Session tokens

REST API endpoint to generate ephemeral session tokens for use in client-side applications.

Create session

```
POST https://api.openai.c
om/v1/realtime/sessi
ons
```

Create an ephemeral API token for use in client-side applications with the Realtime API. Can be configured with the same session parameters as the session.update client event.

It responds with a session object, plus a client_secret key which contains a usable ephemeral API token that can be used to authenticate browser clients for the Realtime API.

Request body

modalities Optional
The set of modalities the model
can respond with. To disable audio,
set this to ["text"].

```
curl -X POST https://api.openai.com/v1/realtime
curl -X POST https://api.openai.com/v1/realtime
-H "Authorization: Bearer $OPENAI_API_KEY" \
-H "Content-Type: application/json" \
-d '{
    "model": "gpt-4o-realtime-preview-2024-12-1
    "modalities": ["audio", "text"],
    "instructions": "You are a friendly assistant
}'
```

```
币
Response
     "id": "sess_001",
     "object": "realtime.session",
     "model": "gpt-4o-realtime-preview-2024-12-1"
     "modalities": ["audio", "text"],
     "instructions": "You are a friendly assistant
     "voice": "alloy",
     "input_audio_format": "pcm16",
     "output_audio_format": "pcm16",
     "input_audio_transcription": {
         "model": "whisper-1"
     },
     "turn_detection": null,
     "tools": [],
     "tool choice": "none",
     "temperature": 0.7,
     "max_response_output_tokens": 200,
```

model string Optional
The Realtime model used for this
session.

instructions string Optional The default system instructions (i.e. system message) prepended to model calls. This field allows the client to guide the model on desired responses. The model can be instructed on response content and format, (e.g. "be extremely succinct", "act friendly", "here are examples of good responses") and on audio behavior (e.g. "talk quickly", "inject emotion into your voice", "laugh frequently"). The instructions are not guaranteed to be followed by the model, but they provide guidance to the model on the desired behavior.

Note that the server sets default instructions which will be used if this field is not set and are visible in the session.created event at the start of the session.

voice string Optional

The voice the model uses to respond. Voice cannot be changed during the session once the model has responded with audio at least once. Current voice options are

```
alloy, ash, ballad, coral, echo sage, shimmer and verse.
```

input_audio_format string
 Optional

```
"client_secret": {
    "value": "ek_abc123",
    "expires_at": 1234567890
    }
  }
```

The format of input audio. Options are pcm16, g711_ulaw, or g711_alaw. For pcm16, input audio must be 16-bit PCM at a 24kHz sample rate, single channel (mono), and little-endian byte order.

output_audio_format string
Optional
The format of output audio.
Options are pcm16,
g711_ulaw, or g711_alaw.
For pcm16, output audio is
sampled at a rate of 24kHz.

input_audio_transcription

object Optional

Configuration for input audio
transcription, defaults to off and
can be set to null to turn off
once on. Input audio transcription
is not native to the model, since the
model consumes audio directly.
Transcription runs asynchronously
through OpenAl Whisper
transcription and should be treated

as rough guidance rather than the representation understood by the model. The client can optionally set the language and prompt for transcription, these fields will be passed to the Whisper API.

✓ Show properties

turn_detection object Optional Configuration for turn detection.
Can be set to null to turn off.
Server VAD means that the model will detect the start and end of

speech based on audio volume and respond at the end of user speech.

∨ Show properties

tools array Optional
Tools (functions) available to the
model.

∨ Show properties

tool_choice string Optional
How the model chooses tools.
Options are auto, none,
required, or specify a function.

temperature number Optional Sampling temperature for the model, limited to [0.6, 1.2]. Defaults to 0.8.

max_response_output_tokens

integer or "inf" Optional

Maximum number of output tokens
for a single assistant response,
inclusive of tool calls. Provide an
integer between 1 and 4096 to limit
output tokens, or inf for the
maximum available tokens for a
given model. Defaults to inf.

Returns

The created Realtime session object, plus an ephemeral key

The session object

A new Realtime session configuration, with an ephermeral key. Default TTL for keys is one minute.

modalities

The set of modalities the model can respond with. To disable audio, set this to ["text"].

instructions string

The default system instructions (i.e. system message) prepended to model calls. This field allows the client to guide the model on desired responses. The model can be instructed on response content and format, (e.g. "be extremely succinct", "act friendly", "here are examples of good responses") and on audio behavior (e.g. "talk quickly", "inject emotion into your voice", "laugh frequently"). The instructions are not guaranteed to be followed by the model, but they provide guidance to the model on the desired behavior.

