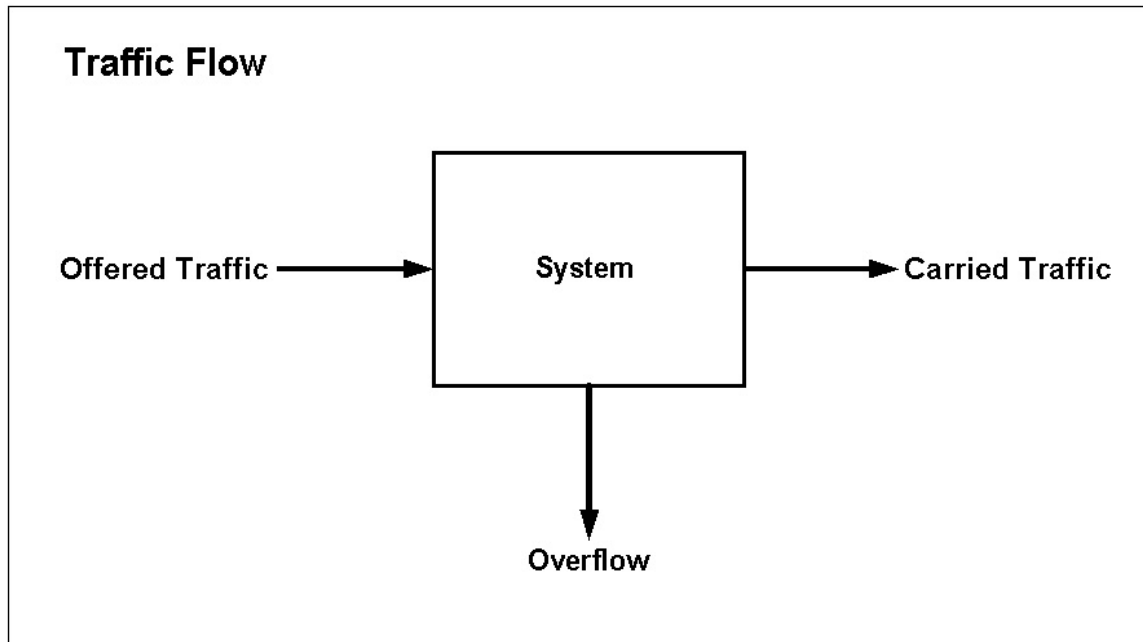


Traffic Flow



Offered Traffic

$$\text{Offered Traffic} = \text{Carried Traffic} + \text{Overflow}$$

Average Holding Time

$$\text{Average Holding Time} = \text{Usage} / (\text{Peg Count} - \text{Overflow})$$

Carried Traffic

$$\text{Carried Traffic} = \text{Usage} / 36 * 100$$

Subscriber Capacity

$$\text{Subscriber Capacity} = \text{Erlang per sub} * \text{Erlang Capacity}$$



where Offered Traffic is the number of calls presented by the subscriber to the network
Carried Traffic is the maximum capacity of the network
Overflow is the blocked traffic or the calls that did not passed through the network
Average Holding Time is the amount of time a subscriber carries a call during busy hour on average
Usage is the traffic measured per subscriber or per network
Peg Count is the number of times subscriber presses “send”
Subscriber Capacity is the maximum number of subscriber that a network can support at a given time.
Erlang per sub is the carried traffic per subscriber during busy hour
Erlang Capacity is the amount of traffic or number of radio available in a network