

Independent Claims 1, 7, 14, 20, 26, and 32					
[1.0] A method comprising:	[7.0] A routing network comprising:	[14.0] A method comprising:	[20.0] An apparatus comprising:	[26.0] An article of manufacture including a computer-readable storage medium having instructions stored thereon, execution of which by a computing device causes the computing device to perform operations comprising:	[32.0] A non-transitory computer readable storage medium having instructions stored thereon, the instructions comprising:

		[14.1] providing, using a processing device of an input source, a data representation to a client device, different from the input source, coupled to a routing network, wherein the data representation includes at least one live object recognizable by the client device, and	[20.1] an input source device configured to provide a data representation to a client device, different from the input source, coupled to a routing network, wherein the data representation includes at least one live object that is recognizable by the client device, and	[26.1] providing, using a processing device of an input source, a data representation to a client device, different from the input source, coupled to a routing network, wherein the data representation includes at least one live object that is recognizable by	[32.1] instructions for providing a data representation to a client device coupled to a routing network, wherein the data representation includes at least one live object recognizable by the client device, and
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				the client device, and	
		[14.2] causing the client device to respond to the live object of the data representation by determining an object identifier (ID) of the live object and to register for updates of the live object with the routing network, such that registering the client device	[20.2] that causes the client device to determine an object identifier (ID) of the live object to register for updates of the live object with the routing network, such that registering the client device with the routing network provides client connection	[26.2] that causes the client device to respond to the live object by determining an object identifier (ID) of the live object to register for updates of the live object with the routing network, such that registering the client device with the routing network	[32.2] wherein the client device is configured to respond to the live object of the data representation by determining an object identifier (ID) of the live object to register for updates of the live object with the routing network, such that registering

		with the routing network provides client connection information to a node in the routing network; and	information to the routing network,	provides client connection information to the routing network; and	the client device with the routing network provides client connection information to the routing network; and
[1.1] receiving, using a processing device, an update message from an input source, the update message identifying a live object and containing data for updating a	[7.1] a gateway device configured to: receive an update message from an input source, the update message identifying a live object and containing data	[14.3] sending, using the processing device of the input source, an update message to the routing network, wherein the update message identifies the	[20.3] wherein the input source device is configured to route an update message to the routing network, wherein the update message identifies the live object and	[26.3] sending, using the processing device of the input source, an update message to the routing network, wherein the update message identifies the	[32.3] instructions for providing, using a processing device of an input source, different from the client device, an update message to the routing network,

property of the live object;	for updating a property of the live object,	live object and contains update data that updates a property of the live object,	contains update data for updating a property of the live object,	live object and contains update data for updating a property of the live object,	wherein the update message identifies the live object and contains update data for updating a property of the live object,
[1.2] identifying a category of the update message based on the input source; determining a node having a node type to which the update message is to be routed based on a	[7.2] identify a category of the update message based on the input source; determine a node having a node type to which the update message is to be routed based on	[14.4] wherein a gateway device at the routing network is configured to identify a category of the update message based on the input source, to determine a node	[20.4] wherein a gateway device at the network is configured to identify a category of the update message based on the input source, to determine a node type to which	[26.4] wherein a gateway device at the routing network is configured to identify a category of the update message based on the input source, to determine a node	[32.4] wherein a gateway device at the routing network is configured to identify a category of the update message based on the input source, to determine a

mapping of categories of update messages to node types, the mapping controlling an amount of update message traffic through nodes of a routing network;	a mapping of a categories of update messages to node types, the mapping controlling an amount of update message traffic through nodes of a routing network; and	type to which the identified category maps,	the identified category maps, and	type to which the identified category maps, and	node type to which the identified category maps, and
[1.3] routing, using the processing device, the update message to the node having the	[7.3] route the update message; and the node configured to: receive the update message	[14.5] and to route the update message to the node, having the node type, at the routing network,	[20.5] to route the update message to a node of the node type at the routing network,	[26.5] to route the update message to a node of the node type at the routing network,	[32.5] to route the update message to a node of the node type at the routing network,

determined node type;	from the gateway device, wherein the node is configured to be mapped to the node type,				
[1.4] causing the node, through the update message, to determine a client, different from the input source, that has registered for updates of the live object; causing the node to route the update message	[7.4] determine a client, different from the input source, that has registered for updates of the live object, and route the update message from the node to the client,	[14.6] wherein the node is configured to identify the client device as a registered device and to route the update message to the client device, and	[20.6] wherein the node is configured to identify the client device as a registered device and route the update message containing the update data to the client device, and	[26.6] wherein the node is configured to identify the client device as a registered device and to route the update message to the client device, and	[32.6] wherein the node is configured to identify the client device as a registered device and to route the update message containing the update data to the client device, and

from the node to the client; and					
[1.5] causing the client to process the update message and to update the property of the live object.	[7.5] wherein the client is adapted to process the update message and to update the property of the live object.	[14.7] wherein the client device processes the update message upon receipt to update the property of the live object at the client device.	[20.7] wherein the client device is configured to process the update message upon receipt to update the property of the live object at the client device.	[26.7] wherein the client device is configured to process the update message upon receipt to update the property of the live object at the client device.	[32.7] wherein the client device is configured to process the update message upon receipt to update the property of the live object at the client device.

