A MECHANISM FOR SHARING METADATA FOR PRIVATE IE'S

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MOTIVATION / PROBLEM STATEMENT

- IPFIX allows probe/exporters to specify vendor unique information elements
- IPFIX does allow a collector to be able to operate with unknown IE's by skipping them
- BUT, there is no defined ability for a collector to get the information about vendor defined IE's

PROPOSED SOLUTION

- Add a new OPTIONS record which provides a URI to be able to retrieve an XML record with information on private IE's
- Define the XML format with which the information can be exchanged

OPTIONS RECORD

- New IE:
 - PrivateInformationElementKB
 - type string
- Holds a URI:
 - e.g.: http://tools.netsa.cert.org/ipfix/applabel.xml

XML SCHEMA

Name (string) **Enterprise Registry** Copyright (string) Contact (string) Private-Enterprise-Number (integer) Directory (URI) ID (URI) Name (string) security-type (string) Registry policy-type (string) URI (URI) Root-EID (integer) Element ID (integer) Enterprise Number (integer) Data-Type (octet-array I unsigned 8 I ...) Semantics (default I quantity I ...) Units (none | bits | octets | packets) Range-begin (string) Element Range-end (string) Description (string) mime-path (string) Value-Map (list) {value, description}

XML SCHEMA

- This is where the real work is
- What do you need to describe your private IE's?