CLAIMS

1. A method comprising:

selecting, by at least one of a plurality of edge computing systems co-located within respective co-location facilities each deployed and managed by a single co-location facility provider, a selected edge computing system of the plurality of edge computing systems to process data generated by an Internet of Things (IoT) device;

provisioning, at the selected edge computing system, an application programming interface (API) endpoint for communication with the IoT device;

receiving, by the selected edge computing system at the API endpoint, the data generated by the IoT device; and

processing, by the selected edge computing system, the data generated by the IoT device.

2. The method of claim 1, further comprising:

provisioning, by the at least one of the plurality of edge computing systems, a proxy cluster for

processing the data at the selected edge computing system,

wherein provisioning the API endpoint for communication with the IoT device comprises

provisioning the API endpoint associated with the proxy cluster.

3. The method of claim 2, further comprising:

by the proxy cluster, filtering the data generated by the IoT device based on configured policies; and

by the proxy cluster, discarding a subset of the data generated by the IoT device without forwarding the subset of the data to a core processing system.

4. The method of claim 2 or claim 3, further comprising: by the proxy cluster, performing network protocol translation on the data generated by the IoT device.

5. The method of any preceding claim, further comprising:

establishing a communication channel between the IoT device and the API endpoint,

wherein receiving comprises receiving, by the selected edge computing system at the API endpoint, the data generated by the IoT device via the communication channel.

6. The method of any preceding claim, wherein processing the data comprises routing, by the selected edge computing system, the data to a core processing system.

7. The method of any preceding claim, wherein selecting the selected edge computing system comprises selecting the selected edge computing system in response to an IoT device registration manager of one of the edge computing systems receiving a device registration request from the IoT device, the method further comprising: managing registration and authentication of the IoT device by the IoT device registration manager.

8. The method of any preceding claim, wherein selecting the selected edge computing system comprises selecting based on IoT device type and configured policies.

9. The method of any preceding claim, wherein selecting the selected edge computing system comprises selecting based on IoT device location and configured policies, wherein the second edge computing system is located geographically closest to the IoT device.

10. The method of any preceding claim,

wherein processing the data comprises processing the data by a core processing center operated by the co-location provider.

11. The method of any preceding claim,

wherein processing the data comprises processing the data by one or more computing devices of an enterprise associated with the IoT device.

12. The method of any of claims 1–11, wherein processing the data comprises processing the data by one or more computing devices of a cloud service provider.

13. A system comprising:

a plurality of edge computing systems co-located within respective co-location facilities each deployed and managed by a single co-location facility provider, wherein at least one of the plurality of edge systems is configured to select a selected edge computing system of the plurality of edge computing systems to process data generated by an Internet of Things (IoT) device,

wherein the selected edge computing system is configured to provision an application programming interface (API) endpoint for communication with the IoT device, receive, at the API endpoint, the data associated with the events generated by the IoT device, and process the data associated with the events generated by the IoT device.

14. The system of claim 13, wherein each of the edge computing systems comprises:

an Internet of Things (IoT) device registration manager configured to manage registration and authentication of IoT devices;

an IoT edge processor configured to provision application programming interface (API) endpoints for communication with the IoT devices; and

an IoT edge configurator configured to process data generated by the IoT devices, wherein the data is received via the API endpoints.

15. The system of claim 14, wherein the IoT edge processor is configured to provision proxy clusters for processing the events, wherein the API endpoints are associated with respective proxy clusters.

16. The system of claim 15, wherein the proxy clusters filter the data generated by the IoT devices based on configured policies, and discards a subset of the data generated by the IoT devices without forwarding the subset of the data to a core processing system.

17. The system of any of claims 15 and 16, wherein each of the edge computing systems comprises:

an IoT traffic analytics engine configured to provide information regarding a state of the proxy cluster.

18. A computer readable storage medium comprising instructions that when executed cause one or more processors of an edge computing system to:

select the edge computing system, from among a plurality of edge computing systems co-located within respective co-location facilities each deployed and managed by a single co-location facility provider, to process data generated by an Internet of Things (IoT) device;

provision an application programming interface (API) endpoint for communication with the IoT device;

receive at the API endpoint the data generated by the IoT device; and

process the data generated by the IoT device.