ROUTER

CROSS REFERENCE TO RELATED APPLICATION

[0001] The application claims the benefit of US provisional application No. 61/753,250 filed January 16, 2013, which is hereby incorporated by reference herein in its entirety.

FIELD

[0002] Some embodiments relate to communication network elements.

BACKGROUND

[0003] A communications network may include one or more network elements to facilitate the communication of data, for example, between computing devices.

SUMMARY

[0003a] According to an aspect of the present invention, there is provided an apparatus comprising: a plurality of network interfaces including at least a first network interface, and a second network interface, wherein the first network interface is adapted to be connected to a first network, and wherein the second network interface is adapted to be connected to a second network, and a plurality of processors including at least a first processor, and a second processor, wherein the first processor is configurable to: obtain data received from the first network via the first network interface and perform network address translation on the data such that the data has an address on the second network, and obtain data received from the second network via the second network interface, perform network address translation on the data such that the data has an address on the first network, and communicate the data to the first network via the first network interface; and wherein the second processor is configurable to: obtain from the first processor the data the first processor has translated from the first network to the second network and communicate the data to the second network via the second network interface; and obtain data received from the second network via the second network interface and communicate the data to the first processor for the first processor to perform network address translation on such that the data has an address on the first network.

BRIEF DESCRIPTION OF THE FIGURES

[0004] Figure 1A shows an example system according to some embodiments;

[0005] Figure IB shows an example configuration of the system of Figure 1 A;

[0006] Figure 2 shows another example system according to some embodiments; and

[0007] Figure 3 shows an example network element according to some embodiments.

DETAILED DESCRIPTION

[0008] Referring to Figure 1A, there is shown an example system 100. System 100 may include a plurality of entities, including entity 110 and a plurality of entities 130a-n (one of which is shown in detail in Figure 1A), one or more of which may be interconnected via network 103. Entity 110 may be, for example, a service provider that provides services, and each entity 130 may be, for example, a customer/user (e.g., such as a company, such as banks, investment funds, trading firm, etc.) of the services provided by service provider 110. For description purposes only, entity 110 will be referred to herein as a service provider and entity(s) 130 will be referred to as a user(s)/customer(s). Nonetheless, these terms are intended to be non- limiting and other example entities are possible. In addition, entity 110 being a service provider that provides services to entities 130 is also an example and other relationships between entities 110 and 130 are possible.

[0009] As one example, service provider 110 may provide one or more electronic marketplaces for the trading/buying-selling/matching of items (such as, for example, financial instruments, real-estate, bets/wagers, tangible goods, services, etc.) and as such, may provide