CLAIMS

1. A method for confidentially producing shipment orders for clinical trials, the method comprising:

at a first computer system comprising one or more processors and one or more memories:

receiving a plurality of supply orders associated with one or more clinical trials;

determining for each of the plurality of supply orders: a clinical trial study, a site location, and a treatment type;

assigning a first plurality of supply orders associated with a first clinical trial study to a packaging site based on the site location;

associating a first sub-group of the first plurality of supply orders with a first assembly procedure based on the treatment type to create a first assembly order; and

associating a second sub-group of the first plurality of supply orders with a second assembly procedure based on the treatment type to create a second assembly order;

at a second computer system comprising a second one or more processors and a second one or more memories:

receiving the first assembly order and the second assembly order; and

assigning, randomly, a plurality of kit identifiers to the first assembly order and the second assembly order, thereby creating a plurality of blinded kits; and

at the first computer system, confidentially producing shipment orders for the first plurality of clinical trials based on the plurality of blinded kits.

2. The method of claim 1, further comprising, at the first computer system:

determining a shipment type for the first plurality of supply orders;

in accordance with a determination one or more supply orders are associated with a first shipment type, producing shipment orders for the one or more supply orders associated with the first shipment type; and

in accordance with a determination one or more supply orders are associated with a second shipment type, producing instructions to store the one or more supply orders associated with the second shipment type, optionally wherein the first treatment type corresponds to an active group and the second treatment type corresponds to a control group.

3. The method of claim 2, wherein the first shipment type corresponds to a pack-to-order request and the second shipment type corresponds to a pack-to-stock request.

4. The method of any of claims 2 to 3, further comprising:

receiving a request from a first clinical trial site associated with a first supply order of the one or more supply orders associated with the second shipment type; and

producing a shipment order for the first supply order based on the request from the first clinical trial site.

5. The method of any of claims 1 to 4, wherein the determined site locations of the first plurality of supply orders are associated with a same country and/or wherein the plurality of supply orders are received via a customer communication or an application programming interface associated with a client.

6. The method of any of claims 1 to 5, further comprising, at the first computer system:

receiving an input from a client associated with the first clinical trial study corresponding to updated kit identifiers for one or more of the first plurality of supply orders; and

updating the plurality of kit identifiers associated with the first plurality of supply orders, and optionally wherein updating the plurality of kit identifiers is performed prior to assigning the plurality of kit identifiers to the first assembly order and the assembly order.

7. The method of any of claims 1 to 6, further comprising, at the first computer system:

receiving a rejection from a user associated with the first computer system for the first assembly order, the second assembly order, or a combination thereof;

flagging a rejected assembly order for manual shipment processes.

8. An electronic system, comprising:

one or more processors;

a memory; and

one or more programs, wherein the one or more programs are stored in the memory and configured to be executed by the one or more processors, the one or more programs including instructions for:

at a first computer system comprising one or more processors and one or more memories:

receiving a plurality of supply orders associated with one or more clinical trials;

determining for each of the plurality of supply orders: a clinical trial study, a site location, and a treatment type;

assigning a first plurality of supply orders associated with a first clinical trial study to a packaging site based on the site location;

associating a first sub-group of the first plurality of supply orders with a first assembly procedure based on the treatment type to create a first assembly order; and

associating a second sub-group of the first plurality of supply orders with a second assembly procedure based on the treatment type to create a second assembly order;

at a second computer system comprising a second one or more processors and a second one or more memories:

receiving the first assembly order and the second assembly order; and

assigning, randomly, a plurality of kit identifiers to the first assembly order and the second assembly order, thereby creating a plurality of blinded kits; and

at the first computer system, confidentially producing shipment orders for the first plurality of clinical trials based on the plurality of blinded kits.

9. The electronic system of claim 8, wherein the one or more programs can further include instructions for, at the first computer system:

determining a shipment type for the first plurality of supply orders;

in accordance with a determination one or more supply orders are associated with a first shipment type, producing shipment orders for the one or more supply orders associated with the first shipment type; and

in accordance with a determination one or more supply orders are associated with a second shipment type, producing instructions to store the one or more supply orders associated with the second shipment type, optionally wherein the first treatment type corresponds to an active group and the second treatment type corresponds to a control group.

10. The electronic system of claim 9, wherein the first shipment type corresponds to a pack-to-order request and the second shipment type corresponds to a pack-to-stock request.

