

## **Claims**

1. An apparatus for processing messages, the apparatus comprising:
  - a computer processor and a data storage device, the data storage device having a message transform module and a message provision module comprising non-transitory instructions executable by the processor to:
    - receive a producer message from a message producer, the producer message structured according to a producer message schema, the producer message schema defining a plurality of producer message fields;
    - transform the producer message to obtain a subscriber message, wherein transforming the producer message comprises applying a subscriber message transform comprising a set of rules for converting a message from the producer message schema to a subscriber message schema associated with a message subscriber, the subscriber message schema defining a plurality of subscriber message fields, wherein the set of rules populates each of the subscriber message fields with at least one value extracted from a corresponding at least one of the producer message fields, wherein the plurality of subscriber message fields differs from the plurality of producer message fields; and
    - provide the subscriber message to the message subscriber.
2. An apparatus according to claim 1, wherein the plurality of subscriber message fields defined by the subscriber message schema is a subset of the plurality of producer message fields defined by the producer message schema.
3. An apparatus according to claim 2, wherein the rules of the subscriber message transform are determined according to a subscriber selection of message fields.
4. An apparatus according to claim 1, wherein the subscriber message transform comprises a rule based on a value of a field of the producer message.
5. An apparatus according to claim 1, wherein the message transform module further comprises non-transitory instructions executable by the processor to transform the producer message by applying a content filter to the producer message.
6. An apparatus according to claim 5, wherein the content filter comprises a rule based on a value of a producer message field of the producer message.

7. An apparatus according to claim 5, wherein the content filter is configured according to an authorized message schema which defines a set of message fields which the subscriber is authorized to access.

8. An apparatus according to claim 1, wherein the message provision module further comprises non-transitory instructions executable by the processor to provide the subscriber message to the message subscriber by sending the subscriber message to the message subscriber or allowing the message subscriber to access the subscriber message.

9. An apparatus according to claim 1, wherein the data storage device further comprises a message schema record module comprising non-transitory instructions executable by the processor to:

- at least one of receive a producer message schema from the message producer, and receive a subscriber message schema from the message subscriber; and

- store at least one of the producer message schema and the subscriber message schema in a schema repository.

10. An apparatus according to claim 1, wherein the data storage device further comprises a subscriber message schema look-up module comprising non-transitory instructions executable by the processor to look up the subscriber message schema in a schema repository.

11. A method performed by a message broker server for processing a message, the method comprising:

- receiving a producer message from a message producer, the producer message structured according to a producer message schema, the producer message schema defining a plurality of producer message fields;

- transforming the producer message to obtain a subscriber message, wherein transforming the producer message comprises applying a subscriber message transform comprising a set of rules for converting a message from the producer message schema to a subscriber message schema associated with a message subscriber, the subscriber message schema defining a plurality of subscriber message fields, wherein the set of rules populates each of the subscriber message fields with at least one value extracted from a corresponding

at least one of the producer message fields, wherein the plurality of subscriber message fields differs from the plurality of producer message fields; and  
providing the subscriber message to the message subscriber.

12. A method according to claim 11, wherein the plurality of subscriber message fields defined by the subscriber message schema is a subset of the plurality of producer message fields defined by the producer message schema.

13. A method according to claim 12, wherein the rules of the subscriber message transform are determined according to a subscriber selection of message fields.

14. A method according to claim 11, wherein the subscriber message transform comprises a rule based on a value of a field of the producer message.

15. A method according to claim 11, wherein transforming the producer message further comprises applying a content filter to the producer message.

16. A method according to claim 15, wherein the content filter comprises a rule based on a value of a producer message field of the producer message.

17. A method according to claim 15, wherein the content filter is configured according to an authorized message schema which defines a set of message fields which the subscriber is authorized to access.

18. A method according to claim 11, wherein providing the subscriber message to the message subscriber comprises sending the subscriber message to the message subscriber or allowing the message subscriber to access the subscriber message.

19. A computer readable medium carrying computer executable instructions which when executed on a processor cause the processor to carry out a method according to claim 10.