XMPP over WebSocket

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Framing

• Currently one stream level element per WS message, stream start and close in their own messages.
  – Except for <stream><error /></stream> which is in a single message
  – Stream start may also include an XML prelude
• Is there a reason for special casing these stream start situations?
• Should the <?xml ... ?> prelude be in its own message?
• The fewer special cases/complex message payloads the easier for browser side parsing.
SASL External

• It is still unclear what the expectation should be for EXTERNAL:
  – Use of a client cert at the WS level?
  – Inclusion of cookie/session data in initial WS request?

• Existing user assumptions are that EXTERNAL = client certs
see-other-uri?

• We already have a <see-other-host /> stream level error condition.
• Only specifies host+port, not a full URI that could be required for a new WebSocket connection.
• Add new stream level error, or make it an application specific error to go alongside <see-other-host />?
• If new stream level error, does this require 6120bis?
Misc Issues

- Need to call out that the browser’s stack is in charge of certificate validation. Applications will likely not be able to verify certs directly.
- Add recommendations for use of XEP-0198
- Is compression at the WS level available? Should it be mentioned?