

WHAT IS CLAIMED IS:

1 1. A method comprising:
2 receiving, from a relying entity, a request for one or more assertions for
3 a target entity, wherein the request includes an identifier of the relying entity and an
4 identifier of the target entity;
5 identifying an assertions model based on the identifier of the relying
6 entity, wherein the assertions model specifies a set of assertion types;
7 determining a plurality of assertion values for the target entity;
8 identifying a subset of the plurality of assertion values for the target
9 entity, based on the set of assertion types specified by the assertions model;
10 generating a package of assertions for the target entity, based on the
11 subset of the plurality of assertion values for the target entity; and
12 transmitting, to the relying entity, the package of assertions for the
13 target entity.

1 2. The method of claim 1, wherein determining the plurality of
2 assertion values comprises, for each assertion value, of the plurality of assertion
3 values:
4 determining a type of assertion corresponding to the assertion value;
5 determining a type of identity attribute corresponding to the type of
6 assertion;
7 obtaining identity attribute data associated with the target entity
8 corresponding to the type of identity attribute; and
9 calculating the assertion value corresponding to the type of assertion
10 based on the identity attribute data associated with the target entity.

1 3. The method of claim 2, wherein transmitting the package of
2 assertions for the target entity comprises transmitting the package of assertions
3 using one or more of: a cryptographic key for the target entity or a cryptographic key
4 for the relying entity.

1 4. The method of claim 2, wherein:
2 the request further comprises a set of filter criteria;

3 the set of filter criteria comprises a minimum acceptable strength score
4 for a plurality of sources corresponding to the identity attribute data; and
5 each source, of the plurality of sources, is associated with a strength
6 score that meets the minimum acceptable strength score.

1 5. The method of claim 4, further comprising:
2 calculating an overall strength score for the package of assertions
3 based on the strength score associated with each source of the plurality of sources.

1 6. The method of claim 5, further comprising:
2 transmitting, to the relying entity, the overall strength score for the
3 package of assertions and the strength score associated with each source of the
4 plurality of sources.

1 7. The method of claim 5, wherein the overall strength score for the
2 package of assertions is based on a lowest strength score among the plurality of
3 sources.

1 8. The method of claim 1, wherein the request further comprises a
2 set of filter criteria and the method further comprises ensuring the package of
3 assertions for the target entity meets the set of filter criteria.

1 9. The method of claim 1, wherein the package of assertions
2 comprises two or more distinct assertion values for the target entity.

1 10. The method of claim 1, further comprising:
2 determining a plurality of sources and a set of information to retrieve
3 from the plurality of sources, wherein the set of information is necessary for
4 generating the package of assertions;
5 retrieving the set of information from the plurality of sources;
6 generating the package of assertions for the target entity based on the
7 set of information; and
8 transmitting, to the relying entity, the package of assertions for the
9 target entity.

1 11. The method of claim 10, further comprising determining the
2 plurality of sources and the set of information to retrieve from the plurality of sources
3 based on the assertions model.

1 12. The method of claim 1, wherein transmitting the package of
2 assertions for the target entity comprises writing the package of assertions to a
3 distributed ledger.

1 13. The method of claim 1, wherein the package of assertions
2 comprises a singular answer based on the subset of the plurality of assertion values.

1 14. The method of claim 13, further comprising calculating an
2 overall score for the package of assertions based on a strength score associated
3 with each assertion value, of the subset of the plurality of assertion values.

1 15. The method of claim 1, wherein at least one assertion value, of
2 the plurality of assertion values in the package of assertions comprises an expiration
3 date.

1 16. The method of claim 1, further comprising generating an event
2 in an event log, the event being associated with the transmitting of the package of
3 assertions.

1 17. The method of claim 1, wherein determining the assertions
2 model based on the identifier of the relying entity comprises:
3 determining a type of the relying entity based on the identifier of the
4 relying entity; and
5 determining the assertions model based on an association between the
6 assertions model and the type of the relying entity.

1 18. The method of claim 1, wherein the subset of the plurality of
2 assertion values for the target entity are retrieved from a database.

1 19. A system comprising:
2 a server computer comprising:
3 a processor; and
4 a non-transitory computer-readable medium comprising code,
5 executable by the processor, to implement a method comprising:
6 receiving, from a relying entity, a request for one or more assertions for
7 a target entity, wherein the request includes an identifier of the relying entity and an
8 identifier of the target entity;
9 identifying an assertions model based on the identifier of the relying
10 entity, wherein the assertions model specifies a set of assertion types;
11 determining a plurality of assertion values for the target entity;
12 identifying a subset of the plurality of assertion values for the target
13 entity, based on the set of assertion types specified by the assertions model;
14 generating a package of assertions for the target entity, based on the
15 subset of the plurality of assertion values for the target entity; and
16 transmitting, to the relying entity, the package of assertions for the
17 target entity.

1 20. The system of claim 19, wherein determining the plurality of
2 assertion values comprises, for each assertion value, of the plurality of assertion
3 values:
4 determining a type of assertion corresponding to the assertion value;
5 determining a type of identity attribute corresponding to the type of
6 assertion;
7 obtaining identity attribute data associated with the target entity
8 corresponding to the type of identity attribute; and
9 calculating the assertion value corresponding to the type of assertion
10 based on the identity attribute data associated with the target entity.

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1 21. The system of claim 19, wherein the package of assertions
2 comprises a singular answer based on the subset of the plurality of assertion values.

1 22. A method comprising:

2 transmitting, by a relying entity, a request for one or more assertions for
3 a target entity, wherein the request includes an identifier of the relying entity and an
4 identifier of the target entity; and

5 responsive to the request, receiving, by the relying entity, a package of
6 assertions for the target entity, wherein the package of assertions comprises a subset
7 of a plurality of assertion values for the target entity, determined based on an
8 assertions model corresponding to the identifier of the relying entity.

1 23. The method of claim 22, wherein the package of assertions
2 comprises a singular answer based on the subset of the plurality of assertion values.

1 24. A system comprising:

2 a client computer comprising:

3 a processor; and

4 a non-transitory computer-readable medium comprising code,

5 executable by the processor, to implement a method comprising:

6 transmitting, by a relying entity, a request for one or more assertions for
7 a target entity, wherein the request includes an identifier of the relying entity and an
8 identifier of the target entity; and

9 responsive to the request, receiving, by the relying entity, a package of
10 assertions for the target entity, wherein the package of assertions comprises a subset
11 of a plurality of assertion values for the target entity, determined based on an
12 assertions model corresponding to the identifier of the relying entity.

1 25. The system of claim 24, wherein the package of assertions
2 comprises a singular answer based on the subset of the plurality of assertion values.