Using SCTP as a Transport for HTTP
(draft-natarajan-http-over-sctp-01)

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Draft Objectives

- Highlight SCTP services that better suit HTTP’s needs
- Propose HTTP over SCTP streams design
- Share implementation experience
- List open issues
SCTP Services for HTTP

- Multistreaming eliminates inter-object HOL blocking
- Cookie mechanism enables more secure association establishment
- Multihoming improves fault-tolerance
- Partial reliability
- Unordered data delivery
- Preservation of message boundaries
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Currently NOT used in proposed design
Design Proposal

- Objectives
  - Make no changes to the existing HTTP specification
  - Minimize SCTP-related state information at the server
- Implementations in Apache and Firefox


Open Issues

- How does a web client choose between SCTP vs. TCP?
  1. Try both; Use whichever connection is established first
  2. SRV based solution
  3. New URI for SCTP “http-sctp://”

- NAT Issues
  - draft-ietf-behave-sctpnat