

Protocol Message Template:

X/YY/Q/ZZZZ/ABC...

//X: Sender ID

Y: Message type

Q: Portion flag

//Z: Data Payload Length in bytes

ABC...: Data

/*

| X Value: | Sender: |
|----------|------------|
| 1 | Controller |
| 2 | Server |
| 3 | Renderer |

*/

/*

| Y Value: | Message Type: |
|----------|-----------------------------|
| 1 | Request File List |
| 2 | Request File to be rendered |
| 3 | Request Pause |
| 4 | Request Resume |
| 5 | Request Restart File Render |
| 6 | Respond File List |
| 7 | Respond File Contents |
| 8 | Close Session |
| 9 | Rendering begins |
| A | Rendering finished |
| B | Error |
| C | Acknowledge pause |

*/

| Y Value: | Definition |
|----------|-----------------------------|
| 10 | Request file list |
| 11 | Respond file list |
| 20 | Request file to be rendered |
| 21 | Respond file contents |
| 22 | Rendering has begun |
| 23 | Rendering has ended |
| 30 | Request pause |
| 31 | Respond pause |
| 32 | Request resume |
| 33 | Respond resume |
| 34 | Request restart |
| 35 | Respond restart |
| 44 | Error |
| 99 | Exit |

/*

| Z Value: | Applicable Message Types(Y): |
|----------|------------------------------|
| 0 | 1, 3, 4, 5, and 8 |
| >0 | 2, 6, and 7 |

*/

| Q Value: | Definition: |
|----------|---|
| 0 | No further portions. This is the final portion of the file. |
| 1 | Expect more portions. |