

Website Speed

At Edlio, we work hard to ensure our websites are significantly faster than most websites by investing significant resources so each Edlio powered school or district website is significantly faster than non-Edlio powered school and district websites:

1. **Server side architecture:** Edlio's server side architecture is designed to ensure that structured data driven dynamic pages are built very quickly. Each Edlio site in their source code reveals how many milliseconds it takes to build the particular page. To see that, one would right click and choose "view source". Depending on how graphic heavy the site is, each page is built by our servers within 20 and 250 ms's. This metric does not mean that the site is delivered in this time period to the requester's browser because most of the traffic served from Edlio servers are already cached at the edge servers.
2. **Caching at the Edge:** A very important parameter in perceived speed of page load times is what happens to a request from a computer located in a particular geography. When one goes to www.edlio.org from any place in the United States, the request is immediately routed to the geographically closest "edge server location". For example, if a request is made in Fort Worth, Texas, the system should go to the closest edge server located in Dallas and serve the page from there. By serving content from the closest edge location, the latency is minimized. If one assumes that there is about 70 ms's of latency between east and west coasts of the US, serving from a close edge location is a massive performance increase.
3. **Caching:** Regardless where one caches, Edlio's CMS is a very heavy read operation. Over 100,000 teachers and administrators put content into these sites daily, but more than 2,000,000 people consume the content every day. The information that most people consume changes relatively slowly in comparison to the number of people reading it which makes it ideal to "cache" content until something changes. Currently using Fastly, a leading CDN, we can control how we cache content at the edge servers. Currently Edlio caches about 90% of its content at edge servers which minimizes the number of requests to our servers in our data centers translating in expeditive speeds at the local browser of school and district website visitors.