

STACK BIT

Multi Protocol Label Switching (MPLS) is a data-carrying mechanism that belongs to the family of packet-switched networks.

For an MPLS label, if the stack bit is set to 1 mean that The label is the last entry in the label stack.



LABEL: 20 bits

EXP: Experimental, 3bits – are reserved for experimental use

S: Bottom of stack, 1 bit

TTL: Time to Live, 8bits – same as IP TTL

The bottom-of-stack bit, or “stack bit”, is just used to indicate it is the bottom of the label stack because it is possible (and common) to have more than one label attached to a packet.

The bottom most label in a stack has the S bit set to 1, other labels have the S bit set to 0. Sometimes it is useful to know where the bottom of the label stack is and the S bit is the tool to find it.