

Quassel IRC - Bug #1399

Quassel shows STATUSMSG messages as queries

03/10/2016 09:27 AM - arathald

Status:	Resolved	Start date:	03/10/2016
Priority:	High	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:	0.12.4	OS:	Any
Version:	0.10.0		
Description			
<p>Some IRC servers, including Freenode, support a feature called STATUSMSG that allows a user to send a message to a channel name prefixed with a status character to limit the scope of the message. For example, a message sent to @#quassel would send a message to only users with operator status in #quassel. Most clients implement this as message channels marked in some way to make it clear it was a STATUSMSG. See https://tools.ietf.org/html/draft-brocklesby-irc-isupport-03#section-3.16 (this only mentions STATUSMSG in connection with NOTICE, but Freenode implements it with PRIVMSG as well) and http://www.irc.org/tech_docs/005.html.</p> <p>Quassel, along with many other clients, are showing these messages as queries instead of channel messages. In Quassel, these messages look exactly like private queries, though they're broadcast to multiple users. I don't know precisely what the user experience on other affected clients is firsthand, though I'm led to believe they treat these messages in a way similar to Quassel.</p> <p>To save you a few minutes, I did a bit of upfront investigation: On line 41 of messageevent.cpp (https://github.com/quassel/quassel/blob/master/src/common/messageevent.cpp#L41), the message event handler looks up the channel (e.g. "+#channel") in the channel list and doesn't find it. The leading '+' is then removed on lines 43-44, lines 46-47 see "#channel" as a user mask and set _target back to sender. When the call to bufferTypeByTarget() is made, the buffer is set to query, as _target is now the sender (though Network::isChannelName() wouldn't recognize "+#channel" as a valid channel, so this would still fall through to the buffer even if _target wasn't munged).</p> <p>Because there's no other circumstance in which sending a message to "+#channel" is valid, because the server explicitly declares its support and wouldn't forward messages if this wasn't the intent, and because it's very easy to disambiguate a valid channel name from a prefixed user (i.e. "+#channel" and "+user" are easy to tell apart, especially if "#channel" must be a valid channel), both Network::ircChannel() and Network::isChannelName() should be safe and easy to modify to also recognize channels prefixed by a character specified in STATUSMSG.</p> <p>I'd also suggest that being able to tell the difference between a STATUSMSG and a regular channel message is important (for example, if an operator starts an ops-only conversation by messaging #channel, other ops should be aware of it so they can respond in kind). One approach I saw from a client while looking into this was appending the channel name (with prefix) to the sender's name, so an ops-only STATUSMESSAGE would show up in the channel as "<User:#channel> message". As I'm unfamiliar with the standards of the Quassel project, I'm merely making this as a suggestion and leaving it up to the developers to make a decision on that.</p> <p>I'm marking this as high priority because of the fairly large ability to exploit this issue with minimal effort (users were sending messages like this to hundreds of voiced users in #freenode), as well as the fact that it has been discovered and publicized on Freenode, directly in connection with Quassel, among several popular clients. As I probably don't understand the proper priority bars in this project, I wouldn't be surprised if this was inappropriate. Please feel free to reprioritize as appropriate.</p>			
Related issues:			
Related to Quassel IRC - Bug #1488: Store and display a STATUSMSG correctly		New	07/20/2018

History

#1 - 05/17/2016 10:41 PM - Sputnik

- Status changed from New to Resolved
- Target version set to 0.12.4

Fixed in 0.12.4.

#2 - 07/20/2018 12:46 PM - genius3000

- Related to Bug #1488: Store and display a STATUSMSG correctly added