

CLAIMS

1. A first device comprising:
- a first communication endpoint configured to establish a connection with
5 a user device;
 - an access to one or more first data storages storing:
 - user credentials for a plurality of users;
 - a set of identifiers of resources to be presented to one or more
10 users belonging to said plurality of users stored on two or more second
data storages accessed respectively by two or more second devices,
each identifier in the set having associated therewith access rights, and
an identifier of a second communication endpoint of a second device
having an access to a second data storage storing the resource;
 - one or more first processing logics configured, upon receiving a request
15 from the user device to access said resource, said request comprising said
identifier of the resource, to:
 - verify, based on access rights associated with the received
resource identifier, if the user has the right to access the requested
resource;
 - 20 - if said user associated with said user device has the right to
access the requested resource, to send to the user device the identifier
of the communication endpoint of the second device having an access to
the second data storage storing the resource.
- 25 2. The first device of claim 1, wherein said one or more first processing
logics are configured, upon an authentication request from the user device
further comprising a user credential, to authenticate the user associated with
said user device based on said user credential and user credentials for the
plurality of users.

3. The first device of one of claims 1 or 2, further comprising a third communication endpoint configured to establish a connection with one or more fourth communication endpoints of the one or more second devices.

5 4. The first device of claim 3, wherein the first processing logic is further configured, upon the reception of a resource identifier creation request from one of the second devices, to:

- create a unique identifier of a resource;
- associate to said unique identifier of the resource an identifier of
10 said one the two or more second devices, or a second communication endpoint thereof;
- send to said one the two or more second devices the unique identifier of the resource.

15 5. The first device of claim 2 or one of claims 3 and 4 when dependent on claim 2, wherein the one or more first processing logics are further configured to:

- generate identification data allowing the one or more second devices to identify the user and grant access to the resource, and
20 identification validation data allowing a validation of an identification of the user;
- send to the user device the identification data.

25 6. The first device of claim 5 when dependent on claim 3, wherein the one or more first processing logics are configured, upon a reception, from said second device having an access to the second data storage storing the resource, a request to identify the user comprising said identification data, to:

- validate the identification of the user based on said identification data and said identification validation data;
- 30 - if the identification is validated, send to said second device a validation of the identification of the user and the right of the user to access the resource.

7. The first device of claim 5 when dependent on claim 3, wherein the one or more first processing logics are configured, upon a reception, from said second device having an access to the second data storage storing the resource, of a request to identify the user comprising said identification data, to send to said second device having an access to the second data storage storing the resource said identification validation data.
8. The first device of claim 5 when dependent on claim 3, wherein the one or more first processing logics are configured, upon the generation of the user validation data, to send to the one or more second devices identification validation data.
9. The first device of claim 5, wherein the one or more first processing logics are configured to generate the identification validation data based on the identification data and shared secret keys that are common the first device and the one or more second devices.
10. The first device of one of claims 5 to 9, wherein the identification data is a token, and the identification validation data is a signature of the token.
11. A method comprising:
- receiving a request from a user device to access a resource, said request comprising an identifier of the resource;
 - accessing one or more first data storages storing:
 - user credentials for a plurality of users;
 - a set of identifiers of a set of resources to be presented to one or more users belonging to said plurality of users, comprising said requested resource, said set of resources stored on two or more second data storages accessed respectively by two or more second devices, each identifier in the set having associated therewith access rights, and an identifier of a

second communication endpoint of a second device having an access to a second data storage storing the resource;

- verifying, based on access rights associated with the resource identifier, if a user associated with said user device has the right to access the resource;

- if the user associated with said user device has the right to access the resource, sending to the user device the identifier of the communication endpoint of the second device having an access to the second data storage storing the requested resource.

12. A computer program product comprising:

a non-transitory computer-readable storage medium; and

program code stored on the non-transitory computer-readable storage medium that, when executed by one or more processors, causes the one or more processors to:

- receive a request from a user device to access a resource, said request comprising an identifier of the resource;

- access one or more first data storages storing:

▪ user credentials for a plurality of users;

▪ a set of identifiers of a set of resources to be presented to one or more users belonging to said plurality of users, comprising said requested resource, said set of resources stored on two or more second data storages accessed respectively by two or more second devices, each identifier in the set having associated therewith access rights, and an identifier of a second communication endpoint of a second device having an access to a second data storage storing the resource;

- verify, based on access rights associated with the resource identifier, if a user associated with said user device has the right to access the resource;

- if the user associated with said user device has the right to access the resource, send to the user device the identifier of the communication

endpoint of the second device having an access to the second data storage storing the requested resource.

13. A first device comprising:

- 5 - an access to one or more first data storages storing:
 - user credentials for a plurality of users;
 - a set of identifiers of resources to be presented to one or more users belonging to said plurality of users, stored on two or more second data storages accessed respectively by two or more second devices,
 - 10 each identifier in the set having associated therewith access rights, and an identifier of a second communication endpoint of a second device having an access to a second data storage storing the resource;
 - a third communication endpoint configured to establish a connection with one or more fourth communication endpoints of the two or more second
 - 15 devices;
 - a first processing logic configured, upon the reception of a request of creation of a unique identifier of a resource from one of the two or more second devices, to:
 - create said unique identifier of said resource;
 - 20 - associate to said unique identifier of the resource an identifier of said one of the two or more second devices, or a second communication endpoint thereof;
 - send to said one of the second devices the unique identifier of the resource.

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14. A computer-implemented method comprising:

- receiving, by a first device, a request of creation of a unique identifier of a resource from one of two or more second devices, said first device having access to one or more first data storages storing:
 - 30 ▪ user credentials for a plurality of users;
 - a set of identifiers of a set of resources to be presented to one or more users belonging to said plurality of users, said set of

resources stored on two or more second data storages accessed respectively by said two or more second devices, each identifier in the set having associated therewith access rights, and an identifier of a second communication endpoint of a second device having an access to a second data storage storing the resource;

- said first device further comprising a third communication endpoint configured to establish a connection with one or more fourth communication endpoints of the two or more second devices;
- then, creating, by said first device, said unique identifier of said resource;
- then, associating, by said first device, to said unique identifier of the resource an identifier of said one of the two or more second devices, or a second communication endpoint thereof;
- then, sending, by the first device, to said one of the two or more second devices the unique identifier of the resource.

15. A computer program product comprising:

- a non-transitory computer-readable storage medium; and
- program code stored on the non-transitory computer-readable storage medium that, when executed by one or more processors of a computer having:
 - an access to one or more first data storages storing:
 - user credentials for a plurality of users;
 - a set of identifiers of a set of resources to be presented to one or more users belonging to said plurality of users, said set of resources stored on two or more second data storages accessed respectively by said two or more second devices, each identifier in the set having associated therewith access rights, and an identifier of a second communication endpoint of a second device having an access to a second data storage storing the resource;

- a third communication endpoint configured to establish a connection with one or more fourth communication endpoints of two or more second devices;

causes the one or more processors to:

- 5 - receive a request of creation of an identifier of a resource from one of two or more second devices;
- then, create said unique identifier of said resource;
- then, associate to said unique identifier of the resource an identifier of said one of the two or more second devices, or a second
- 10 communication endpoint thereof;
- then, send to said one of the two or more second devices the unique identifier of the resource.