Note that the server sets default instructions which will be used if this field is not set and are visible in the session.created event at

```
OBJECT The session object
                                              D
   {
      "id": "sess_001",
      "object": "realtime.session",
      "model": "gpt-4o-realtime-preview-2024-12-1
      "modalities": ["audio", "text"],
      "instructions": "You are a friendly assistant
      "voice": "alloy",
      "input_audio_format": "pcm16",
      "output_audio_format": "pcm16",
      "input audio transcription": {
          "model": "whisper-1"
     },
     "turn detection": null,
     "tools": [],
     "tool_choice": "none",
     "temperature": 0.7,
     "max_response_output_tokens": 200,
     "client_secret": {
        "value": "ek abc123",
        "expires_at": 1234567890
     }
22 }
```

the start of the session.

voice string

The voice the model uses to respond. Voice cannot be changed during the session once the model has responded with audio at least once. Current voice options are

```
alloy, ash, ballad, coral, echo sage, shimmer and verse.
```

input_audio_format string The format of input audio. Options are pcm16, g711_ulaw, or g711 alaw.

output_audio_format string
The format of output audio.
Options are pcm16,
g711_ulaw, or g711_alaw.

input_audio_transcription object

Configuration for input audio transcription, defaults to off and can be set to null to turn off once on. Input audio transcription is not native to the model, since the model consumes audio directly. Transcription runs asynchronously through Whisper and should be treated as rough guidance rather than the representation understood by the model.

✓ Show properties

turn_detection object Configuration for turn detection.

Can be set to null to turn off.

Server VAD means that the model will detect the start and end of speech based on audio volume and respond at the end of user speech.

∨ Show properties

tools array

Tools (functions) available to the model.

✓ Show properties

tool_choice string

How the model chooses tools.

Options are auto, none, required, or specify a function.

temperature number

Sampling temperature for the model, limited to [0.6, 1.2]. Defaults to 0.8.

max_response_output_tokens

integer or "inf"

Maximum number of output tokens for a single assistant response, inclusive of tool calls. Provide an integer between 1 and 4096 to limit output tokens, or inf for the maximum available tokens for a given model. Defaults to inf.

Client events

These are events that the OpenAl Realtime WebSocket server will accept from the client.

session.update

Send this event to update the session's default configuration. The client may send this event at any time to update the session configuration, and any field may be updated at any time, except for "voice". The server will respond with a session.updated event that shows the full effective configuration. Only fields that are present are updated, thus the correct way to clear a field like "instructions" is to pass an empty string.

event_id string
Optional client-generated ID
used to identify this event.

type string
The event type, must be
session.update.

session object Realtime session object configuration.

∨ Show properties

```
OBJECT session.update
                                              币
   {
       "event id": "event 123",
       "type": "session.update",
       "session": {
            "modalities": ["text", "audio"],
            "instructions": "You are a helpful as
            "voice": "sage",
            "input_audio_format": "pcm16",
            "output_audio_format": "pcm16",
            "input_audio_transcription": {
                "model": "whisper-1"
            },
            "turn_detection": {
                "type": "server_vad",
                "threshold": 0.5,
                "prefix_padding_ms": 300,
                "silence_duration_ms": 500,
                "create_response": true
           },
            "tools": [
                {
                    "type": "function",
                    "name": "get weather",
                    "description": "Get the curre
                    "parameters": {
                        "type": "object",
                        "properties": {
                            "location": { "type":
                        },
                        "required": ["location"]
                    }
                }
            ],
            "tool_choice": "auto",
            "temperature": 0.8,
            "max_response_output_tokens": "inf"
       }
38 }
```

input_audio_buffer.append

Send this event to append audio bytes to the input audio buffer. The audio buffer is temporary storage you can write to and later commit. In Server VAD mode, the audio buffer is used to detect speech and the server will decide when to commit. When Server VAD is disabled, you must commit the audio buffer manually.

The client may choose how much audio to place in each event up to a maximum of 15 MiB, for example streaming smaller chunks from the client may allow the VAD to be more responsive. Unlike made other client events, the server will not send a confirmation response to this event.

event_id string
Optional client-generated ID used
to identify this event.

type string
The event type, must be
input_audio_buffer.append

audio stringBase64-encoded audio bytes.This must be in the format

```
OBJECT input_audio_buffer.append

1 {
2    "event_id": "event_456",
3    "type": "input_audio_buffer.append",
4    "audio": "Base64EncodedAudioData"
5 }
```

specified by the
 input_audio_format field in
the session configuration.

input_audio_buffer.commit

Send this event to commit the user input audio buffer, which will create a new user message item in the conversation. This event will produce an error if the input audio buffer is empty.

