

An Origin Attribute for the STUN Protocol

draft-ietf-tram-stun-origin-00

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Recent Changes

- Changes between draft-johnston-tram-stun-origin-03 and draft-ietf-tram-stun-origin-00
 - None, besides name and date change
- Changes between draft-johnston-tram-stun-origin-02 and -03
 - Added sections on media keep-alive and SIP keep-alive usages
 - Added a section on multiple origins
 - Added a section on Implementation Status about the open source implementations of the browser and STUN/TURN server that support the ORIGIN attribute
 - Clarified integrity protection of the attribute in the Security Considerations section

Open Issues

- XMPP/Jabber Origin updates
- Length guidelines. Choices:
 - Strict (MUST be less than x)
 - Loose (RECOMMENDED to be less than x)
- Multiple Origins
 - Under what conditions would a browser do this?
 - Guidance for Server when multiple Origins received
- Security considerations integrity protection clarification

Implementation Status (RFC 6982)

- **Two proof-of-concept implementations have been created**
 - A WebRTC enabled browser that includes the appropriate STUN ORIGIN Attribute with the Origin insight known to the browser in STUN/TURN messages sent to servers: Submitted to the open source Chromium and WebRTC projects.
 - An example of a multiple realms capable TURN server that takes advantage of Origin insight provided in the STUN ORIGIN Attribute: ‘Coturn’ a clone (a spin-off) of the open source rfc5766-turn-server project adding multiple realms support.
 - Successful interoperability between these browser and TURN server proof-of-concept implementations has been verified.

Next Steps

- Review by HTTP expert
- WGLC soon?