

Claims

1. A computer implemented method for controlling access to and interaction with user resources, the method comprising:

associating, in a storage device, a single, unique public identifier with a user, the single, unique public identifier usable to receive a plurality of types of interactions;

receiving a first interaction addressed to the single, unique public identifier from a sender, the first interaction comprising an access code;

a processor determining, based on at least the access code, whether the first interaction should be provided to one or more user resources associated with the single, unique public identifier;

if the first interaction should be provided,

selecting at least a first user resource; and

providing the first interaction to at least the first user resource;

receiving an indication from the user that the sender is trusted; and

providing additional interactions from the sender to at least one of the one or more user resources without evaluating access codes.

2. The computer implemented method of claim 1, wherein selecting at least the first user resource comprises selecting at least the first user resource from among the one or more user resources associated with the single, unique public identifier, and

wherein providing the first interaction to at least the first user resource comprises routing at least one of the first interaction, a notice of the first interaction, and a payload associated with the first interaction to at least the first user resource.

3. The computer implemented method of claim 2, wherein routing comprises routing the first interaction without disclosing an address associated with the first user resource to the sender of the first interaction.

4. The computer implemented method of claim 1, wherein selecting at least the first user resource comprises selecting at least one user resource from the group consisting of a phone, a voice mailbox, an instant messaging client, an email client, a short message service (SMS) client, a multimedia messaging service (MMS) client, a social media account, an application, a device designated by a device identifier, a device designated by an internet protocol (IP) address, a processing

module, a sensor, a file system, a database, a web server, a web service, a service bus, a store-and-forward device, and a location designated by a postal address.

5. The computer implemented method of claim 1, wherein selecting at least the first user resource comprises selecting the first user resource based on interaction rules received from the user.

6. The computer implemented method of claim 5, further comprising converting the first interaction from a first type to at least a second type based on the interaction rules prior to providing the first interaction to at least the first user resource.

7. The computer implemented method of claim 1, wherein selecting at least the first user resource comprises evaluating interaction rules, and wherein evaluating the interaction rules includes examining at least one of a location of the user, the access code, an identity of the sender, an address of the sender, a trust level of the sender, a location of the sender, a user resource requested by the sender, a type of the first interaction, an indication of urgency, an indication of importance, a parental control, a zone, a current date, and a current time.

8. The computer implemented method of claim 7, wherein providing the first interaction comprises repeatedly routing at least one of the first interaction, a notice of the first interaction, and a payload associated with the first interaction.

9. The computer implemented method of claim 7, wherein providing the first interaction comprises routing to a plurality of user resources at least one of the first interaction, a notice of the first interaction, and a payload associated with the first interaction.

10. The computer implemented method of claim 1, further comprising receiving an acknowledgement of the first interaction from the user.

11. The computer implemented method of claim 10, further comprising making the acknowledgement available to the sender of the first interaction.

12. The computer implemented method of claim 10, further comprising ending an escalation process in response to receiving the acknowledgement.

13. The computer implemented method of claim 1, further comprising confirming that delivery of the first interaction to the user was achieved.

14. The computer implemented method of claim 13, further comprising making a notice of delivery available to the sender of the first interaction.

15. The computer implemented method of claim 1, wherein the first interaction comprises a request for information, and wherein determining whether the first interaction should be provided comprises determining how much of the requested information to make available to the sender.

16. The computer implemented method of claim 1, wherein the plurality of types of interactions are selected from the group consisting of an email message, a short message service (SMS) message, a multimedia messaging service (MMS) message, an instant message, an application message, a device notification, a social media message, a voice message, a phone call, a video message, a video call, multimedia data, a request for user data, an integrated public alert and warning system (IPAWS) alert, a chat message, a verification code, an authorization code, a wireless application protocol (WAP) message, and postal mail.

17. The computer implemented method of claim 1, further comprising, prior to receiving the indication from the user that the sender is trusted, receiving a second interaction comprising the access code; and providing the second interaction to the first user resource.

