0	0	0	0
quantity inspection 1	0	0	0	0	0	5.18	3.19	7.18	1.64	8.73
goods returned	0	0	0	0	0	0	0	0	0	0
warehouse found	0	0	0	0	0	0	0	0	0	0
logistics planned	0	0	0	0	0	0	0	0	0	0
logistics paid	0	0	0	0	0	0	0	0	0	0
date inspection	0	0	0	0	0	86.9	57.18	116.63	34.11	139.7
date checked	0	0	0	0	0	10.52	5.55	15.49	1.69	19.35
thrown away	0	0	0	0	0	8.71	6.82	10.6	5.35	12.07

Total										
Lead Time					Work Time					
Mean	Lower 90%	Upper 90%	Lower 99%	Upper 99%	Mean	Lower 90%	Upper 90%	Lower 99%	Upper 99%	
0	0	0	0	0	0	0	0	0	0	

Cost				
Mean	Lower 90%	Upper 90%	Lower 99%	Upper 99%
0	0	0	0	0



Comments:

- I. Administration- employees, managers and Store employee's aren't used in this process, hence the utilization of 0.
- II. Warehouse employee's and manager's are optimally utilized hence the high utilization rate.
- III. Searching a new warehouse can take a long time, because it's a manual time consuming process, hence the large time for it.
- IV. There are too many chauffeurs available which explains the low utilization rate for 'chauffeur.

## 6 YAWL Models

### 6.1 Organizational Model

The Power of Expressiveness  
**YAWL Administration and Monitoring Tool**

Resources	Roles	Charts	Worklist	Logout
-----------	-------	--------	----------	--------

**Modifying roles**

**Details for a human resource**

Select Role:

--New Role--  
Warehouse Employee  
Warehouse Manager

Enter the name of the role you would like to add and click Add Role  
Role:

Store Employee  
Administration Employee  
Logistics Employee  
Chauffeur

**Set the human resources for a role**

Available Resources :

Allocated Resources :

YAWL is distributed under the [LGPL](#).

An overview of all available roles.

The Power of Expressiveness  
**YAWL Administration and Monitoring Tool**

Resources	Roles	Charts	Worklist	Logout
-----------	-------	--------	----------	--------

**Modifying roles**

**Details for a human resource**

Select Role:

Enter the name of the role you would like to add and click Add Role  
Role:

**Set the human resources for a role**

Available Resources :

Allocated Resources :

YAWL is distributed under the [LGPL](#).

Both the Manager (wilrik) and a employee (maik) are Warehouse Employee's

The Power of Expressiveness  
**YAWL Administration and Monitoring Tool**

Resources   Roles   Charts   Worklist   Logout

**Create and Modify Resources**  
Enter the details of the resource you would like to add to the system and click submit.

**Details for a human resource**

Select Human ResourceID: wilrik  
Delete Resource

Resource ID: wilrik  
Description: Wilrik the Man-ager  
Is of Type:  Human  Non-Human  
*If the resource is of type 'Human' fill in the fields below:*  
Given Name: Wilrik  
Surname: de Loose  
Has access to:  Worklist  Administration Tool  
Initial Password: \*\*\*\*  
Confirm Password: \*\*\*\*  
Update Resource

**Set the roles for a human resource**

Available Roles :  
Chauffeur

Allocated Roles :  
Administration Em  
Administration Man  
Logistics Employee  
Manager  
Store Employee  
Warehouse Empl  
Warehouse Manage

Update Roles By Resource

An overview of all available resources.

The Power of Expressiveness  
**YAWL Administration and Monitoring Tool**

Resources   Roles   Charts   Worklist   Logout

**Create and Modify Resources**  
Enter the details of the resource you would like to add to the system and click submit.

**Details for a human resource**

Select Human ResourceID: oliver  
Delete Resource

Resource ID: oliver  
Description: oliver the employee  
Is of Type:  Human  Non-Human  
*If the resource is of type 'Human' fill in the fields below:*  
Given Name: Oliver  
Surname: Schinagl  
Has access to:  Worklist  Administration Tool  
Initial Password: \*\*\*\*  
Confirm Password: \*\*\*\*  
Update Resource

**Set the roles for a human resource**

Available Roles :  
Warehouse Empl  
Manager  
Administration Man  
Chauffeur

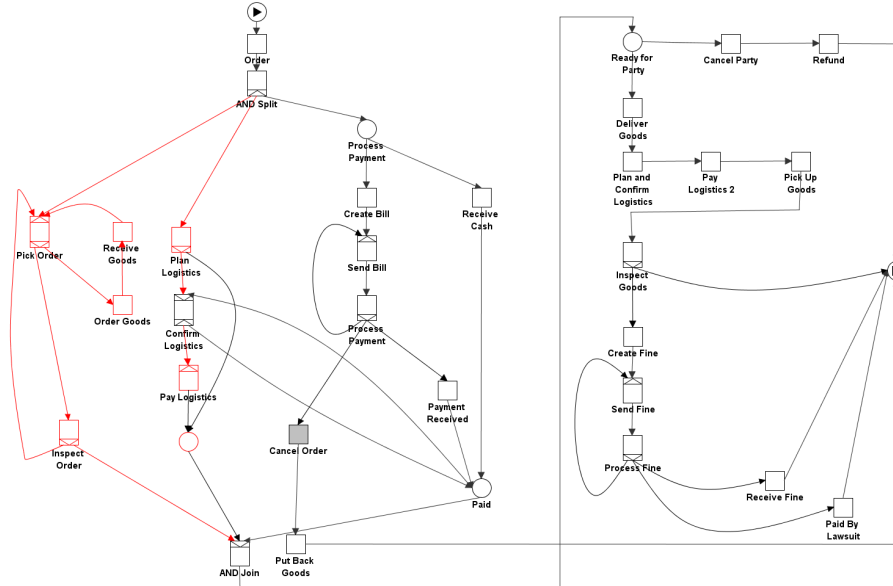
Allocated Roles :  
Administration Em  
Logistics Employee  
Store Employee  
Warehouse Manage

Update Roles By Resource

Employee 'Oliver' is an employee for the administraton, logistics and store departments, but a Manager for the Warehouse.

