SIP-CLF Implementation Experience

Peter Musgrave
(as individual)
Goal

• Get concrete experience with both formats for comparison purposes
• Produce non-trivial examples and file sizes
• Provide some subjective feedback based on the experience
Method

• Take SIP messages traces from existing log files
• Read in and parse (Java-based JAIN SIP parser)
• Re-write logs in both formats

Code of implementing classes is on WG Wiki:
http://trac.tools.ietf.org/wg/sipclf/trac/wiki

For full workspace version contact:
peter.musgrave@magorcorp.com
Output Size Comparison

<table>
<thead>
<tr>
<th>Example</th>
<th>Indexed ASCII</th>
<th>IPFIX</th>
</tr>
</thead>
<tbody>
<tr>
<td>B2B INV/OK/ACK</td>
<td>14K</td>
<td>10K</td>
</tr>
<tr>
<td>Long “live log”</td>
<td>935K</td>
<td>673K</td>
</tr>
</tbody>
</table>
# Code Size

<table>
<thead>
<tr>
<th>Java Code</th>
<th>lines of code only/no comments (used CLOC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IpFixLogger</td>
<td>222</td>
</tr>
<tr>
<td>IndexedASCII_02</td>
<td>95</td>
</tr>
</tbody>
</table>
Sample Output

• (example files on Wiki – will be shown live during the meeting using vim for the indexed ASCII and hexdump –C for binary)
Subjective Observations

• Needed to create log parser to confirm format
  – Hadriel’s wireshark parser was very helpful for binary
• Text files are easier to generate and debug
  – Wrote Python log reader very easily
• Not a very significant difference in output sizes
  (most data is text)
• Binary has a non-trivial implementation barrier
  – Might be tolerable if sample code is provided in draft