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

Copyright

This XMPP Extension Protocol is copyright © 1999 – 2020 by the XMPP Standards Foundation (XSF).

Permissions

Permission is hereby granted, free of charge, to any person obtaining a copy of this specification (the "Specification"), to make use of the Specification without restriction, including without limitation the rights to implement the Specification in a software program, deploy the Specification in a network service, and copy, modify, merge, publish, translate, distribute, sublicense, or sell copies of the Specification, and to permit persons to whom the Specification is furnished to do so, subject to the condition that the foregoing copyright notice and this permission notice shall be included in all copies or substantial portions of the Specification. Unless separate permission is granted, modified works that are redistributed shall not contain misleading information regarding the authors, title, number, or publisher of the Specification, and shall not claim endorsement of the modified works by the authors, any organization or project to which the authors belong, or the XMPP Standards Foundation.

Warranty

## NOTE WELL: This Specification is provided on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. ##

Liability

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall the XMPP Standards Foundation or any author of this Specification be liable for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising from, out of, or in connection with the Specification or the implementation, deployment, or other use of the Specification (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if the XMPP Standards Foundation or such author has been advised of the possibility of such damages.

Conformance

This XMPP Extension Protocol has been contributed in full conformance with the XSF’s Intellectual Property Rights Policy (a copy of which can be found at <https://xmpp.org/about/xsf/ipr-policy> or obtained by writing to XMPP Standards Foundation, P.O. Box 787, Parker, CO 80134 USA).
1 Introduction

RFC 7395 \cite{rfc7395} 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 \cite{rfc7395} should be followed with the following changes:

1. Connection details are discovered by using Discovering Alternative XMPP Connection Methods (XEP-0156) \cite{xep-0156}.

2. For c2s, RFC 7395 \cite{rfc7395} 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 \cite{rfc6120}.

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.

\begin{itemize}
\end{itemize}
6 XMPP Registrar Considerations

This document requires no interaction with the XMPP Registrar.\(^6\)

---

\(^6\)The 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/>.