Google Pay API PaymentRequest Tutorial

The Google Pay API can be used in conjunction with other supported payment methods in PaymentRequest.

Important: Chrome for Android is currently the only web browser supporting the Payment Request API with third-party payment methods, including Google Pay. Sites wishing to implement Google Pay as a standalone payment method should use the <u>Google Pay API JavaScript client library</u> with a <u>branded Google Pay button</u> to reach a broader Google audience across multiple browsers and platforms.

Step 1: Create a PaymentDataRequest object

Configure a <u>PaymentDataRequest</u> object specifying your payment gateway and accepted methods of payment. We recommend you obtain shipping address, email address, and phone number through the browser's <u>PaymentRequest options</u> argument, not the Google Pay API, for consistency across payment methods. Use the Google Pay API to receive only the payment credentials and optional billing address.

```
•
var googlePaymentDataRequest = {
  apiVersion: 1,
  // set a TEST environment for initial testing
  environment: 'TEST',
  // a merchant ID is available after approval by Google
  merchantId: '01234567890123456789',
  paymentMethodTokenizationParameters: {
    tokenizationType: 'PAYMENT_GATEWAY',
    // tokenization parameters are provided by your gateway
    parameters: {}
  },
  allowedPaymentMethods: ['CARD', 'TOKENIZED_CARD'],
  cardRequirements: {
    allowedCardNetworks: ['AMEX', 'DISCOVER', 'MASTERCARD', 'VISA']
  }
};
```

Step 2: Declare Google Pay API support

Add the Google Pay API payment method identifier and its configuration to the methodData parameter passed to PaymentRequest.

```
var methodData = [
    {supportedMethods: 'https://google.com/pay', data: googlePaymentDataRequest},
    {supportedMethods: 'basic-card'}
];
```

Putting it all together

The following example shows an implementation of the Google Pay API with other supported payment methods in PaymentReguest:

```
•
<div id="checkout">
  <button id="buyButton">Checkout</button>
</div>
<script>
var allowedCardNetworks = ['AMEX', 'DISCOVER', 'MASTERCARD', 'VISA'];
if (window.PaymentRequest) {
  var request = createPaymentRequest();
  request.canMakePayment()
      .then(function(result) {
        if (result) {
          // Display PaymentRequest dialog on interaction with the existing check-
          document.getElementById('buyButton')
              .addEventListener('click', onBuyClicked);
        }
      })
      .catch(function(err) {
        showErrorForDebugging(
            'canMakePayment() error! ' + err.name + ' error: ' + err.message);
      });
} else {
  showErrorForDebugging('PaymentRequest API not available.');
}
/**
 * Show a PaymentRequest dialog after a user clicks the checkout button
function onBuyClicked() {
  createPaymentRequest()
      .show()
      .then(function(response) {
        // Dismiss payment dialog.
        response.complete('success');
```

```
handlePaymentResponse(response);
      })
      .catch(function(err) {
        showErrorForDebugging(
            'show() error! ' + err.name + ' error: ' + err.message);
      });
}
/**
 * Define your unique Google Pay API configuration
 * @returns {object} data attribute suitable for PaymentMethodData
function getGooglePaymentsConfiguration() {
  return {
    // A merchant ID is available after approval by Google.
    // 'merchantId':'01234567890123456789',
    environment: 'TEST',
    apiVersion: 1,
    allowedPaymentMethods: ['CARD', 'TOKENIZED_CARD'],
    paymentMethodTokenizationParameters: {
      tokenizationType: 'PAYMENT_GATEWAY',
      // Check with your payment gateway on the parameters to pass.
      // @see {@link https://developers.google.com/pay/api/web/reference/object#G
      parameters: {}
    },
    cardRequirements: {allowedCardNetworks: allowedCardNetworks}
  };
}
/**
 * Create a PaymentRequest
 * @returns {PaymentRequest}
function createPaymentRequest() {
  // Add support for the Google Pay API.
  var methodData = [{
    supportedMethods: 'https://google.com/pay',
    data: getGooglePaymentsConfiguration()
  }]:
  // Add other supported payment methods.
  methodData.push({
    supportedMethods: 'basic-card',
    data: {
      supportedNetworks:
          Array.from(allowedCardNetworks, (network) => network.toLowerCase())
    }
```

```
});
  var details = {
    total: {label: 'Test Purchase', amount: {currency: 'USD', value: '1.00'}}
  };
  var options = {
    requestPayerEmail: true,
    requestPayerName: true
  };
  return new PaymentRequest(methodData, details, options);
}
/**
 * Process a PaymentResponse
 * @param {PaymentResponse} response returned when a user approves the payment re
function handlePaymentResponse(response) {
  var formattedResponse = document.createElement('pre');
  formattedResponse.appendChild(
      document.createTextNode(JSON.stringify(response.toJSON(), null, 2)));
  document.getElementById('checkout')
      .insertAdjacentElement('afterend', formattedResponse);
}
/**
 * Display an error message for debugging
 * @param {string} text message to display
function showErrorForDebugging(text) {
  var errorDisplay = document.createElement('code');
  errorDisplay.style.color = 'red';
  errorDisplay.appendChild(document.createTextNode(text));
  var p = document.createElement('p');
  p.appendChild(errorDisplay);
  document.getElementById('checkout').insertAdjacentElement('afterend', p);
}
</script>
```

Payment method parameter list

The Google Pay API configuration passed in PaymentRequest is similar to the PaymentDataRequest object used by the Google Pay API JavaScript client library with a few exceptions:

- Set an apiVersion property value of 1 to associate your data format with a known API version
- An environment property should be set on the object matching a string value described in PaymentOptions
- The transactionInfo property should be omitted. Total price and currency should instead be specified in the details argument passed to PaymentRequest

Additional object properties specified for the Google Pay API payment method in a PaymentRequest payment method data property:

Property Type NecessityDescription	
apiVersion numberrequired	Specifies the data format version. Set to 1 for the current Google Pay API.
environmentstring optional	If set to 'TEST', returns dummy, non-chargeable credentials.

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