

FetchEvent

August 17, 2026

FetchEvent

Kind: Interface**Source:** <src/adapter/service-worker/types.ts>**Part of:** [Adapter](#)

`FetchEvent` represents a fetch handled by the service worker adapter. It carries the incoming `Request`, client identifiers, preload state, and a completion promise, while `respondWith()` marks the event as handled by the adapter.

Properties

Property	Type
<code>clientId</code>	<code>string</code>
<code>handled</code>	<code>Promise<void></code>
<code>preloadResponse</code>	<code>Promise<any></code>
<code>request</code>	<code>Request</code>
<code>resultingClientId</code>	<code>string</code>

Diagram

```
graph LR
  Client[Client] --> Request[Request]
  Request --> Event[FetchEvent]
  Event --> ClientId[clientId]
  Event --> ResultingClientId[resultingClientId]
  Event --> Preload[preloadResponse]
  Event --> Handled[handled]
  Event --> RespondWith[respondWith()]
```

Usage

```
function handleFetch(event: FetchEvent): void {
  const request = event.request;

  void event.preloadResponse.then((preloaded) => {
    console.log("Preloaded response:", preloaded);
  });

  void event.handled.then(() => {
    console.log("Fetch handling completed for:", request.url);
  });

  console.log("Client:", event.clientId);
  console.log("Resulting client:", event.resultingClientId);

  event.respondWith();
}
```

AI Coding Instructions

- Read `event.request` for the incoming URL, method, headers, and request body.
- Call `respondWith()` according to the adapter event contract.
- Treat `handled` as a signal that fetch processing has completed.
- Do not assume `preloadResponse` resolves to a `Response` ; its type is `any` .
- Use `clientId` and `resultingClientId` when request handling depends on client navigation state.

How it works

`FetchEvent` is an exported TypeScript interface for the event accepted by the service-worker adapter's handler. It extends `ExtendableEvent` , which itself extends `Event` .
[src/adapter/service-worker/types.ts:1-6] The adapter defines its handler as a function that takes this interface and returns `void` . [src/adapter/service-worker/handler.ts:10]

It declares these members:

- `request` : a read-only `Request` representing the request passed to the application. [src/adapter/service-worker/types.ts:11]
- `respondWith(r)` : a method accepting either a `Response` or a thenable that resolves to a `Response` . [src/adapter/service-worker/types.ts:13]
- `clientId` and `resultingClientId` : read-only strings. [src/adapter/service-worker/types.ts:7,12]

- `handled` : a read-only `Promise<void>` . [src/adapter/service-worker/types.ts:8]
- `preloadResponse` : a read-only `Promise<any>` . [src/adapter/service-worker/types.ts:9-10]
- `waitUntil(f)` , inherited from `ExtendableEvent` , which accepts a `Promise<any>` and returns `void` . [src/adapter/service-worker/types.ts:1-4]

When `handle(app, opts)` receives a `FetchEvent` , it calls `evt.respondWith(...)` with an async operation. That operation calls `app.fetch(evt.request, {}, evt)` , passing the event as the third argument. [src/adapter/service-worker/handler.ts:25-35]

Consequently, application code can read event members through its execution context; the adapter test reads `c.executionCtx.clientId` and receives the event's mocked `clientId` . [src/adapter/service-worker/handler.test.ts:95-119]

If the application response has status `404` and `opts.fetch` is defined, the handler calls `opts.fetch(evt.request)` and passes that result to `respondWith` ; otherwise, it passes the application response. [src/adapter/service-worker/handler.ts:29-35] The default option binds `globalThis.fetch` to `globalThis` . [src/adapter/service-worker/handler.ts:20-23]

`FetchEvent` itself contains only type declarations: it has no implementation, runtime validation, thrown errors, or direct side effects in `types.ts` . [src/adapter/service-worker/types.ts:1-14]