Section	SubSection	Page	No.	Description	Statu
4		6	1	However, 1800 seconds (30minutes) is RECOMMENDED as the value for the Session-Expires header field.	R
4		6	2	In other words, SIP entities MUST be prepared to handle Session-Expires header field values of any duration greater than 90 seconds, but entities that insert the Session-Expires header field SHOULD NOT choose values of less than 30 minutes.	M
4		6	3		S
4		7	4	However, the 30 minute minimum is listed as a SHOULD, and not as a MUST, since the exact value for this number is dependent on many network factors, including network bandwidths and latencies, computing power, memory availability, network topology, and, of course, the application scenario.	S
		7	5		M

Section	SubSection	Page	No.	Description	Statu
5		8	1	When present in a request or response, its value MUST NOT be less than 90 seconds.	M
5		8	2	The Min-SE header field MUST NOT be used in responses except for those with a 422 response code.	M

Section	SubSection	Page	No.	Description	Statu
6		8	1	The 422 response MUST contain a Min-SE header field with the minimum timer	M
				for that server.	

Section	SubSection	Page		Description	Statu
7	7.1	9	1	A UAC that supports the session timer extension defined here MUST include a Supported header field in each request (except ACK), listing the option tag 'timer' [2].	M
7	7.1	9	2	It MUST do so even if the UAC is not requesting usage of the session timer for this session.	M
7	7.1	9	3	However, usage of either Require or Proxy-Require by the UAC is NOT RECOMMENDED .	R
7	7.1	9	4	The Supported header field containing 'timer'MUST still be included, even if the Require or Proxy-Require header fields are present containing 'timer'.	M
7	7.1	9	5	If a Min-SE header is included in the initial session refresh request, the value of the Session-Expires MUST be greater than or equal to the value in Min-SE.	M
7	7.1	9	6	However, it is RECOMMENDED that the parameter be omitted so that it can be selected by the negotiation mechanisms described below.	R
7	7.2	10	7	If it does, the UAC MUST look for the Session-Expires header field to process the response.	M
7	7.2	10	8	UACs MUST be prepared to receive a Session-Expires header field in a response, even if none were present in the request.	M
7	7.2	10	9	The UAC MUST set the identity of the refresher to the value of this parameter.	M

Section	SubSection	Page	No.	Description	Statu
7	7.2	10	10	If the UA seeks to continue with the session beyond the session expiration, it MUST generate a refresh before the session expiration.	М
7	7.2	11	11	It is RECOMMENDED that this refresh be sent once half the session interval has elapsed.	R
7	7.3	11	12	This new request constitutes a new transaction and SHOULD have the same value as the Call-ID, To, and From of the previous request, but the CSeq should contain a new sequence number that is one higher than the previous.	S
7	7.4	11	13	The values of Supported, Require, and Proxy-Require used in the initial Session refresh request MUST be used.	hΜ
7	7.4	14	14	The UAC MUST insert the Min-SE header field into a session refresh request fo a particular dialog if it has ever received a 422 response to a previous session refresh request on the same dialog, or if it has received a session refresh request on that dialog that contained a Min-SE header field.	пМ
7	7.4	11	15	Similarly, if no dialog has been established yet, a UACMUST insert the Min-SE header field into an INVITE request if it has ever received a 422 response to a previous INVITE request with the same Call-ID.	M
7	7.4	11	16	The value of the Min-SE header field present in a session refresh reques MUST be the largest value among all Min-SE header field values returned in all 422 responses or received in session refresh requests, on the same dialog, if a dialog has been established.	M
7	7.4	12	17	In a session refresh request sent within a dialog with an active session timer, th Session-Expires header fieldSHOULD be present.	£
7	7.4	12	18	When present, it SHOULD be equal to the maximum of the Min-SE header field (recall that its default value when not present is 90 seconds) and the current session interval.	S

Section	SubSection	Page	No.	Description	Statu
7	7.4			As such, a UA should only ignore the SHOULD in unusual and singular cases where it is desirable to change the session interval mid-dialog.	S
7	7.4	12	20	If the session refresh request is not the initial one, it isRECOMMENDED that the refresher parameter be set to 'uac' if the element sending the request is currently performing refreshes, and to 'uas' if its peer is performing the refreshes.	R
7	7.4	12	21	If a UAC knows that its peer supports the UPDATE method, it is RECOMMENDED that UPDATE be used instead of a re-INVITE.	R
7	7.4	12	22	It is RECOMMENDED that the UPDATE request not contain an offer [4], but a re-INVITE SHOULD contain one, even if the details of the session have not changed.	R
7	7.4	12	23		S
7	7.4	12	24	In that case, the offer MUST indicate that it has not changed.	M
7	7.4	12	25	The same is true for an answer exchanged as a result of a session refresh request; if it has not changed, that MUST be indicated.	M

