

> Client-Side API

MANAGER API

CLIENT-SIDE API

SERVER-SIDE API

OAuth2

API for PMS (Property Management System)

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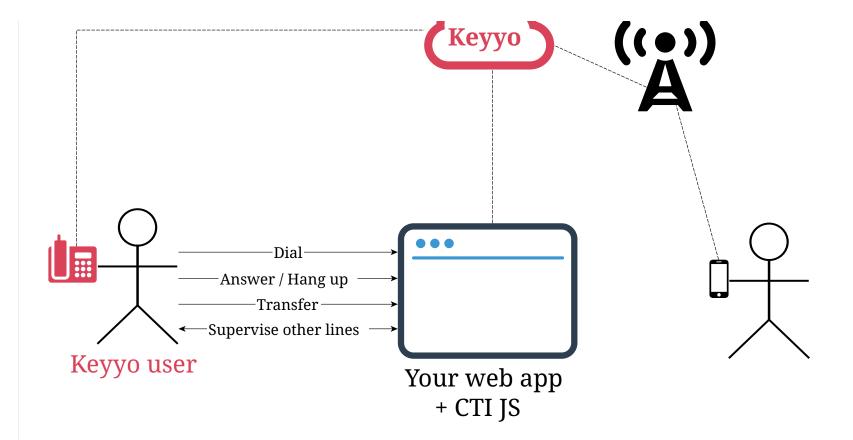
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Overview

Introduction

CTI (Computer Telephony Integration) JS is a JavaScript library that allows you to supervise and control Keyyo lines.





Basic steps

- Register your web app
- Get an access token (you can refer to the OAuth2 documentation)
- Retrieve a CSI token with the access token (you can refer to the CSI token sample on GitHub and the Manager API documentation)
- Use the CTI JS library with the CSI token to connect to Keyyo, and to supervise and control the line(s)

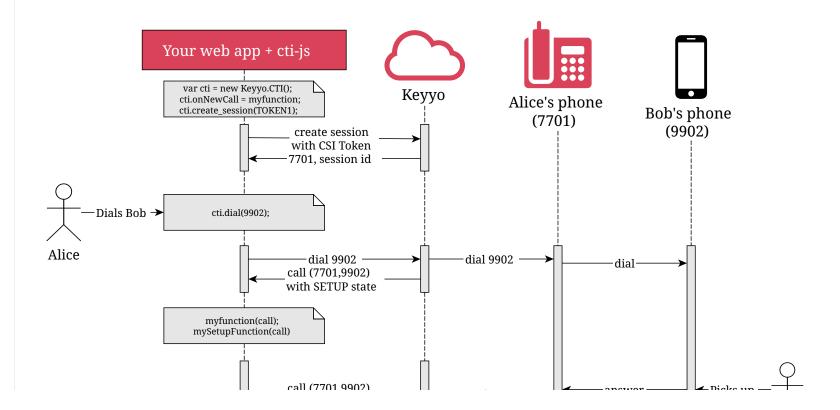
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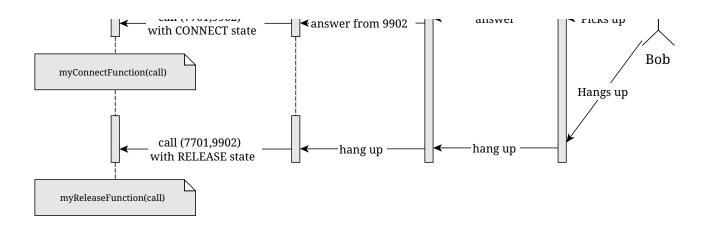
Two people, Alice (number: 7701) — a Keyyo user — and Bob (number: 9902) — a friend of Alice — want to communicate over the phone.

Alice uses a headset microphone and uses her phone remotely thanks to your web app using Keyyo CTI.

Outgoing call scenario

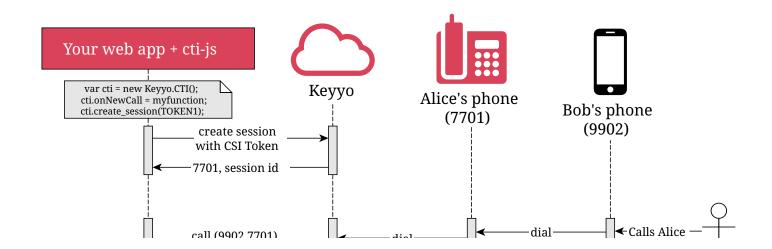
- Alice uses her browser to call Bob.
- Bob picks up his phone.
- Your web app displays additional info in Alice's browser.
- They speak.
- Bob hangs up.
- Alice sees on her phone and in her browser that the call has ended.

