

Lesson 2

Physical Layer

Intelligence on the move.

Main Points

1. The physical layer of the network reference model describes the mechanical, electrical and timing characteristics of the network. Transmission media are either guided media (copper or fiber optic), wireless radio, or satellite. Signals are transmitted by varying some physical property of the media to encode a sequence of bits. Bandwidth is the rate of signal change per second.
2. Network performance is determined by bandwidth and latency, which are subject to the physical limits of materials and to the speed of light. In contrast, pure consciousness transcends the limitations of space and time – information flow in the unified field is unbounded and instantaneous.
3. A variety of physical systems for transmitting network signals have been developed and new advances are introduced at a rapid rate as demand for increased bandwidth at lower cost and with more flexibility stimulates evolution.

Connecting the Parts of Knowledge with the Wholeness of Knowledge

1. The physical layer of the network describes how to encode the fundamental unit of communication: a sequence of bits. SCI describes how pure intelligence first manifests as consciousness becoming aware of itself in the process of creation – the field of non-change stepping into the field of change.
 2. The evolution of network hardware systems has been driven by the need for faster performance, increased reliability and lower costs. The nature of life is to grow towards more happiness and more fulfillment.
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3. Transcendental consciousness is immovable and non-changing, but it is the source of all change.
 4. Wholeness moving within itself: In Unity Consciousness, one spontaneously connects all desires, actions, and perceptions to their ultimate basis in pure consciousness.

