

What is claimed is:

1. A method of remotely configuring one or more building system components at a building site using a cloud-based server remote from the building site, the one or more
5 building system components operably coupled with an intelligent gateway disposed at the building site that is itself operably coupled with the cloud-based server via a network, the method comprising:

receiving, at the cloud-based server from the intelligent gateway, information identifying each of the one or more building system components;

10 using the cloud-based server to create a site configuration residing on the cloud-based server that is based at least in part on the identified information for each of the one or more building system components; and

downloading the site configuration from the cloud-based server to the intelligent gateway such that the intelligent gateway is able to pass configuration information to one or
15 more local controllers that control operation of the one or more building system components.

2. The method of claim 1, further comprising:

using the cloud-based server to subsequently make changes to the site configuration residing on the cloud-based server; and

20 updating the site configuration stored on the intelligent gateway with the changes such that the intelligent gateway is able to pass the changes to the one or more local controllers.

3. The method of claim 1, wherein the information identifying each of the one or more building system components is discovered by the intelligent gateway.

25

4. The method of claim 1, further comprising:

receiving, at the cloud-based server from the intelligent gateway, operational data for at least some of the one or more building system components.

30 5. The method of claim 4, wherein the cloud-based server generates one or more operational changes in response to the received operational data, and the one or more generated operational changes are implemented within the site configuration residing on the cloud-based server and are subsequently downloaded to the intelligent gateway for distribution to the one or more local controllers.

6. The method of claim 1, wherein the cloud-based server implements a site configuration tool for use by a user to help configure one or more of the local controllers when generating the site configuration.

5

7. The method of claim 6, wherein the site configuration tool is configured to permit the user to connect with the intelligent gateway in order to configure connections between each of the one or more local controllers and additional components.

10

8. The method of claim 6, wherein the site configuration tool is configured to permit the user to discover additional components operably coupled to a particular one of the one or more local controllers and to configure control logic that can be used by the particular one of the one or more local controllers to work with the additional components.

15

9. The method of claim 6, wherein the site configuration tool is configured to permit the user to perform data modeling using operational data for at least some of the one or more building system components received from the intelligent gateway in order to define one or more of: spatial hierarchies, equipment models, entity models, relationships between spaces and connected entities, and relationships between connected entities.

20

10. The method of claim 6, wherein the site configuration tool is configured to permit the user to configure one or more of: alarm limits on points, history collections and operational schedules for one of the one or more local controllers.

25

11. The method of claim 1, wherein the cloud-based server is configured to download software to the intelligent gateway that, when executed by the intelligent gateway, enables the intelligent gateway to communicate with the one or more of the local controllers.

30

12. The method of claim 1, wherein the cloud-based server is configured to bi-directionally communicate with the intelligent gateway and to:
maintain a mirror image of the site configuration between the cloud-based server and the intelligent gateway such that when a change is made to the site configuration on the cloud-based server, that change is automatically mirrored to the intelligent gateway; and

maintain a mirror image of at least some operational data between the cloud-based server and the intelligent gateway such that when a change is made to the operational data collected by the intelligent gateway, that change is automatically mirrored to the cloud-based server.

5

13. A non-transitory, computer-readable storage medium having stored thereon executable instructions that, when executed by one or more processors of a cloud-based server, cause the one or more processors of the cloud-based server to:

receive, at the cloud-based server from an intelligent gateway that is located at a building site remote from the cloud-based server, information identifying each of the one or more building system components at the building site along with operational data for at least some of the one or more building system components;

generate a site configuration and store the site configuration on the cloud-based server;

download the site configuration to the intelligent gateway, wherein the intelligent gateway is configured to pass configuration information to one or more local controllers that control operation of at least some of the one or more building system components;

subsequently make changes to the site configuration residing on the cloud-based server; and

update the site configuration stored on the intelligent gateway, wherein the intelligent gateway is configured to automatically pass configuration updates to one or more local controllers.

14. The non-transitory, computer-readable storage medium of claim 13, wherein the executable instructions cause the cloud-based server to provide a site configuration tool by which a user remote from the building site is able to originally commission the building site.

15. The non-transitory, computer-readable storage medium of claim 14, wherein the site configuration tool is configured to permit the user to connect with the intelligent gateway in order to configure connections between each of the one or more local controllers and additional components.