## 6.2 Workflow process PartyParty

Specification ID: PartyParty, Net ID: PartyParty



### 6.2.1 Datatypes

```
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

```
  <xs:complexType name="Order_specifications">
    <xs:sequence>
<xs:element name="ID" type="xs:long"/>
    </xs:sequence>
  </xs:complexType>
```

```
  <xs:complexType name="Customer_specifications">
    <xs:sequence>
<xs:element name="ID" type="xs:long"/>
<xs:element name="Name" type="xs:string"/>
<xs:element name="Address" type="xs:string"/>
<xs:element name="Code" type="xs:string"/>
<xs:element name="City" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
```

```
  <xs:complexType name="Order_Pick_List">
    <xs:sequence>
<xs:element name="ID" type="xs:long"/>
<xs:element name="OrderID" type="xs:long"/>
<xs:element name="OrderComplete" type="OrderCompleteType"/>
<xs:element name="OrderInspection" type="OrderInspectionType"/>
    </xs:sequence>
  </xs:complexType>
```

```

    <xs:complexType name="Inspect_Goods_List">
      <xs:sequence>
        <xs:element name="ID" type="xs:long"/>
        <xs:element name="OrderID" type="xs:long"/>
        <xs:element name="GoodsInspection" type="GoodsInspectionType"/>
      </xs:sequence>
    </xs:complexType>

    <xs:complexType name="Fine">
      <xs:sequence>
        <xs:element name="ID" type="xs:long"/>
        <xs:element name="OrderID" type="xs:long"/>
        <xs:element name="TimesSent" type="xs:long"/>
        <xs:element name="FinePayed" type="xs:boolean"/>
        <xs:element name="FineAmount" type="xs:decimal"/>
      </xs:sequence>
    </xs:complexType>

    <xs:complexType name="Bill">
      <xs:sequence>
        <xs:element name="ID" type="xs:long"/>
        <xs:element name="TimesSent" type="xs:long"/>
        <xs:element name="BillPayed" type="xs:boolean"/>
      </xs:sequence>
    </xs:complexType>

    <xs:complexType name="Logistics_plan">
      <xs:sequence>
        <xs:element name="ID" type="xs:long"/>
        <xs:element name="OrderID" type="xs:long"/>
        <xs:element name="Transport" type="TransportType"/>
      </xs:sequence>
    </xs:complexType>

    <xs:simpleType name="OrderCompleteType">
      <xs:restriction base="xs:string">
        <xs:enumeration value="Order Complete"/>
        <xs:enumeration value="Order not Complete"/>
      </xs:restriction>
    </xs:simpleType>

    <xs:simpleType name="OrderInspectionType">
      <xs:restriction base="xs:string">
        <xs:enumeration value="Order Accepted"/>
        <xs:enumeration value="Order Disapproved"/>
      </xs:restriction>
    </xs:simpleType>

    <xs:simpleType name="GoodsInspectionType">

```

```

<xs:restriction base="xs:string">
<xs:enumeration value="Goods in good shape"/>
<xs:enumeration value="Goods Damaged"/>
</xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="TransportType">
<xs:restriction base="xs:string">
<xs:enumeration value="Hire Truck"/>
<xs:enumeration value="Take own Van"/>
</xs:restriction>
  </xs:simpleType>
</xs:schema>

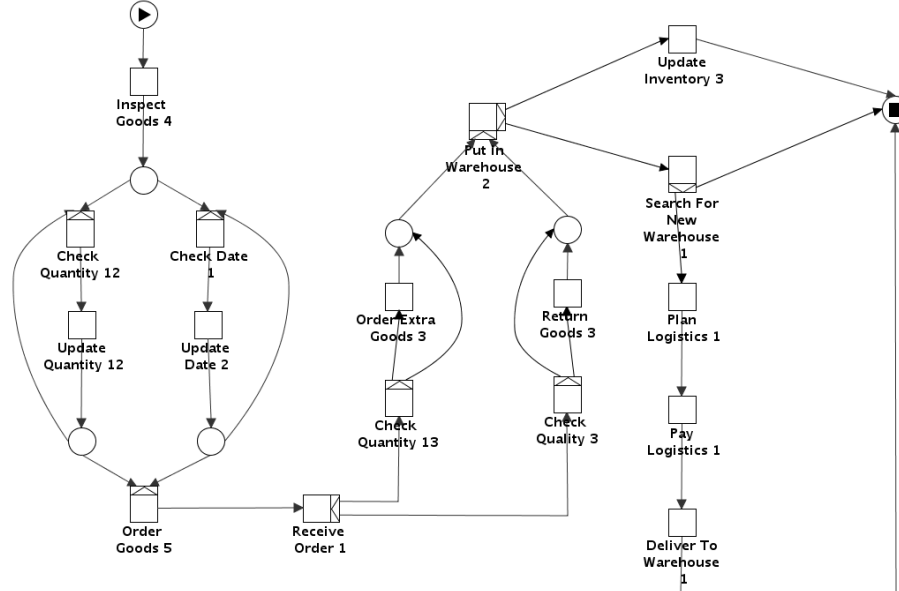
```

### 6.2.2 Design Constructs

- Confirm logistics can only be executed after the order is paid.  
The order will be cancelled when the bill isn't paid after being sent three times.
- After if the fine is sent more that one time, the amount will be increased with 5%.
- The company will get paid by lawsuit when the fine isn't paid and sent three times.

## 6.3 Workflow process WarehouseWarehouse

Specification ID: WarehouseWarehouse\_01, Net ID: WarehouseWarehouse



### 6.3.1 Datatypes

```

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType name="WarehouseInspect">
    <xs:sequence>
      <xs:element name="WarehouseEmployeeID" type="xs:long" />
      <xs:element name="InspectionDate" type="xs:date" />
      <xs:element name="WarehouseID" type="xs:long" />
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="item">
    <xs:sequence>
      <xs:element name="ProductID" type="xs:long" />
      <xs:element name="ProductName" type="xs:string" />
      <xs:element name="MaxQuantity" type="xs:long" />
      <xs:element name="MinQuantity" type="xs:long" />
      <xs:element name="CurQuantity" type="xs:long" />
      <xs:element name="PurchasePrice" type="xs:double" />
      <xs:element name="RentalPrice" type="xs:double" />
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="productList">
    <xs:sequence>
      <xs:element maxOccurs="12" minOccurs="10" name="Item" type="item" />
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="InspectQuantityList">

```

