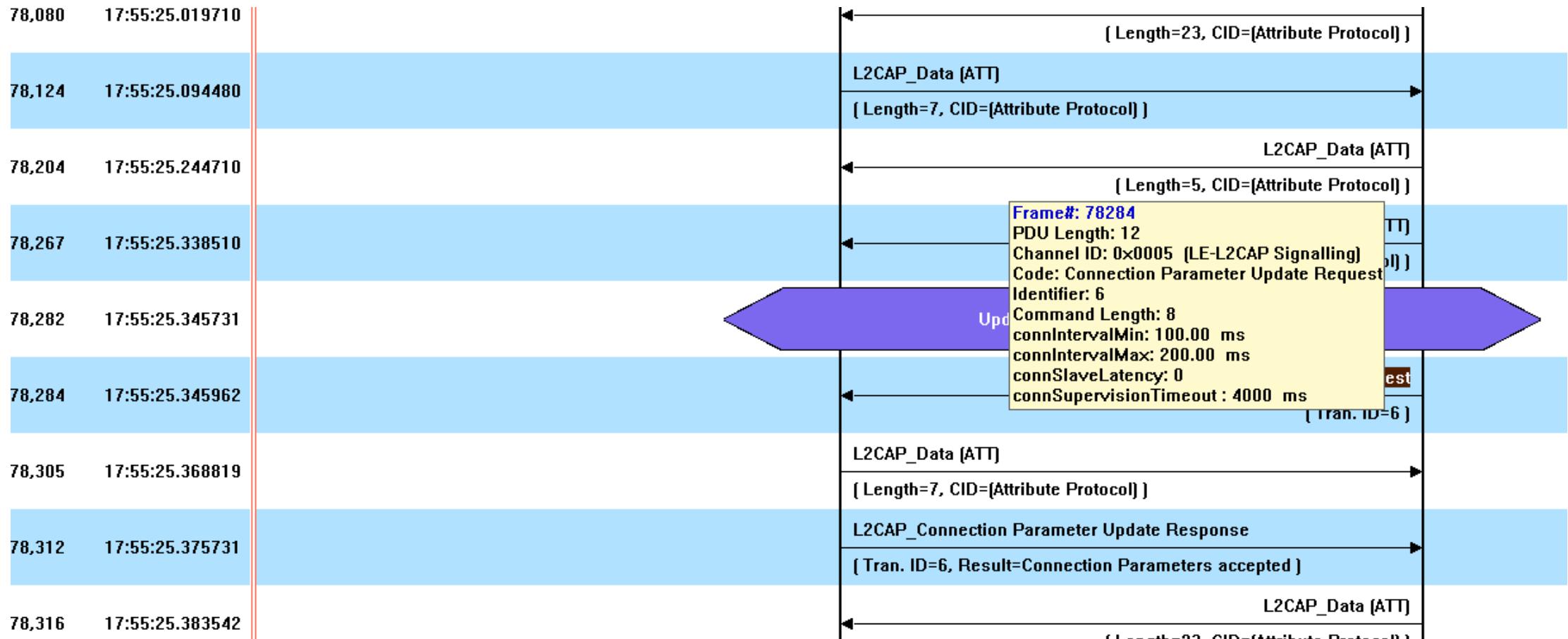


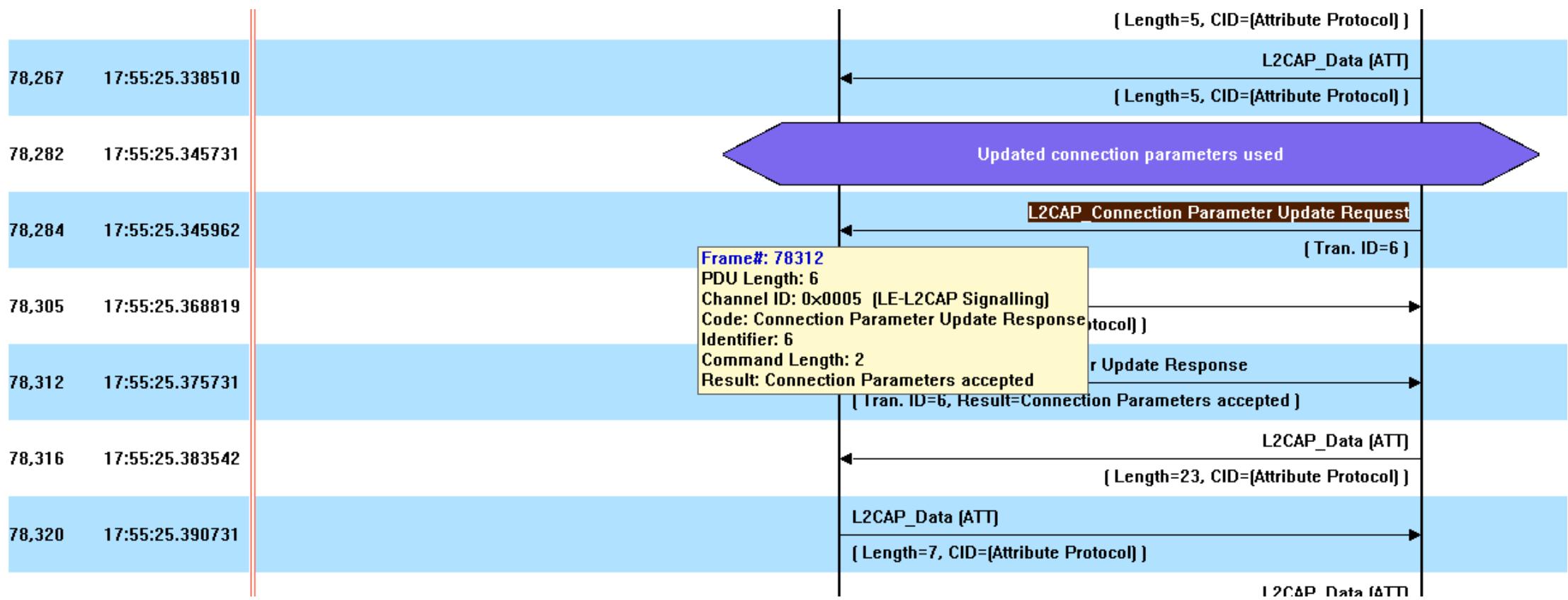
BLE Problem – Not able to
change the connection interval

