

# **Tigase JaXMPP**

**Tigase Team**

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# Table of Contents

I. JaXMPP V3.2.0 Release Notes .....	1
1. Changes .....	3
2. Fixes .....	4
3. Design and implementation .....	6
Tigase JaXMPP .....	6
Design .....	6
4. Examples .....	7
A very simple client in Groovy (sending and listening for message) .....	7
A very simple client in Groovy (direct presence + presence listen) .....	7

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# Part I. JaXMPP V3.2.0 Release Notes

Tigase JaXMPP v3.2.0 has been released! Please review the change notes below to see what has changed since our last release.

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## Table of Contents

1. Changes .....	3
2. Fixes .....	4
3. Design and implementation .....	6
Tigase JaXMPP .....	6
Design .....	6
4. Examples .....	7
A very simple client in Groovy (sending and listening for message) .....	7
A very simple client in Groovy (direct presence + presence listen) .....	7

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# Chapter 1. Changes

- #4369 [<https://tigase.tech/issues/4369>]: Support for XEP-0313: Message Archive Management [<http://xmpp.org/extensions/xep-0313.html>] has now been added within Jaxmpp-MAM module.
- Implementation of XEP-0357: Push Notifications [<http://xmpp.org/extensions/xep-0357.html>]
- SCRAM-SHA-1 and SCRAM-SHA-1-PLUS are now enabled by default for Authorization.
- #4280 [<https://tigase.tech/issues/4280>]: added support for XEP-0352: Client State Indication [<http://xmpp.org/extensions/xep-0352.html>]
- #5950 [<https://tigase.tech/issues/5950>]: added support for XEP-0363: HTTP File Upload [<http://xmpp.org/extensions/xep-0363.html>]
- #5223 [<https://tigase.tech/issues/5223>]: in-band registration to use XMPP Data Forms XEP-0004
- #4288 [<https://tigase.tech/issues/4288>]: Login and Disconnect methods have been changed in blocking mode.
- #4398 [<https://tigase.tech/issues/4398>]: Removed JDK8 specific features not supported by GWT to prevent errors.
- #4762 [<https://tigase.tech/issues/4762>]: added support for handling WebSocket PONG frames
- #7387 [<https://tigase.tech/issues/7387>]: added support for PubSub notifications about node removal and association/dissociation to the collection node

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# Chapter 2. Fixes

- #4317 [<https://tigase.tech/issues/4317>]: fixed NPE if receiver of file transfer is not connected or disconnected in SOCKS5.
- #4318 [<https://tigase.tech/issues/4318>]: added checking if destination file is set when file transfer is accepted.
- #4378 [<https://tigase.tech/issues/4378>]: fixed exceptions occurring when a server-initiated disconnection could lead to an invalid connector state, fix issue with invalid connector state when connecting using Websocket Protocol over TCP.
- #8104 [<https://tigase.tech/issues/8104>]: fixing issue with parsing timestamp
- #8033 [<https://tigase.tech/issues/8033>]: added thread safety to ExtensionsChain implementation
- #2654 [<https://tigase.tech/issues/2654>]: improve DNS resolution for local addresses
- #7793 [<https://tigase.tech/issues/7793>]: fixing possible NPE in UnifiedRegistrationForm when value for a field is null
- #7649 [<https://tigase.tech/issues/7649>]: improving GWT code for sites hosted on HTTPS enabled servers
- #7525 [<https://tigase.tech/issues/7525>]: added method for retrieving error text from error stanzas
- #6330 [<https://tigase.tech/issues/6330>]: fixes for AdHocCommansAsyncCallback not calling onResponseReceived() if there is no data form in the response and for ElementWrapper which failed to set GwtElement value
- #6330 [<https://tigase.tech/issues/6330>]: added event for notification about PubSub node configuration change
- #6212 [<https://tigase.tech/issues/6212>], #6232 [<https://tigase.tech/issues/6232>]: fixing issue introduced by recent changes in sending authcid and authzid during authentication
- #6212 [<https://tigase.tech/issues/6212>]: improvements to SASL implementations
- #5749 [<https://tigase.tech/issues/5749>]: fix issue with login to jabber.org, says incorrect password, even though password is correct
- #1590 [<https://tigase.tech/issues/1590>]: add support for subscription pre-approval in RosterModule and RosterItem
- #5669 [<https://tigase.tech/issues/5669>]: removed firing ErrorEvent by connectors if exception is thrown in start() method within the same thread
- #5624 [<https://tigase.tech/issues/5624>]: fixed possible lock if Jaxmpp::login() method throws an exception and login(true) was called
- #5582 [<https://tigase.tech/issues/5582>]: fixing race condition during Jaxmpp login leading to a thread being permanently locked
- #5584 [<https://tigase.tech/issues/5584>]: MAM module not being called for incoming messages
- #5588 [<https://tigase.tech/issues/5588>]: fixed issue with messages without from causing NPE in MessegeModule