When in Server VAD mode, the client does not need to send this event, the server will commit the audio buffer automatically.

Committing the input audio buffer will trigger input audio transcription (if enabled in session configuration), but it will not create a response from the model. The server will respond with an

```
input_audio_buffer.committed
event.
```

event_id string

Optional client-generated ID used to identify this event.

type string

The event type, must be

```
input_audio_buffer.commit.
```

```
OBJECT input_audio_buffer.commit

1 {
2    "event_id": "event_789",
3    "type": "input_audio_buffer.commit"
4 }
```

input_audio_buffer.clear

Send this event to clear the audio bytes in the buffer. The server will respond with an input_audio_buffer.cleared event.

event_id string
Optional client-generated ID used
to identify this event.

type string
The event type, must be
 input_audio_buffer.clear.

```
OBJECT input_audio_buffer.clear

1 {
2    "event_id": "event_012",
3    "type": "input_audio_buffer.clear"
4 }
```

conversation.item.create

Add a new Item to the Conversation's context, including messages, function calls, and function call responses. This event can be used both to populate a "history" of the conversation and to add new items midstream, but has the current limitation that it cannot populate assistant audio messages.

If successful, the server will respond with a

```
conversation.item.created event, otherwise an error event will be sent.
```

```
OBJECT conversation.item.create
                                               ð
   {
        "event_id": "event_345",
        "type": "conversation.item.create",
        "previous_item_id": null,
        "item": {
            "id": "msg_001",
            "type": "message",
            "role": "user",
            "content": [
                    "type": "input_text",
                    "text": "Hello, how are you?"
                }
            ]
       }
16 }
```

event_id string Optional client-generated ID used to identify this event.

type string
The event type, must be
 conversation.item.create .

previous_item_id string The ID of the preceding item after which the new item will be inserted. If not set, the new item will be appended to the end of the conversation. If set to root, the new item will be added to the beginning of the conversation. If set to an existing ID, it allows an item to be inserted midconversation. If the ID cannot be found, an error will be returned and the item will not be added.

item object
The item to add to the
conversation.

∨ Show properties

conversation.item.truncate

Send this event to truncate a previous assistant message's audio. The server will produce audio faster than realtime, so this event is useful when the

```
OBJECT conversation.item.truncate

1 {
2    "event_id": "event_678",
3    "type": "conversation.item.truncate",
4    "item_id": "msg_002",
```

user interrupts to truncate audio that has already been sent to the client but not yet played. This will synchronize the server's understanding of the audio with the client's playback.

Truncating audio will delete the server-side text transcript to ensure there is not text in the context that hasn't been heard by the user.

If successful, the server will respond with a

conversation.item.truncated event.

event_id string

Optional client-generated ID used to identify this event.

type string

The event type, must be conversation.item.truncate.

item_id string

The ID of the assistant message item to truncate. Only assistant message items can be truncated.

content_index integer

The index of the content part to truncate. Set this to 0.

audio_end_ms integer Inclusive duration up to which audio is truncated, in milliseconds. If the

```
"content_index": 0,
"audio_end_ms": 1500
}
```

audio_end_ms is greater than the actual audio duration, the server will respond with an error.

conversation.item.delete

Send this event when you want to remove any item from the conversation history. The server will respond with a conversation.item.deleted event, unless the item does not exist in the conversation history, in which case the server will respond with an error.

event_id string
Optional client-generated ID used
to identify this event.

type string
The event type, must be
 conversation.item.delete .

item_id string
The ID of the item to delete.

```
OBJECT conversation.item.delete

1 {
2    "event_id": "event_901",
3    "type": "conversation.item.delete",
4    "item_id": "msg_003"
5 }
```

response.create

This event instructs the server to create a Response,

```
OBJECT response.create
```

which means triggering model inference. When in Server VAD mode, the server will create Responses automatically.

A Response will include at least one Item, and may have two, in which case the second will be a function call. These Items will be appended to the conversation history.

The server will respond with a response.created event, events for Items and content created, and finally a response.done event to indicate the Response is complete.

