

DUO SECURITY AND UNIOTP INTEGRATION GUIDE

VERSION 1.0

SecuTech

www.eSecuTech.com

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Version	Date
1.0	2013.08

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About this guide

Duo Security is a two-factor authentication solution that enhances the security of online accounts by using a phone/tablet/token to verify the identity of the user trying to access your server/solution.

New and existing Duo Security setups can be combined with a UniOTP token solution, allowing for UniOTP's secure One Time Passwords (OTPs) to be used as the second factor authentication method.

Duo Security (at the time of writing this guide) only supports Event based HOTP tools, therefore Duo Security can only be used with UniOTP 300.

This guide will only cover the steps required to import the UniOTP seed file and re-synchronization of a UniOTP 300. For usage of the Duo Security system please contact Duo Security.

Please note that Duo Security requires the secret and counter values in CSV format, please send an email to Sales@esecutech.com or Support@esecutech.com with a list of the UniOTP serial numbers (eg. STESXXXXXXXX) you have for the corresponding CSV token data. You should receive a response within 24 hours. You will NOT be able to use UniOTP with Duo Security unless you have this file.

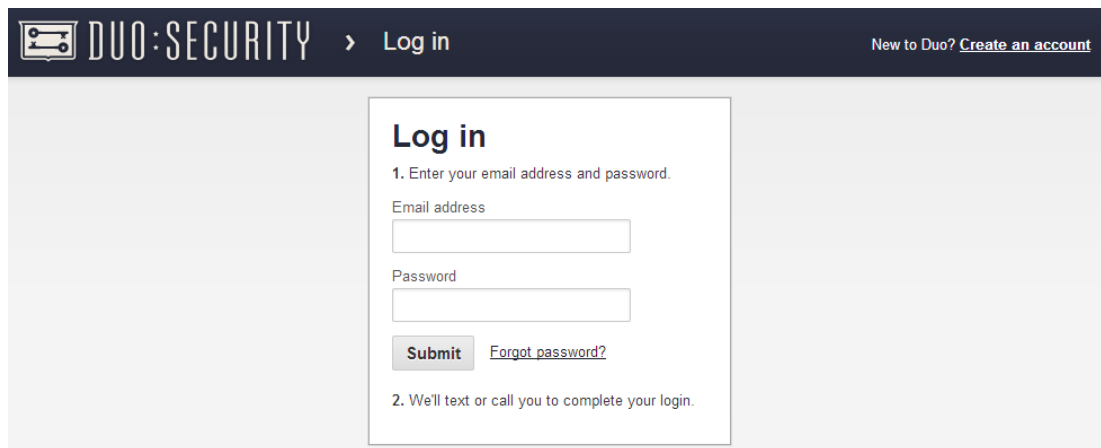
Chapter 1: Importing UniOTP

1.1 Duo Security login

This guide assumes the reader has created an account with Duo Security, if you do not have one it is free to create an account for testing purposes, please navigate to here: <https://admin.duosecurity.com> to log in.

