

Topic	description	Status
• <input type="checkbox"/> Legend		
• <input type="checkbox"/> Test is written		
• <input type="checkbox"/> Test is not written, but supported by tfm and esrepro		
• <input type="checkbox"/> Test is not written, and is not supported by tfm/repro		
• <input type="checkbox"/> Test is written, but does not work due to lack of support		
• <input type="checkbox"/> Registrar functionality		
• <input type="checkbox"/> Authentication off		
• <input type="checkbox"/> Authentication on		
• <input type="checkbox"/> new registration scenarios	A UAC attempts to register new contacts	
• <input type="checkbox"/> Sunny day cases		
• <input type="checkbox"/> Basic register	A UAC attempts to register a single new contact	Passing
• <input type="checkbox"/> Multi register	A UAC attempts to register multiple new contacts with one request	Passing
• <input type="checkbox"/> Multi register, different expirations	A UAC attempts to register multiple new contacts with one request, with different expiries for each contact	Passing
• <input type="checkbox"/> Third party registration	A UAC attempts to register a contact that does not point to itself	Passing
• <input type="checkbox"/> Test whether registrar is paying attention to q-value		Failing (esrepro doesn't handle q-value yet)
• <input type="checkbox"/> Test if registrar is paying attention to expires parameter		Passing
• <input type="checkbox"/> V6 contacts		
• <input type="checkbox"/> sips: contact		
• <input type="checkbox"/> Protocol in contact (UDP,TCP,TLS)		
• <input type="checkbox"/> Rainy Day cases		
• <input type="checkbox"/> REGISTER/407 dropped	The auth challenge is dropped	Passing
• <input type="checkbox"/> bogus credentials	the UAC supplies bad credentials	Passing
• <input type="checkbox"/> Late digest response	The UAC waits too long to respond to the challenge (the nonce expires)	Not used
• <input type="checkbox"/> 200 OK dropped	The first REGISTER/200 does not make it to the UAC	Passing
• <input type="checkbox"/> No user in aor (in To: header)	The supplied aor (the Request-Uri) has no user	Failing
• <input type="checkbox"/> User present in Request-Uri	This is forbidden in RFC 3261, page 56	Failing
• <input type="checkbox"/> Bad characters in contact	The contact contains characters that are not allowed in a uri	
• <input type="checkbox"/> Bad characters in aor	The aor contains characters that are not allowed in a uri	
• <input type="checkbox"/> Not responsible for host in AOR	The registrar is not responsible for the aor in the To header	Failing
• <input type="checkbox"/> No such user	User part in AOR is unknown	Failing
• <input type="checkbox"/> testRegisterUnknownAorUser in estacadoTests.cxx		
• <input type="checkbox"/> Expiry too large	The register request contains an expiry value larger than $2^{32} - 1$	
• <input type="checkbox"/> Expiry too small		
• <input type="checkbox"/> Expiry malformed		
• <input type="checkbox"/> Oversize call id	The call id in the REGISTER is unreasonably large	Failing (Sip stack drops the message it seems, check this out in ethereal)
• <input type="checkbox"/> Oversize contact	The contact is unreasonably large	Failing (SipStack drops the message it seems, check this out in ethereal)
• <input type="checkbox"/> refresh type scenarios	A UAC attempts to refresh contacts	
• <input type="checkbox"/> Sunny day cases		
• <input type="checkbox"/> Basic registration update	A UAC re-registers an existing contact	Passing
• <input type="checkbox"/> Multi-registration update	A UAC re-registers a set of existing contacts	Passing
• <input type="checkbox"/> Third party	Third party refresh	Passing
• <input type="checkbox"/> q-value update		Failing (esrepro doesn't handle q-value yet)
• <input type="checkbox"/> Rainy day cases		
• <input type="checkbox"/> Expiry too large		
• <input type="checkbox"/> unregister type scenarios	A UAC attempts to unregister contacts	
• <input type="checkbox"/> Sunny day		
• <input type="checkbox"/> Basic unregister	A UAC attempts to unregister an existing contact	Passing
• <input type="checkbox"/> Multi unregister	A UAC attempts to unregister multiple existing contacts	Passing
• <input type="checkbox"/> Redundant unregister	A UAC attempts to unregister a non-existent contact	Passing
• <input type="checkbox"/> Unregister *	A UAC attempts to use * as the contact in an unregister request	Passing
• <input type="checkbox"/> Rainy day		
• <input type="checkbox"/> Unregister * with a non-zero Expires header		Passing
• <input type="checkbox"/> aor doesn't exist		Failing
• <input type="checkbox"/> fetch type scenarios	A UAC attempts to fetch contacts	
• <input type="checkbox"/> Sunny day		
• <input type="checkbox"/> Basic registration fetch	A UAC attempts to fetch the bindings of a given aor	Passing
• <input type="checkbox"/> Check whether registrations are expiring properly		Passing

Topic	description	Status
<ul style="list-style-type: none"> <li><input type="checkbox"/> Rainy day</li> </ul>		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> Aor doesn't exist</li> </ul> </li> </ul>		Failing
<ul style="list-style-type: none"> <li><input type="checkbox"/> Proxy functionality: INVITE transactions</li> </ul>		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> no auth</li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> with auth</li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> Non-forking INVITE scenarios</li> </ul> </li> </ul>	INVITE transaction with no forking	
