VoIP Information elements in IPFIX

Aamer Akhter <aa@cisco.com>
Hendrik Scholz
<hscholz@voipfuture.com>
Requirements

Control Plane
Record per session or SIP message

User Plane
Record per stream or per stream section

Consistency across vendors
Existing drafts

Control Plane
draft-trammell-ipfix-sip-msg-02

User Plane
draft-akhter-opsawg-perfmon-ipfix-02
draft-scholz-ipfix-rtp-msg-00

Correlation
to be defined
Proposed Next Steps

Joint effort
Draft for RTP transport metrics
Draft for RTP audio
(Optional) draft for RTP video
Vendor-specific extensions outside above drafts
IANA allocated IEs vs. PEN

Which IEs are vendor-independent and which are not?

Proposal: We come up with a list for discussion.
Where to discuss?

IPFIX?
OPSAWG?
IPPM?
Transporting MOS information
Should we mimic the RTCP-XR approach?
draft-wu-xrblock-rtcp-xr-quality-monitoring-08
Granularity?

What happens if one stream (5-tuple) has multiple SSRCs?

- multiple IPFIX records
- one IPFIX record

Dependencies

Video, conferencing

draft-wu-xrblock-rtcp-xr-quality-monitoring