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EtherTalk: The Number of Possible Nodes in a System

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EtherTalk: The Number of Possible Nodes in a System

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Here is a brief description of a corporation's EtherNet installation. They
have used Ethernet as the primary communications medium for achieving
transparent connectivity throughout the system.

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   Number of segments   > 50
   Number of nodes      >500
   Span of network      > 20 KM (using Ethernet bridges)
   Number of campuses   4
   Number of Kinetics FastPath Gateways = 9
```

The current Node ID field allows only 127 individual stations. Does that mean
only 128 Macintosh computers can be connected directly to the Ethernet? What
about software bridges like Liaison? What about GatorBox, which promises to
become the InterBridge of EtherTalk?

EtherTalk makes no distinction (through node IDs) between users and servers.
Rather, it reserves two nodes for "send to self" and "send to all" addresses.
This leaves 254 of 256 possible nodes available for users and servers.

Customers use Zone and Net IDs to divide users into zones. Gatorbox's
Ethernet-to-Ethernet bridging capabilities allow EtherTalk networks to extend
well beyond the 254 nodes available. Under Gaterbox, you can directly connect
Ethernet Macintoshes by routing Zone and Net IDs similar to the zoning done
with InterBridges.

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