1.1.1 Login screen

Please log into Duo Security using your login details

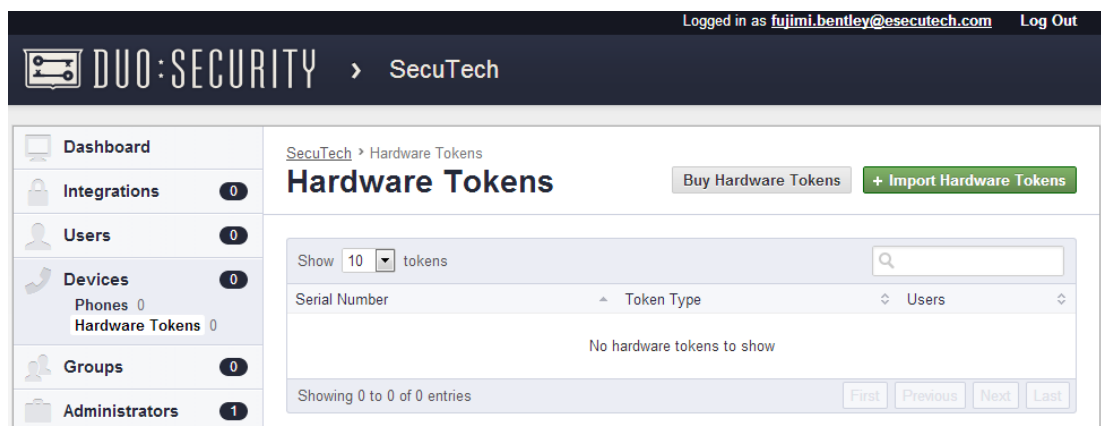


The image shows the Duo Security login interface. At the top, there's a dark header with the Duo Security logo and a 'Log in' link. On the right, it says 'New to Duo? [Create an account](#)'. The main content area is light gray and contains a white box titled 'Log in'. Inside this box, it says '1. Enter your email address and password.' followed by two input fields: 'Email address' and 'Password'. Below these fields are a 'Submit' button and a 'Forgot password?' link. At the bottom of the box, it says '2. We'll text or call you to complete your login.'

1.2 Hardware token Device

Once logged in, please navigate to the Hardware Tokens sub-section, located in Devices -> Hardware Tokens.

Please select + Import Hardware Tokens



The image shows the Duo Security 'Hardware Tokens' page. The top header is dark with the Duo Security logo, a 'SecuTech' link, and a 'Logged in as fujimi.bentley@esecutech.com' status with a 'Log Out' link. A left sidebar contains navigation links: 'Dashboard', 'Integrations' (0), 'Users' (0), 'Devices' (0) with sub-links 'Phones 0' and 'Hardware Tokens 0', 'Groups' (0), and 'Administrators' (1). The main content area is titled 'SecuTech > Hardware Tokens' and 'Hardware Tokens'. It has two buttons: 'Buy Hardware Tokens' and '+ Import Hardware Tokens'. Below these is a table with columns 'Serial Number', 'Token Type', and 'Users'. The table is empty, showing 'No hardware tokens to show'. At the bottom, it says 'Showing 0 to 0 of 0 entries' and has pagination links: 'First', 'Previous', 'Next', and 'Last'.

1.3 Input Secret and Counter

Inside the Import Hardware Tokens screen, please set:

- Token Type: HOTP 6-digit

Please send an email to Sales@esecutech.com or Support@esecutech.com with a list of the UniOTP serial numbers for their CSV token data.

Once you have received the CSV token data, please copy paste the data into CSV token data field, this is the same method for batch importing multiple UniOTP's, note that the example images will only show 1 Token been imported.

It should appear as something like the below:

The screenshot shows the Duo Security SecuTech interface for importing hardware tokens. On the left is a sidebar menu with options: Dashboard, Integrations (0), Users (0), Devices (0, including Phones 0 and Hardware Tokens 0), Groups (0), Administrators (1), Logs, Settings, and Billing. Below the menu are links for 'It pays to refer! Tell a friend about Duo' and 'Documentation'. The main content area is titled 'Import Hardware Tokens' and includes a breadcrumb trail: 'SecuTech > Hardware Tokens > Import Hardware Tokens'. A 'Back to hardware tokens' link is present. The interface explains that Duo supports HOTP and YubiKey tokens and provides the CSV format instructions: HOTP is '<serial number>,<HOTP secret key>[,<HOTP counter>]' and YubiKey is '<serial number>,<private identity>,<secret key>'. A note states that the HOTP counter field is optional and assumed to be 0 if not specified. The 'Token type' dropdown is set to 'HOTP 6-digit'. The 'CSV token data' field contains the text: 'STES11000203.7A6[REDACTED]24C.1' followed by a new line '9[REDACTED]951'. An 'Import Hardware Tokens' button is at the bottom.

Please select "Import Hardware Tokens" when the CSV has been entered.

Please do not modify the CSV data.

