



UPI QuickPass Certificate Guide

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版本

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| V1.0 | 2022-04-13 | Hassan | First version |
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NEWXGO



1 Introduction

This document details the terminal capabilities, parameter settings, test case usage, etc. Help developers perform Paywave certification

1.1 Terminal configuration

| | |
|----------------------------------|--------------------------------|
| Terminal type | Pos |
| Terminal capability | Offline with online capability |
| Online Pin | Support |
| Signature | Support |
| Terminal PIN Bypass | Support |
| Terminal Spoort CDCVM function | Support |
| Terminal Contactless Floor Limit | 0.00 |
| Terminal Contactless CVM Limit | 300.00 |
| Terminal Contactless Trans Limit | 99999.99 |
| Terminal QPS limit | 300.00 |

Nexgo UPI QuickPass kernel support all the above configuration. Different customer maybe have different configuration. The final configuration should be confirmed by the Bank or Acquirer. After confirm the configuration

Terminal QPS limit is always same with the terminal CVM limit.

See below picture, check the configuration.



Project Settings - QuickPass Function 201905

SmartPos

- ☐ American Express
- ☐ Diners Club
- ☐ Discover
- ☐ Google
- ☐ Interac
- ☐ JCB
- ☐ Mastercard
- ☒ UnionPay International
 - ☐ Contact IC Card Function 201905
 - ☐ Contact IC Card Integration 201905
 - ☒ QuickPass Function 201905
 - ☐ QuickPass Integration 201905
 - ☐ QuickPass ATM Function 201905
 - ☐ QuickPass ATM Integration 201905
- ☒ Visa
- ☐ WEX

Information

Instruction

Please specify the terminal configuration that is relevant for the current UnionPay International certification project.

Terminal type:

POS

☐ Terminal is deployed in the US market ⓘ

☒ Terminal is deployed in the European market ⓘ

☒ Terminal supports PIN Bypass ⓘ

☐ The Contactless Level 2 report is released after Jan 1, 201

☐ Terminal belongs to CDCVM POS list ⓘ

☒ Terminal supports CDCVM function ⓘ

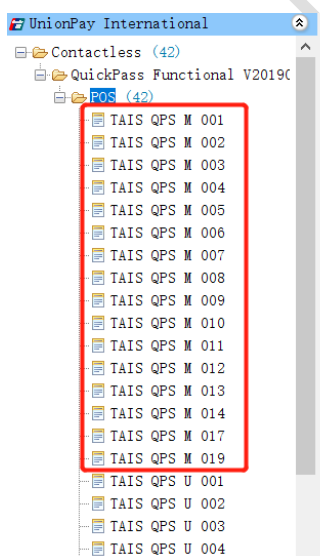
Host Configuration

☒ Perform host validations ⓘ

New C... D... OK Apply Cancel

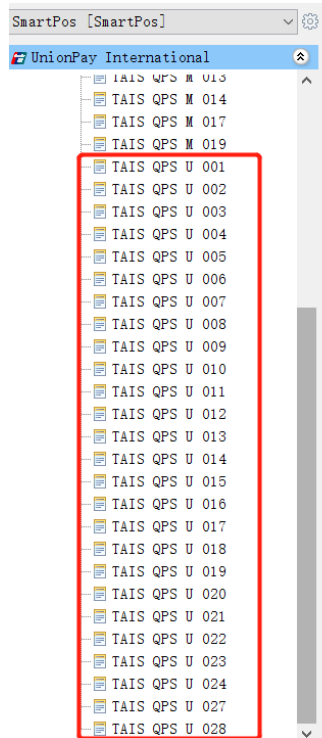
Customer can choose the options belongs to the requirement of the Bank or Acquirer.

Below is the screen shot of all the UPI QuickPass test cases:



Currency code = 0156

Brand Test Tool



Currency code = Local currency code

Brand Test Tool

Note: Test cases have 2 parts, the first part , application should set the currency code 0156, the second part should set the local currency code, such as 0840. This guidement will use 0840.

