

Site [*Telnyx*](https://telnyx.com/)

Test Plan

Version 1.0

Revision history

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
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# Introduction

## Purpose

The purpose of this test plan is to describe the testing process of Telnyxsite (full URL https://telnyx.com/). The document allows to get an idea of the planned work on project testing.

## Source data

Telnyx – a site that allows the user to learn more about the company, a next-gen communications platform that provides carrier-grade services on a global, private IP network. Telnyx provides developers access to real-time voice and SMS capabilities via communication API. Telnyx delivers voice, messaging and more for applications and next-generation communications companies. Offering a communications platform that provides global carrier-grade services, Telnyx maintains an international, private IP network and grants its customers unprecedented control over their communications through its innovative portal and RESTful API.

Telnyx products include voice (elastic SIP trunking, global number search, and telephony data), programmatic messaging, wireless (mobile IoT), embedded communications (WebRTC) and automated networking. Customers provision services a la carte and pay by usage for scalable, on-demand communications.

## Scope

The purpose of testing the Telnyx site is to check the correct operation of all its functions on 108.0.5359.95 version of Chromium browsers with typical use cases. A fraction of the time (20%) will be used to test atypical / potentially error-prone usage scenarios.

The result of the testing process will be the following materials:

 report of the testing team regarding the general state, giving the developers and managers of this product a picture of the site’s correct operation in various browsers;

 report of the results of testing the current coverage, typical use cases / browsers;

 documented bugs in the report of the customer;

Testing will be done automatically, by the Cypress (Web Testing Framework) from the perspective of the end user of the site.

# Conditions for testing

The website should satisfy the Customers provision services a la carte and pay by usage for scalable, on-demand communications. Telnyx products should include voice (elastic SIP trunking, global number search, and telephony data), programmatic messaging, wireless (mobile IoT), embedded communications (WebRTC) and automated networking. Customers can create a Telnyx Mission Control Portal account.

# Testing strategy

The following test plan is formal, as understanding of the current state of the project is needed to build a detailed plan. As a result of the first run of functional tests, changes and improvements will be made to the test plan. The first run of the functional tests will give a clear idea of the level of stability of the system and the set of tests that will be performed in each configuration will be clearly defined.

This approach will give an opportunity to get a detailed report on the product being tested and to focus maximum attention on narrow places.

The customer will be provided with daily reports on the progress of testing, defects found, suggestions for improving the work of the product and its design. All detected defects will be reported to the customer's tracker as separate tickets for subsequent correction.

In the process of testing the Telnyx site ad-hoc and regression testing will be applied due to the lack of strict specification, as well as due to limited resources for the formalization of tests.

**Five stages of the testing process are planned:**

* the first stage is to analyze the technical requirements, develop a test plan, and run the functional tests partially;
* second stage will be devoted to a detailed run of the functional tests with the detection and description of defects;
* at the third stage, automatical testing will be performed with a description of the defects found;
* the fourth stage is to check the bugs fixed by the developers and conduct regression testing;
* the fifth stage is to test the product design with a description of the defects found.

Thus, maximum detailing of the testing depth is achieved, which, in turn, allows to determine the spent resources more accurately, as well as allows project developers to correct defects at the earliest stages.

**OS, approved for testing:**

* Windows 10x64

**Browsers, approved for testing:**

* Google Chrome  108.0.5359.95

**Automation testing environment:**

* Node,js 18.12.1
* Cypress Framework
* VSC 1.74.0

## Testing types

### **Functional testing**

**Objective:**

Identify functional errors, inconsistencies with the requirements and expectations of the user through the implementation of standard as well as non-trivial test scenarios.

**Process description:**

**Registration / Authorization**

* User registration
* User authorization
* Password recovery
* Edit account

**Profile**

* Profile editing
* Deletion of the account
* Cancellation / confirmation of the subscription
* User logout from personal account

**Products**

* Explore products
* Information about products
* Joining the network
* Available pricing

**Search**

* Search by Support Center
* Choose category and use menu.

**Articles**

* Sharing of articles in all proposed social networks
* Photo display function

**Banners**

* Clickable images

**User cases**

* Contact Center
* Call Tracking
* SMS Customer Support
* VoIP for Small Business
* Contact me form

**Review**

* Displayed review customers

### **Regression testing and verification of fixed defects**

**Objective:**

Checking the changes made on the site in order to make sure that the new version does not contain errors in the already tested parts of the site.

In the course of regression testing, the following types of tests will be conducted:

* Verification Tests
* Version testing
* Testing related functionality

### **Testing the design**

**Objective:**

Verification of product design compliance with specifications

**Process description:**

* Registration form
* Letter to the user
* Personal account
* Site pages

The security testing and the stress testing are not conducted due to lack of testing time.

# Testing schedule

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Workload** | **Start date** | **Expiration date** |
| Making a test plan | 12 hours | 08.12.2022 | 09.12.2022 |
| Making test-cases | 2 hours | 09.12.2022 | 09.12.2022 |
| Automate test-cases | 6 – 8 hours | 09.12.2022 | 12.12.2022 |
| Test execution |  | 12.12.2022 | 12.12.2022 |
| Test Analysis | 2 hours | 13.12.2022 | 13.12.2022 |
| Summarizing |  | 08.12.2022 | 13.12.2022 |

# Final results

## Resume