

# Authentication API

## SecurAccess API Guide

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## 1.1 Solution Summary

The following document provides a guide to authenticating users for 2FA through SecurEnvoy's SecurAccess MFA solution using HTML POST.

## 1.2 Prerequisites

The following conditions are required to successfully authenticate users through the Authentication API:

- A SecurAccess MFA server installed, configured and working on a system with:
  - Windows Server 2012 R2 or higher.
  - An LDAP or Lightweight Directory Service database of users or alternative user database (SQL etc) if SecurAccess is only to provide the second stage (2FA) of the authentication process.

*Note: Please see SecurEnvoy's SecurAccess version 9.3 deployment guide on how to setup MFA server solution (On the [www.securenvoy.com](http://www.securenvoy.com) website)*

## 1.3 HTML URL Format

Note: Both GET (URL format) and POST html requests are supported. Note that POST is considered better security as URL data can be cached in the browser.

`http(s)://your_securenvoy_server_ip/secserver?FLAG=DESKTOP&VERSION=2.0&STATUS=AUTH&USERID=(my_userid)&PASSCODE=(6 digit passcode to check)&SESSIONKEY=(SESSIONKEY value if known)&CUSTOMMESSAGE=(optional push,sms message)`

## 1.4 HTML Post Format

POST to `http(s)://your_securenvoy_server_ip/secserver/securectrl.exe`

### Headers

Content-Type: text/html; charset=UTF8

### Data

FLAG: DESKTOP

VERSION:2.0

STATUS:AUTH

USERID:(Userid of user authenticating including domain example fred@mydomain.com)

PASSCODE:(6-digit passcode to check)

SESSIONKEY:(return this from previous SESSIONKEY value if known)

CUSTOMMESSAGE:(optional push message URL Encoded with UTF8)

### Return

VERSION:9.1.501 (the server sides version for information only)

RETURN:OK or ERR and an error message

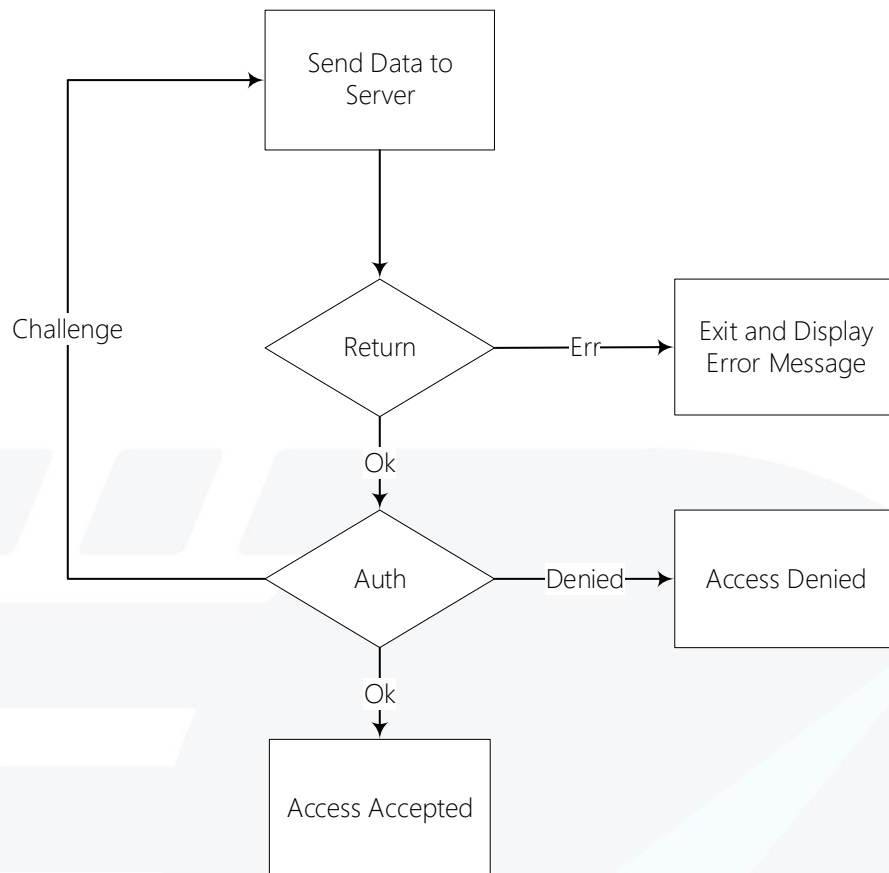
AUTH:OK, DENIED or CHALLENGE

### Additional Return If AUTH: CHALLENGE

SESSIONKEY:(This key MUST be return in the next connection)