18. A system for controlling access to and interaction with user resources, the system comprising:

- a registration module configured to associate a single, unique public identifier with a user, the single, unique public identifier usable to receive a plurality of types of interactions;

- an access module configured to:

- receive a first interaction addressed to the single, unique public identifier from a sender, the first interaction comprising an access code, and

- determine, based on at least the access code, whether the first interaction should be provided to one or more user resources associated with the single, unique public identifier; and

- a fulfillment module configured to, in response to a determination the first interaction should be provided:

- select at least a first user resource, and

- provide the first interaction to at least the first user resource,

- wherein the access module is further configured to receive an indication from the user that the sender is trusted, and wherein the fulfillment module is further configured to provide additional interactions from the sender

to at least one of the one or more user resource without evaluating access codes in response to receiving the indication that the sender is trusted.

19. The system of claim 18, wherein the fulfillment module is configured to select at least the first user resource by selecting at least the first user resource from among the one or more user resources associated with the single, unique public identifier, and

wherein the fulfillment module is configured to provide the first interaction to at least the first user resource by routing at least one of the first interaction, a notice of the first interaction, and a payload associated with the first interaction to at least the first user resource.

20. The system of claim 19, wherein the fulfillment module is configured to route the first interaction without disclosing an address associated with the first user resource to the sender of the first interaction.

21. The system of claim 18, wherein the fulfillment module is configured to select at least the first user resource by selecting at least one user resource from the group consisting of a phone, a voice mailbox, an instant messaging client, an email client, a short message service (SMS) client, a multimedia messaging service (MMS) client, a social media account, an application, a device designated by a device identifier, a device designated by an internet protocol (IP) address, a processing module, a sensor, a file system, a database, a web server, a web service, a service bus, a store-and-forward device, and a location designated by a postal address.

22. The system of claim 18, wherein the fulfillment module is configured to select at least the first user resource based on interaction rules received from the user.

23. The system of claim 22, wherein the fulfillment module is further configured to convert the first interaction from a first type to at least a second type based on the interaction rules prior to providing the first interaction to at least the first resource.

24. The system of claim 18, wherein the fulfillment module is configured to select at least the first user resource by evaluating interaction rules, and wherein the fulfillment module is configured to evaluate the interaction rules by examining at least one of a location of the user, the access code, an identity of the sender, an address of the sender, a trust level of the sender, a location of the sender, a user resource requested by the sender, a type of the first interaction, an indication of urgency, an

indication of importance, a parental control, a zone, a current date, and a current time.

25. The system of claim 24, wherein the fulfillment module is configured to provide the first interaction by repeatedly routing at least one of the first interaction, a notice of the first interaction, and a payload associated with the first interaction.

26. The system of claim 24, wherein the fulfillment module is configured to provide the first interaction by routing to a plurality of user resources at least one of the first interaction, a notice of the first interaction, and a payload associated with the first interaction.

27. The system of claim 18, wherein the fulfillment module is further configured to receive an acknowledgement of the first interaction from the user.

28. The system of claim 27, wherein the access module is further configured to make the acknowledgement available to the sender of the first interaction.

29. The system of claim 18, wherein the plurality of types of interactions are selected from the group consisting of an email message, a short message service (SMS) message, a multimedia messaging service (MMS) message, an instant message, an application message, a device notification, a social media message, a voice message, a phone call, a video message, a video call, multimedia data, a request for user data, an integrated public alert and warning system (IPAWS) alert, a chat message, a verification code, an authorization code, a wireless application protocol (WAP) message, and postal mail.

30. A computer readable storage medium comprising program code for performing a method of controlling access to and interaction with user resources, the method comprising:

associating, in a storage device, a single, unique public identifier with a user, the single, unique public identifier usable to receive a plurality of types of interactions;

receiving a first interaction addressed to the single, unique public identifier from a sender, the first interaction comprising an access code;

determining, based on at least the access code, whether the first interaction should be provided to one or more user resources associated with the single, unique public identifier;

if the first interaction should be provided:

selecting at least a first user resource; and
providing the first interaction to at least the first user resource;
receiving an indication from the user that the sender is trusted; and
providing additional interactions from the sender to at least one of the one or
more user resources without evaluating access codes.

