CLAIMS

~~We claim:~~

1. A method for managing a communications network, the method comprising:

obtaining, from a plurality of databases, site information associated with an edge site of the communications network, wherein each of the plurality of databases is associated with a different backbone communications network;

generating, by a configuration computing system and based on the site information associated with the edge site of the communications network, a configuration process for instantiating a compute service available from the edge site, the configuration process comprising a set of instructions for configuring an operational status of at least one network edge device of the edge site to provide the compute service to a requesting device in communication with the edge site; and

executing the set of instructions with respect to the configuration data to cause the at least one network edge device to be configured, wherein executing the set of instructions comprises:

causing at least one micro-service to be executed on a micro-services system that is separate from the configuration computing system.

2. The method of claim 1 further comprising:

receiving the site information via a user interface displayed on a computing device, the site information comprising an edge site identifier, an edge device identifier, and an identifier of the network device.

3. The method of claim 1 or 2, further comprising:

determining, by the configuration computing system, whether to use a content delivery network to deliver the configuration data to the at least one network edge device;

when it is determined not to use the content delivery network to deliver the configuration data, obtaining, by the configuration computing system, the configuration data and delivering the configuration data to the at least one network edge device; and

when it is determined to use the content delivery network to deliver the configuration data, causing the configuration data to be delivered to the at least one network edge device by the content delivery network.

4. The method of any preceding claim ~~1~~, wherein determining whether to use the content delivery network to deliver the configuration data comprises determining a first

latency/cost between the content delivery network and the at least one network edge device and a second latency/cost between the configuration computing system and the at least one network edge device.

5. The method of any preceding claim ~~1~~, wherein the micro-service is operable to translate the set of instructions and communicate the translated set of instructions to the at least one network edge device.

6. The method of any preceding claim ~~1~~, wherein the at least one network edge device is a bare metal server storing an application configured to provide the portion of the compute service to the requesting device.

7. The method of any preceding claim ~~1~~, wherein generating the configuration process comprises:
obtaining a configuration template comprising a portion of the set of instructions; and
altering the configuration template with the site information.

8. A computer program comprising ~~non-transitory, computer-storage medium storing~~ instructions that, when executed by at least one processor, cause the at least one processor to perform a method for managing a communications network, the method comprising:

obtaining, from a plurality of databases, site information associated with an edge site of the communications network, wherein each of the plurality of databases is associated with a different backbone communications network;

generating, by a configuration computing system and based on site information associated with an edge site of a network, a configuration process for instantiating a compute service available from the edge site, the configuration process comprising a set of instructions for configuring, using configuration data, an operational status of a network device to provide a portion of the compute service to a requesting device; and

executing the set of instructions with respect to the configuration data to cause the network device to be configured, wherein executing the set of instructions comprises:
causing at least one micro-service to be executed on a micro-services system that is separate from the configuration computing system.

9. The computer ~~non-transitory, computer-storage medium~~ program of claim 8, the method further comprising:

receiving the site information via a user interface displayed on a computing device, the site information comprising an edge site identifier, an edge device identifier, and an identifier of the network device.

10. The computer ~~non-transitory, computer-storage medium~~ program of claim 8 or 9, the method further comprising:

determining, by the configuration computing system, whether to use a content delivery network to deliver the configuration data to the at least one network edge device;

when it is determined not to use the content delivery network to deliver the configuration data, obtaining, by the configuration computing system, the configuration data and delivering the configuration data to the at least one network edge device; and

when it is determined to use the content delivery network to deliver the configuration data, causing the configuration data to be delivered to the at least one network edge device by the content delivery network.

11. The computer ~~non-transitory, computer-storage medium~~ program of claim 10 ~~8~~, wherein determining whether to use the content delivery network to deliver the configuration data comprises determining a first latency/cost between the content delivery network and the at least one network edge device and a second latency/cost between the configuration computing system and the at least one network edge device.

12. The computer ~~non-transitory, computer-storage medium~~ program of any one of claims 8 to 11, wherein the micro-service is operable to translate the set of instructions and communicate the translated set of instructions to the at least one network edge device.

13. The computer ~~non-transitory, computer-storage medium~~ program of any one of claims 8 to 12, wherein the at least one network edge device is a bare metal server storing an application configured to provide the portion of the compute service to the requesting device.

14. The computer ~~non-transitory, computer-storage medium~~ program of any one of claims 8 to 13, wherein generating the configuration process comprises:

obtaining a configuration template comprising a portion of the set of instructions; and

altering the configuration template with the site information.

15. A system for managing a communications network, the system comprising:

at least one processor;

memory, operatively connected to the at least one processor and storing instructions that, when executed by the at least one processor, cause the system to perform a method, the method comprising:

obtaining, from a plurality of databases, site information associated with an edge site of the communications network, wherein each of the plurality of databases is associated with a different backbone communications network;

generating, by a configuration computing system and based on site information associated with an edge site of a network, a configuration process for instantiating a compute service available from the edge site, the configuration process comprising a set of instructions for configuring, using configuration data, an operational status of a network device to provide a portion of the compute service to a requesting device; and

executing the set of instructions with respect to the configuration data to cause the network device to be configured, wherein executing the set of instructions comprises:

causing at least one micro-service to be executed on a micro-services system that is separate from the configuration computing system.

16. The system of claim 15, wherein the method further comprises:

receiving the site information via a user interface displayed on a computing device, the site information comprising an edge site identifier, an edge device identifier, and an identifier of the network device.

17. The system of claim 15 or 16, wherein the method further comprises:

determining, by the configuration computing system, whether to use a content delivery network to deliver the configuration data to the at least one network edge device;

when it is determined not to use the content delivery network to deliver the configuration data, obtaining, by the configuration computing system, the configuration data and delivering the configuration data to the at least one network edge device; and

when it is determined to use the content delivery network to deliver the configuration data, causing the configuration data to be delivered to the at least one network edge device by the content delivery network.

18. The system of any one of claims 15 to 17, wherein determining whether to use the content delivery network to deliver the configuration data comprises determining a first latency/cost between the content delivery network and the at least one network edge device and a second latency/cost between the configuration computing system and the at least one network edge device.

19. The system of any one of claims 15 to 18, wherein the micro-service is operable to translate the set of instructions and communicate the translated set of instructions to the at least one network edge device.

20. The system of any one of claims 15 to 19, wherein the at least one network edge device is a bare metal server storing an application configured to provide the portion of the compute service to the requesting device.