CLAIMS

1. A processor implemented method comprising:

generating, by a Buy Order Listing module, a list of buy orders comprising a first set of buy data products associated with at least one buyer;

generating, by a Sell Order Listing module, a list of sell orders comprising a second set of sell data products associated with at least one seller;

wherein the step of generating the list of buy orders or the list of sell orders comprises:

receiving the one or more attributes associated with the buy data products or the sell data products, wherein at least some of the one or more attributes are in a templatized form;

validating the received one or more attributes for form and conformance with at least the immutable attributes associated with a corresponding previously concluded sale order; and

publishing the validated buy data products and the sell data products in the list of buy orders and the list of sell orders respectively;

wherein the buy data products and the sell data products are characterized by one or more attributes being at least one of mutable attributes and immutable attributes and wherein the one or more attributes comprise (a) non-financial attributes comprising the metadata associated with the data items, reputation scores of the associated sellers or buyers, contract terms and privacy requirements; and (b) financial attributes comprising price associated thereof;

identifying, by a Product Discovery module, a matching sell data product corresponding to one or more of the buy data products based on metadata of data items associated thereof, wherein the matching sell data product corresponding to the one or more buy data products is either one sell data product from the second set or a child sell data product created in the second set by bundling a plurality of sell data products, being parent sell data products from the second set, wherein the child sell data product inherits at least the immutable attributes associated with the parent sell data products;

in response to the matching sell data product, resolving conflicts, by the Product Discovery module, between the buy data products and the matching sell data products based on the one or more attributes, to generate a set of inflight orders corresponding to the one or more buy data products; and

processing, by an Order Processing module, the set of inflight orders corresponding to the one or more buy data products based on price negotiation to generate a set of concluded sale orders.

2. The processor implemented method of claim 1 further comprising executing, by an Order Execution module, the set of concluded sale orders by generating an access key for the at least one buyer to access a corresponding concluded sale order from the set of concluded sale orders.

3. The processor implemented method of claim 1, wherein generating the set of inflight orders corresponding to the one or more buy data products by resolving conflicts comprises one or more of:

checking conformance of the non-financial attributes associated with the matching sell data product with at least one of (a) the non-financial attributes associated with a corresponding buy data product; and (b) a corresponding previously concluded sale order matching the corresponding buy data product in a Repository of Concluded Sale Orders;

selectively identifying the matching sell data product as an inflight order based on ranks associated with at least one of the corresponding buyer and seller; and

modifying at least some of the mutable attributes associated with at least one of the buy data product and the corresponding matching sell data product.

4. The processor implemented method of claim 3, wherein the step of checking conformance is based on at least one of a reasoning technique or big data techniques.

5. The processor implemented method of claim 3, wherein the step of processing the set of inflight orders corresponding to the one or more buy data products based on price negotiation comprises:

modifying price associated with at least one of the buy data product and the corresponding inflight order; and

concluding on the associated financial attributes by a price discovery mechanism to generate the set of concluded sale orders.

6. The processor implemented method of claim 5, wherein the step of executing the set of concluded sale orders comprises one or more of:

checking conformance of the non-financial attributes associated with the set of concluded sale orders with the corresponding previously concluded sale order in the Repository of Concluded Sale Orders; and

generating the access key after financial settlement of the set of concluded sale orders.

7. The processor implemented method of claim 6 further comprising:

updating the Repository of Concluded Sale Orders with the set of concluded sale orders; and

updating the set of inflight orders based on the set of concluded sale orders based on contention processing or resolution.

8. A system comprising:

one or more processors; and

one or more internal data storage devices operatively coupled to the one or more processors for storing instructions configured for execution by the one or more processors, the instructions being comprised in:

a Buy Order Listing module configured to generate a list of buy orders comprising a first set of buy data products associated with at least one buyer;

a Sell Order Listing module configured to generate a list of sell orders comprising a second set of sell data products associated with at least one seller;

wherein the Buy Order Listing module (108A) and the Sell Order Listing module are further configured to generate the list of buy orders and the list of sell order respectively by:

receiving the one or more attributes associated with the buy data products or the sell data products, wherein at least some of the one or more attributes are in

a templatized form;

