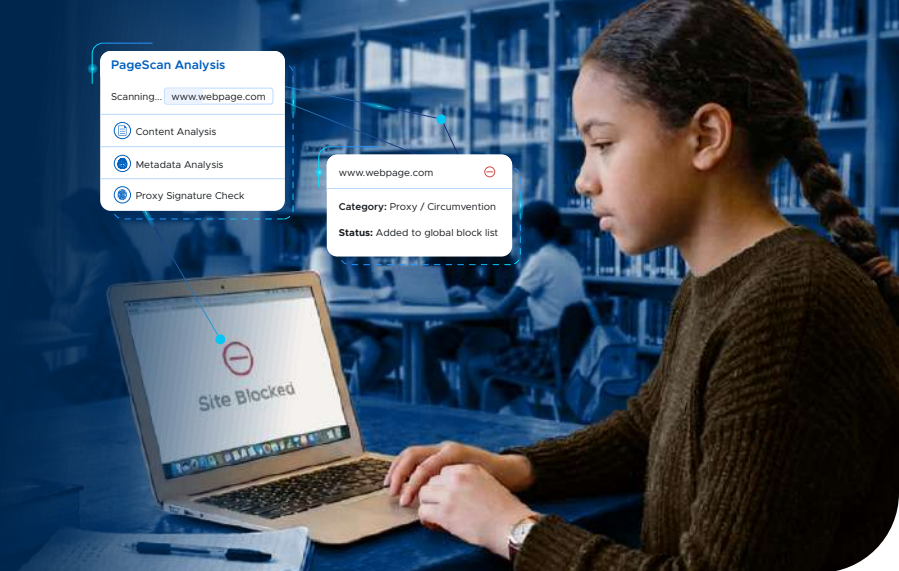




PageScan for Securly Filter

Real-time site classification and proxy detection powered by multi-layer AI



Securly Filter is K-12's cloud-native web filter, built to keep students safe on any device, on any network, anywhere learning happens. At the core of how Filter decides what to allow and what to block is PageScan, our proprietary site categorization engine. PageScan combines large language models, computer vision, and other techniques to classify the web in near real time, so your filtering policies stay accurate as the internet changes by the minute.

The categorization challenge

Hundreds of thousands of new domains come online every day. Static list based filters cannot keep pace, which is how adult content, gaming sites, AI generated spam pages, and freshly spun up proxies slip through. Even newer web filters using categorization engines built on past assumptions aren't going to be able to handle modern student bypass techniques.

Students no longer rely on basic proxy sites. They cycle through newly registered top level domains, self hosted web proxies built on open source frameworks like Ultraviolet, Scramjet, and Rammerhead, embedded iframes on user generated content platforms, and cloaked game aggregators with secret launchers. With so many evasion techniques, you need an arsenal of detection techniques.

PageScan was engineered to solve this problem for K-12 at scale, evaluating unknown sites the moment a student requests them and propagating that categorization across every device running Securly Filter.

How PageScan works

When a student visits a domain that is not yet in Securly Filter's classification database, PageScan is invoked and

- 1 An AI agent first scans page-level text, metadata, images, and structure to identify known proxy fingerprints and adult content.
- 2 A large language model interprets semantic signals and structural patterns to assign the site to one of Securly Filter's supported categories, the same categories admins use to build policies.
- 3 Once a site is categorized, the verdict is written to Securly Filter's global database. Every one of the 8.6 million students protected by Securly Filter benefits from that classification immediately, no manual list updates required.
- 4 Reclassification requests submitted by teachers and admins are triaged primarily by an enhanced PageScan LLM.
- 5 Only edge cases that require human judgment escalate to Securly's support team, with resolution typically within one business day.

PageScan's enhanced proxy and circumvention detection

Securly Filter's PageScan features enhanced capabilities specifically to detect proxy sites. Our proprietary algorithm goes beyond surface-level analysis, scanning a new page's code and metadata to identify patterns indicative of proxy and circumvention tools.

When a proxy site is identified, its signature is added to Securly Filter's block list. This means that all students using Securly Filter are protected from new proxy sites.

Why it matters for K-12 IT teams

- **Near real-time coverage of new sites:** Emerging threats and freshly registered domains are classified the moment they appear, not days later.
- **Stronger defense against circumvention:** Continuously updated proxy signatures harden Securly Filter against the techniques students actually use.
- **Defense against self hosted and open source proxies.** Detection runs on page behavior and framework signatures, not just domain lists, so newly stood up proxies fail on first contact.
- **Less manual category management:** Automated reclassification reduces ticket volume so IT can focus on higher value work.
- **Continuous fleet wide learning.** Every classified site strengthens protection for every Securly Filter school and district, including yours.
- **Compliance aligned:** Accurate, defensible categorization supports CIPA and other state and federal requirements.

Summary

PageScan turns Securly Filter into a unified intelligence layer that gets smarter with every site it sees. Combined with Securly Filter's true cloud architecture, device agnostic coverage across Chromebooks, iPads, Macs, and Windows, and best-in-class support, PageScan gives district IT teams confidence that policy is being enforced accurately, everywhere students go online.

Make security simple with cloud-based web filtering designed for schools

With easy setup, the highest-rated support, and unparalleled flexibility, Securly Filter streamlines and simplifies web filtering for busy school IT teams. Keep your students safe on all devices, whether at school, home, or anywhere in between.

Register for a demo now. [Click Here](#) or **Scan** the QR Code

