# 

**Payment Initiation APIs**

**Lab Guide**



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# Document History

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| --- | --- | --- |
| Author | Version | Date |
| Vinod Vaidyanathan | 0.1-0.3 | Sep 2020 |

Comments:

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| {Add any comments here} |
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# Lab Environment Overview

# Installed Software and Tools

|  |  |
| --- | --- |
| Software | Link |
| Postman | <https://www.postman.com/> |
|  |  |
|  |  |
|  |  |

# Module 1: Get all payment details

|  |  |
| --- | --- |
| Purpose: | This lab introduces the subject of working with Payment API’s  After completing the lab, you should be able to:   * Get all payment details |
|  |  |
| Tasks: | Tasks you will complete in this lab exercise include:   * + Get details of all the payments executed |

| Step | Action |
| --- | --- |
| 1 | **Generating API Key**   1. An API Key is required to work with API’s available in <https://apidocs.temenos.com/> 2. API Key can be generated in the link <https://basecamp.temenos.com/s/> 3. Create a login in <https://basecamp.temenos.com/s/> 4. Once logged in click Getting Started with Temenos APIs      1. Click Request Key link, once done you should receive the key in email. |
| 2 | **Retrieving Payment Orders**   1. To retrieve executed Payment, we are going to use the API getPaymentOrders 2. API doc link - <https://apidocs.temenos.com/service/payment-orders#operation/getPaymentOrders> 3. Query Parameters – Following are the query parameters with which this API can be executed |
| 3 | **Executing API in postman**   1. API link - <https://api.temenos.com/api/v1.0.0/order/paymentOrders> 2. In Postman click on APIs and then open a new tab on the right side      1. Specify the API link in postman      1. Generated API Key in the previous step should be added in the Header      1. If API executed without API key, you will receive a ‘failedToResolveAPIKey’ error.      1. Click ‘Send’ in Postman to execute the API. 2. If executed successfully, Status will be 200 OK and the all Payment details will be available in body. |

## Module 1: Lab Summary

In the first module, we executed an API to extract all the payment details

At this point, we will move on to Part 2, where we will use the same API with query parameters to extract payment details of specific Ordering Customer.

# Module 2: Get Payments based on Ordering Customer

|  |  |
| --- | --- |
| Purpose: | This lab introduces the subject of working with Payment API’s  After completing the lab, you should be able to:   * Get all payments executed for a Customer |
|  |  |
| Tasks: | Tasks you will complete in this lab exercise include:   * + Get list of all Payments by Customer Number |

| Step | Action |
| --- | --- |
| 1 | **Retrieving Payment Orders**   1. To retrieve Payments created for a customer, we are going to use the same API getPaymentOrders 2. API doc link - <https://apidocs.temenos.com/service/payment-orders#operation/getPaymentOrders> 3. Query Parameters – Following are the query parameters with which this API can be executed, we will be using the parameter **‘orderingCustomerId’** |
| 2 | **Filtering using query parameter**   1. API link - <https://api.temenos.com/api/v1.0.0/order/paymentOrders> 2. Specify the API link in postman      1. To get list of all payments for a customer, add “?orderingCustomerId=<CustomerID>” in API link      1. Click Send to execute API, it will get all Payments for ordering customer 100343 |

## Module 2: Lab Summary

In the second module, we executed an API to extract all the payment details for an ordering customer.

At this point, we will move on to Part 3, we will initiate a SEPA payment transaction.

