Web Payments
TPAC 2019

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Payment Request 1.0
Implementation Status

What is outstanding from a Chrome perspective?

1. Feature Policy bug: [crbug.com/972089](https://crbug.com/972089) (ETA: Chrome 80)
Retry()

Status: Chrome 78 (thank you, Jinho!)

TL;DR: Retry payment after user authorized payment.

Retry with payer info validation

This merchant only accepts payerEmail "test@email.com" for payer information. Otherwise, the payment UI will be shown again with an error message. No payment will be processed.

Price: USD $1.00 (tentative)

Can make payment

- Email error message

Order summary
Total USD $1.00

Payment method Visa  •••• 1111, Rouslan Solomakhin

Contact info rouslan.test@gmail.com

Edit
Pay

Retry with payer info

Enter the CVC for Visa

Once you confirm, your card details will be shared with this site.

123

Edit
Pay

Edit contact info

Email* rouslan.test@gmail.com

The email should be test@email.com.

* Field is required

Cancel
Done
Payment Handlers
Agenda

- Value proposition
- Demos
- Discussion
Payment Handler value proposition

to payment applications

Higher Completion Rates + Lower Effort + Enhanced Security
What are we focused on to improve the value proposition for Payment Handers?

1. Change events
2. Full delegation
3. Improved ergonomics
4. Additional UI options
**Status:** Chrome 76

**TL;DR:** Get updated total from merchant when user selects a card in the handler

```javascript
// Payment handler:
paymentRequestEvent.changePaymentMethod('https://google.com/pay',
    {billingCountry: 'GB'});

// Merchant:
paymentRequest.addEventListener('paymentmethodchange', (evt) => {
    evt.updateWith({
        total: {
            label: 'Updated total',
            amount: {
                currency: 'USD',
                value: '60.00',
            },
        },
    });
});
```
JIT Install

Status: Chrome 77. 50% rollout in Canary, Dev, Beta channels

TL;DR: Expand JIT to all URL-based payment methods in a payment request, even if basic-card is also requested

Before

After

User can still choose to use basic-card
Payment handler event logging

**Status:** Chrome 78

**TL;DR:** Inspect payment handler events in Chrome developer tools.
Enable delegation to payment handlers

TL;DR: Enable payment handlers to handle all information requested by the merchant.

*Basic-card + GPay* (v2)

This page is a test of (basic-card, Google Pay) hybrid case. It uses Google Pay API v2. No money will be charged.

This test also sets the following PaymentRequestOptions:

- requestPayerName
- requestPayerEmail
- requestPayerPhone

Price: $50 USD

Can make payment: true

Has enrolled instrument: true
PH delegation: adaptive section display

**Status:** Chrome 79

**TL;DR:** Shipping/contact sections not shown in payment sheet if the selected PH supports delegation

```javascript
// Payment handler:
await registration.paymentManager.enableDelegations(['shippingAddress', 'payerName', 'payerPhone', 'payerEmail']);
```

Explainer:
[w3c/payment-handler/issues/337](https://w3c/payment-handler/issues/337)
PH delegation: shipping address/option change

**Status:** Chrome 79

**TL;DR:** PHs can send shipping address/option change events and get updated details from merchant

```javascript
// Payment handler:
paymentRequestEvent.changeShippingAddress({
  addressLine: [
    '340 Main St',
  ],
  city: 'Venice',
  country: 'US',
  ...,
  region: 'CA',
});
paymentRequestEvent.changeShippingOption('express');
```

```javascript
// Merchant:
paymentRequest.addEventListener(
  'shipping[address|option]change',
  (evt) => {
    evt.updateWith( ...
  });
```
Scroll to expand

**Status:** Chrome 80 (tentative)

**TL;DR:** Payment sheet expands to full screen for large payment sheets upon user interaction
Minimal UI flow

Status: Experimental.
Looking for feedback.

Why?
- Use-cases that don’t require large UI footprint
- Seamless user verification
What else can we do to ensure payment handler succeed? *New features? Different use-cases?*
Discussion Topics [2 of 3]

- Should **JIT install** & **skip-the-sheet** be included in the Payment Handler spec?
Discussion Topics [3 of 3]

- Feedback on the **minimal UI flow**?