~~What is claimed is:~~

Claims

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 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;
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 more local controllers that control operation of the one or more building system components, wherein the cloud-based server is configured to bi-directionally communicate with the intelligent gateway and to: maintain a mirror image of at least one of the site configuration and operational data between the cloud-based server and the intelligent gateway such that when a change is made to the at least one of the site configuration on the cloud-based server and the operational data on the intelligent gateway, that change is automatically mirrored to the at least one of the intelligent gateway and the cloud-based server.

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
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.

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.

~~5.~~ 5. The method of claim 4, wherein the cloud-based server issues one or more alarm conditions in response to the received operational data.

6. 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.~~ 7. 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.

~~7.~~ 8. The method of claim ~~6~~7, 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.

~~8.~~ 9. The method of claim ~~6~~7, wherein the site configuration tool is further 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.

~~9.~~ 10. The method of claim ~~6~~9, wherein the additional components include one or more of a sensor and an actuator.

11. The method of claim 7, wherein the site configuration tool is further 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.

~~10.~~ 12. The method of claim ~~6~~7, wherein the site configuration tool is further 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.

~~11.~~ 13. 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.

~~12. The method of claim 1~~14. A system comprising: a processor configured to: receive, at a cloud-based server from an intelligent gateway, information identifying each of one or more building system components; use 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 download 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 more local controllers that control operation of the one or more

building system components, 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;~~at least one of the site configuration 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 at least one of the site configuration on the cloud-based server and the operational data ~~collected by~~on the intelligent gateway, that change is automatically mirrored to the at least one of the intelligent gateway and the cloud-based server.

~~13.~~ 15. The system of claim 14, wherein system includes a site configuration tool.

16. The system of claim 15, wherein the site configuration tool is configured to permit a user initially commission the system for operation.

17. The system of claim 15, wherein the site configuration tool is configured to enable user to communicate with the intelligent gateway, and once in communication with the intelligent gateway, communicate with the local controllers via the intelligent gateway.

18. 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, wherein the cloud-based server is configured to bi-directionally communicate with the intelligent gateway and to: maintain a mirror image of at least one of the site configuration and operational data between the cloud-based server and the intelligent gateway such that when a change is made to the at least one of the site configuration on the cloud-based server and the operational data on the intelligent gateway, that change is automatically mirrored to the at least one of the intelligent gateway and the cloud-based server.

~~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.~~ 19. The non-transitory, computer-readable storage medium of claim ~~13~~18, 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.~~ 20. The non-transitory, computer-readable storage medium of claim ~~14~~19, 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.