What is claimed is:

1. A method for automated exchange of healthcare information between an electronic medical record (EMR) system and a dose fulfillment client for fulfillment of a dose order, the method comprising:

receiving a healthcare information data stream at a platform interface module, wherein the healthcare information data stream comprises information related to a dose order;

identifying the dose order from the healthcare information data stream;

parsing dose order metadata for the dose order from the healthcare information data stream, wherein the dose order metadata comprises one or more dose characteristics associated with the dose order;

populating a staging table with the dose order metadata for the dose order, wherein the staging table comprises a plurality of dose order data fields populated with corresponding respective portions of the dose order metadata;

identifying, at least in part based on the dose order metadata, the dose fulfillment client from a plurality of dose fulfillment clients for fulfillment of the dose order, wherein the plurality of dose fulfillment clients each have respective predefined unique input formats;

transforming the dose order metadata into a predefined format corresponding to a particular dose fulfillment client to generate transformed dose order metadata , wherein the transforming is at least in part based on the respective predefined input format of the identified dose fulfillment client, and

wherein the transforming includes mapping the plurality of dose order data fields of the staging table to corresponding respective ones of a plurality of dose fulfillment client input fields; and

providing the particular dose fulfillment client access to the transformed dose order metadata, wherein the dose fulfillment client is operable to retrieve the transformed dose order metadata from the staging table to fulfill the dose order based on the transformed dose order metadata, wherein the dose fulfillment client comprises at least one of a pharmacy workflow management application for manual preparation of the dose order, an automated dose preparation device, an automated total parenteral nutrition (TPN) compounder, or a dose dispensing cabinet.

2. The method of claim 1, wherein the staging table stores the dose order metadata in a standardized intermediate format.

3. The method of claim 2, further comprising:

receiving a first dose order in a first EMR form;

receiving a second dose order in a second EMR form;

wherein the first dose order and the second dose order correspond to a dose order with identical constituent ingredients, and wherein the form of the constituent ingredients in the first EMR form differs from the second EMR form, and wherein form of the constituent ingredients for the first dose order is identical to the form of the constituent ingredients for the second dose order in the respective staging tables corresponding to the first dose order and the second dose order.

4. The method of claim 1, wherein the staging table is independent of any of the plurality of dose fulfillment clients.

5. The method of claim 1, wherein the dose fulfillment client input fields are defined by a unique input format associated with the dose fulfillment client.

6. The method of claim 5, wherein the transforming comprises:

validating the dose order metadata of the plurality of dose order data fields with respect to the unique input format for corresponding ones of the dose fulfillment client input fields, wherein the validating includes correlating the dose order metadata of the plurality of dose order data fields to formulary records of the dose fulfillment client with respect to the corresponding respective ones of the dose fulfillment client input fields.

7. The method of claim 6, further comprising:

generating an exception in response to an error associated with at least one of the mapping or validating.

8. The method of claim 7, wherein the exception comprises prompting a human user to resolve the error.

9. The method of claim 8, further comprising:

receiving, from the human user, an input associated with the resolution of the error, wherein the input comprises at least one of a correct mapping between a dose order data field of the staging table and a corresponding respective one of a dose fulfillment client input fields or a correct correlation between a portion of dose order metadata and a formulary record of the dose fulfillment client.

10. The method of claim 9, further comprising:

updating at least one of a mapping logic or a correlation logic for use in the mapping and correlating, respectively, based on the input received from the human user.

11. The method of claim 1, further comprising:

updating the staging table to indicate the dose order metadata for the dose order that has been retrieved by the dose fulfillment client.

12. The method of claim 1, further comprising:

managing the dose order record prior to providing the dose order metadata in a second form to the dose fulfillment client, wherein the managing includes providing a user interface to allow a user to perform a management function relative to the dose order.

13. The method of claim 12, wherein the management function comprises at least one of modification of dose order metadata, cancellation of the dose order, organization of the dose order relative to other dose orders, or prioritization of the dose order relative to other dose orders.

14. The method of claim 1, further comprising:

performing logistical processing on the dose order.

15. The method of claim 14, wherein the logistical processing comprises performing an action relative to the dose order in response to receipt of an EMR system message subsequent to the receipt of the dose order, wherein the action includes one of modification and cancelation of the dose order.

16. The method of claim 15, wherein the EMR system message comprises at least one of a dose order change message or a dose order discontinuation message.

17. The method of claim 16, wherein the logistical processing comprises determining if the dose order metadata has been provided to the dose fulfillment client.

18. The method of claim 17, wherein the logistical processing comprises performing an action

relative to the dose order record corresponding to the EMR system message for a dose order record that has not yet been provided to the dose fulfillment client, wherein the action includes one of modification and cancelation of the dose order.

19. The method of claim 18, wherein the logistical processing comprises providing data to the dose fulfillment client related to the EMR system message for a dose order record that has been provided to the dose fulfillment client.

20. The method of claim 19, wherein the data provided to the dose fulfillment client related to the EMR system message is transformed into a form corresponding to the dose fulfillment client.

21. The method of claim 1, further comprising:

logging activity taken with respect to the dose order to generate a log regarding activities relative to the dose order.

22. The method of claim 21, wherein the logging comprises aggregating a plurality of logs generated relative to different respective actions taken with respect to the dose order.

23. The method of claim 1, wherein the healthcare information data stream is received from a electronic medical record (EMR) system.

24. The method of claim 23, wherein the EMR system comprises a hospital information system (HIS).

25. The method of claim 24, wherein the healthcare information data stream comprises a Health Level 7 (HL7) format.