

### **A 3<sup>rd</sup>-Party Password Reset Feature for D-Star Registration Logons**

This Password Reset feature is intended as an add-on to the ICOM G2/G3 Registration Page logon procedure. It accesses the gateway's Postgres database as read-only in order to verify the requestor's callsign indeed has an account on the given gateway and to verify the requestor knows the email address on file for that callsign. Once the email with link has been received and the requestor clicks the link, a web page allows entry of the new password.

Anti-SQL Injection techniques are employed, and the actual updating of the password is done by the program `/dstar/tools/dstarpasswd` running under root (using an authorized password reset program as opposed to writing code to update the registration database tables directly). This is accomplished by having the web page queue the reset request in a small Postgres table and having cron periodically launch a php script running under root to check that table and invoke the above program.

A config file allows users to specify their Gateway's callsign (in the examples below, W6CX), whether the reset feature should run under SSL, plus email details. The scripts assume PHPMailer has been installed on the gateway system. It is recommended to update the Registration logon page at `/opt/products/dstar/D-STAR/TopMenu.jsp` to provide a "Forgot your password" link to this feature. For example:

D-Star Registr... xW6CX Dashbo... xD-STAR Gatew... x

Maximize

←→↻https://w6cx.dstargateway.org/D...★🛡️🌐g💡👤🔔

D-STAR Gateway System  
(W6CX)

REVISION  
3.00

**Already registered?**  
Login with Callsign and Password.  
Please note that Callsign and Password are case sensitive!  
Callsign must be in Upper Case!

CallSign : K6DDV

Password : .....