```

<xs:sequence>
<xs:element maxOccurs="1" minOccurs="1" name="ProductList" type="productList" />
</xs:sequence>
</xs:complexType>
<xs:simpleType name="GoodsQualityCheckType">
<xs:restriction base="xs:string">
<xs:enumeration value="Goods in good shape." />
<xs:enumeration value="Goods not so good shape." />
</xs:restriction>
</xs:simpleType>
<xs:simpleType name="GoodsQuantityCheckType">
<xs:restriction base="xs:string">
<xs:enumeration value="Quantity in good shape." />
<xs:enumeration value="Quantity not so good shape." />
</xs:restriction>
</xs:simpleType>
<xs:simpleType name="SpaceCheckType">
<xs:restriction base="xs:string">
<xs:enumeration value="Space no Good." />
<xs:enumeration value="Space Good." />
</xs:restriction>
</xs:simpleType>
</xs:schema>

```

### 6.3.2 Design Constructs

- Products have several properties, these properties together form an item.  
Items are part of a productlist. Several Product Lists are possible.



## 7 Scenarios

### 7.1 Workflow process PartyParty

#### 7.1.1 Scenario 1

The customer orders a party. He pays with cash. The company can deliver the goods with their own van. It seems that the order is picked good, but by the inspection it turns out that there's something missing. By the re-picking it turns out that the company must order some extra goods. By the returning of the goods it turns out that there are goods damaged, and the customer refuses to pay the fine.

Step 1:

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
-----------	--------------	-------------------------	----------------	------------------	--------

Welcome to YAWL **admin**

Available Work Items

ID	Task Description	Status	Enabement Time
<input type="radio"/> <a href="#">27:Order_6</a>	Order	Enabled	May:03 16:25:40

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
-----------	--------------	-------------------------	----------------	------------------	--------

Order

The Order

Id\*  Please provide a valid value for 'Id'. 'Id' is a required 'Long' value.

\* - required | ? - help

Step 2:

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
-----------	--------------	-------------------------	----------------	------------------	--------

Welcome to YAWL **admin**

Available Work Items

ID	Task Description	Status	Enabement Time
<input type="radio"/> <a href="#">27:AND_Split_7</a>	AND Split	Enabled	May:03 16:28:22

Step 3: Receive Cash

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
-----------	--------------	-------------------------	----------------	------------------	--------

**Welcome to YAWL admin**

**Available Work Items**

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">27:Receive_Cash_9</a>	Receive Cash	Enabled	May:03 16:28:54
<input type="radio"/> <a href="#">27:Pick_Order_12</a>	Pick Order	Enabled	May:03 16:28:54
<input type="radio"/> <a href="#">27:Plan_Logistics_16</a>	Plan Logistics	Enabled	May:03 16:28:54
<input type="radio"/> <a href="#">27:Create_Bill_10</a>	Create Bill	Enabled	May:03 16:28:54

Step 4:

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
-----------	--------------	-------------------------	----------------	------------------	--------

**Welcome to YAWL admin**

**Available Work Items**

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">27:Pick_Order_12</a>	Pick Order	Enabled	May:03 16:28:54
<input type="radio"/> <a href="#">27:Plan_Logistics_16</a>	Plan Logistics	Enabled	May:03 16:28:54

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
-----------	--------------	-------------------------	----------------	------------------	--------

Pick Order

Id\*

Order Complete\*  Order Complete  Order Not Complete

Order ID\*

\* - required | ? - help

Step 5:

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
-----------	--------------	-------------------------	----------------	------------------	--------

**Welcome to YAWL admin**

**Available Work Items**

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">27:Inspect_Order_14</a>	Inspect Order	Enabled	May:03 16:31:35
<input type="radio"/> <a href="#">27:Plan_Logistics_16</a>	Plan Logistics	Enabled	May:03 16:28:54

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
-----------	--------------	-------------------------	----------------	------------------	--------

Plan Logistics

Order ID\* 123

Transport\*  Hire Truck  Take Own Van

Id\* 14 **Please provide a valid value for 'Id'. 'Id' is a required 'Long' value.**

\* - required | ? - help

Step 6:

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
-----------	--------------	-------------------------	----------------	------------------	--------

Welcome to YAWL admin

Available Work Items

ID	Task Description	Status	Enablement Time
<input type="radio"/> <a href="#">27:Inspect_Order_14</a>	Inspect Order	Enabled	May:03 16:31:35

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
-----------	--------------	-------------------------	----------------	------------------	--------

Inspect Order

Order Pick List

Id\* 1

Order ID\* 123

Order Complete\*  Order Complete  Order Not Complete

Order Inspection\*  Order Accepted  Order Disapproved

\* - required | ? - help

Step 7:

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
-----------	--------------	-------------------------	----------------	------------------	--------

Welcome to YAWL admin

Available Work Items

ID	Task Description	Status	Enablement Time
<input type="radio"/> <a href="#">27:Pick_Order_12</a>	Pick Order	Enabled	May:03 16:33:20

YAWL Home	Administratrate	Workflow Specifications	Available Work	Checked Out Work	Logout
-----------	-----------------	-------------------------	----------------	------------------	--------

Pick Order

Id\*

Order Complete\*  Order Complete  Order Not Complete

Order ID\*

\* - required | ? - help

Step 8:

YAWL Home	Administratrate	Workflow Specifications	Available Work	Checked Out Work	Logout
-----------	-----------------	-------------------------	----------------	------------------	--------

Welcome to YAWL **admin**

**Available Work Items**

ID	Task Description	Status	Enablement Time
<input type="radio"/> <a href="#">27:Order_Goods_15</a>	Order Goods	Enabled	May:03 16:34:36

Step 9:

YAWL Home	Administratrate	Workflow Specifications	Available Work	Checked Out Work	Logout
-----------	-----------------	-------------------------	----------------	------------------	--------

Welcome to YAWL **admin**

**Available Work Items**

ID	Task Description	Status	Enablement Time
<input type="radio"/> <a href="#">27:Receive_Goods_13</a>	Receive Goods	Enabled	May:03 16:35:11

Step 10:

YAWL Home	Administratrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL **admin**

**Available Work Items**

ID	Task Description	Status	Enablement Time
<input type="radio"/> <a href="#">27:Pick_Order_12</a>	Pick Order	Enabled	May:03 16:35:34

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Pick Order

Id\*1

Order Complete\*  Order Complete  Order Not Complete

Order ID\*123

Submit Suspend Save Cancel Refresh

\* - required | ? - help

Step 11:

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL admin

Available Work Items

ID	Task Description	Status	Enablement Time
<input type="radio"/> <a href="#">27:Inspect_Order_14</a>	Inspect Order	Enabled	May:03 16:36:36

Check Out Herinitialiseren

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Inspect Order

Order Pick List

Id\*1

Order ID\*123

Order Complete\*  Order Complete  Order Not Complete

Order Inspection\*  Order Accepted  Order Disapproved

Submit Suspend Save Cancel Refresh

\* - required | ? - help

Step 12:

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL admin

Available Work Items

ID	Task Description	Status	Enablement Time
<input type="radio"/> <a href="#">27:AND_Join_32</a>	AND Join	Enabled	May:03 16:37:21

