

Meet Voice Playground, Your Testing Sandbox for Nexmo Voice Apps



By **OLIVER SCHLIEBEN**

We developed Nexmo Call Control Objects (NCCOs) to provide developers with a flexible mechanism for controlling the flow of a Nexmo Voice API call. Developers use this handy JSON array to generate over 15 billion minutes of global voice traffic every year on our platform. That's why we're thrilled to announce the release of Nexmo Voice Playground, a new tool that will make it even easier to work with NCCOs.



A new feature of the Nexmo Dashboard, Voice Playground provides a host of testing features that developers can use to debug their NCCOs on real calls. Whereas debugging in the past may have required a developer to manually toggle between their development environment and our NCCO documentation, Voice Playground provides an integrated testing tool within the Nexmo Dashboard.

Read on to find out how it works.

Validating and Testing NCCOs on Real Calls

Voice Playground guides developers through a simple two-step testing flow, utilizing an intuitive interface that will be easy for any developer to follow. Step 1 is validation, where developers can enter the markup for an existing NCCO to see whether it contains any syntax errors. Even before processing the entered code, the syntax highlighting in the markup field can shine a light on formatting issues.

Upon clicking the *Validate* button, Voice Playground validates every element against the NCCO schema and indicates whether the code is valid (“Everything looks good!”) or needs to be revised (“Something isn’t right”). The error message is accompanied by a list of the specific errors that were detected and the elements in which they occur. Was the value used for an action misspelled? Is an action missing a required property? Voice Playground will pinpoint the issue so it can be resolved quickly.

For convenience, Voice Playground’s validation screen also offers NCCO templates for four typical voice use cases:

- Connecting two users
- Interactive Voice Response
- Conference call
- Audio stream

Selecting a template will populate the validation field with generic markup for the corresponding NCCO. Developers can just update the markup with their own particular values and then validate the NCCO. When a NCCO has no errors it is automatically saved for 30 days. Unless the developer overwrites it, he or she can come back and continue working on it where they left off during that time.

Here’s a screenshot of Voice Playground’s validation module.

Search calls

ANALYTICS

Overview

By day

By month

QUALITY

By day

APPLICATIONS

Your applications

Create an application

Voice Playground

Voice Playground

This tool will help you debug your markup for the Nexmo Call Control Object (NCCO) and test it on a real call. If you are not familiar with voice applications yet, you can find detailed information in our [documentation for Nexmo Call Control Objects](#).


1 Validate > 2 Test

Step 1: Validate your NCCO


Paste in your own markup...

Just remember that the inbound numbers you use must be Nexmo phone numbers.


... or get started with one of our templates




Connect two users



Interactive Voice Response



Conference call



Audio stream

✓ Everything looks good!

Max 2000 characters

```
1 [
2   {
3     "action": "talk",
4     "text": "Please wait while we connect you."
5   },
6   {
7     "action": "connect",
8     "timeout": 45,
9     "endpoint": [
10      {
11        "type": "phone",
12        "number": "14155551212"
13      }
14    ]
15  }
16 ]
```

Validate



Download your NCCO



Create an application

Go to test

After validation is complete, it's on to Step 2: testing. Voice Playground not only enables testing of an NCCO on a real call, but as the test runs it also displays the call's event log *in real time*. After assigning a purchased Nexmo number to the test application, a developer who has topped up their account can test either inbound or outbound calls with their validated NCCO. The testing module supports inbound and outbound voice use cases, including conference calling applications.

Here's a screenshot of Voice Playground's testing module.

Search calls

ANALYTICS

Overview

By day

By month

QUALITY

By day

APPLICATIONS

Your applications

Create an application

Voice Playground

Voice Playground

This tool will help you debug your markup for the Nexmo Call Control Object (NCCO) and test it on a real call. If you are not familiar with voice applications yet, you can find detailed information in our [documentation for Nexmo Call Control Objects](#).

1

Validate

>

2

Test

Step 2: Test your NCCO on a real call

```
    "action": "connect",
    "timeout": 45,
    "endpoint": [
      {
        "type": "phone",
        "number": " "
      }
    ]
  }
}
```

Edit

1 Choose an available number

The Nexmo phone number you choose will be assigned to this application. You can release it at any time by going to "Your applications", selecting the test application and the tab Numbers.

Change

2 Start the test

Choose the type of test that is the most appropriate based on the NCCO you wrote. You can perform an outbound or an inbound call. If you need help with this, visit the [documentation](#).



You'll be using your credit for this call

Are you testing an outbound call?

Number to call

Hang up

Don't use leading + or 00, start with the country code. See [destination number format](#) for more information.

You should have this phone with you to answer the call

Are you testing an inbound call?

Call your inbound number

Remember to add + or 00 to this number when you dial



If you're testing a conference, have multiple people call your inbound number and listen to each other

3 See the events

As you test your call, your events log will appear below.


Clear events


```
12/6/2017, 2:31:10 PM
{
  "uuid": "64bf7965-e1fa-45f8-af06-48c2075083a4",
  "conversation_uuid": "CON-6a2d2a04-c4de-48cf-8816-210ae1be6e3e",
  "status": "ringing",
  "direction": "outbound"
}
```


12/6/2017, 2:31:10 PM

```
{
  "uuid": "64bf7965-e1fa-45f8-af06-48c2075083a4",
  "conversation_uuid": "CON-6a2d2a04-c4de-48cf-8816-210ae1be6e3e",
  "status": "started",
  "direction": "outbound"
}
```

What's next

Download your NCCO

Have a look at our documentation

Create an application

Back to your NCCO



Take a Walk Through the Voice Playground

Voice Playground is fully available to any developer who owns a Nexmo number and has made at least one payment. It is the latest feature release in our ongoing mission to shorten the time to deployment for our customers. If you haven't already, give **Voice Playground** a try today. It's pretty cool—if we do say so ourselves.

Please fill out the form and we will be in touch with you shortly.

1.844.324.0340

First Name	Last Name
Email Address	Phone Number

Are you a Developer?

Company Name

Select Country

Product of Interest

Existing traffic to switch?

Traffic Volume Monthly (Optional)

Message (optional)

//