Section	SubSection	Page I	No.	Description	Statu
8	8.1			Stateless proxies MUST NOT attempt to request session timers.	M
8	8.1	12	2	Proxies that ask for session timers SHOULD record-route, as they won't receive refreshes if they don't.	S
8	8.1	13	3	The proxy MUST NOT include a refresher parameter in the header field value.	M
8	8.1	13	4	If the request already had a Session-Expires header field, the proxy MAY reducits value but MUST NOT set it to a duration lower than the value in the Min-SE header field in the request, if it is present.	eM I
8	8.1	13	5	If the value of the Session-Expires header field is greater than or equal to the value in the Min-SE header field (recall that the default is 90 seconds when the Min-SE header field is not present), the proxyMUST NOT increase the value of the Session-Expires header field.	
8	8.1	13	6	If the value of the Session-Expires header field is lower than the value of the Min-SE header field (possibly because the proxy increased the value of the Min SE header field, as described below), the proxyMUST increase the value of the Session-Expires header field to make it equal to Min-SE header field value.	
8	8.1	13	7	The proxy MUST NOT insert or modify the value of the 'refresher' parameter in the Session-Expires header field.	M
8	8.1	13	8	When sending the 422 response, the proxyMUST include a Min-SE header field with the value of its minimum interval.	М
8	8.1	13	9	That minimum MUST NOT be lower than 90 seconds.	M

Section	SubSection	Page		Description	Statu
8	8.1	13	10	Rather, the proxy SHOULD insert a Min-SE header field containing its minimum interval.	S
8	8.1	13	11	If a Min-SE header field is already present, the proxySHOULD increase (but MUST NOT decrease) the value to its minimum interval.	S
8	8.1	13	12		M
8	8.1	13 14	13	The proxy MUST then increase the Session-Expires header field value to be equal to the value in the Min-SE header field, as described above.	M
8	8.1	14	14	A proxy MUST NOT insert a Min-SE header field or modify the value of an existing header field in a proxied request if that request contains a Supported header field with the value 'timer'.	M
8	8.1	14	15	Assuming that the proxy has requested a session timer (and thus has possibly inserted the Session-Expires header field or reduced it), the proxyMUST remember that it is using a session timer, and also remember the value of the Session-Expires header field from the proxied request.	M
8	8.1	14	16	This MUST be remembered for the duration of the transaction.	M
8	8.1	14	17	The proxy MUST remember, for the duration of the transaction, whether the request contained the Supported header field with the value 'timer'.	M
8	8.1	14	18	However, this is NOTRECOMMENDED . This allows the proxy to insist on a session timer for the session.	R

Section	SubSection	Page	No.	Description	Statu
8	8.2				М
8	8.2	14	20	It MUST set the value of the 'refresher' parameter to 'uac'.	М
8	8.2	14,15	21	The proxy MUST add the 'timer' option tag to any Require header field in the response, and if none was present, add the Require header field with that value before forwarding it upstream.	М
8	8.2	15	22	This session expiration MUST update any existing session expiration for the session.	М
8	8.2	15	23	The proxy MUST NOT modify the value of the Session-Expires header field received in the response (assuming one was present) before forwarding it upstream.	М
8	8.3	15	24	Unlike the UA, it MUST NOT send a BYE.	М

Section	SubSection	Page		Description	Statu
9		15		When sending the 422 response, the UASMUST include a Min-SE header field with the value of its minimum interval.	M
9		15	2	This minimum interval MUST NOT be lower than 90 seconds.	M
9		16	3	The UAS response MAY reduce its value butMUST NOT set it to a duration lower than the value in the Min-SE header field in the request, if it is present; otherwise the UAS MAY reduce its value butMUST NOT set it to a duration lower than 90 seconds.	M
9		16	4		M
9		16	5	The UAS MUST NOT increase the value of the Session-Expires header field.	M
9		16	6	The value MUST NOT be set to a duration lower than the value in the Min-SE header field in the request, if it is present.	M
9		16	7	The UAS MUST set the value of the refresher parameter in the Session-Expires header field in the 2xx response.	M
9		16	8	If the refresher parameter in the Session-Expires header field in the 2xx response has a value of 'uac', the UASMUST place a Require header field into the response with the value 'timer'.	M
9		17	9	If the refresher parameter in the 2xx response has a value of 'uas' and the Supported header field in the request contained the value 'timer', the UAS SHOULD place a Require header field into the response with the value 'timer'.	S

Section	SubSection	Page	No.	Description	Statu
9		17		Since the call will still succeed without the UAC sending a BYE, insertion of the Require is a SHOULD here, and not a MUST .	S
		17	11		M
9		17	12	If UA wishes to continue with the session beyond the session expiration, it MUST generate a refresh before the session expiration.	М
9		17	13	It is RECOMMENDED that this refresh be sent once half the session interval has elapsed.	R

Section	SubSection	Page	No.	Description	Statu
10		17,18	1	If the session refresh request does not generate a 2xx response (and, as a result, the session is not refreshed), and a response other than 408 or 481 is received, the UAC SHOULD follow the rules specific to that response code and retry if possible.	Ø
10		18	2	However, the UAC SHOULD NOT continuously retry the request if the server indicates the same error response.	S
10		18	3	Similarly, if the side not performing refreshes does not receive a session refresh request before the session expiration, it SHOULD send a BYE to terminate the session, slightly before the session expiration.	S
10		18	4	The minimum of 32 seconds and one third of the session interval is RECOMMENDED .	R

Section	SubSection	Page	No.	Description	Statu
11	11.2	19	1	As a result, it is RECOMMENDED that an element send a request with a Session-Expires header field or a Supported header field with the value 'timer' by using TLS.	R
11	11.2	19	2	As adequate protection is obtained only if security is applied on each hop, it is RECOMMENDED that the SIPS URI scheme be used in conjunction with this extension.	R
11	11.2	19	3	This means that proxies that record-route and request session timerSHOULD record-route with a SIPS URI.	S
11	11.2	19	4	A UA that inserts a Session-Expires header into a request or response SHOULD include a Contact URI that is a SIPS URI.	S