

The EME Logger Extension



By Sam Dutton

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Do you use Encrypted Media Extensions?

If so, you may be interested in EME Logger: a Chrome extension from Google that logs EME events and calls to the DevTools console along with debugging information.

You can install EME Logger extension from the Chrome Web Store..

The screenshot shows a Chrome browser window with a YouTube video player. The video is titled "Sintel5x NoAuth DevSec" and is by the channel "prod torso". The video has 5,476 views. The video player shows a scene from the Sintel animation, featuring a cave with a bright light source and several figures. The Chrome DevTools console is open on the right side of the browser, displaying logs from the EME Logger extension. The logs show various EME events and calls, including "RequestMediaKeySystemAccessCall Promise Result", "GetConfigurationCall", "CreateMediaKeysCall", "CreateSessionCall", "GenerateRequestCall", "UpdateCall", and "keystatuschange". The logs also include timestamps and details about the events, such as the status of promises and the results of calls. The console also shows some deprecation warnings for "webkitMovementX" and "webkitMovementY".

```
Elements Network Sources Timeline Profiles Resources Audits Console
<top frame>
formattedMessage: undefined
VM156:406
▶ e...s.EmeEvent {type: "encrypted", event: MediaEncryptedEvent, timeStamp: "Wed Sep 16 2015 13:45:28 GMT-0700 (PDT)", target: e...s.TargetElement, formattedMessage: undefined}
VM156:393
▶ e...s.EmeMethodCall {name: "CreateSessionCall", argValues: Array[0], argLabels: Array[0], returned: MediaKeySession, target: e...s.TargetElement...}
VM156:393
▶ e...s.EmeMethodCall {name: "GenerateRequestCall", argValues: Array[2], argLabels: Array[2], returned: Promise, target: e...s.TargetElement...}
VM156:406
▶ e...s.EmeEvent {type: "webkitneedkey", event: MediaKeyEvent, timeStamp: "Wed Sep 16 2015 13:45:28 GMT-0700 (PDT)", target: e...s.TargetElement, formattedMessage: undefined}
VM156:421
▶ e...s.PromiseResult {description: "GenerateRequestCall Promise Result", status: "resolved", result: undefined}
VM156:421
▶ e...s.PromiseResult {description: "GenerateRequestCall Promise Result", status: "resolved", result: undefined}
VM156:406
▶ e...s.EmeEvent {type: "message", event: MediaKeyMessageEvent, timeStamp: "Wed Sep 16 2015 13:45:28 GMT-0700 (PDT)", target: e...s.TargetElement, formattedMessage: undefined}
VM156:406
▶ e...s.EmeEvent {type: "message", event: MediaKeyMessageEvent, timeStamp: "Wed Sep 16 2015 13:45:28 GMT-0700 (PDT)", target: e...s.TargetElement, formattedMessage: undefined}
VM156:393
▶ e...s.EmeMethodCall {name: "UpdateCall", argValues: Array[1], argLabels: Array[1], returned: Promise, target: e...s.TargetElement...}
VM156:421
▶ e...s.PromiseResult {description: "UpdateCall Promise Result", status: "resolved", result: undefined}
VM156:406
▶ e...s.EmeEvent {type: "keystatuseschange", event: Event, timeStamp: "Wed Sep 16 2015 13:45:28 GMT-0700 (PDT)", target: e...s.TargetElement, formattedMessage: undefined}
VM156:393
▶ e...s.EmeMethodCall {name: "UpdateCall", argValues: Array[1], argLabels: Array[1], returned: Promise, target: e...s.TargetElement...}
VM156:421
▶ e...s.PromiseResult {description: "UpdateCall Promise Result", status: "resolved", result: undefined}
VM156:406
▶ e...s.EmeEvent {type: "keystatuseschange", event: Event, timeStamp: "Wed Sep 16 2015 13:45:28 GMT-0700 (PDT)", target: e...s.TargetElement, formattedMessage: undefined}
VM156:406
▶ e...s.EmeEvent {type: "message", event: MediaKeyMessageEvent, timeStamp: "Wed Sep 16 2015 13:45:28 GMT-0700 (PDT)", target: e...s.TargetElement, formattedMessage: undefined}
VM156:406
▶ e...s.EmeEvent {type: "message", event: MediaKeyMessageEvent, timeStamp: "Wed Sep 16 2015 13:45:28 GMT-0700 (PDT)", target: e...s.TargetElement, formattedMessage: undefined}
VM156:393
▶ e...s.EmeMethodCall {name: "PlayCall", argValues: Array[0], argLabels: Array[0], returned: undefined, target: e...s.TargetElement...}
VM156:406
▶ e...s.EmeEvent {type: "play", event: Event, timeStamp: "Wed Sep 16 2015 13:45:29 GMT-0700 (PDT)", target: e...s.TargetElement, formattedMessage: undefined}
VM156:393
▶ e...s.EmeMethodCall {name: "UpdateCall", argValues: Array[1], argLabels: Array[1], returned: Promise, target: e...s.TargetElement...}
VM156:421
▶ e...s.PromiseResult {description: "UpdateCall Promise Result", status: "resolved", result: undefined}
VM156:393
▶ e...s.EmeMethodCall {name: "UpdateCall", argValues: Array[1], argLabels: Array[1], returned: Promise, target: e...s.TargetElement...}
VM156:421
▶ e...s.PromiseResult {description: "UpdateCall Promise Result", status: "resolved", result: undefined}
```

The code for EME Logger is available at github.com/google/eme_logger. Patches, bug reports and feature requests welcome.

More information about EME is available from the HTML5 Rocks article [EME WTF](#) [?](#)?

As an alternative to 'roll your own' EME, we recommend Shaka Player: an easy-to-use JavaScript library developed by Google that enables adaptive delivery of protected (and unprotected) media. Shaka Player implements [Dynamic Adaptive Streaming over HTTP](#) with [Media Source Extensions](#) to deliver the best possible video performance at any bandwidth. Shaka also supports multilingual content for audio tracks and subtitles. Find out more about Shaka Player at g.co/shakainfo.

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