

# IP Flow Information eXport (IPFIX)

58<sup>th</sup> IETF – Minneapolis, 10 November 2003

- web site: **<http://ipfix.doit.wisc.edu>**
- mailing list:  
**[http://ipfix.doit.wisc.edu/#Mailing\\_List](http://ipfix.doit.wisc.edu/#Mailing_List)**
- meeting slides available  
at: **<http://ipfix.doit.wisc.edu/IETF58/>**
  
- Agenda was sent to IPFIX list and  
[agenda@ietf.org](mailto:agenda@ietf.org): **3 Nov 03**

# IPFIX WG Meeting, 58<sup>th</sup> IETF

- Administrivia:
  - scribe and jabber
  - attendance sheets
  - slides: **<http://ipfix.doit.wisc.edu/IETF58/>**
- Agenda Review: (5 mins)
- Requirements draft, Juergen Quittek (10 mins)
- Other IPFIX Drafts ...

# IPFIX WG Meeting, 58<sup>th</sup> IETF

- IPFIX drafts: (45 minutes total)
  - draft-ietf-ipfix-arch-02.txt (10 mins)
  - draft-ietf-ipfix-info-01.txt (15 mins)
  - draft-ietf-ipfix-protocol-01.txt (15 mins)
  - draft-ietf-ipfix-as-01.txt (5 mins)
- Short Presentations: (30 mins)
  - IPFIX Vendor Specific Information Elements,  
draft-bryant-ipfix-vendor-ie-00.txt
  - Flow selection support in IPFIX,  
draft-molina-flow-selection-00.txt

# IPFIX WG Meeting, 58<sup>th</sup> IETF

- Discussion: Current Issues (45 mins)
  - Nevil's short list
  - IPFIX transport
- Review WG Milestones
  - Requirements and evaluation draft submitted now
  - Others submitted to IESG asap, aim for May 04

# Current Issues (Nevil's short list)

- Counters vs Integers (Info Model)
  - Counters allow for lost data from exporter
  - Integers don't require collector to keep flow stats
  - Consensus is for *integers only*
- Timestamps (Info Model, Architecture?)
  - Consensus is for *UTC-based, microsecond precision, Unix format* (sec, usec)

## Current Issues (2)

- Variable-size Objects (Info Model)
  - Do we have any which are variable-length?
  - If so, we need to add them to info model
- Variable-precision Objects (Info Model, Protocol)
  - For integer objects, need a way to encode them to minimise data size in IPFIX data stream
  - Proposal: *declare max precision* in info model, use *size in IPFIX template* to determine encoding in protocol

# Current Issues (3)

- Default Transport Protocol for IPFIX (Protocol)
  - Mandatory to implement (ensures inter-operability)
  - Not trying to pick a single transport (protocol draft has sections for SCTP and TCP)
  - Want to select transport using sound technical arguments
  - Extensive discussion on IPFIX list, rough consensus for TCP