Samsung Galaxy S8

Connection Interval Request (from device)



Connection Interval Response (from S8)



Connection Interval was changed to 75ms according to Device Request

6,324	S	0xaf9aabed	LL_FEATURE_RSP		17:53:41.912812
6,385	M	0xaf9aabed	LL_CONNECTION_UPDATE_REQ		17:53:41.987494
6,744	M	0xaf9aabed	LL_VERSION_IND		17:53:42.449996
18,313	M	0xaf9aabed	LL_TERMINATE_IND	Frame#: 77136 Control Pkt: LL_CONNECTION_UPDATE_REQ transmitWindowSize: 3.75 ms transmitWindowOffset: 53.75 ms connInterval: 75.00 ms connSlaveLatency: 0 connSupervisionTimeout: 4000 ms connInstant: 0x000f	17:53:57.465659
77,005	M		CONNECT_REQ		17:55:23.445198
77,029	M	0x50655d95	LL_FEATURE_REQ		17:55:23.484472
77,099	S	0x50655d95	LL_FEATURE_RSP		17:55:23.582283
77,136	M	0x50655d95	LL_CONNECTION_UPDATE_REQ		17:55:23.630723
77,163	S	0x50655d95	LL_VERSION_IND	Bluetooth Core Specification 4.1	17:55:23.679800
77,613	M	0x50655d95	LL_FEATURE_REQ		17:55:24.345009
77,751	S	0x50655d95	LL_FEATURE_RSP		17:55:24.569796
77,819	M	0x50655d95	LL_CONNECTION_UPDATE_REQ		17:55:24.644478
77,873	M	0x50655d95	LL_FEATURE_RSP		17:55:24.719804
77,940	M	0x50655d95	LL_CONNECTION_UPDATE_REQ		17:55:24.794479
78,263	M	0x50655d95	LL_VERSION_IND	Reserved [9]	17:55:25.330731

S8 overwrite connection interval to 7.5ms shortly after (< 1 second)

77,005	M		CONNECT_REQ	New connection	17:55:23.445198
77,029	M	0x50655d95	LL_FEATURE_REQ	Frame#: 77819	17:55:23.484472
77,099	S	0x50655d95	LL_FEATURE_RSP	Control Pkt: LL_CONNECTION_UPDATE_REQ transmitWindowSize: 3.75 ms	17:55:23.582283
77,136	M	0x50655d95	LL_CONNECTION	transmitWindowOffset: 3.75 ms	17:55:23.630723
77,163	S	0x50655d95	LL_VERSION_IND	connInterval: 7.50 ms	specification 4.1 17:55:23.679800
77,613	M	0x50655d95	LL_FEATURE_REQ	connSlaveLatency: 0	17:55:24.345009
77,751	S	0x50655d95	LL_FEATURE_RSP	connSupervisionTimeout: 20000 ms	17:55:24.569796
77,819	M	0x50655d95	LL_CONNECTION_UPDATE_REQ	connInstant: 0x001d	17:55:24.644478
77,873	M	0x50655d95	LL_FEATURE_RSP		17:55:24.719804
77,940	M	0x50655d95	LL_CONNECTION_UPDATE_REQ		17:55:24.794479
78,263	M	0x50655d95	LL_VERSION_IND	Reserved [9]	17:55:25.330731

S8 (series of connection interval update event)

77,005	M		CONNECT_REQ	New connection	17:55:23.445198
77,029	M	0x50655d95	LL_FEATURE_REQ		17:55:23.484472
77,099	S	0x50655d95	LL_FEATURE_RSP		17:55:23.582283
77,136	M	0x50655d95	LL_CONNECTION_UPDATE_REQ	75ms	17:55:23.630723
77,163	S	0x50655d95	LL_VERSION_IND		Bluetooth Core Specification 4.1 17:55:23.679800
77,613	M	0x50655d95	LL_FEATURE_REQ		17:55:24.345009
77,751	S	0x50655d95	LL_FEATURE_RSP		17:55:24.569796
77,819	M	0x50655d95	LL_CONNECTION_UPDATE_REQ	7.5ms	17:55:24.644478
77,873	M	0x50655d95	LL_FEATURE_RSP		17:55:24.719804
77,940	M	0x50655d95	LL_CONNECTION_UPDATE_REQ	7.5ms	17:55:24.794479
78,263	M	0x50655d95	LL_VERSION_IND	Reserved [9]	17:55:25.330731
88,841	M		CONNECT REQ	New connection	17:55:27.442158

Device initiate (100ms, 200ms), S8 respond 7.5ms