Recent changes in IANA's IPFIX IE registry

(new / changed Information Elements, 2012)

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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:
  - http://www.ietf.org/mail-archive/web/ipfix/current/msg06205.html
  - 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:

0-128	NFv9 compatible
128-32767	IANA assigned / IPFIX

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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