The response.create event includes inference configuration like instructions, and temperature. These fields will override the Session's configuration for this Response only.

event_id string
Optional client-generated ID
used to identify this event.

type string
The event type, must be
response.create.

```
"event_id": "event_234",
       "type": "response.create",
       "response": {
           "modalities": ["text", "audio"],
           "instructions": "Please assist the us
           "voice": "sage",
           "output_audio_format": "pcm16",
           "tools": [
               {
                    "type": "function",
                    "name": "calculate sum",
                    "description": "Calculates the
                    "parameters": {
                        "type": "object",
                        "properties": {
                            "a": { "type": "numbe
                            "b": { "type": "numbe
                        },
                        "required": ["a", "b"]
                   }
               }
           ],
           "tool_choice": "auto",
           "temperature": 0.8,
           "max_output_tokens": 1024
       }
28 }
```

response object

Create a new Realtime response with these parameters

∨ Show properties

response.cancel

Send this event to cancel an in-progress response. The server will respond with a response.cancelled event or an error if there is no response to cancel.

event_id string
Optional client-generated ID
used to identify this event.

type string
The event type, must be
 response.cancel.

response_id string
A specific response ID to cancel if not provided, will cancel an inprogress response in the default
conversation.

```
OBJECT response.cancel

1 {
2    "event_id": "event_567",
3    "type": "response.cancel"
4 }
```

Server events

error

Returned when an error occurs, which could be a client problem or a server problem. Most errors are recoverable and the session will stay open, we recommend to implementors to monitor and log error messages by default.

event_id string The unique ID of the server event.

```
type string
The event type, must be error.
```

error object
Details of the error.

→ Show properties

```
OBJECT error

1 {
2    "event_id": "event_890",
3    "type": "error",
4    "error": {
5         "type": "invalid_request_error",
6         "code": "invalid_event",
7         "message": "The 'type' field is missin
8         "param": null,
9         "event_id": "event_567"
10    }
11 }
```

session.created

Returned when a Session is created. Emitted automatically when a new connection is established as the first server event. This event will contain the default Session configuration.

event_id string
The unique ID of the server
event.

type string
The event type, must be
session.created.

session object Realtime session object configuration.

✓ Show properties

```
OBJECT session.created
                                              币
   {
       "event id": "event 1234",
       "type": "session.created",
       "session": {
            "id": "sess_001",
            "object": "realtime.session",
            "model": "gpt-4o-realtime-preview-202
            "modalities": ["text", "audio"],
            "instructions": "...model instruction
            "voice": "sage",
            "input_audio_format": "pcm16",
            "output_audio_format": "pcm16",
            "input_audio_transcription": null,
            "turn_detection": {
                "type": "server_vad",
                "threshold": 0.5,
                "prefix_padding_ms": 300,
                "silence_duration_ms": 200
            },
            "tools": [],
            "tool_choice": "auto",
            "temperature": 0.8,
            "max response output tokens": "inf"
       }
25 }
```

session.updated

```
Returned when a session is updated with a session.update event, unless there is an error.
```

event_id string
The unique ID of the server
event.

type string
The event type, must be session.updated.

session object
Realtime session object
configuration.

✓ Show properties

```
OBJECT session.updated
                                              币
   {
       "event id": "event 5678",
       "type": "session.updated",
       "session": {
            "id": "sess_001",
            "object": "realtime.session",
            "model": "gpt-4o-realtime-preview-202
            "modalities": ["text"],
            "instructions": "New instructions",
            "voice": "sage",
            "input_audio_format": "pcm16",
            "output_audio_format": "pcm16",
            "input_audio_transcription": {
                "model": "whisper-1"
           },
            "turn_detection": null,
            "tools": [],
            "tool_choice": "none",
            "temperature": 0.7,
            "max_response_output_tokens": 200
       }
22 }
```

conversation.created

Returned when a conversation is created.
Emitted right after session creation.

event_id string
The unique ID of the server
event.

type string
The event type, must be
conversation.created.

conversation object

The conversation resource.

✓ Show properties

```
OBJECT conversation.created

1 {
2    "event_id": "event_9101",
3    "type": "conversation.created",
4    "conversation": {
5        "id": "conv_001",
6        "object": "realtime.conversation"
7    }
8 }
```

conversation.item.created

Returned when a conversation item is created. There are several scenarios that produce this event:

The server is generating a
Response, which if successful
will produce either one or two
Items, which will be of type
message (role assistant)
or type function_call.

