

Application Sequencing

Accelerate the time to meaningful shopper interaction with all third-party features of your online store loading in the most efficient way. Application Sequencing provides a single ruleset to manage all the third parties, whether they are loaded via a tag manager or website source. Based on observed performance of over 1,000 third party tags across over 1,500 sites, fine-tune controls are available to schedule and prioritize when and how third parties load. This minimizes common performance impacts from third party tags slowing down the intended customer experience with features beyond what tag managers or common DIY patterns can provide.

The Internet has very inconsistent performance and every third party loaded is an opportunity for stalling or blocking a site visitor from browsing and purchasing your products. Yottaa optimizes third parties on the critical load path beyond what tag managers or simple lazy loading approaches can do, accelerating your shopping experience.

Rule Types

Rule Types can be applied to both third party tags and any other custom resource your site leverages.

Sequence Resource Rule

- **After First Interaction** – Sets the resource to load after the shopper clicks, scrolls, types, or moves the mouse and can include a set number of milliseconds delay after the interaction. This can be combined with the Onload event such that the tag is loaded after the first interaction after onload.
- **After Onload** – Sets the resource to load a specified number of milliseconds after onload browser event.
- **Lazy Load** – Sets the resource to load when an element of the site has been rendered. For example, you can delay product reviews until the shopper scrolls to the reviews section.
- **After UI Event** – Sets the resource to load when a customer interacts with a specific element of your site.
- **After Pubsub Event** – Sets the resource to load based on a prompt from the Rapid Publish or Subscribe APIs. This allows for an external event to drive when a third party tag loads.
- **Load Normally** – Sets the resource to load normally.

Dynamic Sequencing Rule

- **Priority** – Critical, High, Medium, Low – Tags can be assigned to a priority group to accommodate desired order for key vendor solutions such as analytics beacons or personalization tags that need browser data to inform their response.
- **Spread** – The spread rule loads each third party with a configurable millisecond lag consistently even if a specific third party tag's response is slow or not responding.

Catch-all

Sequence Resource rules and the Spread rule in Dynamic Sequencing rule can be a catch-all rule for remaining tags. This will automatically catch new tags added to site without a specific rule for each third party.

Block Resource Rule

Third party or custom resources can be blocked regardless of whether source has the request embedded or not (a fast way to turn something off without an update to your website storefront).

JavaScript Injection

Ability to immediately add new features to your site without a release via a specified JavaScript. JavaScript injection can also be used to track custom performance or business metrics, and to fire tags appropriately based on the metric. For example, firing off specific configurations based on if a SPA Page is in a transition or a clean load page. Use JavaScript injections when you need to immediately add JavaScript and cannot wait for the next release cycle.

Security & Oversight

Application Sequencing uses several techniques to monitor, capture and control the invocation of objects loaded by your storefront. A mutation listener tracks when third parties are being loaded directly by the HTML source. Dynamic modifications (monkey patching) can be facilitated or blocked at runtime with the goal of changing the behavior of third-party code. A common use case is in limiting a third party, such as a social platform, from overextending their reach.

YOTTAA's patented Application Sequencing allows you to optimize your shopper experience and the intent behind Google's Core Web Vitals. The shopper has the experience you intend more consistently while you maintain fine-tune control over the features delivered by third parties such as product recommendations, ratings, reviews and the plethora of capabilities you've added to your site.