

WHAT IS CLAIMED IS:

1. A method comprising:
receiving, by a first messaging application executing on a first node of a mesh network, a request from an agent executing on the first node to join a message group;
verifying, by the first messaging application, that a policy permits the agent to join the message group;
adding, by the first messaging application, the agent to the message group;
receiving, by the first messaging application and from the agent, content for a message for the message group; and
transmitting, by the first messaging application, the message to a second messaging application of a second node of the mesh network for delivery to an agent that is executing on the second node and that is included in the message group.
2. The method of claim 1, further comprising creating, by the first messaging application, the message group in response to a request from the agent to create the message group.
3. The method of claim 1, further comprising:
prior to the transmitting, verifying, by the first messaging application, that the policy permits the agent to deliver the message to the message group.
4. The method of claim 1, wherein the policy indicates at least one of a permission of the agent to create message groups of one or more message group types, a permission of the agent to join one or more message groups, or a permission of the agent to transmit messages to one or more message groups.
5. The method of claim 1, further comprising encrypting, by the first messaging application, the message with a cryptographic key that is associated with the message group.

6. The method of claim 1, wherein the transmitting includes transmitting the message and a second message for a second message group in a composite message.
7. The method of claim 6, wherein the content for the message is encrypted using a first cryptographic key that is associated with the message group and the content for the second message is encrypted using a second cryptographic key that is associated with the second message group.
8. A method comprising:
receiving, by a first messaging application executing on a first node of a mesh network, a request from an agent executing on the first node to join a message group;
verifying, by the first messaging application, that a policy permits the agent to join the message group;
adding, by the first messaging application, the agent to the message group;
receiving, by the first messaging application and from a second messaging application executing on a second node of the mesh network, a message for the message group; and
delivering, by the first messaging application, content from the message to the agent.
9. The method of claim 8, further comprising creating, by the first messaging application, the message group in response to a request from the agent to create the message group.
10. The method of claim 8, wherein the policy indicates at least one of a permission of the agent to create message groups of one or more message group types, a permission of the agent to receive messages for one or more message groups, or a permission of the agent to join one or more message groups.
11. The method of claim 8, further comprising decrypting, by the first messaging application, the message with a cryptographic key associated with the message group.

12. The method of claim 8, wherein the message is included in a composite message that also includes a second message for a second message group, and the method further comprises delivering, by the first messaging application, content from the second message to at least one agent executing on the first node that is included in the second message group.

13. One or more non-transitory computer readable media storing instructions that, when executed by one or more processors of a node of a mesh network, cause the one or more processors to execute a first messaging application performing operations comprising:

- receiving a request from an agent executing on the node to join a first message group;

- determining whether the agent is permitted, by a policy, to join the first message group;

- in response to determining that the agent is permitted, by the policy, to join the first message group, subscribing the agent to the first message group;

- receiving content for a first message from the agent, wherein the first message is to be provided to one or more agents that are to the first message group;
- and

- sending the first message to a second messaging application of another node of the mesh network to be provided to one or more agents that are subscribed to the first message group.

14. The one or more non-transitory computer readable media of claim 13, wherein the operations further comprise:

- determining whether the policy permits the agent to provide the first message to one or more agents that are subscribed to the first message group;

- wherein the sending is performed in response to a determination that the policy permits the agent to provide the first message to one or more agents that are subscribed to the first message group.

15. The one or more non-transitory computer readable media of claim 13, wherein the policy indicates at least one of a permission of the agent to create message groups of one or more message group types, a permission of the agent to subscribe to one or more message groups, or a permission of the agent to send messages to one or more message groups.

16. The one or more non-transitory computer readable media of claim 13, wherein the operations further comprise generating a cryptographically encoded message based on the first message and a cryptographic key that is associated with the first message group, wherein the first messaging application sends the cryptographically encoded message to the second messaging application.

17. The one or more non-transitory computer readable media of claim 13, wherein the operations further comprise:

receiving content for a second message, wherein the second message is to be provided to one or more agents that are subscribed to the first message group;

receiving content for a third message, wherein the third message is to be provided to one or more agents that are subscribed to a second message group;

generating a composite message including the second message and the third message; and

sending the composite message to the second messaging application.

18. The one or more non-transitory computer readable media of claim 17, wherein the first message is encrypted using a first cryptographic key that is associated with the first message group, and the second message is encrypted using a second cryptographic key that is associated with the second message group.

19. The one or more non-transitory computer readable media of claim 13, wherein the operations further comprise:

obtaining, from a messaging application executing on another node of the mesh network, a second message, wherein the second message is to be provided to one or more agents that are subscribed to the first message group; and
providing, by the first messaging application, content from the second message to the agent.

20. The one or more non-transitory computer readable media of claim 13, wherein the operations further comprise:

obtaining, from a messaging application executing on another node of the mesh network, a cryptographically encoded message;
generating a second message based on the cryptographically encoded message and a cryptographic key associated with the first message group; and
providing content from the second message to one or more agents executing on the node that are subscribed to the first message group.