Dependent Claims 2-6 and 8-13	
[2.0] The method of claim 1, further comprising: causing the node to extract an object identifier (ID) from the update message, to establish a connection with the client, and to determine if the client has	[8.0] The routing network of claim 7, wherein the node is configured to extract an object identifier (ID) from the update message and to determine a connection to the client to route the data to the client.

registered for updates of the live object based on the object ID.	
[3.0] The method of claim 2, further comprising: causing the node to determine at least one client proxy with which the client communicates; causing the node to route the update message to the client proxy; and causing the client proxy to route the update message to the client to determine the connection.	[9.0] The routing network of claim 8, wherein the node is configured to determine the connection by determining at least one client proxy with which the client communicates and to route the update message to the client proxy.
[4.0] The method of claim 3, further comprising causing the node to maintain client registration information concerning the client connection.	[10.0] The routing network of claim 9, wherein client registration information concerning the client connection is configured to be maintained at the node.
[5.0] The method of claim 3, further comprising causing the node to maintain client registration information concerning the client connection at the client proxy.	[11.0] The routing network of claim 9, wherein client registration information concerning the client connection is configured to be maintained at the client proxy.
[6.0] The method of claim 1, wherein the property of the live object has a direct effect on a visual representation of the live object in a data	

representation, has an effect on an internal aspect of the live object and has no effect on the visual representation of the live object in the data representation, or has a direct effect on one aspect of the visual representation of the live object in the data representation and has no effect on other aspect of the visual representation of the live object in the data representation.	
	[12.0] The routing network of claim 7, wherein: the gateway device is configured to route the update message to the node adapted to receive messages of more than one message category, and the node is configured to determine a connection with at least one client proxy with which the client communicates and to route the data to the client proxy.
	[13.0] The routing network of claim 7, wherein the node type is configured to identify the node that receives the update message from the gateway device.

Dependent Claims 15-19, 21-25, 27-31, and 33-37			
[15.0] The method of claim 14, wherein providing the data representation to the client device includes providing the live object that causes the client device to register with a client proxy of the routing network.	[21.0] The apparatus of claim 20, wherein the live object of the data representation is configured to cause the client device to register with a client proxy of the routing network.	[27.0] The article of manufacture of claim 26, wherein the live object of the data representation causes the client device to register with a client proxy of the routing network.	[33.0] The non-transitory computer readable storage medium of claim 32, wherein the live object of the data representation causes the client device to register with a client proxy of the routing network.
[16.0] The method of claim 14, wherein providing the data representation to the client device includes providing the live object	[22.0] The apparatus of claim 20, wherein the live object of the data representation is configured to cause the client device to register	[28.0] The article of manufacture of claim 26, wherein the live object of the data representation causes the client device to	[34.0] The non-transitory computer readable storage medium of claim 32, wherein the live object of the data representation causes the client device to

that causes the client device to register with the node of the routing network.	with the node of the routing network.	register with the node of the routing network.	register with the node of the routing network.
[17.0] The method of claim 14, wherein providing the data representation to the client device includes providing an activation module that is executed by the client device and that registers the live object with the routing network.	[23.0] The apparatus of claim 20, wherein the received data representation includes an activation module that is configured to be executed by the client device and adapted to register the live object with the routing network.	[29.0] The article of manufacture of claim 26, wherein the received data representation includes an activation module executed by the client device and adapted to register the live object with the routing network.	[35.0] The non-transitory computer readable storage medium of claim 32, wherein the data representation includes an activation module that is executed by the client device and that is adapted to register the live object with the routing network.
[18.0] The method of claim 17, wherein providing the activation module includes	[24.0] The apparatus of claim 23, wherein the activation module is configured to determine a	[30.0] The article of manufacture of claim 29, wherein the activation module determines a	[36.0] The non-transitory computer readable storage medium of claim 35, wherein the activation

providing the activation module that is configured to determine a node type that handles registration and that causes the client device to register with the node corresponding to the node type.	node type for handling registration and to cause the client device to register with the node of the node type.	node type that handles registration and causes the client device to register with the node of the node type.	module determines a node type for handling registration and causes the client device to register with the node of the node type.
[19.0] The method of claim 17, wherein providing the activation module includes providing the activation module that is configured to determine a message category of the data representation and that causes the client	[25.0] The apparatus of claim 23, wherein the activation module determines a message category of the data representation and causes the client device to register with the node having a node type corresponding to the message category.	[31.0] The article of manufacture of claim 29, wherein the activation module determines a message category of the data representation and causes the client device to register with the node having a node type	[37.0] The non-transitory computer readable storage medium of claim 35, wherein the activation module determines a message category of the data representation and causes the client device to register with the node having the node type

device to register with a node having a node type corresponding to the message category.		corresponding to the message category.	corresponding to the message category.
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