



XMPP

XEP-0468: WebSocket S2S

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Experimental	Standards Track	NOT_YET_ASSIGNED

This specification defines a procedure to make s2s XMPP connections over WebSocket.

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Contents

1	Introduction	1
2	Requirements	1
3	Use Cases	1
4	Security Considerations	1
5	IANA Considerations	1
6	XMPP Registrar Considerations	2

1 Introduction

[RFC 7395](#)¹ specifies how to make c2s connections over WebSocket. This XEP extends that to also support s2s connections over WebSocket.

2 Requirements

Everything mentioned in [RFC 7395](#)² should be followed with the following changes:

1. Connection details are discovered by using [Discovering Alternative XMPP Connection Methods \(XEP-0156\)](#)³
2. For c2s, [RFC 7395](#)⁴ requires replacing the 'jabber:client' namespace with 'urn:ietf:params:xml:ns:xmpp-framing', for s2s, the 'jabber:server' namespace should be replaced with 'urn:ietf:params:xml:ns:xmpp-framing-server'.
3. wss (TLS) upgraded to a MUST be used, therefore SASL EXTERNAL authentication can be used as defined in [XMPP Core](#)⁵

3 Use Cases

Some hosting services only allow HTTPS proxies to access servers, meaning federating XMPP servers cannot be ran on these hosts unless s2s is accessible over HTTPS.

4 Security Considerations

Identical to [RFC 7395 Security Considerations](#).

5 IANA Considerations

A URN sub-namespace for framing of s2s Extensible Messaging and Presence Protocol (XMPP) streams is defined as follows.

¹RFC 7395: An Extensible Messaging and Presence Protocol (XMPP) Subprotocol for WebSocket <<http://tools.ietf.org/html/rfc7395>>.

²RFC 7395: An Extensible Messaging and Presence Protocol (XMPP) Subprotocol for WebSocket <<http://tools.ietf.org/html/rfc7395>>.

³XEP-0156: Discovering Alternative XMPP Connection Methods <<https://xmpp.org/extensions/xep-0156.html>>.

⁴RFC 7395: An Extensible Messaging and Presence Protocol (XMPP) Subprotocol for WebSocket <<http://tools.ietf.org/html/rfc7395>>.

⁵RFC 6120: Extensible Messaging and Presence Protocol (XMPP): Core <<http://tools.ietf.org/html/rfc6120>>.

URI: urn:ietf:params:xml:ns:xmpp-framing-server

Specification: this document

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6 XMPP Registrar Considerations

This document requires no interaction with the [XMPP Registrar](#)⁶.

⁶The XMPP Registrar maintains a list of reserved protocol namespaces as well as registries of parameters used in the context of XMPP extension protocols approved by the XMPP Standards Foundation. For further information, see <<https://xmpp.org/registrar/>>.