

SIP-Status-Codes

The **Session Initiation Protocol (SIP)** is a signalling protocol used for controlling communication sessions such as **Voice over IP** telephone calls. SIP is based around request/response transactions, in a similar manner to the Hypertext Transfer Protocol (HTTP). Each transaction consists of a SIP request (which will be one of several request methods), and at least one response.

SIP requests and responses may be generated by any SIP user agent; user agents are divided into clients (UACs), which initiate requests, and servers (UASes), which respond to them. A single user agent may act as both UAC and UAS for different transactions: for example, a **SIP** phone is a user agent that will be a UAC when making a call, and a UAS when receiving one. Additionally, some devices will act as both UAC and UAS for a single transaction; these are called **Back-to-Back User Agents (B2BUAs)**.

SIP responses specify a three-digit integer response code, which is one of a number of defined codes that detail the status of the request. These codes are grouped according to their first digit as "provisional", "success", "redirection", "client error", "server error" or "global failure" codes, corresponding to a first digit of 1–6; these are expressed as, for example, "1xx" for provisional responses with a code of 100–199. The SIP response codes are consistent with the HTTP response codes, although not all HTTP response codes are valid in **SIP**.

SIP responses also specify a "reason phrase", and a default reason phrase is defined with each response code. These reason phrases can be varied, however, such as to provide additional information ^[1]:§21.4.18 or to provide the text in a different language.

The SIP response codes and corresponding reason phrases were initially defined in RFC 3261. That RFC also defines a SIP Parameters Internet Assigned Numbers Authority (IANA) registry to allow other RFC to provide more response codes.

This list includes all the SIP response codes defined in IETF RFCs and registered in the SIP Parameters IANA registry as of 14 July 2017. This list also includes SIP response codes defined in obsolete SIP RFCs (specifically, RFC 2543), which are therefore not registered with the IANA; these are explicitly noted as such.



List of SIP status codes

1xx – Provisional

- Preliminary information that the server is still performing further actions and therefore cannot yet send a final response.

2xx – Successful

- The request was successful.

3xx – Redirection

- These messages inform about a new contact address of the called party or about other services that enable the connection to be established successfully.

4xx – Request Failures

- Request failures are negative confirmations. The previous message could not be processed.

5xx – Server Failures

- A server involved in the transmission could not process a message.

6xx – Global Failures

General errors: The server has been contacted successfully, but the transaction does not take place.

7xx – Fehlercodes des SIP-Stacks

Code	Nachricht	Bedeutung
100	Trying	An attempt is made to transfer the call.
180	Ringing	An attempt is made to ring from the called party.
181	Call Is Being Forwarded	The call is forwarded.
182	Queued	The call is on hold.
183	Session Progress	The connection is established.
199	Early Dialog Terminated	The dialog was closed during connection setup.
Code	Nachricht	Bedeutung
200	OK	The request has been processed successfully and the result of the request is transferred in the response.

202	Accepted	The request has been accepted, but will be executed at a later time.
204	No Notification	The request was executed successfully, but the corresponding response is deliberately not sent.
Code	Nachricht	Bedeutung
300	Multiple Choices	There is no unique destination address for the remote terminal.
301	Moved Permanently	The called party is permanently reachable somewhere else.
302	Moved Temporarily	The called party is temporarily reachable somewhere else.
305	Use Proxy	The specified proxy must be used.
380	Alternative Service	The call was not successful, but alternative services are available.

