



Ipv6_init_expnnull_md5.pcapng

LDP Hello Message

ID	LSR ID	2.2.2.2
🕒	Hold Time	15
🎯	Type	Hello
IPv6 🌐	Transport Address	fc00::2

LDP Hello Message

ID	LSR ID	1.1.1.1
🕒	Hold Time	15
🎯	Type	Hello
IPv6 🌐	Transport Address	fc00::1

LDP Hello Message

ID	LSR ID	2.2.2.2
🕒	Hold Time	15
🎯	Type	Hello
IPv6 🌐	Transport Address	fc00::2

LDP Hello Message

ID	LSR ID	1.1.1.1
🕒	Hold Time	15
🎯	Type	Hello
IPv6 🌐	Transport Address	fc00::1

💡 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

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LDP Initialization Message

ID	LSR ID	2.2.2.2
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LDP Initialization Message

ID	LSR ID	1.1.1.1
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LDP Keep Alive Message

ID	LSR ID	2.2.2.2
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💡 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

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Frame 7 | 2020-08-10T20:36:48.667057Z

LDP Label Mapping Message

ID	LSR ID	1.1.1.1
	FEC Element Type	Prefix FEC (2)
	FEC Element Length	128
🏷️	Label	2

💡 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

LDP Label Mapping Message

	FEC Element Type	Prefix FEC (2)
	FEC Element Length	128
🏷️	Label	24000

LDP Label Mapping Message

	FEC Element Type	Prefix FEC (2)
	FEC Element Length	64
🏷️	Label	24001

LDP Label Mapping Message

	FEC Element Type	Prefix FEC (2)
	FEC Element Length	128
🏷️	Label	24002

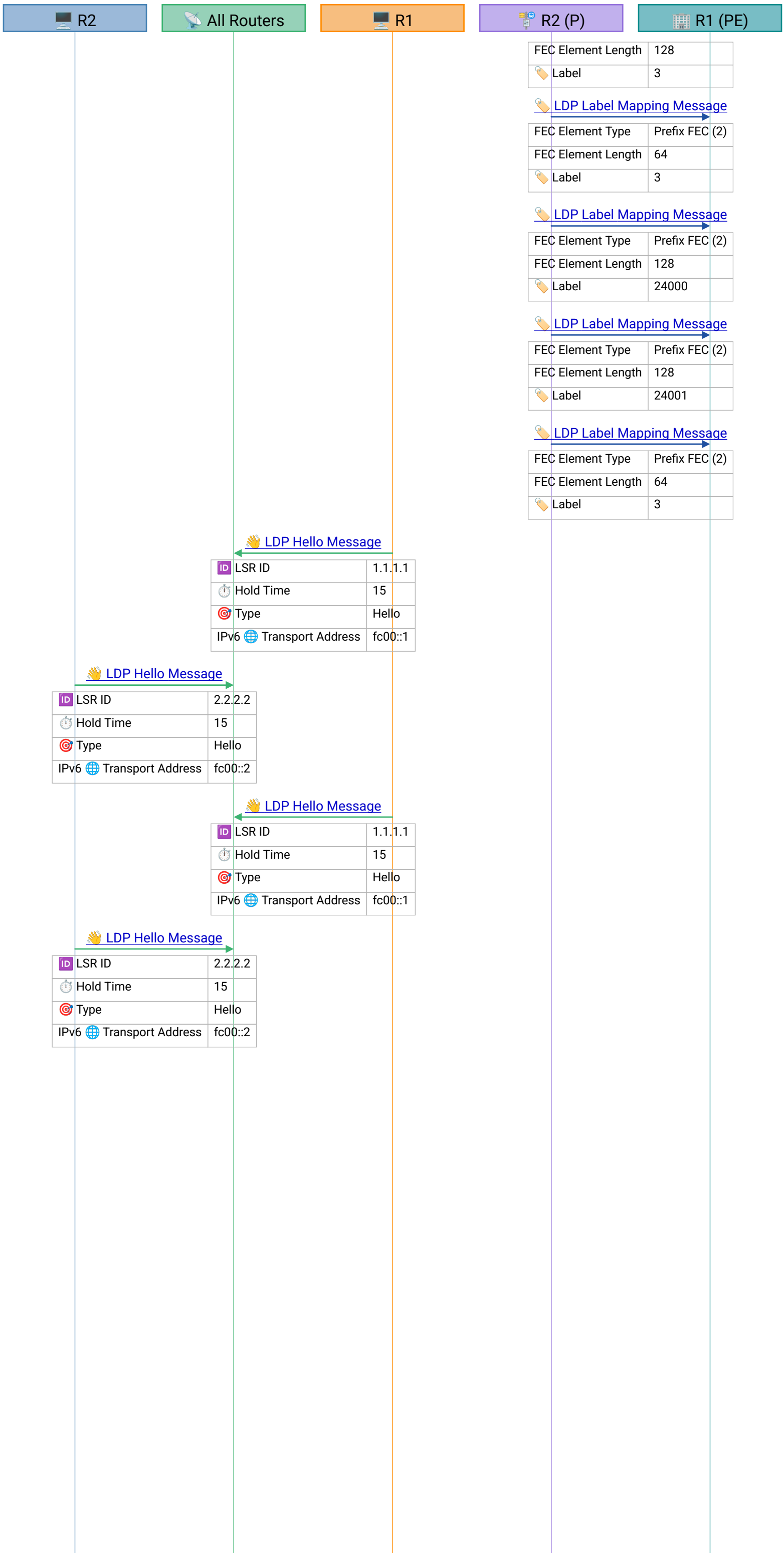
LDP Label Mapping Message

	FEC Element Type	Prefix FEC (2)
	FEC Element Length	64
🏷️	Label	2

LDP Label Mapping Message

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the LSP hop by hop

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