

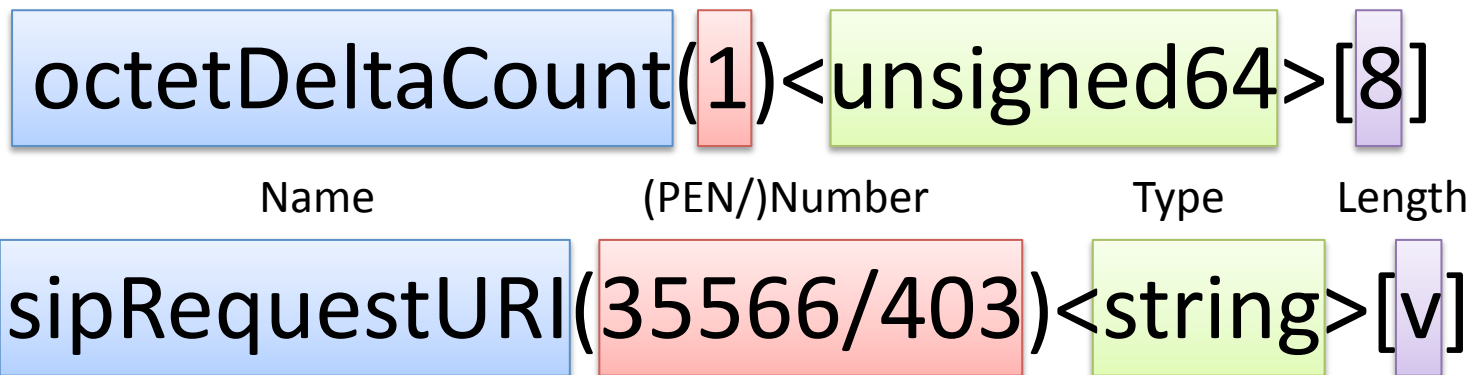
A Lightweight Textual Format for IPFIX Information Models and Templates (draft-trammell-ipfix-text-iespec-00)

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What?

- An easily-parsed, easily-generated, human-readable, textual information element specifier (*iespec*)
 - compatible with RFC 5102 and RFC 5610



Why?

- For defining information model extensions as well as templates
 - In Internet-Drafts
 - At runtime
- Applicable in areas where XML (IANA) isn't
 - readable by humans when pasted into an Internet-Draft
 - easier to implement in resource-restricted environments: who wants to slam an XML parser onto an FPGA?
- Initial application: SIPCLF working group (Monday)
- Initial implementation: ripfix (NMRG workshop, Friday)

Structure

- Each element of an iespec is delimited, and can stand on its own, or be combined in any order.
- Fully qualified iespecs (containing all elements) useful for documentary purposes or information model extensions
 - e.g. SIPCLF draft: all SIP IEs in one figure.
- Unqualified iespecs useful for runtime template definition
 - e.g.: note that (1)[8] for octetDeltaCount is directly equivalent to the information in a Template.

Next Steps

- Define runtime representation for Templates
 - Start at this with {attributes}, i.e. {scope}
- Complete 5610 implementation?
 - Add information about units/semantics as attributes?
 - Inline description probably best handled with XML.
- Determine WG interest in adoption/further development