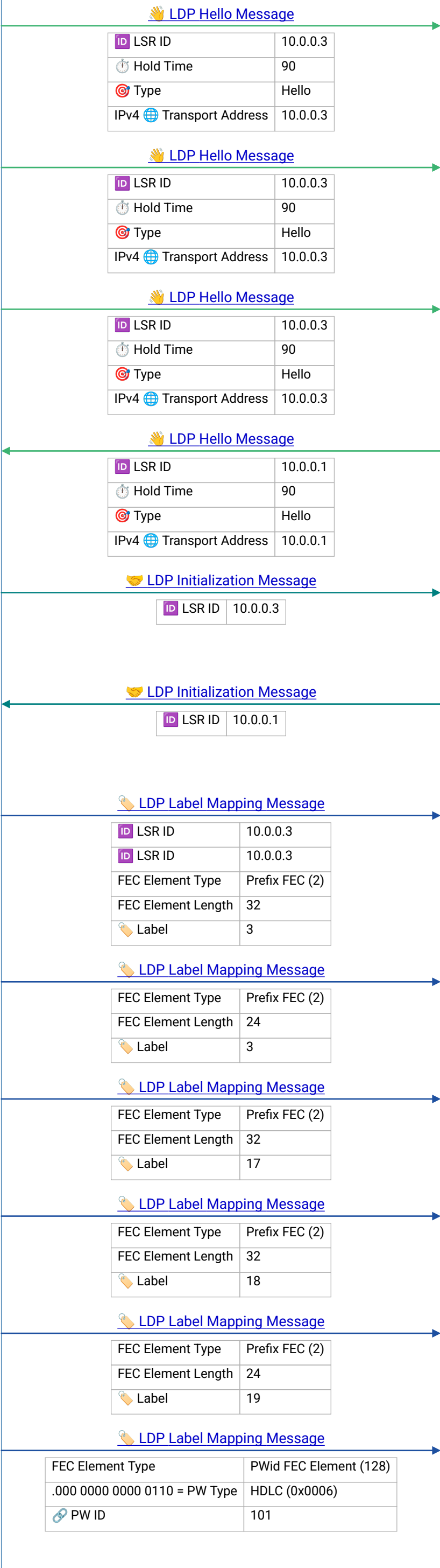


ldp_wire_atom_hdlc.pcapng



💡 LDP Hello – periodic UDP multicast (224.0.0.2) for neighbor discovery; discovered LSRs then open a TCP session to exchange labels and session parameters

💡 LDP Hello – periodic UDP multicast (224.0.0.2) for neighbor discovery; discovered LSRs then open a TCP session to exchange labels and session parameters

💡 LDP Hello – periodic UDP multicast (224.0.0.2) for neighbor discovery; discovered LSRs then open a TCP session to exchange labels and session parameters

💡 LDP Hello – periodic UDP multicast (224.0.0.2) for neighbor discovery; discovered LSRs then open a TCP session to exchange labels and session parameters

💡 LDP Initialization – negotiates session parameters (keepalive timer, label advertisement mode: DU vs DoD, path vector limit); both LSRs must agree or session is torn down with a Notification

💡 LDP Initialization – negotiates session parameters (keepalive timer, label advertisement mode: DU vs DoD, path vector limit); both LSRs must agree or session is torn down with a Notification

💡 LDP Label Mapping – advertises a local label binding for a FEC (prefix) to the peer; downstream LSR assigns labels and propagates upstream to build the LSP hop by hop

Label	16
-------	----

LDP Label Mapping Message

ID LSR ID	10.0.0.1
FEC Element Type	Prefix FEC (2)
FEC Element Length	32
Label	3

LDP Label Mapping Message

FEC Element Type	Prefix FEC (2)
FEC Element Length	24
Label	3

LDP Label Mapping Message

FEC Element Type	Prefix FEC (2)
FEC Element Length	32
Label	16

LDP Label Mapping Message

FEC Element Type	Prefix FEC (2)
FEC Element Length	24
Label	18

LDP Label Mapping Message

FEC Element Type	Prefix FEC (2)
FEC Element Length	32
Label	19
ID LSR ID	10.0.0.1

LDP Label Mapping Message

FEC Element Type	PWid FEC Element (128)
.000 0000 0000 0110 = PW Type	HDLC (0x0006)
PW ID	101
Label	17

LDP Label Mapping – advertises a local label binding for a FEC (prefix) to the peer; downstream LSR assigns labels and propagates upstream to build the LSP hop by hop