Login

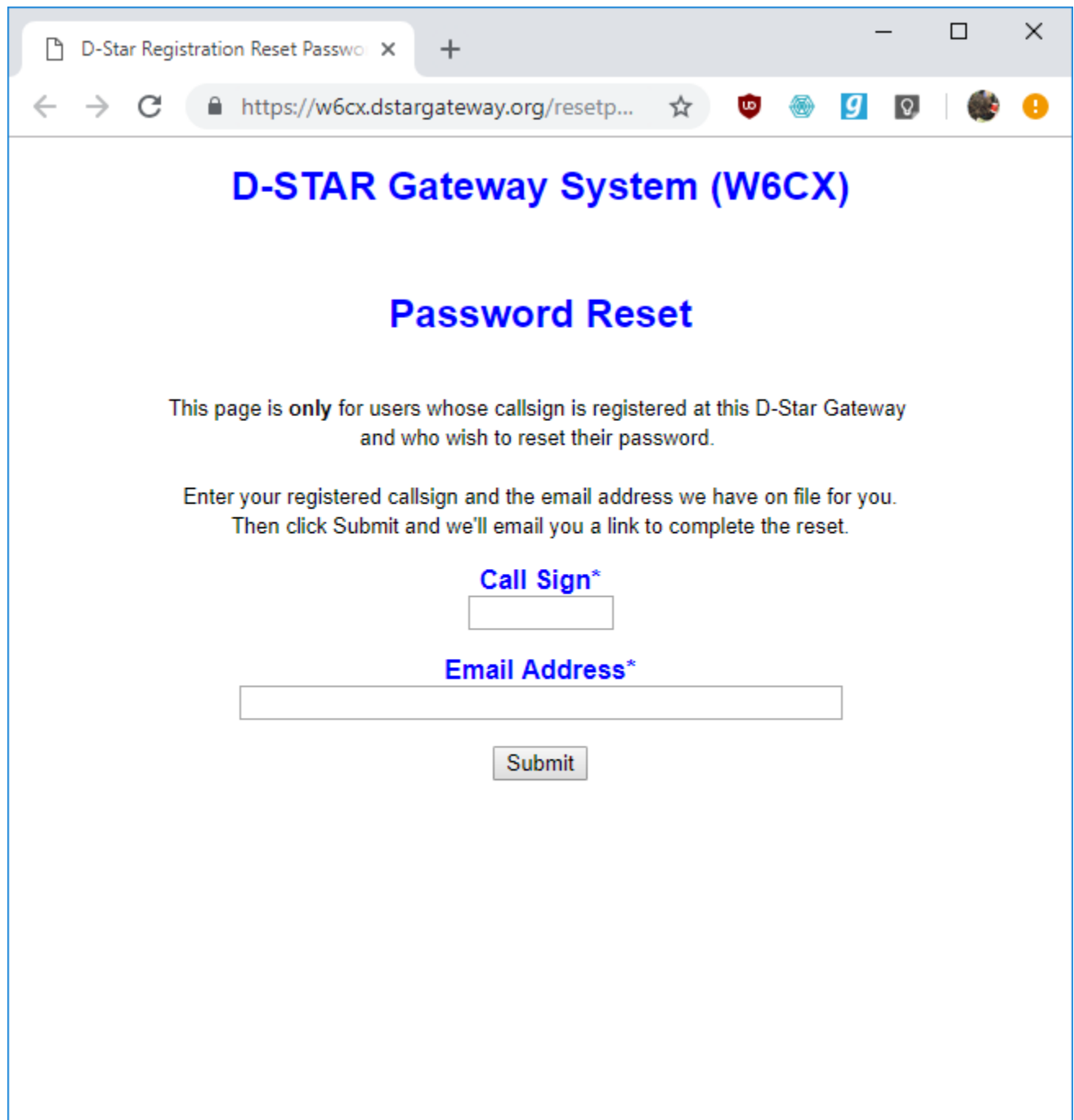
**Forgot your password?**

**New user?**  
Register here for D-STAR access.

**NOTE: You should only register on one D-Star repeater/gateway.**  
Registration at multiple gateways causes D-Star database problems and could prevent your callsign from working on the network. If you have already begun to register at another D-Star Gateway, please close this page and continue registration there.  
You can check your registration status [here](#).  
Registering takes just a few seconds, and you won't have to enter details again the next time you visit here.

Register

Here the user enters callsign and email.



The screenshot shows a web browser window with the title "D-Star Registration Reset Passwo" and the address bar displaying "https://w6cx.dstargateway.org/resetp...". The page content includes the heading "D-STAR Gateway System (W6CX)" in blue, followed by "Password Reset" in blue. Below this, a paragraph states: "This page is **only** for users whose callsign is registered at this D-Star Gateway and who wish to reset their password." Another paragraph follows: "Enter your registered callsign and the email address we have on file for you. Then click Submit and we'll email you a link to complete the reset." The form consists of two input fields: "Call Sign\*" and "Email Address\*", both in blue text. The "Call Sign\*" field is a small rectangular box, and the "Email Address\*" field is a longer rectangular box. Below these fields is a "Submit" button.

D-STAR Gateway System (W6CX)

**Password Reset**

This page is **only** for users whose callsign is registered at this D-Star Gateway and who wish to reset their password.