REALTIMECHALLENGE:(Optional, if return this text should be displayed to the user)

## 1.5 Flow Diagram



## 1.6 Example HTML URL for Two Step SMS Realtime

### Step 1: Client sends the following URL

```
https://your_securenvoy_server/secserver?FLAG=DESKTOP&VERSION=2.0& STATUS=AUTH&USERID=fred@mydomain.com &PASSCODE=
```

### Step 2: Server returns

```
VERSION:9.1.501  
RETURN:OK  
AUTH:CHALLENGE  
SESSIONKEY:SE4E3A0A6202452F87F5757AD407003AA4D5295BB2  
REALTIMECHALLENGE:Enter Your 6 Digit Passcode  
GETPASSCODE:True
```

### Step 3: As CHALLENGE was returned, client sends the following

```
https://your_securenvoy_server/secserver?FLAG=DESKTOP&VERSION=2.0& STATUS=AUTH&USERID=fred@mydomain.com &PASSCODE=234123&  
SESSIONKEY=SE4E3A0A6202452F87F5757AD407003AA4D5295BB2
```

### Step 4: Server returns:

```
VERSION:9.1.501  
RETURN:OK  
AUTH:OK
```

## 1.7 Example HTML POST for Two Step SMS Realtime Auth

### Step 1: Client sends the following raw data

Content-Type: text/html; charset=UTF8 (2 carriage returns to end html headers)

```
FLAG:DESKTOP
VERSION:2.0
STATUS:AUTH
USERID:fred@mydomain.com (the userid of the user authenticating)
PASSCODE: leave this blank as it's not known at this stage)
```

### Step 2: Server returns

```
VERSION:9.1.501
RETURN:OK
AUTH:CHALLENGE
SESSIONKEY:SE4E3A0A6202452F87F5757AD407003AA4D5295BB2
REALTIMECHALLENGE:Enter Your 6 Digit Passcode
GETPASSCODE:True
```

### Step 3: Client sends the following

```
FLAG:DESKTOP
VERSION:2.0
STATUS:AUTH
USERID:fred@mydomain.com (the userid of the user authenticating)
PASSCODE:234123 (The 6 digit passcode entered by the user)
SESSIONKEY:SE4E3A0A6202452F87F5757AD407003AA4D5295BB2
```

### Step 4: Server returns:

```
VERSION:9.1.501
RETURN:OK
AUTH:OK
```

## 1.8 Example POST for Pre-Loaded SMS In One Step Auth

### Step 1: Client sends the following

```
Content-Type: text/html; charset=UTF8  
FLAG:DESKTOP  
VERSION:2.0  
STATUS:AUTH  
USERID:fred@mydomain.com (the userid of the user authenticating)  
PASSCODE:234123 (The 6 digit passcode entered by the user)
```

### Step 2: Server returns

```
VERSION:9.1.501  
RETURN:OK  
AUTH:OK
```



## 1.9 Example HTML POST for Push with off-line failover Auth

### Step 1: Client sends the following raw data

Content-Type: text/html; charset=UTF8 (2 carriage returns to end html headers)

```
FLAG:DESKTOP
VERSION:2.0
STATUS:INIT (this will send the push request to the user)
CUSTOMMESSAGE:(optional, message to display in push notification, must be URL encoded with UTF8)
USERID:fred@mydomain.com (the userid of the user authenticating with PUSH)
```

### Step 2: Server returns

```
VERSION:9.1.501
RETURN:OK
GETPASSCODE:False (Push returned OK and Authentication is OK)
OR
GETPASSCODE:True (Push rejected or timed out, need to prompt for a passcode)
```

### Step 3: Only required if GETPASSCODE: True returned

```
FLAG:DESKTOP
VERSION:2.0
STATUS:AUTH
USERID:fred@mydomain.com (the userid of the user authenticating)
PASSCODE:234123 (The 6 digit passcode entered by the user)
```

### Step 4: Server returns:

```
VERSION:9.1.501
RETURN:OK
AUTH:OK
```

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