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> Sunny day</li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> Basic INVITE</li> </ul> </li> </ul> </li> </ul>	basic INVITE transaction, (no CANCEL, BYE, etc)	Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> Basic INVITE with caller BYE</li> </ul> </li> </ul> </li> </ul>	basic INVITE transaction, followed by the caller hanging up	Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> Basic INVITE with callee BYE</li> </ul> </li> </ul> </li> </ul>	basic INVITE, where callee hangs up	Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> Basic INVITE with CANCEL</li> </ul> </li> </ul> </li> </ul>	basic INVITE, where caller CANCELS	Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> Basic INVITE, contact busy</li> </ul> </li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> Routing to sips: contact</li> </ul> </li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> TLS stuff(mtls, peers)</li> </ul> </li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li><input type="checkbox"/> Cloudy day</li> </ul>		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> spiral test for basic INVITE</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> spiral test with CANCEL</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> 200 beats CANCEL on server side</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> 200 beats CANCEL on client side</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> 4xx beats CANCEL on server side</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> 4xx beats CANCEL on client side</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> 5xx beats CANCEL on server side</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> 5xx beats CANCEL on client side</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> No contacts found</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> UAS responds with 4xx class response</li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> testInvite488Response in estacadoTests.cxx</li> </ul> </li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> testInvite480Response in estacadoTests.cxx</li> </ul> </li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> UAS responds with 5xx class response</li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> testInvite500Response in estacadoTests.cxx</li> </ul> </li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> testInvite503Response in estacadoTests.cxx</li> </ul> </li> </ul> </li> </ul>	RFC 3261 recommends that a proxy forward a 500 in this case. (Section 16.7, page 110)	Failing (503 is forwarded)
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> UAS responds with 6xx class response</li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> testInvite600Response in estacadoTests.cxx</li> </ul> </li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> testInvite603Response in estacadoTests.cxx</li> </ul> </li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> UAS spams 180s</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> bad authentication</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> Transport switch on forwarding</li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> loose/strict routing</li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> mid-dialog route change</li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> double record-route</li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> 2543 tids</li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> Recursive redirect</li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li><input type="checkbox"/> Rainy day</li> </ul>		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> 407 is dropped (retransmit of INVITE)</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> ACK/407 is dropped (retransmit of 407)</li> </ul> </li> </ul>		Failing (tfm is ACKing the wrong thing when the 407 is retransmitted)
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> INVITE is dropped on server side</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> 200 is dropped on client side</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> 1xx dropped on client side, or ignored (prompts retransmit of INVITE)</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> 1xx and 2xx dropped on client side</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> ACK dropped on server side</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> UAS does not respond (timer C test)</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> UAS spams 200s</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> UAS sends 200, then 180</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> UAC spams INVITE (fast retransmissions)</li> </ul> </li> </ul>		Not sure how to get tfm to do this properly (tfm is asserting)
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> UAC spams ACK/407s</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> UAC spams ACK/200</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> UAS does not send 487 after CANCEL/200</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> Server retransmits 4xx</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> Server retransmits 5xx</li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> testInviteServerRetransmits503 in estacadoTests.cxx</li> </ul> </li> </ul> </li> </ul>	RFC 3261 recommends that a proxy forward a 500 in this case. (Section 16.7, page 110)	Failing (503 is forwarded)
