

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

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.

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

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

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 fields 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

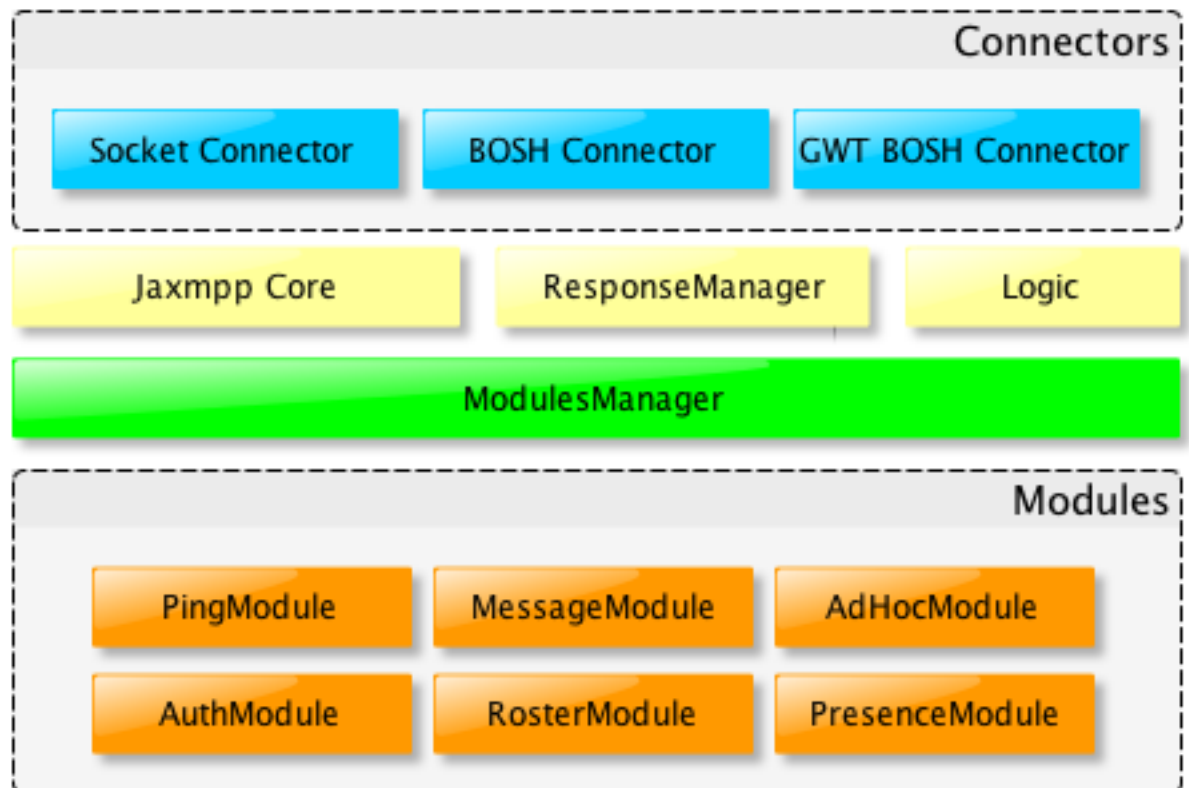


Chapter 3. Design and implementation

Tigase JaXMPP

JaXMPP is an extensible XMPP client library

Design



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 -" + stanza.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()
}
```