Check Out Herinitialiseren

Step 13 Deliver Goods:

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

**Available Work Items**

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">27:Cancel_Party_85</a>	Cancel Party	Enabled	May:03 16:37:56
<input type="radio"/> <a href="#">27:Deliver_Goods_86</a>	Deliver Goods	Enabled	May:03 16:37:56

Step 14:

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

**Available Work Items**

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">27:Plan_and_Confirm_Logistics_87</a>	Plan and Confirm Logistics	Enabled	May:03 16:38:17

Step 15:

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

**Available Work Items**

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">27:Pay_Logistics_2_88</a>	Pay Logistics 2	Enabled	May:03 16:38:59

Step 16:

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

**Available Work Items**

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">27:Pick_Up_Goods_89</a>	Pick Up Goods	Enabled	May:03 16:39:24

Step 17:

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

**Available Work Items**

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">27:Inspect_Goods_97</a>	Inspect Goods	Enabled	May:03 16:39:49

Inspect Goods

Order ID\* 123

Goods Inspection\*  Goods Damaged  Goods In Good Shape

Inspect Goods List ID\* 45 Please provide a valid value for 'Inspect Goods List ID'. 'Inspect Goods List ID' is a required 'Long' value.

\* - required | ? - help

Step 18:

Welcome to YAWL **admin**

Available Work Items

ID	Task Description	Status	Enabement Time
<input type="radio"/> <a href="#">27:Create_Fine_1778</a>	Create Fine	Enabled	May:03 16:41:03

Create Fine

Times Sent 0

Order ID\* 123

Fine Payed  true  false

Fine Id\* 99 Please provide a valid value for 'Fine Id'. 'Fine Id' is a required 'Long' value.

Fine Amount\* 700 Please provide a valid value for 'Fine Amount'. 'Fine Amount' is a required 'Double' value.

\* - required | ? - help

Step 19: After sending the fine, the Times Sent will be automatically increased.

Welcome to YAWL **admin**

Available Work Items

ID	Task Description	Status	Enabement Time
<input type="radio"/> <a href="#">27:Send_Fine_90</a>	Send Fine	Enabled	May:03 16:42:52

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Send Fine**

**The Fine**

Id\* 99

Order ID\* 123

Times Sent\* 0

Fine Payed\*  true  false

Fine Amount\* 100

\* - required | ? - help

Step 20: Here can be seen that the Times Sent is increased. If the Fine isnt payed, this process will increase the amount automatically with 5%.

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL **admin**

**Available Work Items**

ID	Task Description	Status	Enabement Time
<input type="radio"/> <a href="#">27:Process_Fine_93</a>	Process Fine	Enabled	May:03 16:44:36

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Process Fine**

**The Fine**

Id\* 99

Order ID\* 123

Times Sent\* 1

Fine Payed\*  true  false

Fine Amount\* 100

\* - required | ? - help

Step 21: Here can be seen that the amount is 5% increased

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL **admin**

**Available Work Items**

ID	Task Description	Status	Enabement Time
<input type="radio"/> <a href="#">27:Send_Fine_90</a>	Send Fine	Enabled	May:03 16:46:48



YAWL Home	Administratrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Send Fine

The Fine

Id\* 99

Order ID\* 123

Times Sent\* 1

Fine Payed\*  true  false

Fine Amount\* 105

\* - required | ? - help

### Step 22:

YAWL Home	Administratrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL admin

#### Available Work Items

ID	Task Description	Status	Enabement Time
<a href="#">27:Process_Fine_93</a>	Process Fine	Enabled	May:03 16:48:28

YAWL Home	Administratrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Process Fine

The Fine

Id\* 99

Order ID\* 123

Times Sent\* 2

Fine Payed\*  true  false

Fine Amount\* 105

\* - required | ? - help

### Step 23:

YAWL Home	Administratrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL admin

#### Available Work Items

ID	Task Description	Status	Enabement Time
<a href="#">27:Send_Fine_90</a>	Send Fine	Enabled	May:03 16:49:16

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Send Fine**

**The Fine**

Id\* 99

Order ID\* 123

Times Sent\* 2

Fine Payed\*  true  false

Fine Amount\* 110.25

\* - required | ? - help

Step 24:

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL admin

Available Work Items

ID	Task Description	Status	Enablement Time
<input type="radio"/> <a href="#">27:Process_Fine_93</a>	Process Fine	Enabled	May:03 16:50:12

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Process Fine**

**The Fine**

Id\* 99

Order ID\* 123

Times Sent\* 3

Fine Payed\*  true  false

Fine Amount\* 110.25

\* - required | ? - help

Step 25: The fine is sent three times and isnt paid, so the company will be get paid by lawsuit.

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL **admin**

**Available Work Items**

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">27:Paid_By_Lawsuit_94</a>	Paid By Lawsuit	Enabled	May:03 16:51:29

Step 26: The Workflow has ended.

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL **admin**

**Available Work Items**

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
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### 7.1.2 Scenario 2

The costumer orders a party. He pays with a bill. The company can't deliver the goods with their own van, so they must hire a truck. After making the order, the party will be cancelled.

Step 1:

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL **admin**

**Available Work Items**

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">28:Order_6</a>	Order	Enabled	May:03 16:56:19

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Order

The Order

Id: 
Please provide a valid value for 'Id'. 'Id' is a required 'Long' value.

\* - required | ? - help

Step 2:

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL [admin](#)**

**Available Work Items**

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">28:AND_Split_7</a>	AND Split	Enabled	May:03 16:57:17

Step 3:

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL [admin](#)**

**Available Work Items**

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">28:AND_Split_7</a>	AND Split	Enabled	May:03 16:57:17

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Pick Order

Id\*

Order Complete\*  Order Complete  Order Not Complete

Order ID\*

\* - required | ? - help

Step 4:

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL [admin](#)**

**Available Work Items**

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">28:Inspect_Order_14</a>	Inspect Order	Enabled	May:03 16:58:54
<input type="radio"/> <a href="#">28:Plan_Logistics_16</a>	Plan Logistics	Enabled	May:03 16:57:39
<input type="radio"/> <a href="#">28:Create_Bill_10</a>	Create Bill	Enabled	May:03 16:57:39
<input type="radio"/> <a href="#">28:Receive_Cash_9</a>	Receive Cash	Enabled	May:03 16:57:39

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Create Bill

Times Sent

The Bill ID\* 1234 Please provide a valid value for 'The Bill ID'. 'The Bill ID' is a required 'Long' value.

Submit Suspend Save Cancel Refresh

\* - required | ? - help

Step 5:

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL admin

Available Work Items

	ID	Task Description	Status	Enablement Time
<input type="radio"/>	<a href="#">28:Inspect_Order_14</a>	Inspect Order	Enabled	May:03 16:58:54
<input type="radio"/>	<a href="#">28:Plan_Logistics_16</a>	Plan Logistics	Enabled	May:03 16:57:39
<input type="radio"/>	<a href="#">28:Send_Bill_24</a>	Send Bill	Enabled	May:03 16:59:59

Check Out Herinitialiseren

