What is claimed is:

1. An apparatus comprising: a first processing core configured to: map a local network address and port pair on a first network to a service on a remote second network by: opening a first socket to a first destination on a remote second network and opening a second socket to a second destination on the remote second network; load balancing direction of incoming traffic to the local network address and port pair between the first destination using the first socket and the second destination using the second socket; and routing incoming traffic to the local network address and port pair to the second destination using the second socket in response to a determination that the first destination is in a fail state; and a second processing core configured to: access a portion of a memory space shared with the first processing core, copy at least one of a packet header and an entire packet from the portion of the memory space, and facilitate transmission of the at least one of the packet header and the entire packet to an analytics engine while the first processing core routes the entire packet.

2. The apparatus of claim 1 comprising: a third processing core configured to: map a second local network address and port pair on a third network to the service on the remote second network.

3. The apparatus of claim 1, in which the load balancing occurs in at least one of a round robin and a least connected manner.

4. The apparatus of claim 1, in which the apparatus includes multiple multi-core processors.

5. The apparatus of claim 1, in which the apparatus is configured to route data at Gigabit speeds.

6. The apparatus of claim 1, comprising:
a routing device configured to map an address and port pair to the first network and to map a second address and port pair to the second network, in which the routing device is configured such that a third processing core is configured to perform routing to the first network from the destination and a fourth processing core is configured to perform routing to the second network from the destination.

7. The apparatus of claim 6, in which the first processing core is configured to compress blocks of data routed to the service according to a dictionary scheme, and the routing device is configured to decompress the blocks of data according to the dictionary scheme for transmission to the service.

8. The apparatus of claim 6, in which the first processing core and the first routing device define a software defined network that spans a plurality of remote data centers.

9. The apparatus of claim 1, in which mapping enables services from the first network and second network through a software defined network.

10. The apparatus of claim 1 in which the first processing core enables devices on the first network to subscribe to services offered to a software defined network.

11. The apparatus of claim 1, in which the service includes a trading customer and the first network includes a network on which an electronic financial exchange resides.