

Datagrams

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Properties

Connectionless

- Each datagram is treated independently.
- Consecutive datagrams may take different routes.

Unreliable

- Datagrams can be lost, duplicated, delayed or delivered out of order.
- Higher-level protocols (TCP) handle these deficiencies.

Best-Effort Delivery

Explicit Congestion Notification (ECN)

Routers can set this field if they are overloaded, signaling the sender to reduce transmission rate.

Fragmentation

Transparent Fragmentation Routers reassemble fragments.

Non-Transparent Fragmentation Only destination host reassembles fragments.