

SIP response codes

Manual for system operators

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3 SIP response codes

The SIP status codes are defined as follows (Source: Wikipedia, based on RFC 3261, supplemented by additional RFCs, broken down by the IANA) as follows.

3.1 1xx - Provisional

Preliminary information indicates that the server is still carrying out several other actions and therefore still can not send a final answer.

Code	Message	Meaning
100	Trying	An attempt is made to transfer the call.
180	Ringing	An attempt is made to ring the called party.
181	Call Is Being Forwarded	The call is forwarded.
182	Queued	The call is queued.
183	Session Progress	The connection is established.

3.2 2xx - Successful

The request was successful.

Code	Message	Meaning
200	OK	The request has been successfully processed and the result of the request is transmitted in the response.
202	Accepted	The request has been accepted, but is executed at a later time.

Code	Message	Meaning
204	No Notification	The inquiry was successfully carried out, the appropriate response is aware but not sent.

3.3 3xx – Redirection

These messages inform you of a new contact address of the called party, or other services that make it possible successfully establish the connection.

Code	Message	Meaning
300	Multiple Choices	For the remote site, there is no unique destination address.
301	Moved Permanently	The called party is permanently accessible elsewhere.
302	Moved Temporarily	The called party is temporarily accessible elsewhere.
305	Use Proxy	The specified proxy must be used.
380	Alternative Service	The call was not successful, but there are alternative services available.

3.4 4xx – Request Failures

Request Failures are negative feedbacks. The previous message could not be processed.

Code	Message	Meaning
400	Bad Request	The SIP request is faulty.
401	Unauthorized	The authorization is faulty.

Code	Message	Meaning
402	Payment Required	Not yet defined; provided for "non sufficient funds available".
403	Use Forbidden	The request was inadmissible.
404	Not Found	The user can not be found or does not exist.
405	Method Not Allowed	The method of the request (for example, SUBSCRIBE or NOTIFY) is not allowed.
406	Not Acceptable	The options of the call are not permitted.
407	Proxy Authentication Required	The proxy requires authorization.
408	Request Timeout	Timeout - The server could not produce a response within a suitable amount of time.
410	Gone	The user existed once, but is not available here any more.
412	Conditional Request Failed	The given precondition has not been met because a required request failed.
413	Request Entity Too Large	Request body too large.
414	Request URI Too Long	The server is refusing to service the request because the Request-URI is longer than the server is willing to interpret.
415	Unsupported Media Type	Request body in a format not supported.
416	Unsupported URI Scheme	Request-URI is unknown to the server.
417	Unknown Resource-Priority	There was a resource-priority option tag, but no Resource-Priority header.
420	Bad Extension	Bad SIP Protocol Extension used, not understood by the server.

Code	Message	Meaning
421	Extension Required	The server needs a specific extension not listed in the supported header
422	Session Interval Too Small	The received request contains a session-expires header field with a duration below the minimum timer
423	Interval Too Brief	Expiration time of the resource is too short.
428	Use Identity Header	The server policy requires an Identity header, and one has not been provided.
429	Provide Referrer Identity	The server did not receive a valid Referred-By token on the request.
430	Flow Failed	A specific flow to a user agent has failed, although other flows may succeed. This response is intended for use between proxy devices, and should not be seen by an endpoint (and if it is seen by one, should be treated as a 400 Bad Request response).
433	Anonymity Disallowed	The request has been rejected because it was anonymous.
436	Bad Identity-Info	The request has an Identity-Info header, and the URI scheme in that header cannot be dereferenced.
437	Unsupported Certificate	The server was unable to validate a certificate for the domain that signed the request.
438	Invalid Identity Header	The server obtained a valid certificate that the request claimed was used to sign the request, but was unable to verify that signature.

Code	Message	Meaning
439	First Hop Lacks Outbound Support	The first outbound proxy the user is attempting to register through does not support the "outbound" feature of RFC 5626, although the registrar does.
440	Max-Breadth Exceeded	No concurrent forks can be deduced from the request.
469	Bad Info PackageBad Info Package	Inappropriate Information Package - transmission errors, resend.
470	Consent NeededConsent Needed	The source of the request did not have the permission of the recipient to make such a request.
480	Temporarily Unavailable	Callee currently unavailable.
481	Call/Transaction Does Not Exist	Server received a request that does not match any dialog or transaction.
482	Loop Detected	Server has detected a loop.
483	Too Many Hops	Max-Forwards header has reached the value '0'.]
484	Address Incomplete	Request-URI incomplete.
485	Ambiguous	Request-URI is ambiguous.
486	Busy Here	Callee is busy.
487	Request Terminated	Request has terminated by bye or cancel.
488	Not Acceptable Here	Some aspect of the session description or the Request-URI is not acceptable.
489	Bad Event	The server did not understand an event package specified in an Event header field.
491	Request Pending	Server has some pending request from the same dialog.
493	Undecipherable	Request contains an encrypted MIME body, which recipient can not decrypt.

Code	Message	Meaning
494	Security Agreement Required	The server has received a request that requires a negotiated security mechanism, and the response contains a list of suitable security mechanisms for the requester to choose between, or a digest authentication challenge.

3.5 5xx – Server Failures

A participant in the delivery server was unable to process a message.

Code	Message	Meaning
500	Server Internal Error	The server could not fulfill the request due to some unexpected condition.
501	Not Implemented	The server does not have the ability to fulfill the request, such as because it does not recognize the request method.
502	Bad Gateway	The server is acting as a gateway or proxy, and received an invalid response from a downstream server while attempting to fulfill the request.
503	Service Unavailable	The server is undergoing maintenance or is temporarily overloaded and so cannot process the request.
504	Server Time-out	The server attempted to access another server in attempting to process the request, and did not receive a prompt response.
505	Version Not Supported	The SIP protocol version in the request is not supported by the server.

Code	Message	Meaning
513	Message Too Large	The request message length is longer than the server can process.
580	Precondition Failure	The server is unable or unwilling to meet some constraints specified in the offer.

3.6 6xx – Global Failures

General error: The server was indeed contacted successfully, but the transaction is not concluded.

Code	Message	Meaning
600	Busy Everywhere	All possible destinations are busy.
603	Declined	The destination does not wish to participate in the call, or cannot do so, and additionally the destination knows there are no alternative destinations (such as a voicemail server) willing to accept the call.
604	Does Not Exist Anywhere	The server has authoritative information that the requested user does not exist anywhere.
606	Not Acceptable	The user's agent was contacted successfully but some aspects of the session description such as the requested media, bandwidth, or addressing style were not acceptable.

3.7 7xx – SIP stack error codes

Code	Message	Meaning
701	Party Hangs Up	The called party has hung up.