- #5527 [<https://tigase.tech/issues/5527>]: added support for connection using plain SSL instead of STARTTLS
- #5529 [<https://tigase.tech/issues/5529>]: fixed handling of see-other-host in ConnectionManager for GWT
- #5318 [<https://tigase.tech/issues/5318>]: added implementation for GwtElement::removeChild() method
- #5421 [<https://tigase.tech/issues/5421>]: fixed issue with handling PONG WebSocket frames with payload
- #4961 [<https://tigase.tech/issues/4961>]: fix JaXMPP problems on Android
- #4733 [<https://tigase.tech/issues/4733>]: fixed issue with comparison of elements with XMLNS
- #4732 [<https://tigase.tech/issues/4732>]: minor fix in MessageArchiveManagementModule
- #4460 [<https://tigase.tech/issues/4460>]: fixed issue with retrieving PubSub node configuration
- #4728 [<https://tigase.tech/issues/4728>]: fix minor issue with element equals() method
- #4348 [<https://tigase.tech/issues/4348>]: fixed issues with Jaxmpp state and reconnecting
- #4348 [<https://tigase.tech/issues/4348>]: changed DEFAULT\_SOCKET\_TIMEOUT to 0 as value bigger than zero causes issues for long connections without any activity
- #4460 [<https://tigase.tech/issues/4460>]: improved usage of events with callbacks called after all handlers processed event
- #4266 [<https://tigase.tech/issues/4266>]: fixing issue with reconnection after disconnection by client
- #4505 [<https://tigase.tech/issues/4505>]: fix handling of badly encoded channel binding data
- #4398 [<https://tigase.tech/issues/4398>]: remove used JDK8 specific features which are not supported by GWT
- #4291 [<https://tigase.tech/issues/4291>]: ContactChangedPresenceEvent has show "online" for unavailable presence
- #4266 [<https://tigase.tech/issues/4266>]: fixed issue with blocking disconnection
- #4124 [<https://tigase.tech/issues/4124>]: fixed issue with support for see-other-host with WebSocket in GWT version





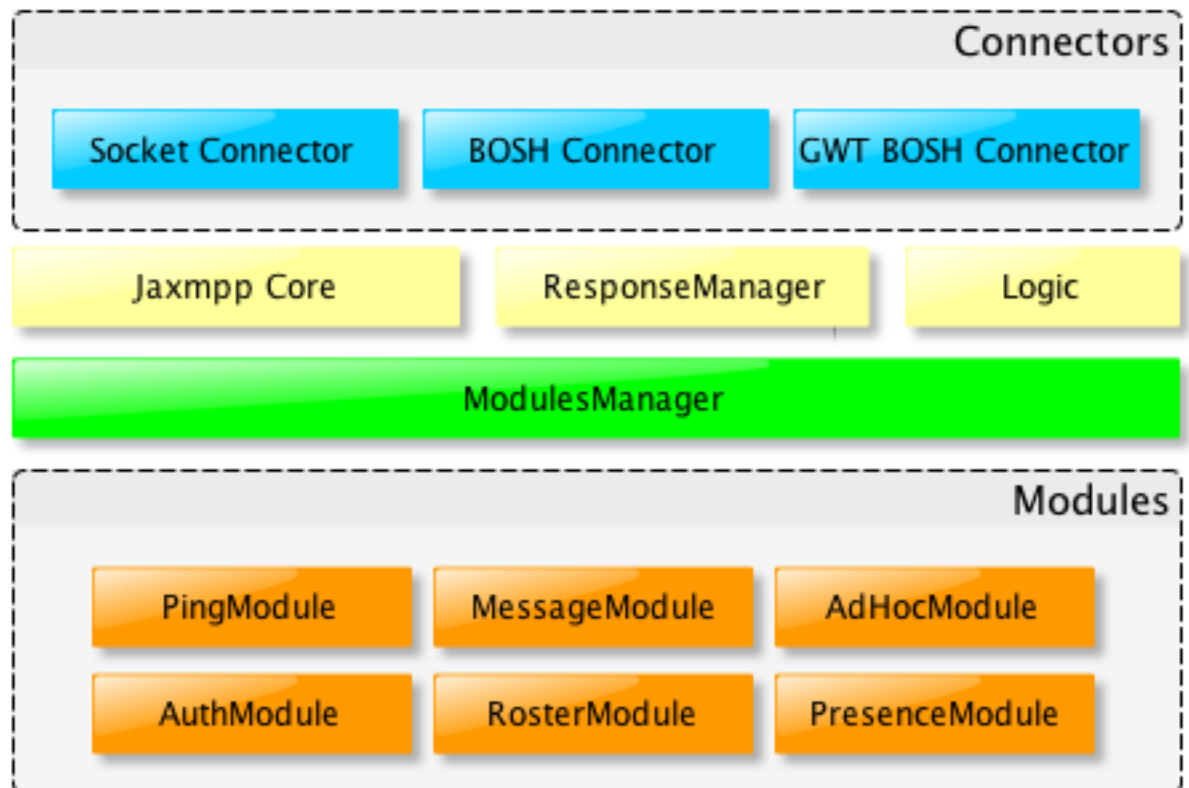
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# Chapter 3. Design and implementation