Claims

1. A computer implemented method for controlling access to and interaction with user resources, the method comprising:
 - associating, in a storage device, a single, unique public identifier with a user, the single, unique public identifier usable to receive a plurality of types of interactions;
 - receiving a first interaction addressed to the single, unique public identifier from a sender, the first interaction comprising an access code;
 - a processor determining, based on at least the access code, whether the first interaction should be provided to one or more user resources associated with the single, unique public identifier;
 - if the first interaction should be provided:
 - selecting at least a first user resource; and
 - providing the first interaction to at least the first user resource;
 - receiving an indication from the user that the sender is trusted; and
 - providing additional interactions from the sender to at least one of the one or more user resources without evaluating access codes.
2. The computer implemented method of claim 1, wherein selecting at least the first user resource comprises selecting at least the first user resource from among the one or more user resources associated with the single, unique public identifier, and wherein providing the first interaction to at least the first user resource comprises routing at least one of the first interaction, a notice of the first interaction, and a payload associated with the first interaction to at least the first user resource.
3. The computer implemented method of claim 2, wherein routing comprises routing the first interaction without disclosing an address associated with the first user resource to the sender of the first interaction.
4. The computer implemented method of claim 1, wherein selecting at least the first user resource comprises selecting at least one user resource from the group consisting of a phone, a voice mailbox, an instant messaging client, an email client, a

short message service (SMS) client, a multimedia messaging service (MMS) client, a social media account, an application, a device designated by a device identifier, a device designated by an internet protocol (IP) address, a processing module, a sensor, a file system, a database, a web server, a web service, a service bus, a store-and-forward device, and a location designated by a postal address.

5. The computer implemented method of claim 1, wherein selecting at least the first user resource comprises selecting the first user resource based on interaction rules received from the user.

6. The computer implemented method of claim 5, further comprising converting the first interaction from a first type to at least a second type based on the interaction rules prior to providing the first interaction to at least the first user resource.

7. The computer implemented method of claim 1, wherein selecting at least the first user resource comprises evaluating interaction rules, and wherein evaluating the interaction rules includes examining at least one of a location of the user, the access code, an identity of the sender, an address of the sender, a trust level of the sender, a location of the sender, a user resource requested by the sender, a type of the first interaction, an indication of urgency, an indication of importance, a parental control, a zone, a current date, and a current time.

8. The computer implemented method of claim 7, wherein providing the first interaction comprises repeatedly routing at least one of the first interaction, a notice of the first interaction, and a payload associated with the first interaction.

9. The computer implemented method of claim 7, wherein providing the first interaction comprises routing to a plurality of user resources at least one of the first interaction, a notice of the first interaction, and a payload associated with the first interaction.

10. The computer implemented method of claim 1, further comprising receiving an acknowledgement of the first interaction from the user.

11. The computer implemented method of claim 10, further comprising making the acknowledgement available to the sender of the first interaction.

12. The computer implemented method of claim 10, further comprising ending an escalation process in response to receiving the acknowledgement.

13. The computer implemented method of claim 1, further comprising confirming that delivery of the first interaction to the user was achieved.

14. The computer implemented method of claim 13, further comprising making a notice of delivery available to the sender of the first interaction.

15. The computer implemented method of claim 1, wherein the first interaction comprises a request for information, and wherein determining whether the first interaction should be provided comprises determining how much of the requested information to make available to the sender.

16. The computer implemented method of claim 1, wherein the plurality of types of interactions are selected from the group consisting of an email message, a short message service (SMS) message, a multimedia messaging service (MMS) message, an instant message, an application message, a device notification, a social media message, a voice message, a phone call, a video message, a video call, multimedia data, a request for user data, an integrated public alert and warning system (IPAWS) alert, a chat message, a verification code, an authorization code, a wireless application protocol (WAP) message, and postal mail.

17. The computer implemented method of claim 1, further comprising, prior to receiving the indication from the user that the sender is trusted, receiving a second interaction comprising the access code; and providing the second interaction to the first user resource.

