**Pro for No-Pro**

**Header – Bytes**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Destination MAC-6B** | | | **Source MAC–6B** | |
| **EtherType–2B** | **Field1–2B** |  | | |
| **Payload 2 bit shifted left** | | | | |
|  | | | | **F2-1B** |

**Field 1 - Bits (Big-Endian)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Type Bit | Type Bit | Type Bit | Length | Length | Length | Length | Length |
| Length | **Length** | **Length** | **Length** | **Length** | **Length** | **Payload** | **Payload** |

**Payload**

|  |
| --- |
| Type 0 (Message): Handle [Tripcode] Blowfish(Message) |
| Type 1 (Join): Handle |
| Type 2 (Heartbeat): Handle |
| Type 3 (Quit): Handle |
| Type 4 (File Send): Blowfish(FileName SegmentNum TotalSegments DataSegment) |
| Type 5 (File Request): Reserved |
| Type 6 (Send to Shell): Reserved |
| Type 7 (Shell Response): Reserved |

**Field 2 - Bits**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Payload | Payload | Payload | Payload | Payload | Payload | Padding | Padding |

**Blowfish**

|  |
| --- |
| 8-byte Cipher Block Chained  Data Length Null Padded to 8 Bytes  Base64 Encoded  Trailing Equal Signs Removed |