

Structure of Messages:**Message types**

ID:	
0	Relay chat message
1	Join relay message
2	Leave relay message
3	Keep-alive relay message
128	Join request
129	Join reply (IP-list + History)
130	Old chat message request
131	Old chat message reply

Chat relay message

Beg	End	Len	
0	0	1	Value 0 (Chat relay message)
1	8	8	Unique message ID
9	12	4	Sender IP
13	16	4	Sender local time
17	272	256	Old message ID:s (32*8B)
273	304	32	Nick of sender
305	308	4	Length of message
309			Actual message

Join relay message

Beg	End	Len	
0	0	1	Value 1 (Join relay message)
1	8	8	Unique message ID
9	12	4	Sender IP
13	16	4	Sender local time
17	272	256	Old message ID:s (32*8B)
273	304	32	Nick of sender

Leave relay message

Beg	End	Len	
0	0	1	Value 2 (Leave relay message)
1	8	8	Unique message ID
9	12	4	Sender IP
13	16	4	Sender local time
17	272	256	Old message ID:s (32*8B)
273	304	32	Nick of sender

Keep-alive relay message

Beg	End	Len	
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0	0	1	Value 3 (Keep-alive relay message)
1	8	8	Unique message ID
9	12	4	Sender IP

Join request message

Beg	End	Len	
0	0	1	Value 128 (Join request message)
1	8	8	Unique message ID
9	12	4	Client time
13	44	32	Nick of sender

Join reply message

Beg	End	Len	
0	0	1	Value 129
1	800	800	Old message ID:s (100 * 8B)
801	804	4	Length of IP-list
805			IP-list (n * 4B)

Old message request

Beg	End	Len	
0	0	1	Value 130
1	8	8	Requested message ID

Old message answer

Beg	End	Len	
0	0	1	Value 131
1	1	1	Type of message
2	9	8	Old message ID
10	13	4	Original client time
14	45	32	Nick of orginal sender
45	48	4	Length of message
49			Actual message