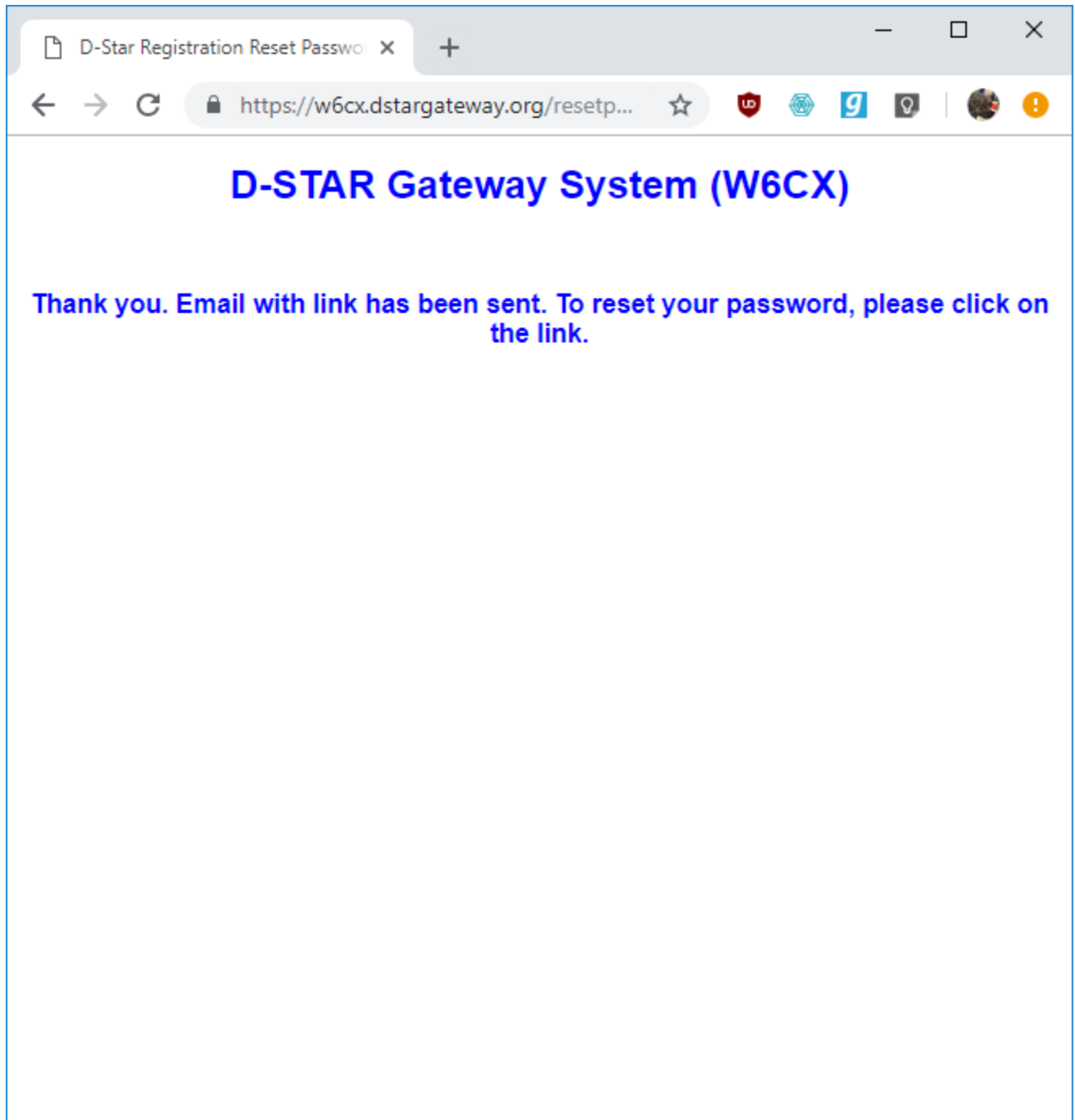
Enter your registered callsign and the email address we have on file for you. Then click Submit and we'll email you a link to complete the reset.

**Call Sign\***

**Email Address\***

Submit

The callsign is looked up to ensure it has an account on this gateway and the email address is on file for that callsign (thus eliminating most bogus reset requests), and the user is told to await the email.



Here's an example of the email with link. Note the link expires in one hour.

**jmm@k6jm.com**

---

**From:** W6CX D-Star Gateway <dstar@mdarc.org>  
**Sent:** Thursday, January 10, 2019 1:56 PM  
**To:** jmm@k6jm.com  
**Subject:** W6CX D-Star Password Reset

Jim Moen - K6DDV,

We received your password reset request. Here is the link to reset your password.

