## JSR-180 Maintenance Release Change Log

13/10/2004

Please send feedback to: jsr-180-comments@jcp.org

## PROPOSED changes

	Change	Reasoning
1	Add Message Sequence Chart (MSC) and/or example code snippet of the method usage: SipClientConnection.setCredentials().	It should be more specific how the SIP authentication below the API works. Now the setCredentials() method explanation is a bit vague.
2	Should say clearly that the SipClientConnection returned from the SipDialog.getNewClientConnection() is in Initialized state.  page 35	The state is not specified explicitly in the text.
3	Correct SipDialog SUBSCRIBE code example. The opened SipClientConnection is not in shared mode. Should set both From and Contact header for the initial SUBSCRIBE request.  Also correct the line scc.setHeader("Accept", "application/xpidf+xml"); to be scc.setHeader("Accept", "application/pidf+xml");	Confusion when the From and Contact header should be set by the application. From and Contact headers are never set in the code example.
4	The SipDialog state diagram indicates that the SipDialog instance is already created when INVITE/SUBSCRIBE is sent. That is not the case; it is not necessary (for API implementation) to create the SipDialog until the provisional 101-199 response is received. The state diagram is also wrong for the SUBSCRIBE case because there you do not get provisional response at all. It is directly 2xx or NOTIFY, that creates the dialog.  Proposed to add a new state Initialized which in practise is never visible to the user, but acts as a common starting point for both INVITE/SUBSCRIBE cases. The SipDialog can be fetched earliest in the Early state.  In order to help reading draw separate SipDialog state diagrams for both client and server sides.  page 33	The SipDialog state diagram is unambiguous and false for SUBSCRIBE method.

SipClientConnection.receive() cannot be Unclear how the multiple 200 OK responses are handled with the API. called after sending ACK. This prevents receiving 200 OKs from multiple end-points (forking case) and multiple re-sent 200 OKs from the same endpoint. Correct state diagram and the rules for receiving multiple 2xx responses. Enable calling receive() in Completed state. Furthermore, it should be clarified how responses from multiple endpoints are treated in the  ${\tt SipClientConnection}. \ \textbf{Essentially}$ SipClientConnection associates with latest response fetched with receive() method. Also the dialog will be always associated to the latest response received. page 16 & 22 6 Error response to INVITE: Clarification why ACK is (not) visible to the application in error response case. When error response for INVITE is received the client transaction sends automatically ACK. Now In the case where 200 OK has been sent for INVITE. on the server side this ACK is handled in the same but the ACK has not been received it should be server transaction that received original INVITE, possible to resend the 200 OK but the ACK is not given up to the TU (as a new SipServerConnection). 200 OK response to INVITE: Should be able to resend 200 OK if the ACK has not been received. Correct SipServerConnection state diagram to enable calling send() for 2xx responses in Completed state. Generally if sending response fails IOException These should be clarified in the SipServerConnection section.

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7	Rewrite server connection initialization rules. SipConnectionNotifier can be opened with following URI:	Clarify SipConnectionNotifier opening method to have more exact rules. It is assumed that applications using JSR180 would mostly use the shared identity case (where port number is omitted).
	<pre>sip:[nnnn][;type="application/x- game"]</pre>	construction of the contract o
	<pre>sip: or sips: - protocol scheme without address to indicate server mode</pre>	
	<pre>nnnn - listening port number (optional)</pre>	
	<pre>type - URI parameter specifying application identifier (optional)</pre>	
	- Port number nnnn specifies the listening port. The IOException is thrown if the port number is already in use or it cannot be opened for other reason. If the port number is given it always indicates dedicated port number for the application (not shared SIP identity mode).	
	<ul> <li>If only "sip:" scheme is given the system is selecting the port number, otherwise the case is similar as if the number was given by the application.</li> </ul>	
	<ul> <li>If application identifier is given with parameter 'type' the system listening port and the SIP identity is shared, with other applications (shared SIP identity mode).</li> </ul>	
	page 9 & 10	
8	More specific definition how incoming request messages are dispatched to applications when using shared mode server connection.	Clarify how the SIP dispatching should be done in the JSR180 implementations.
	page 9,10, 11 (SIP Identity) page 58 (Appendix A)	
9	Correct interface SipServerConnectionListener, the parameter ssc in notifyRequest() should be named scn.  page 32	This is just to avoid confusion. The type of the notifyRequest() parameter is SipConnectionNotifier not SipServerConnection.
10	Should state clearly that the	Now for example if the network is not available
	SipConnection.send() method is asynchronous. Any kind of immediate failure should throw IOException.	calling send() could throw IOException immediately.  The description of InterruptedIOException is
	The InterruptedIOException should be removed from SipConnection.send().	wrong for send(), since it does not timeout. Furthermore, this exception does not carry any extra information to the IOException. Also this exception is used with InputStream/OutputStream based
	page 12	classes.
11	Create PRACK from the SipDialog. At the moment the SipDialog does not allow that in the state diagram specification. It should be generally possible to call getNewClientConnection() in Early state	Support for RFC3262, Reliability of Provisional Responses in the Session Initiation Protocol (SIP)
	page 33	

12	Remove the InterruptedIOException from	The InterruptedIOException is used with the
	SipConnectionNotifier.acceptAndOpen().	InputStream and OutputStream based classes
		and does not give any additional information here. If
		the SipConnectionNotifier is closed for some
	page 29-30	reason the IOException should be thrown.
13	Giving SipConnectionNotifier as a	Clarify the rules for
	parameter for	SipClientConnection.initRequest(), when
	SipClientConnection.initRequest()	SipConnectionNotifier is given as a
		parameter. The SipConnectionNotifier can be
	1) In the shared mode, when creating a new	in either shared or not shared SIP identity mode. See
	request, the From and Contact headers are set	also the item 7.
	by the system (when the request is initialized).	
	Furthermore, the SIP registration is done by the	
	system automatically (e.g. when terminal is	
	started).	
	2) In not shared made, the application is	
	2) In not-shared mode, the application is responsible for setting the From and Contact	
	header (change to current specification).	
	Furthermore, the application has to do the SIP	
	registration.	
	registration.	
	page 19-20	

## ACCEPTED changes

None

## DEFERRED changes

None