11. The electronic system of any of claims 9 to 10, wherein the one or more programs can further include instructions for, at the first computer system:

receiving a request from a first clinical trial site associated with a first supply order of the one or more supply orders associated with the second shipment type; and

producing a shipment order for the first supply order based on the request from the first clinical trial site.

12. The electronic system of any of claims 8 to 11, wherein the determined site locations of the first plurality of assembly orders are associated with a same country and/or wherein the plurality of assembly orders are received via a customer communication or an application programming interface associated with a client.

13. The electronic system of any of claims 8 to 12, wherein the one or more programs can further include instructions for, at the first computer system:

receiving an input from a client associated with the first clinical trial study corresponding to updated kit identifiers for one or more of the first plurality of supply orders; and

updating the plurality of kit identifiers associated with the first plurality of supply orders, optionally wherein updating the plurality of kit identifiers is performed prior to assigning the plurality of kit identifiers to the first assembly order and the second assembly order.

14. The electronic system of any of claims 8 to 13, wherein the one or more programs can further include instructions for, at the first computer system:

receiving a rejection from a user associated with the first computer system for the first assembly order, the second assembly order, or a combination thereof;

flagging a rejected assembly order for manual shipment processes.

15. A non-transitory computer-readable storage medium storing one or more programs, the one or more programs comprising instructions, which when executed by one or more processors of one or more electronic devices having a display, cause the one or more electronic devices to:

at a first computer system comprising one or more processors and one or more memories:

receive a plurality of supply orders associated with one or more clinical trials;

determine for each of the plurality of supply orders: a clinical trial study, a site location, and a treatment type;

assign a first plurality of supply orders associated with a first clinical trial study to a packaging site based on the site location;

associate a first sub-group of the first plurality of supply orders with a first assembly procedure based on the treatment type to create a first assembly order; and

associate a second sub-group of the first plurality of supply orders with a second assembly procedure based on the treatment type to create a second assembly order;

at a second computer system comprising a second one or more processors and a second one or more memories:

receive the first assembly order and the second assembly order; and

assign, randomly, a plurality of kit identifiers to the first assembly order and the second assembly order, thereby creating a plurality of blinded kits; and

at the first computer system, confidentially produce shipment orders for the first plurality of clinical trials based on the plurality of blinded kits.

16. The non-transitory computer-readable storage medium of claim 15, wherein the instructions further cause the one or more electronic devices to, at the first computer system:

determine a shipment type for the first plurality of supply orders;

in accordance with a determination one or more supply orders are associated with a first shipment type, produce shipment orders for the one or more supply orders associated with the first shipment type; and

in accordance with a determination one or more supply orders are associated with a second shipment type, produce instructions to store the one or more supply orders associated with the second shipment type, optionally wherein the first treatment type corresponds to an active group and the second treatment type corresponds to a control group.

17. The non-transitory computer-readable storage medium of claim 16, wherein the first shipment type corresponds to a pack-to-order request and the second shipment type corresponds to a pack-to-stock request.

18. The non-transitory computer-readable storage medium of any of claims 16 to 17, wherein the instructions further cause the one or more electronic devices to, at the first computer system:

receive a request from a first clinical trial site associated with a first supply order of the one or more supply orders associated with the second shipment type; and

produce a shipment order for the first supply order based on the request from the first clinical trial site.

19. The non-transitory computer-readable storage medium of any of claims 15 to 18, wherein the determined site locations of the first plurality of assembly orders are associated with a same

country and/or wherein the plurality of assembly orders are received via a customer communication or an application programming interface associated with a client.

20. The non-transitory computer-readable storage medium of any of claims 15 to 19, wherein the instructions further cause the one or more electronic devices to, at the first computer system:

receive an input from a client associated with the first clinical trial study corresponding to updated kit identifiers for one or more of the first plurality of supply orders; and

update the plurality of kit identifiers associated with the first plurality of supply orders, optionally wherein updating the plurality of kit identifiers is performed prior to assigning the plurality of kit identifiers to the first assembly order and the assembly order, optionally wherein the instructions further cause the one or more electronic devices to, at the first computer system:

receive receiving a rejection from a user associated with the first computer system for the first assembly order, the second assembly order, or a combination thereof;

flag a rejected assembly order for manual shipment processes.