CLAIMS

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, 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

configuring, based on the configuration process, the at least one network edge device to provide the compute service.

2. The method of claim 1 wherein configuring the at least one network edge device comprises:

executing a micro-service to translate the set of instructions and communicate the translated set of instructions to the at least one network edge device.

3. The method of claim 1 or 2, wherein the at least one network edge device comprises one of a network gateway device, a spine switch device, a host-leaf switch device, or an application server.

4. The method of any one of claims 1 to 3, further comprising:

receiving, via a user interface displayed on a computing device, additional site information associated with the edge site, the additional site information comprising an interface site identifier, an edge device identifier, or an identifier of the at least one network edge device.

5. The method of claim 4 wherein the additional site information received via the user interface further comprises at least network address associated with the at least one network edge device.

6. The method of claim 4 or 5, further comprising:

obtaining, from the plurality of databases, and displaying, via the user interface, a plurality of identifiers associated with devices of the edge network of the communications network, a plurality of network addresses each associated with one of the devices of the edge network, and an indication of a validation of the plurality of network addresses.

7. The method of any one of claims 4 to 6, further comprising:

obtaining, from the plurality of databases, and displaying, via the user interface, a list of ports associated with the devices of the edge network of the communications network and a port configuration type.

8. The method of claim 7 further comprising:

receiving, via the user interface displayed on the computing device, an input to duplicate the port configuration type from the at least one network edge device to a second network edge device; and

configuring, based on the input, at least one port of the second network edge device with the port configuration type.

9. The method of any one of claims 1 to 8, 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.

10. An apparatus comprising:

a processing device; and

a non-transitory computer-readable medium encoded with instructions, which when executed by the processing device, cause the processing device to:

communicate with a plurality of databases to obtain 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;

generate, 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; and

configure, based on the configuration process, the at least one network edge device to provide the compute service.

11. The apparatus of claim 10 wherein the instructions further cause the processing device to:

execute a micro-service to translate the set of instructions and communicate the translated set of instructions to the at least one network edge device.

12. The apparatus of claim 10 or 11, wherein the at least one network edge device comprises one of a network gateway device, a spine switch device, a host-leaf switch device, or an application server.

13. The apparatus of any one of claims 10 to 12, wherein the computer executable instructions further cause the processing device to:

receive, via a user interface displayed on a computing device, additional site information associated with the edge site, the additional site information comprising an interface site identifier, an edge device identifier, or an identifier of the at least one network edge device.

14. The apparatus of claim 13 wherein the instructions further cause the processing device to:

obtain, from the plurality of databases, and display, via the user interface, a plurality of identifiers associated with devices of the edge network of the communications network, a plurality of network addresses each associated with one of the devices of the edge network, and an indication of a validation of the plurality of network addresses.

15. The apparatus of claim 13 or 14, wherein the instructions further cause the processing device to:

obtain, from the plurality of databases, and display, via the user interface, a list of ports associated with the devices of the edge network of the communications network and a port configuration type.

16. The apparatus of claim 15 wherein the instructions further cause the processing device to:

receive, via the user interface displayed on the computing device, an input to duplicate the port configuration type from the at least one network edge device to a second network edge device; and

configure, based on the input, at least one port of the second network edge device with the port configuration type.

17. Acomputer programthat, when executed by a processor, causes the processor to:

communicate with a plurality of databases to obtain 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;

generate, 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

transmit, to the at least one network edge device and based on the configuration process, at least one instruction to configure the at least one network edge device to provide the compute service.

18. The computer program of claim 17 that, when executed by the processor, further causes the processor to:

execute a micro-service to translate the set of instructions and communicate the translated set of instructions to the at least one network edge device.

19. The computer program of claim 17 or 18 that, when executed by the processor, further causes the processor to:

receive, via a user interface displayed on a computing device, additional site information associated with the edge site, the additional site information comprising an interface site identifier, an edge device identifier, or an identifier of the at least one network edge device.

20. The computer program of claim 19 that, when executed by the processor, further causes the processor to:

obtain, from the plurality of databases, and display, via the user interface, a plurality of identifiers associated with devices of the edge network of the communications network, a plurality of network addresses each associated with one of the devices of the edge network, and an indication of a validation of the plurality of network addresses.