**EVX QR Redirector: Executive & Technical Overview**

**What is it?**

The EVX QR Redirector is a Cloudflare Worker that ensures QR code and short-link URLs for EVX charging stations always resolve to the correct destination, regardless of how users access them. It provides a seamless, reliable experience for drivers and enables flexible, future-proof management for the business.

**How does it work?**

* Smart Redirection:
* When a user scans a QR code or visits a short URL like '<https://cpr.evx.tech/public/cs/20501B>', the Worker intercepts the request.  
  It checks that the request is for the correct host and that it matches the expected pattern for a charger ID.  
  If valid, it instantly redirects the user to the main app URL ('<https://cp.evx.tech/public/cs/qr')> with a unique identifier for the charger embedded in the query string (e.g., 'evseid=AU\*EVX\*20501B').
* Loop & Error Protection:
* The Worker will not redirect if the request is already for the QR endpoint or if the special identifier is already present, preventing infinite loops and unnecessary processing.  
  Invalid or malformed requests are safely ignored or return a simple error, ensuring only legitimate traffic is processed.

**What is not included in this version**

* There is no web admin available to adjust GEO or PAYMENT PROVIDER endpoints.
* GEO is currently locked to AU.
* Endpoint currently only redirects in the format designated by AMPECO.

**Why is this valuable?**

* Business Reliability:
* QR codes and short links printed on hardware or signage will always work, even if the backend or app URLs change in the future.  
  No need to reprint or update codes—just update the redirect logic if business needs change.
* Security & Control:
* Only valid, expected requests are processed. All others are ignored, reducing risk of abuse.  
  Logic is managed centrally in Cloudflare, so changes are instant and global.
* Scalability:
* The system is serverless and globally distributed, so it can handle any scale of user traffic with no performance bottlenecks.

**Example QR Code & How to Test**

Below is a sample QR code that demonstrates the redirector in action:



1. How to test:
2. Open your smartphone camera or a QR code scanning app.
3. Scan the QR code above.
4. The code will open a URL in the format: '<https://cpr.evx.tech/public/cs/20501B>' (or similar, depending on the QR code data).
5. The redirector will automatically forward you to: '[https://cp.evx.tech/public/cs/qr?evseid=AU\*EVX\*20501B](https://cp.evx.tech/public/cs/qr?evseid=AU*EVX*20501B)'.
6. Confirm that the final URL in your browser matches the expected format and that the page loads successfully.

Note:  
- If you want to test with other charger IDs, simply change the last part of the URL before scanning or entering it in your browser.  
- The redirector will only process valid charger IDs and will not redirect if the URL is already in the QR format or contains the special identifier.  
- The redirector has been tested to the APP level. However the APP interface does not appear to currently handle the **evsiud** query string.