2 Terminal AID and CAPK configuration

2.1 AID

You can refer to Nexgo SDK EMV sample code to set the AID, or call below API to load the emv Aid parameter:

```
emvHandler2.setAidParaList(aidEntityList);
```

AID list(Case Insensitive):



a000000333010101

a000000333010102

a000000333010103

a000000333010106

AID detail for source code configuration:

```
{  
  "ddl": "9f3704",  
  "aid": "a000000333010101",  
  "appVerNum": "0020",  
  "asi": 0,  
  "contactlessCvmLimit": 30000,  
  "contactlessFloorLimit": 0,  
  "contactlessTransLimit": 9999999,  
  "floorLimit": 0,  
  "maxTargetPercent": 0,  
  "onlinePinCap": 1,  
  "tacDefault": "084000a800",  
  "tacDenial": "0010000000",  
  "tacOnline": "d84004f800",  
  "targetPercent": 0,  
  "threshold": 0,  
  "transLimit": 100000
```



}, {

"ddol": "9f3704",

"aid": "a000000333010102",

"appVerNum": "0020",

"asi": 0,

"contactlessCvmLimit": 30000,

"contactlessFloorLimit": 0,

"contactlessTransLimit": 9999999,

"floorLimit": 0,

"maxTargetPercent": 0,

"onlinePinCap": 1,

"tacDefault": "084000a800",

"tacDenial": "0000000000",

"tacOnline": "d84004f800",

"targetPercent": 0,

"threshold": 0,

"transLimit": 100000

}, {

"ddol": "9f3704",

"aid": "a000000333010103",

"appVerNum": "0020",

"asi": 0,



```
"contactlessCvmLimit": 30000,

"contactlessFloorLimit": 0,

"contactlessTransLimit": 9999999,

"floorLimit": 0,

"maxTargetPercent": 0,

"onlinePinCap": 1,

"tacDefault": "084000a800",

"tacDenial": "0010000000",

"tacOnline": "d84004f800",

"targetPercent": 0,

"threshold": 0,

"transLimit": 100000

}, {

  "ddol": "9f3704",

  "aid": "a000000333010106",

  "appVerNum": "0020",

  "asi": 0,

  "contactlessCvmLimit": 30000,

  "contactlessFloorLimit": 0,

  "contactlessTransLimit": 9999999,

  "floorLimit": 0,

  "maxTargetPercent": 0,
```



```
"onlinePinCap": 1,  
  
"tacDefault": "084000a800",  
  
"tacDenial": "0010000000",  
  
"tacOnline": "d84004f800",  
  
"targetPercent": 0,  
  
"threshold": 0,  
  
"transLimit": 100000  
},
```

2.2 CAPK

You can refer to Nexgo SDK EMV sample code to load the CAPK, or call below API to load the emv CAPK parameter:

```
emvHandler2.setCAPKList(capKEntityList);
```

Note:

- Nexgo SDK does not check the expireDate of the CAPK, but check the checksum value. If the checksum is incorrect, the CAPK will load failed
- The CAPK parameters should be provided by the bank or the Acquirer
- The CAPK index(capKIdx) in below configuration is "int" type, if the Bank or Acquirer give the "Hex" type, you need to transfer "Hex" type into "int" type

CAPK details for source code configuration:

```
{  
  
"arithInd": 1,  
  
"capKIdx": 8,  
  
"checkSum": "ee23b616c95c02652ad18860e48787c079e8e85a",  
}
```



UPI QuickPass certificate Guide

"expireDate": "20201231",

"exponent": "03",

"hashInd": 1,

"modulus":

"b61645edfd5498fb246444037a0fa18c0f101ebd8efa54573ce6e6a7fbf63ed21d66340852b0211cf5eef6a1cd989f66af21a8eb19dbd8dbc3706d135363a0d683d046304f5a836bc1bc632821afe7a2f75da3c50ac74c545a754562204137169663cfcc0b06e67e2109eba41bc67ff20cc8ac80d7b6ee1a95465b3b2657533ea56d92d539e5064360ea4850fed2d1bf",

"rid": "a000000333"

}, {

"arithInd": 1,

"capkIdx": 2,

"checkSum": "03bb335a8549a03b87ab089d006f60852e4b8060",

"expireDate": "20201231",

"exponent": "03",

"hashInd": 1,

"modulus":

"a3767abd1b6aa69d7f3fbf28c092de9ed1e658ba5f0909af7a1ccd907373b7210fdeb16287ba8e78e1529f443976fd27f991ec67d95e5f4e96b127cab2396a94d6e45cda44ca4c4867570d6b07542f8d4bf9ff97975db9891515e66f525d2b3cbeb6d662bfb6c3f338e93b02142bfc44173a3764c56aadd202075b26dc2f9f7d7ae74bd7d00fd05ee430032663d27a57",