The input audio buffer has been committed, either by the client or the server (in server_vad mode). The server will take the content of the input audio buffer and add

```
OBJECT conversation.item.created
                                              币
   {
       "event id": "event 1920",
       "type": "conversation.item.created",
       "previous_item_id": "msg_002",
       "item": {
            "id": "msg_003",
            "object": "realtime.item",
            "type": "message",
            "status": "completed",
            "role": "user",
            "content": [
                {
                    "type": "input_audio",
                    "transcript": "hello how are
                    "audio": "base64encodedaudio=
                }
            1
```

it to a new user message Item.

The client has sent a conversation.item.create event to add a new Item to the Conversation.

event_id string

The unique ID of the server event.

type string

The event type, must be conversation.item.created.

previous_item_id string

The ID of the preceding item in the Conversation context, allows the client to understand the order of the conversation.

item object

The item to add to the conversation.

∨ Show properties

18 } 19 }

conversation.item.input_audio_transcription.comp

This event is the output of audio transcription for user audio written to the user audio buffer. Transcription begins when the input audio buffer is committed by the client or server (in server_vad mode). Transcription runs asynchronously with Response creation, so this event may come before or after the Response events.

Realtime API models accept audio natively, and thus input transcription is a separate process run on a separate ASR (Automatic Speech Recognition) model, currently always whisper-1. Thus the transcript may diverge somewhat from the model's interpretation, and should be treated as a rough guide.

event_id string

The unique ID of the server event.

type string

The event type, must be

 $\verb|conversation.item.input_audio_transcription.completed|\\$

item_id string

The ID of the user message item containing the audio.

content_index integer

The index of the content part containing the audio.

transcript string

The transcribed text.

```
OBJECT conversation.item.input_audio_tra

1 {
2     "event_id": "event_2122",
3     "type": "conversation.item.inpu
4     "item_id": "msg_003",
5     "content_index": 0,
6     "transcript": "Hello, how are y
7 }
```

conversation.item.input_audio_transcription.failed

Returned when input audio transcription is configured, and a transcription request for a user message failed. These events are separate from other error events so that the client can identify the related Item.

event_id string

The unique ID of the server event.

type string

The event type, must be

conversation.item.input_audio_transcription.fa

item_id string

The ID of the user message item.

content_index integer

The index of the content part containing the audio.

error object

Details of the transcription error.

```
→ Show properties
```

conversation.item.truncated

Returned when an earlier assistant audio message item is truncated by the client with a conversation.item.truncate event. This event is used to synchronize the server's understanding of the audio with the client's playback.

This action will truncate the audio and remove the server-side text transcript to ensure there is no text in the context that hasn't been heard by the user.

event_id string

The unique ID of the server event.

type string

The event type, must be conversation.item.truncated

item_id string

The ID of the assistant message item that was truncated.

content_index integer

The index of the content part that was truncated.

audio_end_ms integer

The duration up to which the audio was truncated, in milliseconds.

OBJECT conversation.item.truncated 1 { 2 "event_id": "event_2526", 3 "type": "conversation.item.truncated", 4 "item_id": "msg_004", 5 "content_index": 0, 6 "audio_end_ms": 1500

7 }

conversation.item.deleted

Returned when an item in the conversation is deleted by the client with a

conversation.item.delete event. This event is used to synchronize the server's understanding of the conversation history with the client's view.

event_id string

The unique ID of the server event.

type string

The event type, must be

conversation.item.deleted

•

item_id string

The ID of the item that was deleted.

```
OBJECT conversation.item.deleted

1 {
2    "event_id": "event_2728",
3    "type": "conversation.item.deleted",
4    "item_id": "msg_005"
5 }
```

input_audio_buffer.committed

Returned when an input audio buffer is committed, either by the client or automatically in server VAD mode. The <code>item_id</code> property is the ID of the user message item that will be created, thus a

event will also be sent to the client.

event_id string

The unique ID of the server event.

type string

The event type, must be

input_audio_buffer.committed

•

previous_item_id string

The ID of the preceding item after which the new item will be inserted.

