

Lesson 6

Network Layer Routing

Taking the path of least action.

Main Points

1. Network layer routes packets from source to destination. The route may be pre-determined (in virtual-circuit subnets) or determined per packet (in datagram subnets). Actions in harmony with natural law are life supporting and take the path of least action.
2. Network layer routers manage processes to store-and-forward packets, as well as updating their routing tables with distance-vector or link-state routing. Purification leads to growth.
3. Distance-vector routing algorithms have each router maintain a table of the best distance to other destinations and share the table with other routers. (Bellman-Ford in RIP). Wholeness is found in every part.
4. Link-state routing differs by having each router send only the information about the distance of its nearest neighbors. Distribution of link-state packets becomes critical to proper updates. Dijkstra's algorithm in OSPF is now widely used. The whole is more than the sum of the parts.
5. Congestion control in a datagram subnet is solved by either open-loop approaches that try to prevent problems before they arise or closed-loop approaches that rely on a feedback loop to monitor congestion and take corrective action. Direct experience of the unified field in TM both prevents problems from arising and removes obstacles along the path.

Connecting the Parts of Knowledge with the Wholeness of Knowledge

1. The role of the network layer is to transfer packets from a computer on one network to a computer on another (usually) different network.
 2. The routing algorithm used on the Internet was originally the distance-vector algorithm, but it was changed to the link state algorithm to decrease the convergence time of the routing algorithm.
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3. Transcendental consciousness is the field of infinite correlation.
 4. Wholeness moving within itself: In Unity Consciousness, one spontaneously connects all desires, actions, and perceptions to their ultimate basis in pure consciousness.