Code	Nachricht	Bedeutung
400	Bad Request	The SIP request is incorrect.
401	Unauthorized	The authorization is incorrect.
402	Payment Required	Not yet defined; intended for "not enough credit available".
403	Forbidden	The request was invalid.
404	Not Found	The remote terminal was not 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 call options are not allowed.
407	Proxy Authentication Required	The proxy needs authorization.
408	Request Timeout	Timeout - The remote peer does not respond within a reasonable time.
410	Gone	The desired subscriber can no longer be reached at the specified address.
412	Conditional Request Failed	The prerequisites for processing the request could not be met because a request required for this failed.
413	Request Entity Too Large	The message content is too large.
414	Request URI Too Long	The SIP address (URI) of the request is too long.
415	Unsupported Media Type	The codec is not supported.
416	Unsupported URI Scheme	The SIP address is incorrect.
417	Unknown Resource-Priority	The request should be treated with a certain priority, but the server does not understand the details.
420	Bad Extension	The server does not understand a protocol extension.
421	Extension Required	The server needs a protocol extension.
422	Session Interval Too Small	The Session Expires value is too low for the server.
423	Interval Too Brief	The value of the desired machining time is too short.
428	Use Identity Header	The identity header is missing.
429	Provide Referrer Identity	No valid <i>referred by token</i> is specified.
430	Flow Failed	The particular routing failed (proxy internal, endpoints should treat the response like code 400).
433	Anonymity Disallowed	The server refuses to process anonymous requests.
436	Bad Identity-Info	The SIP address contained in the identity header is invalid, unavailable, or not supported.
437	Unsupported Certificate	The <i>verifier</i> cannot verify the certificate in the <i>identity</i> header.
438	Invalid Identity Header	The certificate in the <i>identity</i> header is invalid.

439	First Hop Lacks Outbound Support	The registrar supports outbound feature, but the proxy used does not.
440	Max-Breadth Exceeded	It is no longer possible to derive concurrent forks from the query.
469	Bad Info Package	Unsuitable Info-Package - Transmission error, resend.
470	Consent Needed	The server has no access rights to at least one of the specified SIP addresses.
480	Temporarily Unavailable	The called party is currently not reachable.
481	Call/Transaction Does Not Exist	This connection does not exist (anymore).
482	Loop Detected	A forwarding loop has been detected.
483	Too Many Hops	Too many forwarding steps were identified.
484	Address Incomplete	The SIP address is incomplete.
485	Ambiguous	The SIP address cannot be uniquely resolved.
486	Busy Here	The called party is busy.
487	Request Terminated	The call attempt was aborted.
488	Not Acceptable Here	Illegal call attempt.
489	Bad Event	The server does not know the specified event.
491	Request Pending	A request from the same dialog is still being processed.
493	Undecipherable	The request contains an encrypted MIME body that the recipient cannot decrypt.
494	Security Agreement Required	The request requires a security agreement, but does not include a security mechanism supported by the server.

Code	Nachricht	Bedeutung
500	Server Internal Error	Internal server error.
501	Not Implemented	The server does not support the SIP request.
502	Bad Gateway	The gateway in the SIP request is corrupted.
503	Service Unavailable	The server's SIP service is temporarily unavailable.
504	Server Time-out	The server cannot reach another server in a reasonable time.
505	Version Not Supported	The SIP protocol version is not supported by the server.
513	Message Too Large	The SIP message is too large for UDP; TCP must be used.
580	Precondition Failure	The server cannot or does not want to meet the requirements for processing the request.
Code	Nachricht	Bedeutung
600	Busy Everywhere	All terminal devices of the called subscriber are occupied.
603	Declined	The called party has rejected the call attempt.
604	Does Not Exist Anywhere	The called party no longer exists.
606	Not Acceptable	The terminal device of the called party rejects the SIP request as invalid.
Code	Nachricht	Bedeutung
701	Party Hangs Up	The called party has hung up.

Related Links:

- [ADPCM - Adaptive Differential Pulse Code Modulation](#)
- [B2BUA - Back-to-Back-User-Agent](#)
- [Codec](#)

- CSTA - Computer-supported telecommunications applications
- CTI - Computer Telephony Integration
- ENUM - Telephone Number Mapping
- Hot Desking
- IP-PBX
- IVR - Interactive Voice Response
- Jitter
- LLDP - Link Layer Discovery Protocol
- PBX - Private Branch Exchange
- PoP - Point of Presence
- RTP - Real-Time Transport Protocol
- SBC - Session Border Controller