## Tigase JaXMPP

JaXMPP is an extensible XMPP client library

### Design



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# Chapter 4. Examples

## A very simple client in Groovy (sending and listening for message)

```
import tigase.jaxmpp.core.client.BareJID
import tigase.jaxmpp.core.client.JID
import tigase.jaxmpp.core.client.SessionObject
import tigase.jaxmpp.core.client.exceptions.JaxmppException
import tigase.jaxmpp.core.client.xmpp.modules.chat.Chat
import tigase.jaxmpp.core.client.xmpp.modules.chat.MessageModule
import tigase.jaxmpp.core.client.xmpp.stanzas.Message
import tigase.jaxmpp.j2se.Jaxmpp

final Jaxmpp contact = new Jaxmpp()

tigase.jaxmpp.j2se.Presence.initialize(contact);

contact.getModulesManager().register(new MessageModule());

contact.getProperties().setUserProperty(SessionObject.USER_BARE_JID, BareJID.bareJID)
contact.getProperties().setUserProperty(SessionObject.PASSWORD, "-admin")

contact.getEventBus().addHandler(MessageModule.MessageReceivedHandler.MessageReceivedHandler {
    new MessageModule.MessageReceivedHandler() {

        @Override
        public void onMessageReceived(SessionObject sessionObject, Chat chat,
            System.out.println("message: -" + stanza.getBody());
        -}
    -});

println("Logging in...");

contact.login(true)

if (contact.isConnected()) {
    contact.getModule(MessageModule.class).sendMessage(JID.jidInstance("tigase1@at

    Thread.sleep(1 * 10 * 1000)

    contact.disconnect()
}
```

## A very simple client in Groovy (direct presence + presence listen)

It sends direct presence and then listens for 10 minutes for any presence changes.

```
import tigase.jaxmpp.core.client.BareJID
import tigase.jaxmpp.core.client.JID
import tigase.jaxmpp.core.client.SessionObject
import tigase.jaxmpp.core.client.exceptions.JaxmppException
import tigase.jaxmpp.core.client.xmpp.modules.chat.MessageModule
import tigase.jaxmpp.core.client.xmpp.modules.presence.PresenceModule
import tigase.jaxmpp.core.client.xmpp.stanzas.Presence
import tigase.jaxmpp.j2se.Jaxmpp
import tigase.jaxmpp.j2se.connectors.socket.SocketConnector

final Jaxmpp contact = new Jaxmpp()

tigase.jaxmpp.j2se.Presence.initialize(contact);
tigase.jaxmpp.j2se.Roster.initialize(contact);

contact.getModulesManager().register(new MessageModule());

contact.getProperties().setUserProperty(SessionObject.USER_BARE_JID, BareJID.bareJID);
contact.getProperties().setUserProperty(SessionObject.PASSWORD, "-admin")

contact.getEventBus().addHandler(PresenceModule.ContactChangedPresenceHandler.ContactChangedPresenceHandler() {
    @Override
    void onContactChangedPresence(SessionObject sessionObject, Presence stanza, JID jid) {
        System.out.println("Presence received:\t" + jid + " is now -" + show + "-");
    }
});

println("Logging in...");

contact.login(true)

if (contact.isConnected()) {

    println("Sending direct presence")
    def presenceModule = contact.getModulesManager().getModule(PresenceModule.class)
    presenceModule.sendDirectPresence(JID.jidInstance("tigase2@atlantiscity/Psi+"))
    Thread.sleep(1 * 1000)

    println("Sending direct unavailable presence")
    presenceModule.sendDirectPresence(JID.jidInstance("tigase2@atlantiscity/Psi+"))
    Thread.sleep(1 * 1000)

    println("Waiting for the presence for 10 minutes")

    Thread.sleep(10 * 60 * 1000)

    contact.disconnect()
}
```