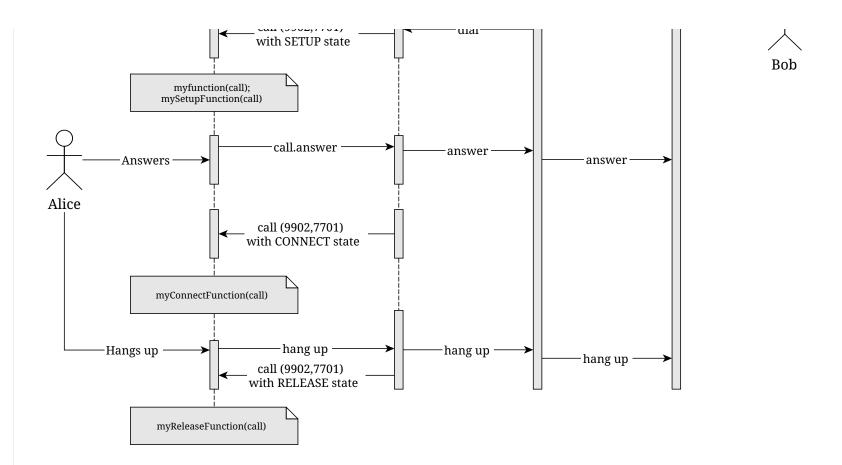




Incoming call scenario

- Bob calls Alice.
- Alice answers her phone.
- Alice sees the call info in her browser.
- They speak.
- Alice uses her browser to hang up.





Keyyo CTI JavaScript SDK

The JavaScript SDK for Keyyo CTI is a library that allows you to easily interact with your Keyyo telephony in your client-side web application.

Requirements

In order to use this library, you must be registered on Keyyo developer portal and have declared an application.

Installation

Include keyyo-cti.min.js in the <head> tag of your HTML.

-- -

Once the library is included, initialize Keyyo CTI and use the create_session method to authenticate you with your CSI token. It's an access token linked to a CSI, valid during 1 hour. With this token, you can use the Keyyo CTI API. For more details on how to retrieve a CSI token, you can refer to the CSI token sample on GitHub and the Manager API documentation.

Basic usage

All API methods use the same logic. By calling the method, you set parameters if needed and retrieve the response through a callback.

The response contains two parameters: error and result. Only one of them is set: the first one if an error occurred, otherwise the second one.

```
var cti = new Keyyo.CTI();
cti.method_name(params..., function(error, result) {
```

Sessions

Before calling an API method, you must be connected. A connection is established when you successfully call the create_session or restore_session method. Either way, a connection is associated to a session.

- When a session is created, an internal counter is set server-side to 1.
- When a subscription is done, it is persistently stored inside the session server-side: you will find your subscriptions back when you restore a session.
- When a websocket is closed, the session is automatically closed.
- Each time a session is closed, an internal counter is decremented server-side.
- Each time a session is restored, an internal counter is incremented server-side.
- When this internal counter reaches 0, an internal timer of 5 minutes is launched server-side.
 - If the timer expires, the session is automatically destroyed
 - If the session is restored before the timer expires, the timer is stopped
- When a session is (manually or automatically) destroyed, all info related to this session are destroyed server-side and the session is not usable anymore.

Subscriptions

When a user creates a session with a CSI token, the session is associated to the CSI (Common Service Identifier) of the

user. An implicit subscription is made to the corresponding Keyyo line, so you are notified of all call events related to this line (see Handle call events).

If your organization has more than one Keyyo line (i.e. more than one CSI), you can choose to be also notified of the calls related to other lines of your organization. To be notified of the calls related to another line of your organization, you have to explicitly subscribe to the related number.

You can also subscribe to the special callpark number. If you subscribe to callpark, you will be notified of all the current calls that have been parked.

API

CTI

Constructor

Options

cookie_auto	boolean By default this value is set to true, if you want to handle the session yourself, set this option to false String The cookie name if cookie_auto is true		
cookie_name			
cookie_expires	integer	nteger The session expiration, in days, if cookie_auto is true	

object

```
var options = {
          cookie_name : "my_session_name",
          cookie_expires: 365
```

```
var cti = new Keyyo.CTI(options);
```

Create session

Function

Arguments

csi_token	Your CSI token. To retrieve a CSI token, refer to the CSI token sample on GitHub the Manager API documentation.	
auto_answer (optional) Auto-answer's state of the whole session, by default, the value is true		

number	string	CSI linked to the token
now	timestamp	Server time in seconds
session_id	string	The session id

```
cti.create_session("<Your CSI token>", function(err, res) {
    if (err) {
        console.log(err);
        return;
    }
    console.log("connected");
```