item_id string

The ID of the user message item that will be created.

```
OBJECT input_audio_buffer.committed

1 {
2    "event_id": "event_1121",
3    "type": "input_audio_buffer.committed",
4    "previous_item_id": "msg_001",
5    "item_id": "msg_002"
6 }
```

input_audio_buffer.cleared

Returned when the input audio buffer is cleared by the client with a

```
input_audio_buffer.clear
event.
```

event_id string

The unique ID of the server event.

```
type string
The event type, must be
input_audio_buffer.cleared
```

```
OBJECT input_audio_buffer.cleared

1 {
2    "event_id": "event_1314",
3    "type": "input_audio_buffer.cleared"
4 }
```

input_audio_buffer.speech_started

Sent by the server when in server_vad mode to indicate that speech has been detected in the audio buffer. This can happen any time audio is added to the buffer (unless speech is already detected). The client may want to use this event to interrupt audio playback or provide visual feedback to the user.

```
The client should expect to receive a input_audio_buffer.speech_stopped event when speech stops. The item_id property is the ID of the user message item that will be created when speech stops and will also be included in the
```

```
input_audio_buffer.speech_stopped
```

```
OBJECT input_audio_buffer.speech_started (

1 {
2     "event_id": "event_1516",
3     "type": "input_audio_buffer.speech_star
4     "audio_start_ms": 1000,
5     "item_id": "msg_003"
6 }
```

event (unless the client manually commits the audio buffer during VAD activation).

event_id string

The unique ID of the server event.

type string

The event type, must be

input_audio_buffer.speech_started

audio_start_ms integer

Milliseconds from the start of all audio written to the buffer during the session when speech was first detected. This will correspond to the beginning of audio sent to the model, and thus includes the prefix_padding_ms | configured in the

Session.

item_id string

The ID of the user message item that will be created when speech stops.

input_audio_buffer.speech_stopped

Returned in server_vad mode when the server detects the end of speech in the audio buffer. The server will also send an conversation.item.created event with the user message item that is created from the audio buffer.

event_id string

The unique ID of the server event.

type string

The event type, must be

input_audio_buffer.speech_stopped

.

audio_end_ms integer

Milliseconds since the session started when speech stopped. This will correspond to the end of audio sent to the model, and thus includes the

min_silence_duration_ms configured in the Session.

item_id string

The ID of the user message item that will be created.

response.created

```
OBJECT input_audio_buffer.speech_stopped (

1 {
2     "event_id": "event_1718",
3     "type": "input_audio_buffer.speech_stop
4     "audio_end_ms": 2000,
5     "item_id": "msg_003"
6 }
```

Returned when a new
Response is created. The
first event of response
creation, where the response
is in an initial state of
in_progress.

event_id string
The unique ID of the server
event.

type string
The event type, must be
response.created.

response object

The response resource.

∨ Show properties

```
OBJECT response.created

1 {
2    "event_id": "event_2930",
3    "type": "response.created",
4    "response": {
5         "id": "resp_001",
6         "object": "realtime.response",
7         "status": "in_progress",
8         "status_details": null,
9         "output": [],
10         "usage": null
11    }
12 }
```

response.done

Returned when a Response is done streaming. Always emitted, no matter the final state. The Response object included in the

response.done event will include all output Items in the Response but will omit the raw audio data.

event_id string
The unique ID of the server

```
"status": "completed",
event.
                                                        "role": "assistant",
                                                        "content": [
type string
                                                            {
The event type, must be
                                                                 "type": "text",
 response.done.
                                                                 "text": "Sure, how cal
                                                            }
                                                        ]
response object
                                                   }
The response resource.
                                               ],

∨ Show properties

                                               "usage": {
                                                    "total_tokens":275,
                                                    "input_tokens":127,
                                                    "output_tokens":148,
                                                    "input_token_details": {
                                                        "cached_tokens":384,
                                                        "text_tokens":119,
                                                        "audio_tokens":8,
                                                        "cached_tokens_details": {
                                                            "text_tokens": 128,
                                                            "audio tokens": 256
                                                        }
                                                   },
                                                    "output_token_details": {
                                                      "text_tokens":36,
                                                      "audio_tokens":112
                                               }
```

}

43 }

response.output_item.added

Returned when a new Item is created during Response generation.

event_id string

The unique ID of the server event.

type string

The event type, must be

response.output_item.added

response_id string

The ID of the Response to which the item belongs.

output_index integer

The index of the output item in the Response.

item object

The item to add to the conversation.

∨ Show properties

```
OBJECT response.output item.added
                                              币
   {
       "event id": "event 3334",
       "type": "response.output_item.added",
       "response_id": "resp_001",
        "output_index": 0,
       "item": {
            "id": "msg_007",
            "object": "realtime.item",
            "type": "message",
            "status": "in_progress",
            "role": "assistant",
            "content": []
       }
14 }
```

response.output_item.done

Returned when an Item is done streaming. Also emitted when a Response is interrupted, incomplete, or cancelled.

event_id string

The unique ID of the server event.

type string

The event type, must be

response.output_item.done

response_id string

The ID of the Response to which the item belongs.

output_index integer

The index of the output item in the Response.

item object

The item to add to the conversation.