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Send Bill

The Bill

Id\* 1234

Times Sent\* 0

Bill Payed\*  true  false

Submit Suspend Save Cancel Refresh

\* - required | ? - help

Step 6:

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL admin

Available Work Items

	ID	Task Description	Status	Enablement Time
<input type="radio"/>	<a href="#">28:Inspect_Order_14</a>	Inspect Order	Enabled	May:03 16:58:54
<input type="radio"/>	<a href="#">28:Plan_Logistics_16</a>	Plan Logistics	Enabled	May:03 16:57:39
<input type="radio"/>	<a href="#">28:Process_Payment_29</a>	Process Payment	Enabled	May:03 17:00:51

Check Out Herinitialiseren

YAWL Home	Administratrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Inspect Order

Order Pick List

Id\* 1

Order ID\* 456

Order Complete\*  Order Complete  Order Not Complete

Order Inspection\*  Order Accepted  Order Disapproved

Submit Suspend Save Cancel Refresh

\* - required | ? - help

Step 7: Process Payment, the bill isnt yet paid.

YAWL Home	Administratrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL admin

Available Work Items

ID	Task Description	Status	Enablement Time
<input type="radio"/> <a href="#">28:Plan_Logistics_16</a>	Plan Logistics	Enabled	May:03 16:57:39
<input type="radio"/> <a href="#">28:Process_Payment_29</a>	Process Payment	Enabled	May:03 17:00:51

Check Out Herinitialiseren

YAWL Home	Administratrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Process Payment

The Bill

Id\* 1234

Times Sent\* 1

Bill Payed\*  true  false

Submit Suspend Save Cancel Refresh

\* - required | ? - help

Step 8:

YAWL Home	Administratrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL admin

Available Work Items

ID	Task Description	Status	Enablement Time
<input type="radio"/> <a href="#">28:Plan_Logistics_16</a>	Plan Logistics	Enabled	May:03 16:57:39
<input type="radio"/> <a href="#">28:Send_Bill_24</a>	Send Bill	Enabled	May:03 17:03:05

Check Out Herinitialiseren

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
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Send Bill

The Bill

Id\* 1234

Times Sent\* 1

Bill Payed\*  true  false

\* - required | ? - help

Step 9: Plan logistics: A truck will be hired, after this process the company cant confirm the logistics because the bill isn't paid yet.

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL admin

Available Work Items

ID	Task Description	Status	Enablement Time
<input type="radio"/> <a href="#">28:Plan_Logistics_16</a>	Plan Logistics	Enabled	May:03 16:57:39
<input type="radio"/> <a href="#">28:Process_Payment_29</a>	Process Payment	Enabled	May:03 17:03:54

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
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Plan Logistics

Order ID\* 456

Transport\*  Hire Truck  Take Own Van

Id\* 123 Please provide a valid value for 'Id'. 'Id' is a required 'Long' value.

\* - required | ? - help

Step 10: Process Payment, the bill is paid.

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL admin

Available Work Items

ID	Task Description	Status	Enablement Time
<input type="radio"/> <a href="#">28:Process_Payment_29</a>	Process Payment	Enabled	May:03 17:03:54

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
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Process Payment

The Bill

Id\* 1234

Times Sent\* 2

Bill Payed\*  true  false

\* - required | ? - help

Step 11: The company can receive the payment.

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL admin

Available Work Items

ID	Task Description	Status	Enablement Time
<a href="#">28:Payment_Received_25</a>	Payment Received	Enabled	May:03 17:07:04
<input type="button" value="Check Out"/> <input type="button" value="Herinitialiseren"/>			

Step 12: Now the company can confirm the logistics.

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL admin

Available Work Items

ID	Task Description	Status	Enablement Time
<a href="#">28:Confirm_Logistics_17</a>	Confirm Logistics	Enabled	May:03 17:07:51
<input type="button" value="Check Out"/> <input type="button" value="Herinitialiseren"/>			

Step 13:

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL admin

Available Work Items

ID	Task Description	Status	Enablement Time
<a href="#">28:Pay_Logistics_18</a>	Pay Logistics	Enabled	May:03 17:08:33
<input type="button" value="Check Out"/> <input type="button" value="Herinitialiseren"/>			

Step 14:



YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

**Available Work Items**

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">28:AND_Join_32</a>	AND Join	Enabled	May:03 17:08:54

Step 15:

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

**Available Work Items**

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">28:Cancel_Party_85</a>	Cancel Party	Enabled	May:03 17:09:15
<input type="radio"/> <a href="#">28:Deliver_Goods_86</a>	Deliver Goods	Enabled	May:03 17:09:15

Step 16:

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

**Available Work Items**

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">28:Refund_2022</a>	Refund	Enabled	May:03 17:09:46

Step 17: The Workflow has ended.

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

**Available Work Items**

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
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### 7.1.3 Scenario 3

The customer orders a party. He wants to pay it with a bill, but he doesn't. After sending the bill three times the order will be cancelled.

Step 1:

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

### Available Work Items

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">29:Order_6</a>	Order	Enabled	May:03 17:15:31

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Order

The Order

**Id\***  Please provide a valid value for 'Id'. 'Id' is a required 'Long' value.

\* - required | ? - help

Step 2:

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

### Available Work Items

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">29:AND_Split_7</a>	AND Split	Enabled	May:03 17:16:24

Step 3:

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

### Available Work Items

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">29:Create_Bill_10</a>	Create Bill	Enabled	May:03 17:18:43
<input type="radio"/> <a href="#">29:Receive_Cash_9</a>	Receive Cash	Enabled	May:03 17:18:43
<input type="radio"/> <a href="#">29:Pick_Order_12</a>	Pick Order	Enabled	May:03 17:18:43
<input type="radio"/> <a href="#">29:Plan_Logistics_16</a>	Plan Logistics	Enabled	May:03 17:18:43

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Create Bill

Times Sent

**The Bill ID\***  Please provide a valid value for 'The Bill ID'. 'The Bill ID' is a required 'Long' value.

\* - required | ? - help

Step 4: Send Bill: Times Sent will be automatically increased.

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

**Available Work Items**

	ID	Task Description	Status	Enablement Time
<input type="radio"/>	<a href="#">29:Send_Bill_24</a>	Send Bill	Enabled	May:03 17:19:44
<input type="radio"/>	<a href="#">29:Pick_Order_12</a>	Pick Order	Enabled	May:03 17:18:43
<input type="radio"/>	<a href="#">29:Plan_Logistics_16</a>	Plan Logistics	Enabled	May:03 17:18:43

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Send Bill

The Bill

Id\* 9876

Times Sent\* 0

Bill Payed\*  true  false

\* - required | ? - help

Step 5:

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

**Available Work Items**

	ID	Task Description	Status	Enablement Time
<input type="radio"/>	<a href="#">29:Process_Payment_29</a>	Process Payment	Enabled	May:03 17:20:28
<input type="radio"/>	<a href="#">29:Pick_Order_12</a>	Pick Order	Enabled	May:03 17:18:43
<input type="radio"/>	<a href="#">29:Plan_Logistics_16</a>	Plan Logistics	Enabled	May:03 17:18:43