"rid": "a000000333"

}, {

"arithInd": 1,

"capkIdx": 3,

"checkSum": "87f0cd7c0e86f38f89a66f8c47071a8b88586f26",



```
"expireDate": "20201231",

"exponent": "03",

"hashInd": 1,

"modulus":
"b0627dee87864f9c18c13b9a1f025448bf13c58380c91f4ceba9f9bcb214ff8414e9b59d6aba10f941c7331768f4
7b2127907d857fa39aaf8ce02045dd01619d689ee731c551159be7eb2d51a372ff56b556e5cb2fde36e23073a44ca
215d6c26ca68847b388e39520e0026e62294b557d6470440ca0aefc9438c923aec9b2098d6d3a1af5e8b1de36f4b5
3040109d89b77cafaf70c26c601abdf59eec0fdc8a99089140cd2e817e335175b03b7aa33d",

"rid": "a000000333"
}, {

"arithInd": 1,

"capkIdx": 4,

"checksum": "f527081cf371dd7e1fd4fa414a665036e0f5e6e5",

"expireDate": "20201231",

"exponent": "03",

"hashInd": 1,

"modulus":
"bc853e6b5365e89e7ee9317c94b02d0abb0dbd91c05a224a2554aa29ed9fcb9d86eb9ccbb322a57811f86188aac7
351c72bd9ef196c5a01acef7a4eb0d2ad63d9e6ac2e7836547cb1595c68bcbafe0f6728760f3a7ca7b97301b7e022
0184efc4f653008d93ce098c0d93b45201096d1adff4cf1f9fc02af759da27cd6dfd6d789b099f16f378b6100334e
63f3d35f3251a5ec78693731f5233519cdb380f5ab8c0f02728e91d469abd0eae0d93b1cc66ce127b29c7d77441a4
9d09fca5d6d9762fc74c31bb506c8bae3c79ad6c2578775b95956b5370d1d0519e37906b384736233251e8f09ad79
dfbe2c6abfadac8e4d8624318c27daf1",

"rid": "a000000333"
}, {

"arithInd": 1,

"capkIdx": 128,
```



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```
"checksum": "a5e44bb0e1fa4f96a11709186670d0835057d35e",

"expireDate": "20201231",

"exponent": "010001",

"hashInd": 1,

"modulus":
"ccd8ba686e2efb84ce2ea01209eeb53bef21ab6d353274ff8391d7035d76e2156caedd07510e07dafcacabb7ccb09
50ba2f0a3cec313c52ee6cd09ef00401a3d6cc5f68ca5fcd0ac6132141fafd1cfa36a2692d02ddc27eda4cd5bea6f
f21913b513ce78bf33e6877aa5b605bc69a534f3777cbcd6376ba649c72516a7e16af85",

"rid": "a000000333"
}, {

"arithInd": 1,

"capkIdx": 9,

"checksum": "a075306eab0045baf72cdd33b3b678779de1f527",

"expireDate": "20201231",

"exponent": "03",

"hashInd": 1,

"modulus":
"eb374dfc5a96b71d2863875eda2eafb96b1b439d3ece0b1826a2672eeefa7990286776f8bd989a15141a75c384df
c14fef9243aab32707659be9e4797a247c2f0b6d99372f384af62fe23bc54bcd57a9acd1d5585c303f201ef4e8b8
06afb809db1a3db1cd112ac884f164a67b99c7d6e5a8a6df1d3cae6d7ed3d5be725b2de4ade23fa679bf4eb15a93d
8a6e29c7ffa1a70de2e54f593d908a3bf9ebbd760bbfcd8db8b54497e6c5be0e4a4dac29e5",