✓ Show properties

```
OBJECT response.output item.done
                                               币
   {
        "event id": "event 3536",
        "type": "response.output_item.done",
        "response_id": "resp_001",
        "output_index": 0,
        "item": {
            "id": "msg_007",
            "object": "realtime.item",
            "type": "message",
            "status": "completed",
            "role": "assistant",
            "content": [
                {
                    "type": "text",
                    "text": "Sure, I can help with
                }
            ]
       }
19 }
```

response.content_part.added

Returned when a new content part is added to an assistant message item during response generation.

event_id string

The unique ID of the server event.

type string

The event type, must be

response.content_part.added

٠

response_id string

The ID of the response.

item_id string

The ID of the item to which the content part was added.

output_index integer

The index of the output item in the response.

content_index integer

The index of the content part in the item's content array.

part object

The content part that was added.

✓ Show properties

```
OBJECT response.content_part.added

1 {
2    "event_id": "event_3738",
3    "type": "response.content_part.added",
4    "response_id": "resp_001",
5    "item_id": "msg_007",
6    "output_index": 0,
7    "content_index": 0,
8    "part": {
9        "type": "text",
10        "text": ""
11    }
12 }
```

response.content_part.done

Returned when a content part is done streaming in an assistant message item. Also emitted when a Response is interrupted, incomplete, or cancelled.

event_id string

The unique ID of the server event.

type string

The event type, must be

response.content_part.done

.

response_id string

The ID of the response.

item_id string

The ID of the item.

output_index integer

The index of the output item in the response.

content_index integer

The index of the content part in the item's content array.

part object

The content part that is done.

✓ Show properties

```
OBJECT response.content_part.done

1 {
2    "event_id": "event_3940",
3    "type": "response.content_part.done",
4    "response_id": "resp_001",
5    "item_id": "msg_007",
6    "output_index": 0,
7    "content_index": 0,
8    "part": {
9        "type": "text",
10        "text": "Sure, I can help with that."
11    }
12 }
```

response.text.delta

Returned when the text value of a "text" content part is updated.

event_id string
The unique ID of the server
event.

type string
The event type, must be
 response.text.delta.

response_id string
The ID of the response.

item_id string
The ID of the item.

output_index integer
The index of the output item in
the response.

content_index integer
The index of the content part in
the item's content array.

delta string

The text delta.

```
OBJECT response.text.delta

1 {
2    "event_id": "event_4142",
3    "type": "response.text.delta",
4    "response_id": "resp_001",
5    "item_id": "msg_007",
6    "output_index": 0,
7    "content_index": 0,
8    "delta": "Sure, I can h"
9 }
```

response.text.done

Returned when the text value of a "text" content part is done streaming. Also emitted when a Response is interrupted, incomplete, or cancelled.

event_id string
The unique ID of the server
event.

type string
The event type, must be
 response.text.done.

response_id string
The ID of the response.

item_id string
The ID of the item.

output_index integer
The index of the output item in
the response.

content_index integer
The index of the content part in
the item's content array.

text string
The final text content.

```
OBJECT response.text.done

1 {
2    "event_id": "event_4344",
3    "type": "response.text.done",
4    "response_id": "resp_001",
5    "item_id": "msg_007",
6    "output_index": 0,
7    "content_index": 0,
8    "text": "Sure, I can help with that."
9 }
```

response.audio_transcript.delta

Returned when the modelgenerated transcription of audio output is updated.

event_id string

The unique ID of the server event.

type string

The event type, must be

response.audio_transcript.delta

.

response_id string

The ID of the response.

item_id string

The ID of the item.

output_index integer

The index of the output item in the response.

content_index integer

The index of the content part in the item's content array.

delta string

The transcript delta.

```
OBJECT response.audio_transcript.delta

1 {
2     "event_id": "event_4546",
3     "type": "response.audio_transcript.delta"
4     "response_id": "resp_001",
5     "item_id": "msg_008",
6     "output_index": 0,
7     "content_index": 0,
8     "delta": "Hello, how can I a"
9 }
```

response.audio_transcript.done

Returned when the modelgenerated transcription of audio output is done streaming. Also emitted when a Response is interrupted, incomplete, or cancelled.