18. A system for controlling access to and interaction with user resources, the system comprising:

one or more processors; and

a memory in communication with the one or more processors, the memory comprising:

a registration module configured to associate a single, unique public identifier with a user, the single, unique public identifier usable to receive a plurality of types of interactions;

an access module configured to:

receive a first interaction addressed to the single, unique public identifier from a sender, the first interaction comprising an access code, and

determine, based on at least the access code, whether the first interaction should be provided to one or more user resources associated with the single, unique public identifier; and

a fulfillment module configured to, in response to a determination the first interaction should be provided:

select at least a first user resource, and

provide the first interaction to at least the first user resource,

wherein the access module is further configured to receive an indication from the user that the sender is trusted, and wherein the fulfillment module is further configured to provide additional interactions from the sender to at least one of the one or more user resource without evaluating access codes in response to receiving the indication that the sender is trusted.

19. The system of claim 18, wherein the fulfillment module is configured to select at least the first user resource by selecting at least the first user resource from among the one or more user resources associated with the single, unique public identifier, and

wherein the fulfillment module is configured to provide the first interaction to at least the first user resource by routing at least one of the first interaction, a notice of the first interaction, and a payload associated with the first interaction to at least the first user resource.

20. The system of claim 19, wherein the fulfillment module is configured to route the first interaction without disclosing an address associated with the first user resource to the sender of the first interaction.

21. The system of claim 18, wherein the fulfillment module is configured to select at least the first user resource by selecting at least one user resource from the group consisting of a phone, a voice mailbox, an instant messaging client, an email client, a short message service (SMS) client, a multimedia messaging service (MMS) client, a social media account, an application, a device designated by a device identifier, a device designated by an internet protocol (IP) address, a processing module, a sensor, a file system, a database, a web server, a web service, a service bus, a store-and-forward device, and a location designated by a postal address.

22. The system of claim 18, wherein the fulfillment module is configured to select at least the first user resource based on interaction rules received from the user.

23. The system of claim 22, wherein the fulfillment module is further configured to convert the first interaction from a first type to at least a second type based on the interaction rules prior to providing the first interaction to at least the first resource.

24. The system of claim 18, wherein the fulfillment module is configured to select at least the first user resource by evaluating interaction rules, and wherein the fulfillment module is configured to evaluate the interaction rules by examining at least one of a location of the user, the access code, an identity of the sender, an address of the sender, a trust level of the sender, a location of the sender, a user resource requested by the sender, a type of the first interaction, an indication of urgency, an indication of importance, a parental control, a zone, a current date, and a current time.

25. The system of claim 24, wherein the fulfillment module is configured to provide the first interaction by repeatedly routing at least one of the first interaction, a notice of the first interaction, and a payload associated with the first interaction.

26. The system of claim 24, wherein the fulfillment module is configured to provide the first interaction by routing to a plurality of user resources at least one of the first interaction, a notice of the first interaction, and a payload associated with the first interaction.

27. The system of claim 18, wherein the fulfillment module is further configured to receive an acknowledgement of the first interaction from the user.

28. The system of claim 27, wherein the access module is further configured to make the acknowledgement available to the sender of the first interaction.

29. The system of claim 18, wherein the plurality of types of interactions are selected from the group consisting of an email message, a short message service (SMS) message, a multimedia messaging service (MMS) message, an instant message, an application message, a device notification, a social media message, a voice message, a phone call, a video message, a video call, multimedia data, a request for user data, an integrated public alert and warning system (IPAWS) alert, a chat message, a verification code, an authorization code, a wireless application protocol (WAP) message, and postal mail.

30. A non-transitory computer readable storage medium comprising program code for performing a method of controlling access to and interaction with user resources, the method comprising:

- associating, in a storage device, a single, unique public identifier with a user, the single, unique public identifier usable to receive a plurality of types of interactions;

- receiving a first interaction addressed to the single, unique public identifier from a sender, the first interaction comprising an access code;

- determining, based on at least the access code, whether the first interaction should be provided to one or more user resources associated with the single, unique public identifier;

- if the first interaction should be provided:

- selecting at least a first user resource; and

- providing the first interaction to at least the first user resource;

- receiving an indication from the user that the sender is trusted; and

- providing additional interactions from the sender to at least one of the one or more user resources without evaluating access codes.