"rid": "a000000333"
}, {

"arithInd": 1,

"capkIdx": 11,

"checksum": "bd331f9996a490b33c13441066a09ad3feb5f66c",
```



UPI QuickPass certificate Guide

"expireDate": "20201231",

"exponent": "03",

"hashInd": 1,

"modulus":

"cf9fdf46b356378e9af311b0f981b21a1f22f250fb11f55c958709e3c7241918293483289eae688a094c02c344e2999f315a72841f489e24b1ba0056cfab3b479d0e826452375dcdabb67e97ec2aa66f4601d774feaef775accc621bfeb65fb0053fc5f392aa5e1d4c41a4de9ffdfdf1327c4bb874f1f63a599ee3902fe95e729fd78d4234dc7e6cf1ababa3f6db29b7f05d1d901d2e76a606a8cbffffecbd918fa2d278bdb43b0434f5d45134be1c2781d157d501ff43e5f1c470967cd57ce53b64d82974c8275937c5d8502a1252a8a5d6088a259b694f98648d9af2cb0efd9d943c69f896d49fa39702162acb5af29b90bade005bc157",

"rid": "a000000333"

}, {

"arithInd": 1,

"capkIdx": 36,

"checksum": "e284c81aa9102f7b68ff0c8c74b5fa5a48d0ba59",

"expireDate": "20201231",

"exponent": "03",

"hashInd": 1,

"modulus":

"d7cd44b5c19d27ef8053f8f0adaa6280b1536b26d527c4e5b56b86964070af3be27227ealeadc3adc9c2c7d476f020f352c5c7458df1f5609dbca7a8c2633c4951505e4b408ba8bb2f5685226299dddef1bcd4ef1f45b1e27213b375bffa237746fb30d782e2e3e60e33b49262af573acb3100fecaf17c8666f57a029c9a6da71625685c1bd7554452b8b6282a3a0f099f",

"rid": "501649FF20"

}, {

"arithInd": 1,

"capkIdx": 10,



```
"checksum": "C88BE6B2417C4F941C9371EA35A377158767E4E3",  
  
"expireDate": "20201231",  
  
"exponent": "03",  
  
"hashInd": 1,  
  
"modulus":  
"B2AB1B6E9AC55A75ADFD5BBC34490E53C4C3381F34E60E7FAC21CC2B26DD34462B64A6FAE2495ED1DD383B8138BE  
A100FF9B7A111817E7B9869A9742B19E5C9DAC56F8B8827F11B05A08ECCF9E8D5E85B0F7CFA644EFF3E9B796688F3  
8E006DEB21E101C01028903A06023AC5AAB8635F8E307A53AC742BDCE6A283F585F48EF",  
  
"rid": "a000000333"  
},
```

2.3 QuickPass related EMV tags

9f66 :TTQ

5.1 Terminal Transaction Qualifier (Tag '9F66')

Terminal Transaction Qualifier shall be set as following:

| Byte | Bit | Definition |
|------|-----|--|
| 1 | 8 | 0-RFU |
| | 7 | 0-not supporting contactless UICC |
| | 6 | 1-supporting contactless qUICC |
| | 5 | According to the type of terminals |
| | 4 | 0-the terminal has the online capacity |
| | 3 | 1-supporting the online PIN |
| | 2 | 1-supporting the signature |
| | 1 | 0-Reserved for future use |



| Byte | Bit | Definition |
|------|-----|-----------------------------------|
| 2 | 8 | 1-requiring the online cryptogram |
| | 7 | 0 - do not request CVM by default |
| | 6-1 | 0-Reserved for future use |
| 3 | 8-1 | Depending on terminals |
| 4 | 8-1 | 0-Reserved for future use |

9F6C:CTQ

| Tag 9F 6C: Card Transaction Qualifiers [UICS] : 80 00 | | |
|---|-----------|--|
| Byte 1 | bit 8 = 1 | Online PIN required |
| | bit 7 = 0 | Signature not required |
| | bit 6 = 0 | Do not go online if Offline Data Authentication fails and Reader is online capable |
| | bit 5 = 0 | Do not terminate if Offline Data Authentication fails and Reader supports contact UICS |
| | bit 4 = 0 | Do not go online if application has expired |
| | bit 3 = 0 | RFU |
| | bit 2 = 0 | RFU |
| | bit 1 = 0 | RFU |
| Byte 2 | bit 8 = 0 | RFU |
| | bit 7 = 0 | RFU |
| | bit 6 = 0 | RFU |
| | bit 5 = 0 | RFU |
| | bit 4 = 0 | RFU |
| | bit 3 = 0 | RFU |
| | bit 2 = 0 | RFU |
| | bit 1 = 0 | RFU |

3 Test cases

UPI Quickpass need to set the QPS limit , and enable the CDVM function.

Please set below configuration in the source code before you start the test, you can also refer to Nexgo SDK EMV sample code:



