

Assumptions

1. There is no direct involvement with customers in the system.
2. Once refund grant is approved by Amazon Financial System, it is assumed that it will send it to customer
3. There are more than one forwarding and shipping robots
4. Once the inventory management system receives order notification from Amazon ordering system, it will first search for the product in inventory, add it to shipping list and then only it will remove that item from inventory
5. Shipping list is constantly updating shipping robots, it sends order information to idle robot which then pack and label the shipping item and send it to Mail truck loading dock
6. Once loading dock is full, mail truck retrieve items for shipping
7. Mail trucks that bring returned products to manual inspection of warehouse
8. Manual inspection results are sent to Amazon financial system and refurbish product storage
9. If the result is pass, then refurbish storage allows entrance and refund grant request is sent Amazon financial system
10. Supplier trucks bring new merchandise to warehouse barcode scanner which updates inventory management system
11. Once inventory management system is updates, information is sent to forwarding robot
12. Forwarding robot picks new merchandise and deposits them to an assigned location by inventory management system.