IPFIX Implementation Guidelines

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STATUS

☐ In Working Group Last Call until 17th March

☐ -03 will be published after IETF68

☐ All comments received during WG Last Call have been addressed

☐ Clarifications, language improvements, corrections, etc.
Already in -02...

...and minimally modified: SECURITY GUIDELINES
- Input from 3rd Interop event
- Implementing IPFIX over TLS over TCP
- Implementing IPFIX over DTLS over UDP
- Implementing IPFIX over DTLS over SCTP
Changes in -03

- Improved **SCTP** section

- Guidelines on how to use
  - Streams
  - Partial reliability
  - In-order delivery

- Clarifications
  - Unreliable = partially reliable
  - partially reliable stream → partially reliable delivery
Implementation-specific information

Moved to http://ants.fokus.fraunhofer.de/ipfix/interop06/results.html:

- Existing open-source implementations
- Experience with specific software versions, platforms, etc.
- Programming tricks & hacks
- Guidelines on how to set up a VPN for remote testing
- 3rd Interoperability event results
Conclusions

☐ Last Call is closed
   ▬ Thanks to all who sent comments!

☐ Feedback still welcome
☐ -03 will be out soon
„unreliable“ SCTP

- IPFIX-ARCH – section 8.1 “Export with reliable control connection”
  - SCTP: supports reliable and unreliable transport

- IPFIX-PROTO – section 10.2.2 „Reliability“
  - The SCTP transport protocol is by default reliable, but has the capability to operate in unreliable and partially reliable modes

- IPFIX-PROTO -- Section 10.2.4.3 „Stream“
  - Depending on the application requirements the EP selects the mode (unreliable, partially reliable or fully reliable)…