```
//for UPI
UnionPayTransDataEntity unionPayTransDataEntity = new UnionPayTransDataEntity();
unionPayTransDataEntity.setQpbocForGlobal(true);
unionPayTransDataEntity.setSupportCDCVM(true);
unionPayTransDataEntity.setSupportContactlessQps(true);
unionPayTransDataEntity.setContactlessQpsLimit("000000030000");//QPS limit, always same with cvm limit
transData.setUnionPayTransDataEntity(unionPayTransDataEntity);

emvHandler2.emvDebugLog( isEnabled: true);
Log.d( tag: "huacong", msg: "start emv " );
emvHandler2.emvProcess(transData, listener: this);
```

//for UPI

```
UnionPayTransDataEntity unionPayTransDataEntity = new UnionPayTransDataEntity();
unionPayTransDataEntity.setQpbocForGlobal(true);
unionPayTransDataEntity.setSupportCDCVM(true);
unionPayTransDataEntity.setSupportContactlessQps(true);
unionPayTransDataEntity.setContactlessQpsLimit("000000030000");//QPS limit, always same with cvm
limit
transData.setUnionPayTransDataEntity(unionPayTransDataEntity);
```

```
emvHandler2.emvDebugLog(true);
Log.d("huacong", "start emv " );
emvHandler2.emvProcess(transData, this);
```

Currency Code = 0156

The first part test cases need to set the currency code to 0156, please refer below source code.

