This document defines XMPP protocol compliance levels for 2016.
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1 Introduction

The XMPP Standards Foundation (XSF) \(^1\) defines protocol suites for the purpose of compliance testing and software certification. This document specifies the 2016 compliance levels for XMPP clients and servers; it is hoped that this document will advance the state of the art, and provide guidance and eventual certification to XMPP client and server authors. Unless explicitly noted, support for the listed specifications is REQUIRED for compliance purposes.

2 Compliance Levels

2.1 Core Compliance Suite

<table>
<thead>
<tr>
<th>Feature</th>
<th>Server</th>
<th>Core</th>
<th>Advanced</th>
<th>Server</th>
<th>Advanced</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feature discovery</td>
<td></td>
<td></td>
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<td></td>
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</tbody>
</table>

\(^1\)The XMPP Standards Foundation (XSF) is an independent, non-profit membership organization that develops open extensions to the IETF’s Extensible Messaging and Presence Protocol (XMPP). For further information, see <https://xmpp.org/about/xmpp-standards-foundation>.
2 COMPLIANCE LEVELS

Feature

Feature broadcasts

Server Extensibility
2.2 Web Compliance Suite

To be considered XMPP web compliant, all line items from the core compliance suite above must be met, as well as all items in this suite.
<table>
<thead>
<tr>
<th>Feature</th>
<th>Core Server</th>
<th>Core Client</th>
<th>Advanced Server</th>
<th>Advanced Client</th>
<th>Providers</th>
</tr>
</thead>
</table>
2.3 IM Compliance Suite

To be considered XMPP IM compliant, all line items from the core compliance suite above must be met, as well as all items in this suite.

Feature


User Avatars

2 COMPLIANCE LEVELS

Feature

Outbound Message Synchronization
## COMPLIANCE LEVELS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Core</th>
<th>Server</th>
<th>Core</th>
<th>Client</th>
<th>Advanced</th>
<th>Server</th>
<th>Advanced</th>
<th>Client</th>
<th>Providers</th>
</tr>
</thead>
<tbody>
<tr>
<td>User Blocking</td>
<td>☐</td>
<td>☑</td>
<td>☐</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
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<td>☑</td>
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</tr>
</tbody>
</table>
## 2 COMPLIANCE LEVELS

<table>
<thead>
<tr>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group Chat</td>
</tr>
</tbody>
</table>


2 COMPLIANCE LEVELS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Core</th>
<th>Server</th>
<th>Advanced</th>
<th>Server</th>
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<tr>
<td>Bookmarks</td>
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<td></td>
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</tr>
</tbody>
</table>

Session Resumption

Stanza Acknowledgements
### 2.4 Mobile Compliance Suite

To be considered XMPP mobile compliant, all line items from the core compliance suite above must be met, as well as all items in this suite.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Core Server</th>
<th>Core Client</th>
<th>Advanced Server</th>
<th>Advanced Client</th>
<th>Providers</th>
</tr>
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<tbody>
<tr>
<td>Session Resumption</td>
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<td></td>
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<td>Stream Management (XEP-0198)</td>
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<td></td>
<td></td>
<td></td>
<td>XEP-0198: Stream Management</td>
</tr>
</tbody>
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## 2 COMPLIANCE LEVELS

<table>
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<th>Feature</th>
<th>Core Server</th>
<th>Core Client</th>
<th>Advanced Server</th>
<th>Advanced Client</th>
<th>Providers</th>
</tr>
</thead>
</table>

* Necessary to support Personal Eventing Protocol (PEP).
† Support can be enabled via an external component or an internal server module/plugin.
‡ Support for the Entity Use Cases and Occupant Use Cases is REQUIRED; support for the remaining use cases is RECOMMENDED.
Only one of the recommended providers must be implemented for compliance.

3 Implementation Notes

Some of the protocol specifications referenced herein have their own dependencies; developers need to consult the relevant specifications for further information.

4 Security Considerations

This document introduces no additional security considerations above and beyond those defined in the documents on which it depends.

5 IANA Considerations

This document requires no interaction with the Internet Assigned Numbers Authority (IANA)\(^2\).

6 XMPP Registrar Considerations

This document requires no interaction with the XMPP Registrar\(^3\).

7 Acknowledgements

The author would like to thank Guus der Kinderen, Dele Olajide, Marc Laporte, Dave Cridland and Daniel Gultsch for their suggestions.

\(^2\)The Internet Assigned Numbers Authority (IANA) is the central coordinator for the assignment of unique parameter values for Internet protocols, such as port numbers and URI schemes. For further information, see <http://www.iana.org/>.

\(^3\)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/>.