validating the received one or more attributes for form and conformance with at least the immutable attributes associated with a corresponding previously concluded sale order; and

publishing the validated buy data products and the sell data products in the list of buy orders and the list of sell orders respectively;

wherein the buy data products and the sell data products are characterized by one or more attributes being at least one of mutable attributes and immutable attributes and wherein the one or more attributes comprise (a) non-financial attributes comprising the metadata associated with the data items, reputation scores of the associated sellers or buyers, contract terms and privacy requirements; and (b) financial attributes comprising price associated thereof;

a Product Discovery module configured to:

identify a matching sell data product corresponding to one or more of the buy data products based on metadata of data items associated thereof, wherein the matching sell data product corresponding to the one or more buy data products is either one sell data product from the second set or a child sell data product created in the second set by bundling a plurality of sell data products, being parent sell data products from the second set, wherein the child sell data product inherits at least the immutable attributes associated with the parent sell data products; and

in response to the matching sell data product, resolve conflicts between the buy data products and the matching sell data products based on the one or more attributes, to generate a set of inflight orders corresponding to the one or more buy data products;

an Order Processing module configured to process the set of inflight orders corresponding to the one or more buy data products based on price negotiation to generate a set of concluded sale orders; and

a Repository of Concluded Sale Orders configured to store the set of concluded sale orders.

9. The system of claim 8 further comprising an Order Execution module configured to execute the set of concluded sale orders by generating an access key for the at least one

buyer to access a corresponding concluded sale order from the set of concluded sale orders.

10. The system of claim 8, wherein the Product Discovery module is further configured to resolving conflicts by:

checking conformance of the non-financial attributes associated with the matching sell data product with at least one of (a) the non-financial attributes associated with a corresponding buy data product; and (b) a corresponding previously concluded sale order matching the corresponding buy data product in the Repository of Concluded Sale Orders;

selectively identifying the matching sell data product as an inflight order based on ranks associated with at least one of the corresponding buyer and seller; and

modifying at least some of the mutable attributes associated with at least one of the buy data product and the corresponding matching sell data product.

11. The system of claim 10, wherein the Order Processing module is further configured to process the set of inflight orders by:

modifying price associated with at least one of the buy data product and the corresponding inflight order; and

concluding on the associated financial attributes by a price discovery mechanism to generate the set of concluded sale orders.

12. The system of claim 11, wherein the Order Execution module is further configured to:

check conformance of the non-financial attributes associated with the set of concluded sale orders with the corresponding previously concluded sale order in the Repository of Concluded Sale Orders;

generate the access key after financial settlement of the set of concluded sale orders;

update the Repository of Concluded Sale Orders with the set of concluded sale orders; and

update the set of inflight orders based on the set of concluded sale orders based on contention processing or resolution.

13. A computer program product comprising a non-transitory computer readable medium having a computer readable program embodied therein, wherein the computer readable program, when executed on a computing device, causes the computing device to:

generate a list of buy orders comprising a first set of buy data products associated with at least one buyer;

generate a list of sell orders comprising a second set of sell data products associated with at least one seller;

wherein the step of generating the list of buy orders or the list of sell orders comprises:

receiving the one or more attributes associated with the buy data products or the sell data products, wherein at least some of the one or more attributes are in a templatized form;

validating the received one or more attributes for form and conformance with at least the immutable attributes associated with a corresponding previously concluded sale order; and

publishing the validated buy data products and the sell data products in the list of buy orders and the list of sell orders respectively;

wherein the buy data products and the sell data products are characterized by one or more attributes being at least one of mutable attributes and immutable attributes;

identify a matching sell data product corresponding to one or more of the buy data products based on metadata of data items associated thereof;

in response to the matching sell data product, resolve conflicts between the buy data products and the matching sell data products based on the one or more attributes, to generate a set of inflight orders corresponding to the one or more buy data products;

process the set of inflight orders corresponding to the one or more buy data products based on price negotiation to generate a set of concluded sale orders.

execute the set of concluded sale orders by generating an access key for the at least one buyer to access a corresponding concluded sale order from the set of concluded sale orders;

update a Repository of Concluded Sale Orders with the set of concluded sale orders; and

update the set of inflight orders based on the set of concluded sale orders based on contention processing or resolution.