



# XMPP

## XEP-0117: Intermediate IM Protocol Suite

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This document defines a recommended suite of Jabber/XMPP protocols to be supported by intermediate instant messaging and presence applications. Note: This protocol suite has been obsoleted by XEP-0213 and XEP-0216.

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## 1 Introduction

*Note: This protocol suite is obsolete. For updated protocol suites, refer to [XMPP Intermediate IM Client 2008 \(XEP-0213\)](#)<sup>1</sup> and [XMPP Intermediate IM Server 2008 \(XEP-0216\)](#)<sup>2</sup>.*

The [Basic IM Protocol Suite \(XEP-0073\)](#)<sup>3</sup> introduced the concept of a "protocol suite". This document extends the basic support specified in XEP-0073 by specifying an Intermediate IM Protocol Suite.

## 2 Requirements and Approach

This document follows the same approach as XEP-0073. By design, the Basic IM Protocol Suite does not include more advanced instant messaging functionality; the present document fills the need for a protocol suite that addresses such functionality.

A protocol is deemed worthy of inclusion in this protocol suite if:

- It addresses common needs of instant messaging users that are addressed by virtually all other popular IM services or systems.
- It is more advanced than basic IM and presence.
- It has achieved a status of at least Draft within the XMPP Standards Foundation's standards process (as defined in [XMPP Extension Protocols \(XEP-0001\)](#)<sup>4</sup>).

## 3 Definition

We define the Intermediate IM Protocol Suite as follows:

### Specification

XEP-0073: Basic IM Protocol Suite

Multi-User Chat (XEP-0045) XEP-0045: Multi-User Chat <<https://xmpp.org/extensions/xep-0045.html>>.

XHTML-IM (XEP-0071) XEP-0071: XHTML-IM <<https://xmpp.org/extensions/xep-0071.html>>.

SI File Transfer (XEP-0096) XEP-0096: SI File Transfer <<https://xmpp.org/extensions/xep-0096.html>>.

Entity Capabilities (XEP-0115) XEP-0115: Entity Capabilities <<https://xmpp.org/extensions/xep-0115.html>>.

<sup>1</sup>XEP-0213: XMPP Intermediate IM Client 2008 <<https://xmpp.org/extensions/xep-0213.html>>.

<sup>2</sup>XEP-0216: XMPP Intermediate IM Server 2008 <<https://xmpp.org/extensions/xep-0216.html>>.

<sup>3</sup>XEP-0073: Basic IM Protocol Suite <<https://xmpp.org/extensions/xep-0073.html>>.

<sup>4</sup>XEP-0001: XMPP Extension Protocols <<https://xmpp.org/extensions/xep-0001.html>>.

Note well that the foregoing protocols apply to clients only (i.e., they do not introduce new requirements for servers). In addition, these protocols have their own dependencies, which include the following XEPs (as well as various IETF RFCs and W3C specifications):

- [Data Forms \(XEP-0004\)](#)<sup>5</sup>
- [Feature Negotiation \(XEP-0020\)](#)<sup>6</sup>
- [In-Band Bytestreams \(XEP-0047\)](#)<sup>7</sup>
- [SOCKS5 Bytestreams \(XEP-0065\)](#)<sup>8</sup>
- [Field Standardization for Data Forms \(XEP-0068\)](#)<sup>9</sup>
- [XMPP Date and Time Profiles \(XEP-0082\)](#)<sup>10</sup>
- [Stream Initiation \(XEP-0095\)](#)<sup>11</sup>

In addition, because the intermediate suite builds on the basic suite, by definition all protocols required by XEP-0073 are also required by the intermediate suite (refer to XEP-0073 for details).

## 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 \(IANA\)](#)<sup>12</sup>.

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<sup>5</sup>XEP-0004: Data Forms <<https://xmpp.org/extensions/xep-0004.html>>.

<sup>6</sup>XEP-0020: Feature Negotiation <<https://xmpp.org/extensions/xep-0020.html>>.

<sup>7</sup>XEP-0047: In-Band Bytestreams <<https://xmpp.org/extensions/xep-0047.html>>.

<sup>8</sup>XEP-0065: SOCKS5 Bytestreams <<https://xmpp.org/extensions/xep-0065.html>>.

<sup>9</sup>XEP-0068: Field Data Standardization for Data Forms <<https://xmpp.org/extensions/xep-0068.html>>.

<sup>10</sup>XEP-0082: XMPP Date and Time Profiles <<https://xmpp.org/extensions/xep-0082.html>>.

<sup>11</sup>XEP-0095: Stream Initiation <<https://xmpp.org/extensions/xep-0095.html>>.

<sup>12</sup>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/>>.

## 6 XMPP Registrar Considerations

No namespaces or parameters need to be registered with the [XMPP Registrar](#)<sup>13</sup> as a result of this document.

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<sup>13</sup>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/>.