



**HYPERSECU®**

# Integrating HyperOTP™ with RCDev's OpenOTP

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# Introduction

HyperOTP tokens are designed for easy integration with OATH-certified authentication servers such as OpenOTP™ by RCDevs. This document will guide you through the steps to use your HyperOTP tokens with OpenOTP, including registering and synchronizing your token.

## Requirements

Before starting, you must have:

- A valid HyperOTP™ token
- The serial number and corresponding secret seed value for each token you will be importing
- A valid account with RCDevs. To learn more about signing up with RCDevs, visit [www.rcdevs.com](http://www.rcdevs.com)

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**IMPORTANT:** The secret seed values are contained in the seed file provided at the time of purchase. If you do not have a secret seed value for each token, contact us at [support@hypersecu.com](mailto:support@hypersecu.com).

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# Registering a HyperOTP Token with OpenOTP™

Before you begin, you must register the HyperOTP token. You can register up to three tokens.

1. Log in to RCDevs's User Self Service Desk and click the **OTP** tab.

The screenshot shows a web form titled "User Self Service Desk" with the following content:

You must first register your Software or Hardware Token to start using it. The registration consists in synchronizing a Secret Key and an initial Token state.

Instructions to register your Software Token:

- [Install your Software Token](#) on your device.
- Start a new registration and adjust the parameters below.
- Click the 'Register' button below.

There is a circular icon with a stylized 'G' on the left side of the form.

Registration options (radio buttons):

- I use a Hardware Token (Inventoried)
- I use a Yubikey Token (Inventoried / YubiCloud)
- I use a QRCode-based Authenticator (Event-based)
- I use a QRCode-based Authenticator (Time-based)
- I use another Token (Manual Registration) ⓘ

Form fields and dropdowns:

- Register As: Primary Token ▼
- Token Type: OATH HOTP (Event-Based) ⓘ
- Key Mode: Key generated by Token (Default) ⓘ
- Key Algorithm: SHA1 (Default) ⓘ
- Key Format: Hex (Default) ⓘ
- Secret Key: FA1D3D1DC ⓘ
- Initial Counter: 0 ⓘ

Buttons: Register, Cancel

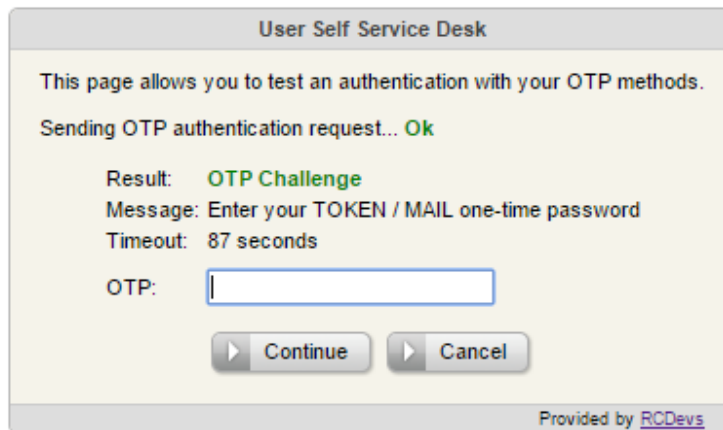
Footer: Provided by [RCDevs](#)

2. Choose **I use another Token (Manual Registration)** and perform the following steps:
  - a. From the **Token Type** drop-down menu, select the type of token you are registering.
  - b. From the **Key Mode** drop-down menu, select **Key generated by Token (Default)**.
  - c. From the **Key Algorithm** drop-down menu, select **SHA1 (Default)**.
  - d. From the **Key Format** drop-down menu, select **Hex (Default)**.
  - e. In the **Initial Counter** field, leave the default value.
3. In the **Security Key** field, enter the secret seed value for your OTP token.
4. Click **Register**.

# Perform an Authentication Test

To ensure your HyperOTP token is performing correctly, you can test the token through the server.

1. In the **OTP** tab, click **Test Login**.
2. Generate an OTP value on your token and enter it into the field.



The screenshot shows a web interface titled "User Self Service Desk". The main content area has a light yellow background and contains the following text: "This page allows you to test an authentication with your OTP methods." Below this, it says "Sending OTP authentication request... Ok". The "Result:" is "OTP Challenge". The "Message:" is "Enter your TOKEN / MAIL one-time password". The "Timeout:" is "87 seconds". There is an "OTP:" label followed by an empty text input field. At the bottom of the form are two buttons: "Continue" and "Cancel". In the bottom right corner of the interface, it says "Provided by [RCDevs](#)".

3. Click **Continue**.

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**NOTE:** If the test was unsuccessful, your token may be out of sync. To resync your token, *Resynchronizing a HyperOTP Token* on page 6..

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# Resynchronizing a HyperOTP Token

If your HyperOTP™ token is out of sync with the server and is no longer providing valid OTP values, you can resync the token. The procedure is dependent on whether your token type is a HOTP event-based token or a TOTP time-based token.

- To resync a TOTP token, *Resync a HOTP Token* on page 6.
- To resync a HOTP token, *Resync a TOTP Token* on page 6.

## Resync a HOTP Token

There are two methods available to resync a HOTP token. Ensure you use **method 2 (OTP sequence)**.

1. In the **OTP** tab, select the token you want to resync and click **Resync Token**.
2. Generate two consecutive OTP values and enter each value into the corresponding field.

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**NOTE:** You must wait 15 seconds before you can generate the next OTP value. The HyperOTP HOTP token has an internal countdown timer of 15 seconds to avoid accidental duplicate clicks.

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For method 2 (OTP sequence):

- Generate 2 OTPs on your Token.
- Enter the two OTPs below and click 'Resync'.
- Your Token is working again.

OTP 1:

OTP 2:

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3. Click **Resync**.


## Resync a TOTP Token

1. In the **OTP** tab, select the token you want to resync and click **Resync Token**.
2. In the **OTP** field, enter the most recent OTP value generated by the token.

**User Self Service Desk**

TOTP Tokens just need to have time correctly set to be synchronized.  
Adjust your Token time with the time displayed below:

If your Token has a clock drift larger than the maximum accepted in OpenOTP,  
then enter the current OTP to synchronize according to an estimated clock drift.

 Name: **Primary Token**  
Time: **03/25/2015 2:25:36 PM**  
OTP:

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3. Click **Resync**.