Restore session

Function

restore_session	Restore your session. Use it when you refresh your web page, or when you reopen your browser.
-----------------	---

Arguments

csi_token	Your CSI token. To retrieve a CSI token, refer to the CSI token sample on GitHub and the Manager API documentation.
session_id (optional)	Your session ID

number	string	CSI linked to the token
now	timestamp	Server time in seconds

```
console.log(res);
});
// Or if you handle the session yourself, because cookie_auto is set to false
cti.restore_session(csi_token, "your_session_id", function(err, res) {
        if (err) {
                // Invalid CSI token (expires or not exists)
                if (err.status_code == 400 && err.error_code == "invalid_csi_token") {
                        // Refresh your CSI token
                } else if (err.status_code == 400 && err.error_code == "missing_parameter"
                        // Your session id is missing as parameter
                } else if (err.status_code == 401) {
                        // Your session is invalid
                        // Create a new session
               return;
        }
        console.log(res);
});
```

Destroy session

Function

destroy_session Close the connection with the server and destroy the session.

Arguments

Result

cti.destroy_session(function(err, res) {

Subscribe

Function

subscribe	Subscribe to a number	
-----------	-----------------------	--

Arguments

integer	Returns 1 if it's a success	

```
cti.subscribe("33172587948", function(err, res) {
    if (err) {
        console.log(err);
        return;
    }
    console.log(res);
});
```

Unsubscribe

Function

unsubscribe	Unsubscribe from a number	
-------------	---------------------------	--

Arguments

number string	Number to unsubscribe (International format), or "callpark"
---------------	---

Result

integer	Returns 1 if it's a success	
---------	-----------------------------	--

```
cti.unsubscribe("33172587948", function(err, res) {
    if (err) {
        console.log(err);
        return;
    }
    console.log(res);
});
```

Get subscriptions

Function

get_subscriptions

numbers array List of your subscriptions

Set auto-answer's state

Function

set_auto_answer Enable or disable auto-answer of call whole session	lee when making or transferring a call for the
---	--

Arguments

to_answer boolean	Auto-answer state (true: enabled, false: disabled)
-------------------	--

integer	Returns 1 if it's a success	
---------	-----------------------------	--

```
cti.set_auto_answer(true, function(err, res) {
    if (err) {
        console.log(err);
        return;
    }
    console.log(res);
});
```

Get auto-answer's state

Function

get_auto_answer	Get the auto-answer's state of the session	
-----------------	--	--

Result

auto answer	boolean	Auto-answer state (true: enabled, false: disabled)	
auto_answer	роотеан	Auto-answer state (true. enabled, raise, disabled)	

```
cti.get_auto_answer(function(err, res) {
    if (err) {
        console.log(err);
        return;
    }
    console.log(res.auto_answer);
});
```

Dial number

Function

Arguments

numb	er	string	Number to call (International format)
------	----	--------	---------------------------------------

Result

Send message

Function

send_message	Send a SIP message
--------------	--------------------

Arguments

number	Number of the recipient (International format)
message	Text to send

Result

integer

Returns 1 if it's a success

```
cti.send_message("33172587948", "The message...", function(err, res) {
    if (err) {
        console.log(err);
        return;
    }
    console.log(res);
```

Get calls

});

Function

get_calls

Get active, made, received and missed calls

Arguments

No parameters required

Return

array

An array of Call objects

```
var calls = cti.get_calls();
calls.forEach(function(call){

    // Display active calls
    if (call.type != "RELEASE") {
        console.log(call);
    }
})
```

Get call

Function

get_call Get a specific call

Arguments

callref	string	Call identifier	

Return

object Call object

```
var call = cti.get_call("<Call Ref Id>");
```

Handle call events

Event

_...

onNewCall Handle a new call event	
-----------------------------------	--

Result

call	Object	A Call object is passed as parameter to the callback

```
cti.onNewCall = function(call) {
    call.onSetup = function() { }
    call.onConnect = function() { }
    call.onRelease = function() { }
    call.onMissed = function() { }
}
```

Attributes

connected boolean	Result true if you are connected
-------------------	----------------------------------

Errors

Errors can be retrieved for each API methods by using the callback, if an error occurred the first parameter contains the following properties:

Properties

status_code	integer	HTTP status code
message	string	The error message
error_code	integer	Error code

Errors codes

HTTP status code	Error code	Description
400	invalid_csi_token	Your CSI token is invalid or has expired
400	missing_parameter	A required parameter is missing
400	invalid_params	Invalid parameter format
401	invalid_session_id	Your session id is invalid or has expired

```
cti.create_session("Your CSI token", function(err, res) {
    // Handle error if err is set
    if (err) {
        console.log(err.status_code, err.message);
        return;
    }
});
```