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> Server retransmits 6xx</li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> testInviteServerRetransmits603 in estacadoTests.cxx</li> </ul> </li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> No route to contact (DNS failure)</li> </ul> </li> </ul>		Passing
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> Transport down at contact</li> </ul> </li> </ul>		tfm asserts here

Topic	description	Status
<ul style="list-style-type: none"> <li><input type="checkbox"/> Client side dies after INVITE</li> <li><input type="checkbox"/> Client side dies after authenticated INVITE</li> <li><input type="checkbox"/> Server doesn't respond</li> <li><input type="checkbox"/> loop test</li> <li><input type="checkbox"/> loop test with CANCEL</li> <li><input type="checkbox"/> bad user part in From header</li> <li><input type="checkbox"/> bad host part in From header</li> <li><input type="checkbox"/> Missing To: header</li> <li><input type="checkbox"/> Missing mandatory headers</li> <li><input type="checkbox"/> Garbage characters in mandatory headers</li> <li><input type="checkbox"/> Various syntax errors</li> </ul>		Passing
		Passing
		Passing
		Passing
		Passing
		Passing
		Not using
<ul style="list-style-type: none"> <li><input type="checkbox"/> Forking INVITE scenarios</li> </ul>	INVITE transaction with forking	
<ul style="list-style-type: none"> <li><input type="checkbox"/> Sunny day</li> </ul>		
<ul style="list-style-type: none"> <li><input type="checkbox"/> Basic forking INVITE, one 200 response</li> </ul>		Passing
<ul style="list-style-type: none"> <li><input type="checkbox"/> Forking INVITE, one 200 and rest busy (486)</li> </ul>		Passing
<ul style="list-style-type: none"> <li><input type="checkbox"/> Forking INVITE, all busy</li> </ul>		Passing
<ul style="list-style-type: none"> <li><input type="checkbox"/> Forking INVITE, with CANCEL</li> </ul>		Passing
<ul style="list-style-type: none"> <li><input type="checkbox"/> Forking INVITE, caller sends BYE</li> </ul>		Passing
<ul style="list-style-type: none"> <li><input type="checkbox"/> Forking INVITE, callee sends BYE</li> </ul>		Passing
<ul style="list-style-type: none"> <li><input type="checkbox"/> Cloudy day</li> </ul>		
<ul style="list-style-type: none"> <li><input type="checkbox"/> Forking invite with a spiral (spiral is after fork)</li> </ul>		Passing
<ul style="list-style-type: none"> <li><input type="checkbox"/> Forking invite with a spiral before the fork</li> </ul>		Passing
<ul style="list-style-type: none"> <li><input type="checkbox"/> 4xx class responses (other than 486)</li> </ul>		Passing
<ul style="list-style-type: none"> <li><input type="checkbox"/> One 200, rest 4xx</li> </ul>		Passing
<ul style="list-style-type: none"> <li><input type="checkbox"/> 5xx class responses</li> </ul>		Passing
<ul style="list-style-type: none"> <li><input type="checkbox"/> One 200, rest 5xx</li> </ul>		Passing
<ul style="list-style-type: none"> <li><input type="checkbox"/> 6xx class responses</li> </ul>		Passing
<ul style="list-style-type: none"> <li><input type="checkbox"/> 6xx beats 200</li> </ul>	200 should be forwarded and not the 6xx	Passing
<ul style="list-style-type: none"> <li><input type="checkbox"/> 200 beats 6xx</li> </ul>		Passing
<ul style="list-style-type: none"> <li><input type="checkbox"/> 5xx and 4xx mixed</li> </ul>		Passing
<ul style="list-style-type: none"> <li><input type="checkbox"/> 6xx, 5xx, 4xx mixed</li> </ul>		Passing
<ul style="list-style-type: none"> <li><input type="checkbox"/> Fork merges (ie, both ends of fork are directed at the same UAC)</li> </ul>		Passing
<ul style="list-style-type: none"> <li><input type="checkbox"/> All contacts answer, without ringing</li> </ul>		Failing (tfm seems to be screwing up the ack/200s by sending them all to the same contact, instead of one for each 200)
<ul style="list-style-type: none"> <li><input type="checkbox"/> Rainy day</li> </ul>		
<ul style="list-style-type: none"> <li><input type="checkbox"/> INVITE/200 dropped on client side</li> </ul>		
<ul style="list-style-type: none"> <li><input type="checkbox"/> Loop on one leg of fork</li> </ul>		
<ul style="list-style-type: none"> <li><input type="checkbox"/> All contacts time out (Timer C)</li> </ul>		
<ul style="list-style-type: none"> <li><input type="checkbox"/> Forking spiral</li> </ul>	Can tfm handle this?	
<ul style="list-style-type: none"> <li><input type="checkbox"/> Proxy functionality: non-INVITE transactions</li> </ul>		
<ul style="list-style-type: none"> <li><input type="checkbox"/> no auth</li> </ul>		
<ul style="list-style-type: none"> <li><input type="checkbox"/> Sunny day</li> </ul>		
<ul style="list-style-type: none"> <li><input type="checkbox"/> Cloudy day</li> </ul>		
<ul style="list-style-type: none"> <li><input type="checkbox"/> Rainy day</li> </ul>		
<ul style="list-style-type: none"> <li><input type="checkbox"/> with auth</li> </ul>		
<ul style="list-style-type: none"> <li><input type="checkbox"/> Sunny day</li> </ul>		
<ul style="list-style-type: none"> <li><input type="checkbox"/> Cloudy day</li> </ul>		
<ul style="list-style-type: none"> <li><input type="checkbox"/> Rainy day</li> </ul>		