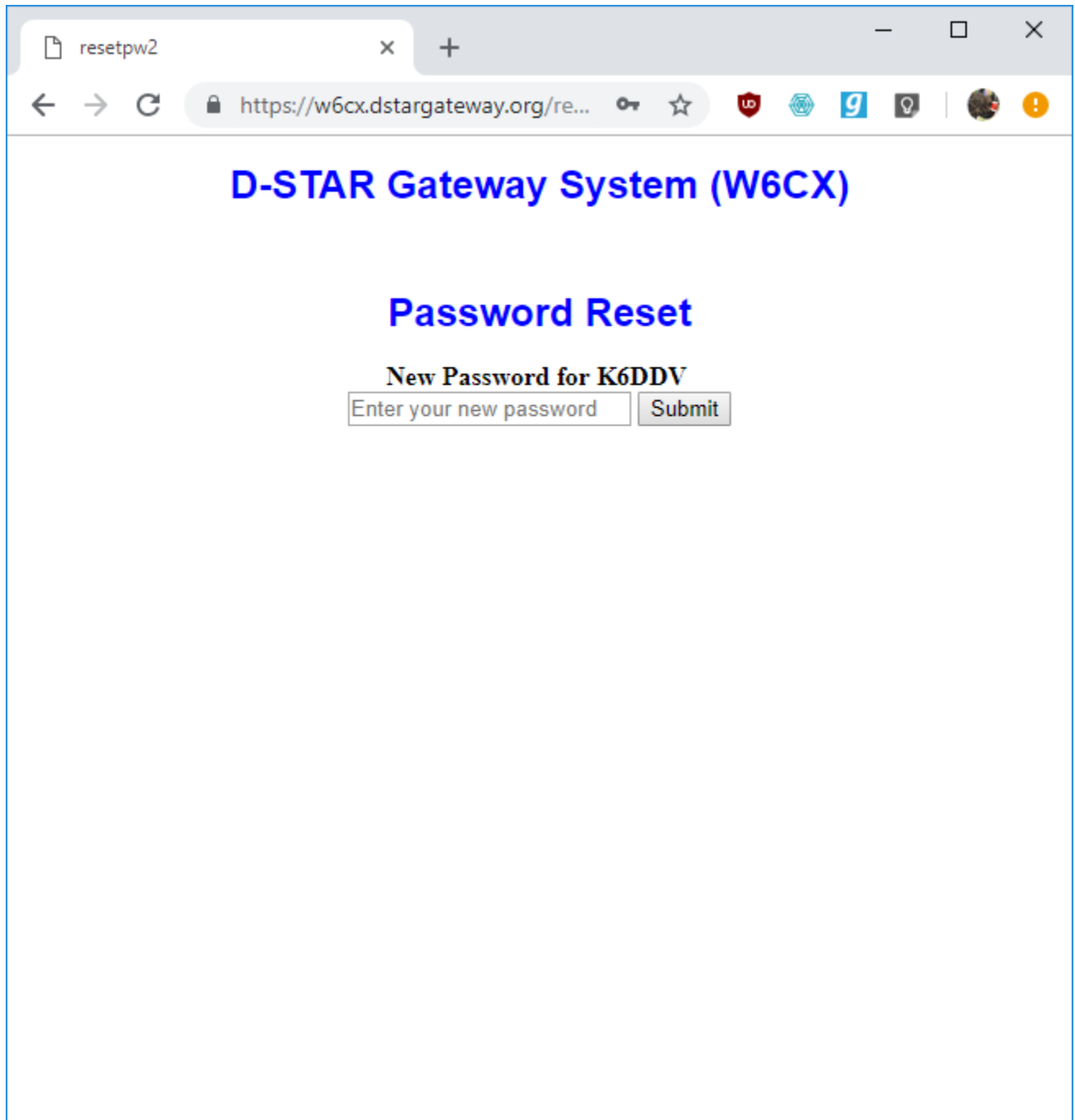
If you did not make this request, you can ignore this email. To reset your password, please click on the link below.

<https://w6cx.dstargateway.org/resetpw2.php?selector=3335373738393539&validator=7e78b11e413dcc7d49c04591fc9eb053> .

Thanks!

W6CX D-Star Gateway Administrators

The new password is required, but virtually no editing or duplicate entry is provided, due to the ease of doing another reset.



resetpw2

https://w6cx.dstargateway.org/re...