Setup

Event

setup

Fired when callee's phone is ringing

```
call.onSetup = function() {
    // Handle setup
}
```

Connect

Event

connect

Fired when callee has picked up his phone

```
call.onConnect = function() {
    // Handle connect
}
```

Release

Event

release

Fired when the call has ended

```
call.onRelease = function() {
    // Handle release
}
```

Missed

Event

missed

Fired when the call has ended and callee never picked up his phone

```
call.onMissed = function() {
    // Handle missed
}
```

Answer

Function

answer	Answering a call

Arguments

No parameters required

Result

integer

Returns 1 if it's a success

```
call.answer(function(err, res) {
    if (err) {
        console.log(err);
        return;
    }
    console.log(res);
});
```

Hang up

Function

hang_up

Terminate a call

Arguments

No parameters required

Result

integer

Returns 1 if it's a success

```
call.hang_up(function(err, res) {
    if (err) {
        console.log(err);
        return;
    }
    console.log(res);
});
```

Reject

. .

Function

reject Reject an incoming call to the callee's voicemail (only if number and if the call has not been picked ud or ended	
--	--

Arguments

No parameters required

Result

integer Returns 1 if it's a success

```
call.reject(function(err, res) {

    if (err) {
        console.log(err);
        return;
    }

console.log(res):
```

```
});
```

Transfer

Function

transfer	Transfer a call to another recipient
----------	--------------------------------------

Arguments

call_side	string	"callee" or "caller" that you want to transfer
to	string	Number of the new recipient (International format)

Result

integer Returns 1 if it's a success

```
call.transfer("caller", "33172587949", function(err, res) {
    if (err) {
        console.log(err);
        return;
    }
    console.log(res);
});
```

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Make a supervised transfer

Function

supervised_transfer	Call the callee first and merge the two calls only if the callee answers
---------------------	--

Arguments

call_side	string	"callee" or "caller" that you want to transfer
to	string	Number of the new recipient (International format)
<pre>invite_timer (optional)</pre>	integer	Duration (in seconds) before cancelling the transfer if the callee does not answer, by default this value is 0 (no cancelling)

Result

integer	Returns 1 if it's a success	
---------	-----------------------------	--

```
call.supervised_transfer("caller", "33172587949", 30, function(err, res) {
    if (err) {
        console.log(err);
        return;
    }
    console.log(res);
});
```

Merge

Function

Merge two calls

Arguments

call_side	string	callee" or "caller" that you want to merge"
second_call	object	Second call object to merge
second_call_side	string	callee" or "caller" of call parameter"

Result

integer Returns 1 if it's a success	
-------------------------------------	--

```
JS
```

Pause

Function

to a specific callpark slot : the session's number. Can be unpaused by unparking the parked call
--

Arguments

No parameters required

Result

integer

Returns 1 if it's a success

```
call.pause(function(err, res) {
    if (err) {
        console.log(err);
        return;
    }
    console.log(res);
});
```

Park

Function

park	Park a call	
------	-------------	--

Arguments

side	string	"callee" or "caller" that you want to park"
slot (optional)	integer	Slot where you want to park the call, by default this value is -1

```
integer
```

Returns 1 if it's a success

```
call.park("callee", function(err, res) {
    if (err) {
        console.log(err);
        return;
    }
    console.log(res);
});
```

Unpark

Function

unpark

Unpark a call

Arguments

No parameters required

Result

integer

Returns 1 if it's a success

```
JS
```

```
call.unpark(function(err, res) {
   if (err) {
      console log(err);
}
```

```
return;
}

console.log(res);
});
```

Get ringing duration

Function

get_ringing_duration Get ringing duration

Arguments

No parameters required

Return

integer	Ringing duration in seconds
20902	

Get duration

Function

et_duration Get call duration	get_duration	Get call duration	
-------------------------------	--------------	-------------------	--

Arguments

No parameters required

Return

JS

integer Call duration in seconds	
----------------------------------	--

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Attributes

callref	string	Call identifier
caller	string	The international number of the caller
callee	string	The international number of the recipient (which received the call)
state	string	"SETUP": The callee's phone is ringing "CONNECT": The callee has picked up his phone "RELEASE": The call has ended "MISSED": The call has ended and the callee never picked up his

		phone
setup_date	timestamp	Call setup date in seconds
connect_date	timestamp	Call connect date in seconds
release_date	timestamp	Call realease date in seconds
callpark_slot	string	If the call is parked, contains the slot. Useful for watching specific slot(s) and unparking