

Message

```
1 package lampport;
2
3 import java.io.Serializable;
4
5 /**
6  * This class represents a message {@link IValueManager}s sends to each other
7  *
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9  */
10 public class Message implements Serializable {
11
12     /**
13      * The logical timestamp which indicates when the message was sent.
14      * Used to insure the right execution order of the requests (in order they arrive to the request queue)
15      */
16     private int timestamp;
17     /**
18      * can be REQUEST, ACKNOWLEDGEMENT or LIBERATION
19      */
20     private MessageType messageType;
21     /**
22      * The port of the {@link IValueManager} emitting the message.
23      * Used to reference the sender
24      */
25     private int emitterPort;
26
27     /**
28      * Constructor
29      * @param timestamp the logical timestamp of the {@link Message}
30      * @param messageType message's {@link MessageType}
31      * @param emitterPort emitter's port
32      */
33     public Message(int timestamp, MessageType messageType, int emitterPort) {
34         this.timestamp = timestamp;
35         this.messageType = messageType;
36         this.emitterPort = emitterPort;
37     }
38
39     /**
40      * Getter
41      * @return {@link Message}'s timestamp
42      */
43     public int getTimestamp() {
44         return timestamp;
45     }
46
47     /**
48      * Getter
49      * @return {@link MessageType} of the message
50      */
51     public MessageType getMessageType() {
52         return messageType;
53     }
54
55     /**
56      * Getter
57      * @return port of the emitter of the message
58      */
59     public int getEmitterPort() {
60         return emitterPort;
61     }
62 }
63
```