Internal Messaging Specification

# 

# General Message Format

<from> <sequence> <to> <CODE> <arguments>

|  |  |
| --- | --- |
| **<from>** | This field contains the name of the message sender. |
| **<sequence>** | This field contains the message sequence number. |
| **<to>** | This fields contains the name of the intended recipient of the message. |
| **<CODE>** | This field contains the message type code. |
| **<arguments>** | This optional field contains additional information or arguments for the message. |

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# Message from the Server

## User Message

|  |  |
| --- | --- |
| **<from>** | Always “Server”. |
| **<sequence>** | An integer incremented from the last sequence number sent by the server. |
| **<to>** | Recipient client long name. |
| **<CODE>** | USER\_MESSAGE |
| **<arguments>** | Format is original sending client short name and then the user message, separated from the sending client name by a space. |

## User List Response

|  |  |
| --- | --- |
| **<from>** | Always “Server”. |
| **<sequence>** | An integer incremented from the last sequence number sent by the server. |
| **<to>** | Recipient client long name. |
| **<CODE>** | USER\_LIST\_RESPONSE |
| **<arguments>** | A space separated list of user short names corresponding to the users currently online and in the same chatroom as the requesting client. |

## Chatroom List Response

|  |  |
| --- | --- |
| **<from>** | Always “Server”. |
| **<sequence>** | An integer incremented from the last sequence number sent by the server. |
| **<to>** | Recipient client long name. |
| **<CODE>** | CHATROOM\_LIST\_RESPONSE |
| **<arguments>** | A space separated list of current chatroom names. |

## Enter Chatroom Response

|  |  |
| --- | --- |
| **<from>** | Always “Server”. |
| **<sequence>** | An integer incremented from the last sequence number sent by the server. |
| **<to>** | Recipient client long name. |
| **<CODE>** | ENTER\_CHATROOM\_RESPONSE |
| **<arguments>** | The name of the current chatroom of the client. Usually the one requested. |

## Login Response

|  |  |
| --- | --- |
| **<from>** | Always “Server”. |
| **<sequence>** | An integer incremented from the last sequence number sent by the server. |
| **<to>** | Recipient client long name. |
| **<CODE>** | LOGIN\_RESPONSE |
| **<arguments>** | Either “Bad” or “Confirmed”. If “Bad” then the login was unsuccessful. If “Good” then the login was successful and the client is now in the “Lobby” chatroom. |

# Message from the Client

## Login Request

|  |  |
| --- | --- |
| **<from>** | The requesting client’s long name. |
| **<sequence>** | An integer value. |
| **<to>** | Recipient client long name. |
| **<CODE>** | LOGIN\_REQUEST |
| **<arguments>** | Either “Bad” or “Confirmed”. If “Bad” then the login was unsuccessful. If “Good” then the login was successful and the client is now in the “Lobby” chatroom. |

## User List Request

|  |  |
| --- | --- |
| **<from>** | The requesting client’s long name. |
| **<sequence>** | An integer value. |
| **<to>** | Recipient client long name. |
| **<CODE>** | USER\_LIST\_REQUEST |
| **<arguments>** | None. |

## Chatroom List Request

|  |  |
| --- | --- |
| **<from>** | The requesting client’s long name. |
| **<sequence>** | An integer value. |
| **<to>** | Recipient client long name. |
| **<CODE>** | CHATROOM\_LIST\_REQUEST |
| **<arguments>** | None. |

## User Message

|  |  |
| --- | --- |
| **<from>** | The requesting client’s long name. |
| **<sequence>** | An integer value. |
| **<to>** | Recipient client long name. |
| **<CODE>** | USER\_MESSAGE |
| **<arguments>** | The intended recipient client’s short name separated by a space from the text of the message. |

## Broadcast Message

|  |  |
| --- | --- |
| **<from>** | The requesting client’s long name. |
| **<sequence>** | An integer value. |
| **<to>** | Recipient client long name. |
| **<CODE>** | BROADCAST\_MESSAGE |
| **<arguments>** | The text of the broadcast message. |

## Enter Chatroom Request

|  |  |
| --- | --- |
| **<from>** | The requesting client’s long name. |
| **<sequence>** | An integer value. |
| **<to>** | Recipient client long name. |
| **<CODE>** | ENTER\_CHATROOM\_REQUEST |
| **<arguments>** | The name of the chatroom the client is requesting to transfer into. |

## Logout

|  |  |
| --- | --- |
| **<from>** | The requesting client’s long name. |
| **<sequence>** | An integer value. |
| **<to>** | Recipient client long name. |
| **<CODE>** | LOGOUT |
| **<arguments>** | None. |