TrustlessMark Proof Deployment Checklist
Cloudflare Integration Guide v1

Verification Root: https://verify.trustlessmark.org/fcc/

Version: OCP-v1 | Date: October 2025

This manual provides step-by-step instructions for deploying and verifying TrustlessMark certification proofs via Cloudflare Pages and Shopify.

1. Overview

TrustlessMark certification proofs are hosted on Cloudflare Pages under the `/verify` directory. Each certification consists of a JSON manifest and a corresponding signature (.sig). When linked from Shopify product pages, these proofs allow real-time public verification by consumers, partners, and search engines.

2. File Placement Structure

Ensure your Cloudflare Pages project follows this directory hierarchy:
```
verify/ ███ fcc/ ███ certifications/ ███ usda-organic.json ███ usda-organic.sig ███ fair-trade.json ███
fair-trade.sig ███ ... ███ trustlessmark-verified.sig
```

3. Upload Procedure

Step	Action
1	Extract FCC_TrustlessMark_Proofs_Cloudflare_Upload_v1.zip
2	Open your Cloudflare Pages project for verify.trustlessmark.org
3	Navigate to /fcc/certifications/ directory
4	Upload all JSON and SIG files directly or via Git commit
5	Confirm deployment completes successfully (Status: Published)

4. Verification Tests

You can test proof accessibility using curl or your browser:
```
curl -I https://verify.trustlessmark.org/fcc/certifications/usda-organic.json curl -I
https://verify.trustlessmark.org/fcc/certifications/usda-organic.sig
```

Expected response: HTTP 200 OK

5. Shopify Integration Validation

In Shopify's product.liquid or product.json templates, ensure your snippet references the correct metafields. For testing, temporarily assign verified = true in your theme code and check for badge rendering.

Inspect page source → confirm JSON-LD script block includes TrustlessMark fields such as:

```
"trustlessmark:signature": "https://verify.trustlessmark.org/fcc/certifications/usda-organic.sig",
"trustlessmark:hashType": "SHA-256"
```

6. Renewal & Signature Rotation

All proofs expire annually. To renew: 1. Regenerate JSON and SIG files using updated timestamps and hashes. 2. Replace the old files in /verify/fcc/certifications/. 3. Revalidate links via curl and Shopify preview. 4. Optionally archive prior-year proofs in /archive/ for transparency.

Appendix: Example Proof Entries

```
https://verify.trustlessmark.org/fcc/certifications/usda-organic.json
https://verify.trustlessmark.org/fcc/certifications/texas-veteran-owned.json
https://verify.trustlessmark.org/fcc/certifications/women-owned.json
https://verify.trustlessmark.org/fcc/certifications/compostable-packaging.json
```

Verified via TrustlessMark Foundation – October 2025