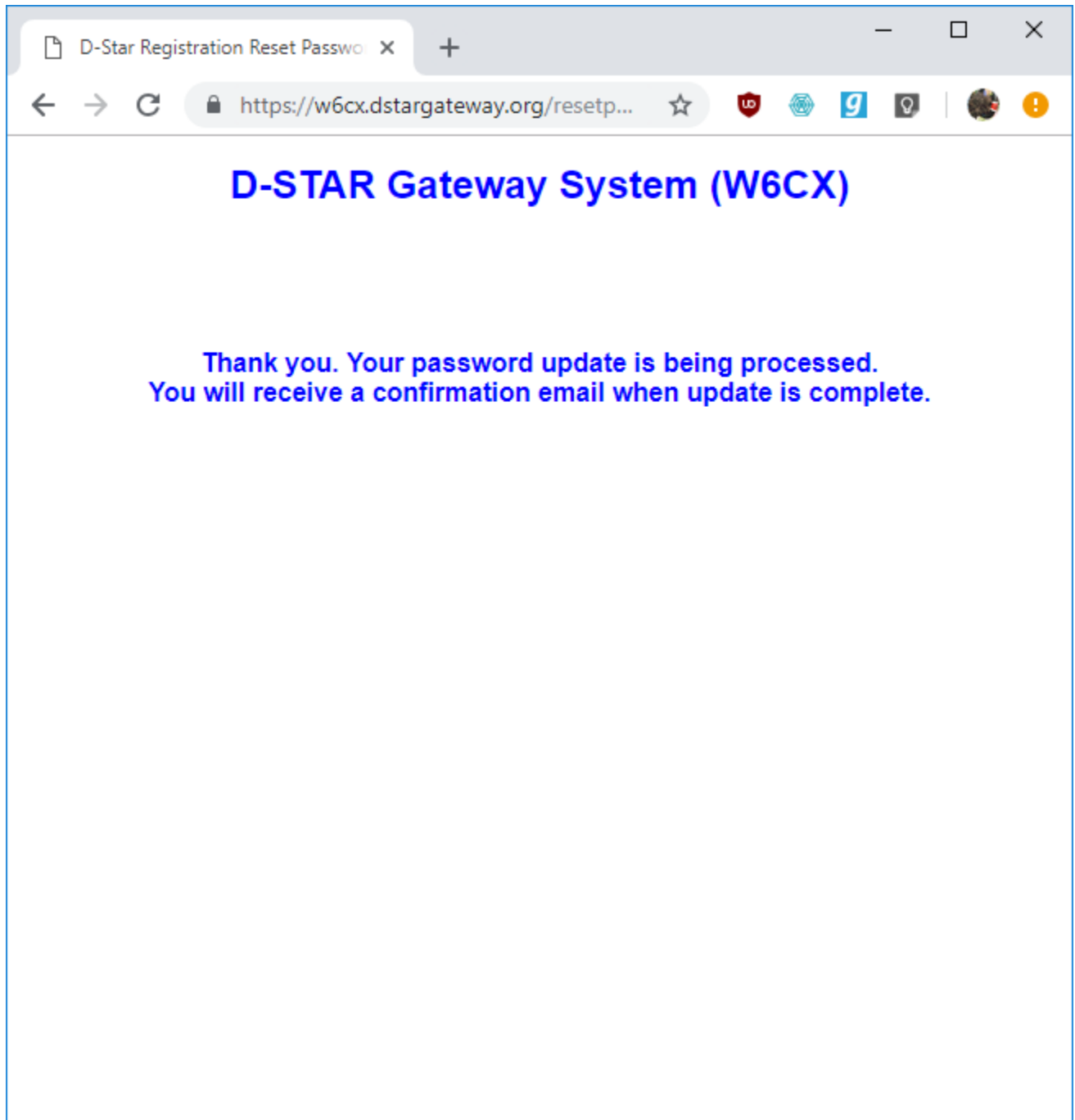
## D-STAR Gateway System (W6CX)

### Password Reset

**New Password for K6DDV**

Enter your new password

At this point, the reset request is queued. It is recommended to have cron run the reset script once each second. It provides no measurable load on the system.



The user is sent a confirmation email when reset is complete.

**Jim Moen**

---

**From:** W6CX D-Star Gateway <dstar@mdarc.org>  
**Sent:** Thursday, January 10, 2019 2:10 PM  
**To:** jmm@k6jm.com  
**Subject:** Your D-Star password has been reset on the W6CX Gateway.

Congratulations,

01/10/19 22:10:01 (UTC) Password successfully changed for Callsign: K6DDV

Thanks!

W6CX D-Star Gateway Administrators