

[PUBLIC] Timing Information for ServiceWorker Static Routing API Origin Trial Feedback summary

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Last updated: May 15, 2025

Status: Ready for review ▾

ChromeStatus: [link](#)

Summary

This document highlights the feedback we received from the origin trial (running from M131 to M139) for the timing information of Service Worker static routing API. We believe the feedback we received are overall positive, and are confident that the feature is beneficial, and would like to ship the feature.

Context

Origin Trial Summary

The origin trial ran from M131 to M136, and was extended once to M139. 20+ origins participated in the trial. The purpose of the OT is to gather data on whether this provides enough information on debuggability of the developers.

Summary of Received Feedbacks

Feedback 1: Service Worker Router Evaluation Start Time

Regarding the Service Worker Router Evaluation Start Time, our initial assumption was that developers might not find this field particularly interesting, as our own preliminary data analysis suggested that the router evaluation time is generally negligible. Therefore, we have kept the field as in discussion in our explainer.

However, feedback from the origin trial indicated that developers considered it a "nice to have" feature ([link](#)). For some, this information served to confirm that the evaluation time was indeed negligible in their specific use cases. Furthermore, it was highlighted that for developers implementing complex router rules, this evaluation time might not be insignificant, making the timing data potentially more valuable for them.

Feedback 2: Usefulness of the router source information

The developers found the router source information to be very useful. This was particularly highlighted in the context of tracking and attributing navigation requests.

One developer provided the following direct feedback, emphasizing the value of `workerMatchedRouterSource`:

"Besides the timer discussion, `workerMatchedRouterSource` is extremely useful for us to attribute the source of the navigate request in our tracking.

Are you planning to release this in one of the next Chrome versions? It would be highly appreciated from our end".

This feedback underscores the practical benefit of the router source information for developers in their everyday debugging and analytics workflows ([link](#)).

Feedback 3: Inconsistent field names

Other feedback received during the origin trial included instances where field names were inconsistent with those used in the explainers.

This issue has since been addressed and fixed.

Feedback 4: FetchStart is smaller than the router evaluation start time in Performance Timing API when using "network"

During feedback collection for the Origin Trial, it was pointed out that the `fetchStart` timing isn't appearing as expected in the navigation timing API in certain scenarios.

Currently, it seems that `fetchStart` appears before the newly added service worker router evaluation start time (the point when the static routing API checks installed rules to route the request, as described in the explainer) specifically when no service worker is involved. However, the expected order is that the router evaluation start time should precede `fetchStart`, as the router evaluator determines where to fetch the request.

After investigating, it is believed that `fetchStart` might be recorded a bit too early in the navigation process. Findings indicate that `fetchStart` is currently recorded for non-Service Worker cases in `NavigationRequest::OnStartChecksComplete`, which occurs before the router evaluator starts, leading to this inconsistency. This issue has been documented in a [bug report](#).