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Plan Logistics

Order ID\* 789

Transport\*  Hire Truck  Take Own Van

Id\* 435 Please provide a valid value for 'Id', 'Id' is a required 'Long' value.

\* - required | ? - help

Step 6:

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL **admin**

Available Work Items

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">29:Process_Payment_29</a>	Process Payment	Enabled	May:03 17:20:28
<input type="radio"/> <a href="#">29:Pick_Order_12</a>	Pick Order	Enabled	May:03 17:18:43

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Process Payment

The Bill

Id\* 9876

Times Sent\* 1

Bill Payed\*  true  false

\* - required | ? - help

Step 7:

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL **admin**

Available Work Items

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">29:Send_Bill_24</a>	Send Bill	Enabled	May:03 17:22:10
<input type="radio"/> <a href="#">29:Pick_Order_12</a>	Pick Order	Enabled	May:03 17:18:43

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Send Bill

The Bill

Id\* 9876

Times Sent\* 1

Bill Payed\*  true  false

\* - required | ? - help

Step 8:

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL **admin**

Available Work Items

ID	Task Description	Status	Enablement Time
<input type="radio"/> <a href="#">29:Process_Payment_29</a>	Process Payment	Enabled	May:03 17:23:39
<input type="radio"/> <a href="#">29:Pick_Order_12</a>	Pick Order	Enabled	May:03 17:18:43

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Pick Order

Id\*

Order Complete\*  Order Complete  Order Not Complete

Order ID\*

\* - required | ? - help

Step 9:

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL **admin**

Available Work Items

ID	Task Description	Status	Enablement Time
<input type="radio"/> <a href="#">29:Inspect_Order_14</a>	Inspect Order	Enabled	May:03 17:24:23
<input type="radio"/> <a href="#">29:Process_Payment_29</a>	Process Payment	Enabled	May:03 17:23:39

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Process Payment

The Bill

Id\*

Times Sent\*

Bill Paid\*  true  false

\* - required | ? - help

Step 10:

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL **admin**

Available Work Items

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">29:Inspect_Order_14</a>	Inspect Order	Enabled	May:03 17:24:23
<input type="radio"/> <a href="#">29:Send_Bill_24</a>	Send Bill	Enabled	May:03 17:25:10

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
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Send Bill

The Bill

Id\* 9876

Times Sent\* 2

Bill Payed\*  true  false

\* - required | ? - help

Step 11: The bill isnt paid and sent three times, so after the process payment the order will be cancelled.

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
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Welcome to YAWL **admin**

Available Work Items

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">29:Inspect_Order_14</a>	Inspect Order	Enabled	May:03 17:24:23
<input type="radio"/> <a href="#">29:Process_Payment_29</a>	Process Payment	Enabled	May:03 17:25:57

YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
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Process Payment

The Bill

Id\* 9876

Times Sent\* 3

Bill Payed\*  true  false

\* - required | ? - help

Step 12:

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

**Available Work Items**

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">29:Inspect_Order_14</a>	Inspect Order	Enabled	May:03 17:24:23
<input type="radio"/> <a href="#">29:Cancel_Order_1543</a>	Cancel Order	Enabled	May:03 17:27:47

Step 13:

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

**Available Work Items**

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
<input type="radio"/> <a href="#">29:Put_Back_Goods_83</a>	Put Back Goods	Enabled	May:03 17:28:15

Step 14: The Workflow has ended.

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

**Available Work Items**

<i>ID</i>	<i>Task Description</i>	<i>Status</i>	<i>Enablement Time</i>
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## 7.2 Workflow process PartyParty

### 7.2.1 Scenario 1

A warehouse employee performs his routine by inspecting the Date of products, discarding expired products and ordering new goods. He then processes a received order which didn't pass the quality inspection and therefore got sent back. The amount received did match the order however. Since the goods got sent back, there was obviously enough place for the goods.

Step 1:

The Power of Expressiveness					
YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
<b>Welcome to YAWL admin</b>					
<b>Available Work Items</b>					
ID	Task Description	Status	Enablement Time		
<a href="#">30:Inspect Goods 4 3</a>	Inspect Goods 4	Enabled	May:01 5:28:27		
<input type="button" value="Check Out"/> <input type="button" value="Reset"/>					

---

YAWL is distributed under the [LGPL](#).

Step 2: Register the Employee's information and the date of Inspection.

The Power of Expressiveness					
YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
<b>Welcome to YAWL admin</b>					
<b>Available Work Items</b>					
ID	Task Description	Status	Enablement Time		
<a href="#">30:Check Date 1 1097</a>	Check Date 1	Enabled	May:01 5:29:59		
<a href="#">30:Check Quantity 12 308</a>	Check Quantity 12	Enabled	May:01 5:29:59		
<input type="button" value="Check Out"/> <input type="button" value="Reset"/>					

---

YAWL is distributed under the [LGPL](#).

The Power of Expressiveness					
YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout
<b>Welcome to YAWL admin</b>					
<b>Available Work Items</b>					
ID	Task Description	Status	Enablement Time		
<a href="#">30:Check Date 1 1097</a>	Check Date 1	Enabled	May:01 5:29:59		
<a href="#">30:Check Quantity 12 308</a>	Check Quantity 12	Enabled	May:01 5:29:59		
<input type="button" value="Check Out"/> <input type="button" value="Reset"/>					

---

YAWL is distributed under the [LGPL](#).



Step 3: Choose a product to process.

The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Input The Following Information On The Product Being Date-checked.

Product ID\*  Please provide a valid value for 'Product ID'. 'Product ID' is a required 'Long' value.

\* - required | ? - help

---

YAWL is distributed under the [LGPL](#).

The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
-----------	--------------	-------------------------	----------------	------------------	--------

Welcome to YAWL admin

Available Work Items

ID	Task Description	Status	Enabement Time
<a href="#">30:Update Date 2 1099</a>	Update Date 2	Enabled	May:01 5:32:10

---

YAWL is distributed under the [LGPL](#).

Step 4: Review the items currently in the system.

The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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After Discarding Any Out Of Date Or Unusable Products Enter The New Quantity Of The Following Product.

Product Name

Current Quantity\*

\* - required | ? - help

---

YAWL is distributed under the [LGPL](#).

Step 5: And re-adjust the Quantity currently in the warehouse after discarding unusable products.

The Power of Expressiveness					
YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout

After Discarding Any Out Of Date Or Unusable Products Enter The New Quantity Of The Following Product.

Product Name   
 Current Quantity\*

\* - required | ? - help

YAWL is distributed under the [LGPL](#).

Step 6: When completing the Inspection new goods can be ordered.

The Power of Expressiveness					
YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout

Welcome to YAWL admin

**Available Work Items**

ID	Task Description	Status	Enabement Time