1.3.1 Import feedback

Once the CSV data has been imported, the following feedback should be provided, please contact Support@esecutech.com for assistance if this is unsuccessful.

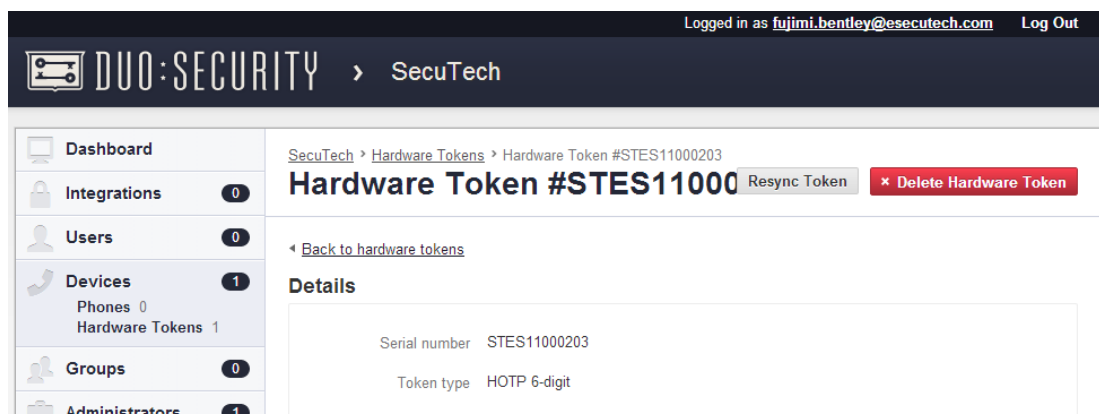


Chapter 2: Synchronizing UniOTP

All OTP tokens require a form of synchronization to account for any large differences in the counter value, caused by repeated generation of OTP codes which may cause an authentication system to reject the token. This process can only be done one at a time.

2.1.1 Select UniOTP

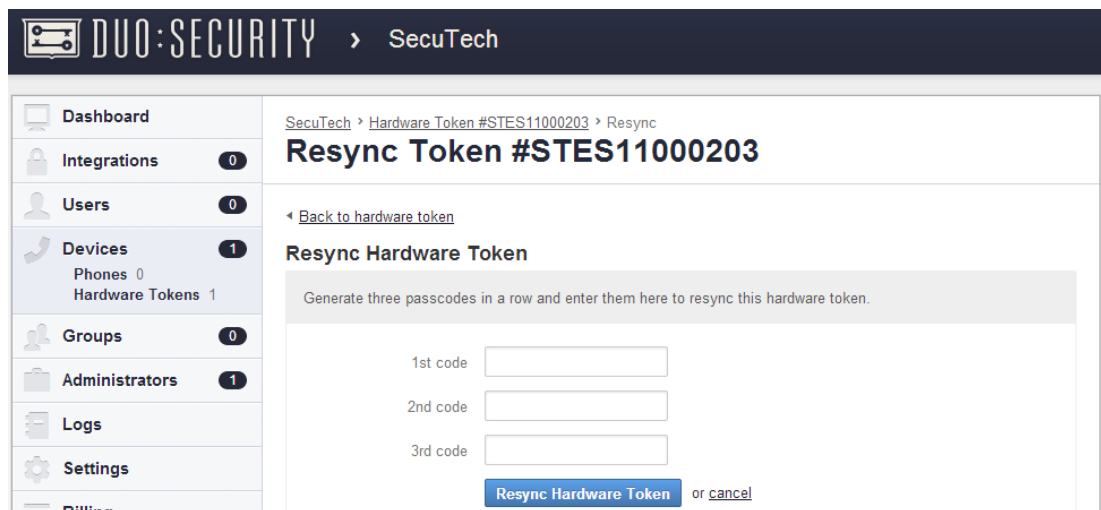
To synchronize a UniOTP, please select it from it in the list of Hardware Tokens and Duo should provide further details about the selected Token:



Please select “Resynch Token”.