event_id string

The unique ID of the server event.

type string

The event type, must be

response.audio_transcript.done

.

response_id string

The ID of the response.

item_id string

The ID of the item.

output_index integer

The index of the output item in the response.

content_index integer

The index of the content part in the item's content array.

transcript string

The final transcript of the audio.

response.audio.delta

OBJECT response.audio_transcript.done 1 { 2 "event_id": "event_4748", 3 "type": "response.audio_transcript.done", 4 "response_id": "resp_001", 5 "item_id": "msg_008", 6 "output_index": 0, 7 "content_index": 0, 8 "transcript": "Hello, how can I assist you 9 }

Returned when the modelgenerated audio is updated.

event_id string
The unique ID of the server
event.

type string
The event type, must be
 response.audio.delta.

response_id string
The ID of the response.

item_id string
The ID of the item.

output_index integer
The index of the output item in
the response.

content_index integer
The index of the content part in
the item's content array.

delta string
Base64-encoded audio data
delta.

```
OBJECT response.audio.delta

1 {
2     "event_id": "event_4950",
3     "type": "response.audio.delta",
4     "response_id": "resp_001",
5     "item_id": "msg_008",
6     "output_index": 0,
7     "content_index": 0,
8     "delta": "Base64EncodedAudioDelta"
9 }
```

response.audio.done

Returned when the modelgenerated audio is done. Also emitted when a Response is interrupted, incomplete, or cancelled.

event_id string
The unique ID of the server
event.

type string
The event type, must be
 response.audio.done.

response_id string
The ID of the response.

item_id string
The ID of the item.

output_index integer
The index of the output item in
the response.

content_index integer
The index of the content part in
the item's content array.

```
OBJECT response.audio.done

1 {
2    "event_id": "event_5152",
3    "type": "response.audio.done",
4    "response_id": "resp_001",
5    "item_id": "msg_008",
6    "output_index": 0,
7    "content_index": 0
8 }
```

response.function_call_arguments.delta

Returned when the model-generated function call arguments are updated.

event_id string

The unique ID of the server event.

type string

The event type, must be

```
response.function_call_arguments.delta
```

response_id string

The ID of the response.

item_id string

The ID of the function call item.

output_index integer

The index of the output item in the response.

call_id string

The ID of the function call.

delta string

The arguments delta as a JSON string.

```
OBJECT response.function_call_arguments.del

1 {
2     "event_id": "event_5354",
3     "type": "response.function_call_ar
4     "response_id": "resp_002",
5     "item_id": "fc_001",
6     "output_index": 0,
7     "call_id": "call_001",
8     "delta": "{\"location\": \"San\""
9 }
```

response.function_call_arguments.done

Returned when the model-generated function call arguments are done streaming. Also emitted when a Response is interrupted, incomplete, or cancelled.

event_id string

The unique ID of the server event.

type string

The event type, must be

response.function_call_arguments.done

•

response_id string

The ID of the response.

item_id string

The ID of the function call item.

output_index integer

The index of the output item in the response.

call_id string

The ID of the function call.

arguments string

The final arguments as a JSON string.

rate_limits.updated

```
OBJECT response.function_call_arguments.done

1 {
2     "event_id": "event_5556",
3     "type": "response.function_call_arg
4     "response_id": "resp_002",
5     "item_id": "fc_001",
6     "output_index": 0,
7     "call_id": "call_001",
8     "arguments": "{\"location\": \"San
9 }
```

Emitted at the beginning of a Response to indicate the updated rate limits. When a Response is created some tokens will be "reserved" for the output tokens, the rate limits shown here reflect that reservation, which is then adjusted accordingly once the Response is completed.

event_id string
The unique ID of the server
event.

type string
The event type, must be
 rate_limits.updated .

rate_limits array
List of rate limit information.

→ Show properties

```
OBJECT rate limits.updated
                                               币
   {
        "event id": "event 5758",
        "type": "rate_limits.updated",
        "rate_limits": [
            {
                "name": "requests",
                "limit": 1000,
                "remaining": 999,
                "reset_seconds": 60
            },
            {
                "name": "tokens",
                "limit": 50000,
                "remaining": 49950,
                "reset_seconds": 60
            }
        ]
18 }
```

Completions Legacy

Given a prompt, the model will return one or more predicted completions along with the probabilities of alternative tokens at each position. Most developer should use our Chat Completions API to leverage our best and newest models.

Create completion Legacy