```
transData.setCountryCode("0156"); //CountryCode
transData.setCurrencyCode("0156"); //CurrencyCode
```

TAIS QPS M 001

Enter amount 1.00 below contactless cvm limit, tap the card directly.



TAIS_QPS_M_001

Test Procedure

- 1. Use Terminal A
- 2. Select 'QuickPass Purchase'
- 3. Enter '1.00' as transaction amount
- 4. Tap card
- 5. Processing completion

User Validation

- Transaction is successful yes
- The terminal does NOT prompt to enter PIN yes
- The terminal shall print receipt without signature bar yes

Observations

TAIS_QPS_M_001 ×

- Test Plan Version: 201905
- Test Case Number: TAIS_QPS_M_001
- Test Case Version: 1
- Description: To validate Terminal is able to complete QuickPass purchase correctly.
- Transaction amount < Terminal CVM limit

Transaction will approve, does not ask pin and signature, test case pass.

Note: do not need any special configuration.

TAIS QPS M 002

Enter amount 201.00 below contactless cvm limit, tap the card directly.

TAIS_QPS_M_002

Test Procedure

- 1. Use Terminal A
- 2. Select 'QuickPass Purchase'
- 3. Enter '201.00' as transaction amount
- 4. Tap card
- 5. Enter PIN '111111'
- 6. Processing completion

User Validation

- Transaction is successful yes
- The terminal prompts to enter PIN yes

Observations

TAIS_QPS_M_002 ×

- Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases
- Test Plan Version: 201905
- Test Case Number: TAIS_QPS_M_002
- Test Case Version: 1
- Description: To validate Terminal is able to complete QuickPass purchase correctly.
- Transaction amount < Terminal CVM limit



SDK will call API **onCardHolderInputPin** to show enter the online pin, transaction approve. Test case pass.

Note: do not need any special configuration.

TAIS QPS M 003

Enter amount 3.00 below contactless cvm limit, tap the card directly.

TAIS_QPS_M_003

Test Procedure

- 1. Use Terminal A
- 2. Select 'QuickPass Purchase'
- 3. Enter '3.00' as transaction amount
- 4. Tap card
- 5. Processing completion

User Validation

- Transaction is successful
- The terminal does NOT prompt to enter PIN
- The terminal shall print receipt without signature bar

TAIS_QPS_M_003 x

- Test Case Number: TAIS_QPS_M_003
- Test Case Version: 1
- Description: To validate Terminal is able to complete QuickPass purchase correctly.
- Transaction amount < Terminal CVM limit

Transaction will approve, does not ask pin and signature, test case pass.

Note: do not need any special configuration.

TAIS QPS M 004

Enter amount 5.00 below contactless cvm limit, tap the card directly.



TAIS_QPS_M_004

Test Procedure

- 1. Use Terminal A
- 2. Select 'QuickPass Purchase'
- 3. Enter '5.00' as transaction amount
- 4. Tap card
- 5. Processing completion

User Validation

- Transaction is successful
- The terminal does NOT prompt to enter PIN
- The terminal shall print receipt without signature bar

TAIS_QPS_M_004

- Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases
- Test Plan Version: 201905
- Test Case Number: TAIS_QPS_M_004
- Test Case Version: 1
- Description: To validate Terminal is able to complete QuickPass purchase correctly.
- Transaction amount < Terminal CVM limit

Transaction will approve, does not ask pin and signature, test case pass.

Note: do not need any special configuration.

TAIS QPS M 005

Enter amount 7.00 below contactless cvm limit, tap the card directly.

TAIS_QPS_M_005

Test Procedure

- 1. Use Terminal A
- 2. Select 'QuickPass Purchase'
- 3. Enter '7.00' as transaction amount
- 4. Tap card
- 5. Processing completion

User Validation

- Transaction is successful
- The terminal does NOT prompt to enter PIN
- The terminal shall print receipt without signature bar

TAIS_QPS_M_005

- Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases
- Test Plan Version: 201905
- Test Case Number: TAIS_QPS_M_005
- Test Case Version: 1
- Description: To validate Terminal is able to complete QuickPass purchase correctly.
- Transaction amount < Terminal CVM limit



Transaction will approve, does not ask pin and signature, test case pass.

Note: do not need any special configuration.

TAIS QPS M 006

Enter amount 202.00 below contactless cvm limit, tap the card directly.

TAIS_QPS_M_006

Test Procedure

- 1. Use Terminal A
- 2. Select 'QuickPass Purchase'
- 3. Enter '202.00' as transaction amount
- 4. Tap card
- 5. Processing completion

User Validation

- Transaction is successful
- The terminal does NOT prompt to enter PIN
- The terminal shall print receipt without signature bar

TAIS_QPS_M_006 x

- Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases
- Test Plan Version: 201905
- Test Case Number: TAIS_QPS_M_006
- Test Case Version: 1
- Description: To validate Terminal is able to complete QuickPass purchase correctly.
- Transaction amount < Terminal CVM limit

This case require terminal dose not prompt to enter PIN, but card still require Online pin, so application need to enable the QPS in the source code.

Transaction will approve, does not ask pin and signature, test case pass.

Note: do not need any special configuration.

TAIS QPS M 007

Enter amount 9.00 below contactless cvm limit, tap the card directly.



TAIS_QPS_M_007

Test Procedure

- 1. Use Terminal A
- 2. Select 'QuickPass Purchase'
- 3. Enter '9.00' as transaction amount
- 4. Tap card
- 5. Processing completion

User Validation

Transaction is successful

yes

The terminal does NOT prompt to enter PIN

yes

The terminal shall print receipt without signature bar

yes

TAIS_QPS_M_007 x

→ Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases

→ Test Plan Version: 201905

→ Test Case Number: TAIS_QPS_M_007

→ Test Case Version: 1

→ Description: To validate Terminal is able to complete QuickPass purchase correctly.

Transaction amount < Terminal CVM limit

Transaction will approve, does not ask pin and signature, test case pass.

Note: do not need any special configuration.

TAIS QPS M 008

