

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

Example	Indexed ASCII	IPFIX
B2B INV/OK/ACK	14K	10K
Long "live log"	935K	673K

Code Size

Java Code	lines of code only/no comments (used CLOC)
IpFixLogger	222
IndexedASCII_02	95

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