<a href="#">30:Order Goods 5 7</a>	Order Goods 5	Enabled	May:01 5:33:42
<a href="#">30:Check Date 1 1097</a>	Check Date 1	Enabled	May:01 5:33:42

YAWL is distributed under the [LGPL](#).

Step 7: After placing the order, record the ID for reference in the system.

The Power of Expressiveness					
YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout

After Placing The Order With The Supplier Input The Order IDhere.

Order ID\*  Please provide a valid value for 'Order ID'. 'Order ID' is a required 'Long' value.

\* - required | ? - help

YAWL is distributed under the [LGPL](#).

Step 8: Verify the Order ID in the system with the received Order.

The Power of Expressiveness					
YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout

Enter The Details Of The Received Order Below.

Order ID\*

Submit | Suspend | Save | Cancel | Refresh

\* - required | ? - help

YAWL is distributed under the [LGPL](#).

The Power of Expressiveness					
YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout

Welcome to YAWL admin

**Available Work Items**

ID	Task Description	Status	Enablement Time
<input type="radio"/> <a href="#">30:Check Quality 3 1129</a>	Check Quality 3	Enabled	May:01 5:35:19
<input type="radio"/> <a href="#">30:Check Quantity 13 1127</a>	Check Quantity 13	Enabled	May:01 5:35:19

Check Out | Reset

YAWL is distributed under the [LGPL](#).

Step 9: The received goods where in an unacceptable shape, they will be returned.

The Power of Expressiveness					
YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout

Is The Quality Of The Goods Acceptable.

Goods Quality Check\*  Goods In Good Shape.  Goods Not So Good Shape.

Submit | Suspend | Save | Cancel | Refresh

\* - required | ? - help

YAWL is distributed under the [LGPL](#).

The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
-----------	--------------	-------------------------	----------------	------------------	--------

**Welcome to YAWL admin**

**Available Work Items**

ID	Task Description	Status	Enablement Time
<a href="#">30:Check_Quantity_13_1127</a>	Check Quantity 13	Enabled	May:01 5:35:19
<a href="#">30:Return_Goods_3_1131</a>	Return Goods 3	Enabled	May:01 5:36:31

---

YAWL is distributed under the [LGPL](#).

Step 10: Record the Return ID for reference in the system.

The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Return ID for The Returned Order:

Return ID\*  Please provide a valid value for 'Return ID'. 'Return ID' is a required 'Long' value.

\* - required | ? - help

---

YAWL is distributed under the [LGPL](#).

The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
-----------	--------------	-------------------------	----------------	------------------	--------

**Welcome to YAWL admin**

**Available Work Items**

ID	Task Description	Status	Enablement Time
<a href="#">30:Check_Quantity_13_1127</a>	Check Quantity 13	Enabled	May:01 5:35:19

---

YAWL is distributed under the [LGPL](#).

Step 11: The quantity is as ordered.

The Power of Expressiveness					
YAWL Home	Administratrate	Workflow Specifications	Available Work	Checked Out Work	Logout

Is The Quantity Delived The Same As Orderd.

Goods Quantity\* ↻ Quantity In Good Shape. ↻ Quantity Not So Good Shape.

Submit | Suspend | Save | Cancel | Refresh

\* - required | ? - help

YAWL is distributed under the [LGPL](#).

The Power of Expressiveness					
YAWL Home	Administratrate	Workflow Specifications	Available Work	Checked Out Work	Logout

Welcome to YAWL admin

Available Work Items

ID	Task Description	Status	Enablement Time
↻ <a href="#">30:Put in Warehouse 2 1134</a>	Put in Warehouse 2	Enabled	May:01 5:39:13

Check Out | Reset

YAWL is distributed under the [LGPL](#).

Step 12: There is enough space in the warehouse to receive the goods in.

The Power of Expressiveness					
YAWL Home	Administratrate	Workflow Specifications	Available Work	Checked Out Work	Logout

Is There Room In The Current Warehouse.

Space Check\* ↻ Space Good. ↻ Space No Good.

Submit | Suspend | Save | Cancel | Refresh

\* - required | ? - help

YAWL is distributed under the [LGPL](#).

The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

**Available Work Items**

ID	Task Description	Status	Enablement Time
<a href="#">30:Update_Inventory_3_1522</a>	Update Inventory 3	Enabled	May:01 5:40:16

YAWL is distributed under the [LGPL](#).

Step 13: Job Completed.

The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Order Accepted In Warehouse. Inspect The Goods Now By Starting A New Case.

\* - required | ? - help

YAWL is distributed under the [LGPL](#).

### 7.2.2 Scenario 2

This scenario is variation on the previous one, it's exactly the same except that there was no space in the warehouse, which is where this scenario picks up upon.

Step 13: There is not enough space in the warehouse for the received goods.

The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Is There Room In The Current Warehouse.

Space Check\*  Space Good.  Space No Good.

\* - required | ? - help

YAWL is distributed under the [LGPL](#).

The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
-----------	--------------	-------------------------	----------------	------------------	--------

Welcome to YAWL admin

**Available Work Items**

ID	Task Description	Status	Enablement Time
<a href="#">32:Search For New Warehouse 1 1523</a>	Search For New Warehouse 1	Enabled	May:01 5:44:57

YAWL is distributed under the [LGPL](#).

Step 14: Luckily, Warehouse 5 had room for the order.

The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Enter The New Warehouse ID.

Warehouse ID\*  Please provide a valid value for 'Warehouse ID'. 'Warehouse ID' is a required 'Long' value.

\* - required | ? - help

YAWL is distributed under the [LGPL](#).

The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
-----------	--------------	-------------------------	----------------	------------------	--------

Welcome to YAWL admin

**Available Work Items**

ID	Task Description	Status	Enablement Time
<a href="#">32:Plan Logistics 1 1524</a>	Plan Logistics 1	Enabled	May:01 5:45:50

YAWL is distributed under the [LGPL](#).

Step 15: After organizing logistics the Logistics ID is recorded for reference.

The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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After Organizing Logistics For The Order Enter The Required Information Below.

Logistics ID\*

\* - required | ? - help

YAWL is distributed under the [LGPL](#).

The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

**Available Work Items**

ID	Task Description	Status	Enablement Time
32:Pay Logistics 1 1841	Pay Logistics 1	Enabled	May:01 5:46:43

YAWL is distributed under the [LGPL](#).

Step 16: Record the logistics Invoice ID and the payed amount for reference.

The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Enter The Invoice ID and Amount From The Logistics Department.

Logistics Invoice ID*	<input type="text" value="3626"/>	<span style="color: red;">Please provide a valid value for 'Logistics Invoice ID'. 'Logistics</span>
Logistics Ammount*	<input type="text" value="24.95"/>	<span style="color: red;">Please provide a valid value for 'Logistics Ammount'. 'Logistics Ammount' is a required 'Double' value.</span>

\* - required | ? - help

YAWL is distributed under the [LGPL](#).

The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
-----------	--------------	-------------------------	----------------	------------------	--------

**Welcome to YAWL admin**

**Available Work Items**

ID	Task Description	Status	Enablement Time
32:Deliver To Warehouse 1 1928	Deliver To Warehouse 1	Enabled	May:01 5:47:48

YAWL is distributed under the [LGPL](#).

Step 17: Goods successfully delivered at a different Warehouse.