# Module 3: Initiate a SEPA payment

|  |  |
| --- | --- |
| Purpose: | This lab introduces the subject of working with Payment API’s  After completing the lab, you should be able to:   * Initiate a SEPA payment transaction |
|  |  |
| Tasks: | Tasks you will complete in this lab exercise include:   * Initiate payment transactions |

| Step | Action |
| --- | --- |
| 1 | **SEPA transaction**   1. To initiate a SEPA transaction, we are going to use end point <https://api.temenos.com/api/v1.0.0/order/paymentOrders> 2. API documentation - [https://apidocs.temenos.com/service/payment-orders#operation/createPaymentOrder](https://apidocs.temenos.com/service/payment-orders%23operation/createPaymentOrder) 3. To post a payment, we will have to form the Payload. Payment can accept various parameters in Payload Body. 4. Parameters that can be used for initiating a payment |
| 2 | **Initiating SEPA transaction**   1. In this example we will use the following Payload to initiate SEPA payment   {    "header": {},    "body": {        "paymentOrderProductId": "SEPA",      "debitAccountIBAN": "GB88DEMO60161300080737",      "paymentCurrencyId": "EUR",      "amount": "50",      "accountWithBankBIC": "BARCGB22",      "beneficiaryIBAN": "DE92100400000012345678",      "orderingCustomerName": "Rolf Gerling",      "endToEndReference": "TEST SEPA",      "executionDate": "2020-04-17",      "beneficiaryName": "GENERAL MOTORS"    }  }   1. In Postman API should be set to POST mode      1. Payload should be set in Body section of the API      1. Execute the API by clicking Send, if Successful a transaction Status would be Success and a Payment Reference would be returned |
|  |  |

## Module 3: Lab Summary

In the third module, we executed an API to initiate a SEPA Payment.

At this point, we will move on to Part 4. Where we will see how to initiate a SEPA instant payment.

# Module 4: Initiate a SEPA Instant payment

|  |  |
| --- | --- |
| Purpose: | This lab introduces the subject of working with Payment API’s  After completing the lab, you should be able to:   * Initiate a SEPA instant payment transaction * Use modified Payment API to return transparency check response |
|  |  |
| Tasks: | Tasks you will complete in this lab exercise include:   * Initiate SEPA instant payment transactions * Check transparency details |

| Step | Action |
| --- | --- |
| 1 | **SEPA Instant transaction**   1. To initiate a SEPA instant transaction, we are going to use <https://api.temenos.com/api/v1.0.0/order/paymentOrders/sepaInstantTransfer> 2. API documentation - <https://apidocs.temenos.com/service/payment-orders#operation/createSepaInstantPayment> 3. To post a payment, we will have to form the Payload. SEPA instant payment can accept various parameters in Payload Body. 4. Parameters that can be used for initiating SEPA instant payment |
| 2 | **Initiating SEPA instant transaction**   1. In this example we will use the following Payload to initiate SEPA payment   {    {        "header": {},    "body": {      "debitAccountIBAN": "GB38DEMO60161300011215",      "paymentCurrencyId": "EUR",      "amount": "50",      "beneficiaryIBAN": "GB04BARC20474473160944",      "beneficiaryName": "Steve",      "endToEndReference": "InstantPaymentTest1",      "localInstrumentCode":"INST"    }  }   1. In Postman API should be set to POST mode      1. Payload should be set in Body section of the API      1. To retrieve transparency details, API is executed with “validate\_only” option set to true. To set this, add “validate\_only” option in Params and set the value as “TRUE”      1. Execute the API by clicking Send        1. If transparency values are accepted then the payment can be executed using the API endpoint <https://api.temenos.com/api/v1.0.0/order/paymentOrders> 2. The payment Order ID returned in the previous step is used to execute the payment. PaymentOrder ID is added in the API url. This is a PUT request.      1. The same payload with transparency is used in Body of this API      {         "header":{},      "body": {          "paymentCurrencyId": "EUR",          "paymentScheme": "sepa-instant-payment",          "amount": 50,          "charges": [              {                  "chargeType": "TRANSACTIONFEE",                  "chargeCurrency": "GBP",                  "chargeAmount": 5              }          ],          "debitAccountIBAN": "GB38DEMO60161300011215",          "beneficiaryName": "Steve",          "endToEndReference": "SepaInstantPayment1",          "beneficiaryIBAN": "GB04BARC20474473160944",          "paymentOrderProductId": "INSTPAY-OB"      }     }     1. Execute the API by clicking Send |

## Module 4: Lab Summary

In the third module, we executed an API to initiate a SEPA instant Payment, checked transparency.