2.2 Re-synchronizing Token

Please input 3 consecutive OTP codes from the UniOTP into the field, where the first code generated is inputted into the “1st code” text box. Note that the UniOTP 300 has an inbuilt timer which forces a user to wait 1 minute before it can produce the next OTP code, this has been done to make it significantly more difficult to de-synchronize the UniOTP through regular use.

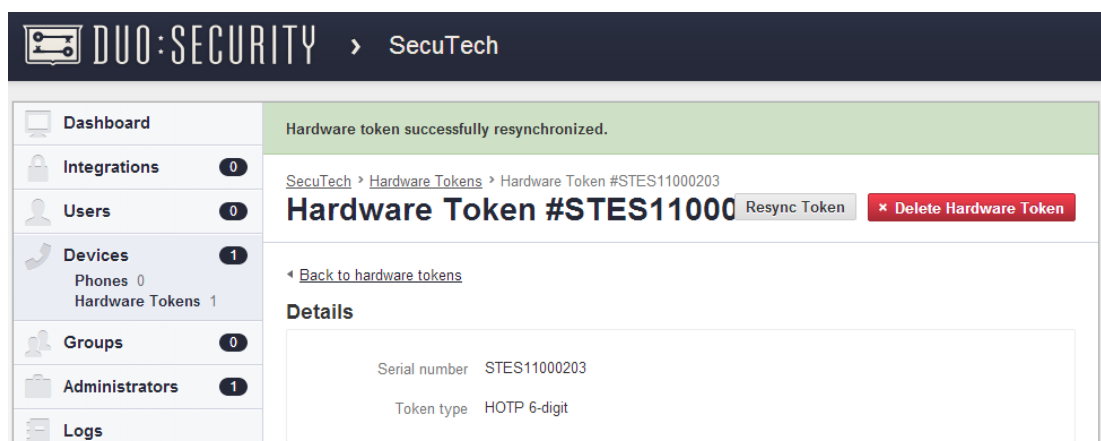


The screenshot shows the Duo Security interface for the SecuTech integration. The left sidebar contains navigation links: Dashboard, Integrations (0), Users (0), Devices (1, with sub-items Phones 0 and Hardware Tokens 1), Groups (0), Administrators (1), Logs, Settings, and Billing. The main content area is titled 'Resync Token #STES11000203' and includes a breadcrumb trail: SecuTech > Hardware Token #STES11000203 > Resync. Below the title is a link to 'Back to hardware token'. The section is titled 'Resync Hardware Token' and contains the instruction: 'Generate three passcodes in a row and enter them here to resync this hardware token.' There are three input fields labeled '1st code', '2nd code', and '3rd code'. At the bottom of the form are two buttons: 'Resync Hardware Token' and 'or cancel'.

When all 3 OTP codes have been inputted, please click “Resync Hardware Token”.

2.2.1 Synchronization feedback

If the 3 OTP codes have been inputted correctly, the user should see this screen:



The screenshot shows the Duo Security interface after a successful token resynchronization. The left sidebar is the same as in the previous screenshot. The main content area has a green banner at the top that says 'Hardware token successfully resynchronized.' Below this is a breadcrumb trail: SecuTech > Hardware Tokens > Hardware Token #STES11000203. The main title is 'Hardware Token #STES11000' with buttons for 'Resync Token' and 'Delete Hardware Token'. There is a link to 'Back to hardware tokens'. The 'Details' section shows the 'Serial number' as STES11000203 and the 'Token type' as HOTP 6-digit.

If this is unsuccessful please contact support@esecutech.com

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About SecuTech

SecuTech Solution Inc. is a company specializing in data protection and strong authentication, providing total customer satisfaction in security systems & services for banks, financial institutions & other industries. Having extensive and in-depth experience within the information security market, SecuTech has drawn upon this experience to utilize today's cutting-edge technologies, enables enterprises, financial institutions, and government to safely adopt the economic benefits of mobile and cloud computing that are effective against increasingly sophisticated cyber attacks.

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