The Power of Expressiveness					
YAWL Home	Administratrate	Workflow Specifications	Available Work	Checked Out Work	Logout

Order Processing Complete.

Submit Suspend Save Cancel Refresh

\* - required | ? - help

YAWL is distributed under the [LGPL](#).

### 7.2.3 Scenario 3

Step 1: There is not enough space in the warehouse for the received goods.

The Power of Expressiveness					
YAWL Home	Administratrate	Workflow Specifications	Available Work	Checked Out Work	Logout
<b>Welcome to YAWL admin</b>					
<b>Available Work Items</b>					
ID	Task Description	Status	Enablement Time		
33:Inspect Goods 4 3	Inspect Goods 4	Enabled	May:01 5:48:54		
<input type="button" value="Check Out"/> <input type="button" value="Reset"/>					

YAWL is distributed under the [LGPL](#).

Step 2: Register the Employee's information and the date of Inspection.

The Power of Expressiveness					
YAWL Home	Administratrate	Workflow Specifications	Available Work	Checked Out Work	Logout
To Start Enter The Following Information.					
Employee ID*		Please provide a valid value for 'Employee ID'. 'Employee ID' is a			
Inspect Date*	2008-05-03	Please provide a valid value for 'Inspect Date'. 'Inspect Date' is a required 'Date' value.			
Submit Suspend Save Cancel Refresh					
* - required   ? - help					

YAWL is distributed under the [LGPL](#).

The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

**Available Work Items**

ID	Task Description	Status	Enablement Time
<a href="#">33:Check Date 1 1097</a>	Check Date 1	Enabled	May:01 5:50:04
<a href="#">33:Check Quantity 12 308</a>	Check Quantity 12	Enabled	May:01 5:50:04

YAWL is distributed under the [LGPL](#).

Step 3: Choose a product to process.

The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Please Supply The Following For The Current Product.

Product ID\*  Please provide a valid value for 'Product ID', 'Product ID' is a required 'Long' value.

\* - required | ? - help

YAWL is distributed under the [LGPL](#).

The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

**Available Work Items**

ID	Task Description	Status	Enablement Time
<a href="#">33:Update Quantity 12 309</a>	Update Quantity 12	Enabled	May:01 5:51:24

YAWL is distributed under the [LGPL](#).

Step 4: Review the old quantity.

The Power of Expressiveness					
YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout

Input The New Quantity For The Following Product.

Product Name

Current Quantity\*

Submit Suspend Save Cancel Refresh

\* - required | ? - help

YAWL is distributed under the [LGPL](#).

Step 5: And appropaiatly set the new quantity.

The Power of Expressiveness					
YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout

Input The New Quantity For The Following Product.

Product Name

Current Quantity\*

Submit Suspend Save Cancel Refresh

\* - required | ? - help

YAWL is distributed under the [LGPL](#).

The Power of Expressiveness					
YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout

Welcome to YAWL admin

Available Work Items

ID	Task Description	Status	Enabement Time
<a href="#">33:Order Goods 5 7</a>	Order Goods 5	Enabled	May:01 5:53:15
<a href="#">33:Check Quantity 12 308</a>	Check Quantity 12	Enabled	May:01 5:53:15

Check Out Reset

YAWL is distributed under the [LGPL](#).

Step 6: When completing the Inspection new goods can be ordered.

After Placing The Order With The Supplier Input The Order IDhere.

Order ID\* 4125125 Please provide a valid value for 'Order ID'. 'Order ID' is a required 'Long' value.

Submit Suspend Save Cancel Refresh

\* - required | ? - help

YAWL is distributed under the [LGPL](#).

Welcome to YAWL admin

Available Work Items

ID	Task Description	Status	Enablement Time
<a href="#">33:Receive Order 1 1124</a>	Receive Order 1	Enabled	May:01 5:54:40

Check Out Reset

YAWL is distributed under the [LGPL](#).

Step 7: Verify the Order ID in the system with the received Order.

Enter The Details Of The Received Order Below.

Order ID\* 141611226

Submit Suspend Save Cancel Refresh

\* - required | ? - help

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The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

**Available Work Items**

	ID	Task Description	Status	Enablement Time
<input type="radio"/>	<a href="#">30:Check Quality 3 1129</a>	Check Quality 3	Enabled	May:01 5:35:19
<input type="radio"/>	<a href="#">30:Check Quantity 13 1127</a>	Check Quantity 13	Enabled	May:01 5:35:19

YAWL is distributed under the [LGPL](#).

Step 8: The received goods where in an unacceptable shape, they will be returned.

The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Is The Quality Of The Goods Acceptable.

Goods Quality Check\*  Goods In Good Shape.  Goods Not So Good Shape.

\* - required | ? - help

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The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

**Available Work Items**

	ID	Task Description	Status	Enablement Time
<input type="radio"/>	<a href="#">30:Check Quantity 13 1127</a>	Check Quantity 13	Enabled	May:01 5:35:19
<input type="radio"/>	<a href="#">30:Return Goods 3 1131</a>	Return Goods 3	Enabled	May:01 5:36:31

YAWL is distributed under the [LGPL](#).

Step 9: Record the Return ID for reference in the system.

The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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Return ID for The Returned Order.

Return ID\* 12512126 Please provide a valid value for 'Return ID'. 'Return ID' is a required 'Long' value.

Submit | Suspend | Save | Cancel | Refresh

\* - required | ? - help

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The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

**Available Work Items**

ID	Task Description	Status	Enablement Time
<a href="#">30:Check Quantity 13 1127</a>	Check Quantity 13	Enabled	May:01 5:35:19

Check Out | Reset

YAWL is distributed under the [LGPL](#).

Step 10: The quantity is as ordered.

The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
-----------	--------------	-------------------------	----------------	------------------	--------

Is The Quantity Delived The Same As Orderd.

Goods Quantity\*  Quantity In Good Shape.  Quantity Not So Good Shape.

Submit | Suspend | Save | Cancel | Refresh

\* - required | ? - help

YAWL is distributed under the [LGPL](#).

The Power of Expressiveness

YAWL Home	Administrate	Workflow Specifications	Available Work	Checked Out Work	Logout
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**Welcome to YAWL admin**

**Available Work Items**

ID	Task Description	Status	Enablement Time
<a href="#">30:Put in Warehouse 2 1134</a>	Put in Warehouse 2	Enabled	May:01 5:39:13

Check Out | Reset

YAWL is distributed under the [LGPL](#).

Step 11: There is enough space in the warehouse to receive the goods in.

The Power of Expressiveness					
YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout

Is There Room In The Current Warehouse.  
Space Check\* ↺ Space Good. ↺ Space No Good.  
Submit | Suspend | Save | Cancel | Refresh

\* - required | ? - help

YAWL is distributed under the [LGPL](#).

The Power of Expressiveness					
YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout

**Welcome to YAWL admin**

**Available Work Items**

ID	Task Description	Status	Enblement Time
↺ <a href="#">30:Update Inventory 3 1522</a>	Update Inventory 3	Enabled	May:01 5:40:16

Check Out | Reset

YAWL is distributed under the [LGPL](#).

Step 12: Job Completed.

The Power of Expressiveness					
YAWL Home	Administrare	Workflow Specifications	Available Work	Checked Out Work	Logout

Order Accepted In Warehouse. Inspect The Goods Now By Starting A New Case.  
Submit | Suspend | Save | Cancel | Refresh

\* - required | ? - help

YAWL is distributed under the [LGPL](#).