IEEE 1722a
Version 1 headers

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Version 1 Header

• Defines optional header extensions
  – Initially Signed Packet and Encrypted Packet
• A 1722a stream may contain 0 – 8 header extensions
• All packets in a stream shall use identical header extensions
• Header extensions shall always appear in a fixed order in the packet
Version 1 Header

subtype data

SRP
Stream ID
Head Extensions

Additional header and payload data
Header Extensions Detail

```
<table>
<thead>
<tr>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>enc</td>
<td>sign</td>
<td>reserved</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
```

header_extensions
Version 1 Header with Extensions

<table>
<thead>
<tr>
<th>_subtype data</th>
<th>00</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRP</td>
<td>04</td>
</tr>
<tr>
<td>Stream ID</td>
<td>08</td>
</tr>
<tr>
<td>Header Extensions</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 2 0 1 2 3 4 5 6 7 8 9 3 1

- subtype
- sv
- version
- type_specific_data
- stream_id
- reserved
- header_extensions
- header_extension_0
- header_extension_1..6
- header_extension_7

Additional header and payload data
### Encryption Header

<table>
<thead>
<tr>
<th>Field</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Encryption Key ID</td>
<td>00 04</td>
</tr>
<tr>
<td>Magic Number</td>
<td>08</td>
</tr>
<tr>
<td>Random Data</td>
<td></td>
</tr>
</tbody>
</table>

- **EUI-64**: Unique identifier
- **magic_number**: Magic number
- **random_data**: Random data
Signed Packet Questions

• ?
• ?
Encrypted Packet Question

• Which sections of the packet are encrypted?
• ?