Recent changes in IANA's IPFIX IE registry
(new / changed Information Elements, 2012)

Paul Aitken

85th IETF Meeting, Atlanta, 2012
Changes to existing IEs

- **95 applicationID** renamed to "applicationId"
- **283 natPoolID** renamed to "natPoolId"
  - `ie s/ID/Id/` in both cases.
  - this makes the names consistent with most other "Id" fields.
  - The exceptions are wlanSSID, ingressVRFID, egressVRFID, and virtualStationUUID, which should remain unchanged because SSID, VRFID, and UUID are well known terms.

- **99 multicastReplicationFactor**
  - add Data Type = unsigned32
  - add Semantics = quantity

- **233 firewallEvent**
  - add event 5 = Flow Update
New IEs 1

- 300 observationDomainName
  - complementing observationDomainId (#149).

- Data link:
  - 312 dataLinkFrameSize
  - 315 dataLinkFrameSection
    - Created per section 3.2 of draft-ietf-ipfix-data-link-layer-monitoring
New IEs 2

- Virtual station:
  - 347 virtualStationInterfaceId
  - 348 virtualStationInterfaceName
  - 349 virtualStationUUID
  - 350 virtualStationName

- Layer 2:
  - 351 layer2SegmentId
  - 352 layer2OctetDeltaCount
  - 353 layer2octetTotalCount
New IEs 3

- Packet counters:
  - 354 ingressUnicastPacketTotalCount
  - 355 ingressMulticastPacketTotalCount
  - 356 ingressBroadcastPacketTotalCount
  - 357 egressUnicastPacketTotalCount
  - 358 egressBroadcastPacketTotalCount
  - Note that the missing "egressMulticastPacketTotalCount" is already provided by #174, postMCastPacketTotalCount.

- Monitoring Interval:
  - 359 monitoringIntervalStartMilliSeconds
  - 360 monitoringIntervalEndMilliSeconds
New IEs 4

- **Port Range:**
  - 361 portRangeStart
  - 362 portRangeEnd
  - 363 portRangeStepSize
  - 364 portRangeNumPorts

- **Wifi:**
  - 365 staMacAddress
  - 366 staIPv4Address
  - 367 wtpMacAddress
New IEs 5

- **Interface type:**
  - 368 ingressInterfaceType
  - 369 egressInterfaceType

- 370 rtpSequenceNumber [per RFC 3550]

- 371 userName
MIB export

- Request for IDs for MIB export was rejected.
  - Assigned cisco IDs for current MIB export implementation.
  - The WG draft requests IPFIX IDs from IANA.
Other changes 1

- Removed large blocks of whitespace from Descriptions
- Added blank lines to make XML easier for humans to read
- Updated IPFIX registry per errata 2052 (selectorId = 64 bits)
- 5 errata notes converted into active hyperlinks
- Reverted fields 58 and 59 to their netflow v9 definitions per the discussion here:
  - added cross-references to fields 243 and 254, eg, "for dot1q vlans, see 243 dot1qVlanId".
Other changes 2

- The table which listed the number ranges has been deleted and replaced by a Note, due to a table-in-table technical difficulty:

<table>
<thead>
<tr>
<th>0-128</th>
<th>NFv9 compatible</th>
</tr>
</thead>
<tbody>
<tr>
<td>128-32767</td>
<td>IANA assigned / IPFIX</td>
</tr>
</tbody>
</table>

**Note**

Values 0-127: NFv9-compatible
Review?

- A general review of IPFIX IE semantics seems to be required:
  - https://www.ietf.org/mail-archive/web/ipfix/current/msg06269.html
  - https://www.ietf.org/mail-archive/web/ipfix/current/msg06452.html
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