Enter amount 12.00 below contactless cvm limit, tap the card directly.

TAIS_QPS_M_008

Test Procedure

- 1. Use Terminal A
- 2. Select 'QuickPass Purchase'
- 3. Enter '12.00' as transaction amount
- 4. Tap card
- 5. Processing completion

User Validation

Transaction is successful

yes

The terminal does NOT prompt to enter PIN

yes

The terminal shall print receipt without signature bar

yes

TAIS_QPS_M_008 x

→ Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases

→ Test Plan Version: 201905

→ Test Case Number: TAIS_QPS_M_008

→ Test Case Version: 1

→ Description: To validate Terminal is able to complete QuickPass purchase correctly.

Transaction amount < Terminal CVM limit



Transaction will approve, does not ask pin and signature, test case pass.

Note: do not need any special configuration.

TAIS QPS M 009

Enter amount 301.00 above contactless cvm limit, tap the card directly.

The screenshot shows a test case form for TAIS_QPS_M_009. The form is divided into three main sections: Test Procedure, User Validation, and Observations. The Test Procedure section lists six steps: 1. Use Terminal A, 2. Select 'QuickPass Purchase', 3. Enter '301.00' as transaction amount, 4. Tap card, 5. Enter PIN '111111', and 6. Processing completion. The User Validation section has two items: 'Transaction is successful' and 'The terminal prompts to enter PIN', each with a 'yes' dropdown menu. The Observations section is empty. Below the form, a details pane for TAIS_QPS_M_009 is visible, showing the test plan, version, case number, and description. A blue highlight is present on the text 'Transaction amount > Terminal CVM limit'.

| TAIS_QPS_M_009 | |
|------------------------|---|
| Test Procedure | <ul style="list-style-type: none">1. Use Terminal A2. Select 'QuickPass Purchase'3. Enter '301.00' as transaction amount4. Tap card5. Enter PIN '111111'6. Processing completion |
| User Validation | <ul style="list-style-type: none">Transaction is successful <input type="button" value="yes"/>The terminal prompts to enter PIN <input type="button" value="yes"/> |
| Observations | |

TAIS_QPS_M_009 x

- Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases
- Test Plan Version: 201905
- Test Case Number: TAIS_QPS_M_009
- Test Case Version: 1
- Description: To validate Terminal is able to complete QuickPass purchase correctly.

Transaction amount > Terminal CVM limit

SDK will call API `onCardHolderInputPin` to show enter the online pin, transaction approve. Test case pass.

Note: do not need any special configuration.

TAIS QPS M 010

Enter amount 303.00 above contactless cvm limit, tap the card directly.



| TAIS_QPS_M_010 | |
|-----------------|---|
| Test Procedure | <ul style="list-style-type: none">1. Use Terminal A2. Select 'QuickPass Purchase'3. Enter '303.00' as transaction amount4. Tap card5. Processing completion |
| User Validation | <ul style="list-style-type: none">Transaction is successful <input type="button" value="yes"/>The terminal does NOT prompt to enter PIN <input type="button" value="yes"/> |
| Observations | <div></div> |

TAIS_QPS_M_010 x

→ Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases

→ Test Plan Version: 201905

→ Test Case Number: TAIS_QPS_M_010

→ Test Case Version: 1

→ Description: To validate Terminal is able to complete QuickPass purchase correctly.

Transaction amount > Terminal CVM limit

Transaction will approve, does not ask pin and but ask **signature**, test case pass.

Note: do not need any special configuration.

TAIS QPS M 011

Enter amount 305.00 above contactless cvm limit, tap the card directly.



| | |
|-----------------|---|
| TAIS_QPS_M_011 | |
| Test Procedure | <ul style="list-style-type: none">1. Use Terminal A2. Select 'QuickPass Purchase'3. Enter '305.00' as transaction amount4. Tap card5. Enter PIN '111111'6. Processing completion |
| User Validation | <ul style="list-style-type: none">Transaction is successful yesThe terminal prompts to enter PIN yes |
| Observations | |

| |
|---|
| TAIS_QPS_M_011 x |
| <ul style="list-style-type: none">Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test CasesTest Plan Version: 201905Test Case Number: TAIS_QPS_M_011Test Case Version: 1Description: To validate Terminal is able to complete QuickPass purchase correctly. Transaction amount > Terminal CVM limit |

SDK will call API **onCardHolderInputPin** to show enter the online pin, transaction approve. Test case pass.

Note: do not need any special configuration.

TAIS QPS M 012

Enter amount 307.00 above contactless cvm limit, tap the card directly.



TAIS_QPS_M_012

Test Procedure

- 1. Use Terminal A
- 2. Select 'QuickPass Purchase'
- 3. Enter '307.00' as transaction amount
- 4. Tap card
- 5. Processing completion

User Validation

- Transaction is successful
- The terminal does NOT prompt to enter PIN

Observations

TAIS_QPS_M_012 x

→ Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases

→ Test Plan Version: 201905

→ Test Case Number: TAIS_QPS_M_012

→ Test Case Version: 1

→ Description: To validate Terminal is able to complete QuickPass purchase correctly.

Transaction amount > Terminal CVM limit

Transaction will approve, does not ask pin but ask signature, test case pass.

Note: do not need any special configuration.

TAIS QPS M 013

Enter amount 309.00 above contactless cvm limit, tap the card directly.

TAIS_QPS_M_013

Test Procedure

- 1. Use Terminal A
- 2. Select 'QuickPass Purchase'
- 3. Enter '309.00' as transaction amount
- 4. Tap card
- 5. Enter PIN '111111'
- 6. Processing completion

User Validation

- Transaction is successful
- The terminal prompts to enter PIN

Observations

TAIS_QPS_M_013 x

→ Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases

→ Test Plan Version: 201905

→ Test Case Number: TAIS_QPS_M_013

→ Test Case Version: 1

→ Description: To validate Terminal is able to complete QuickPass purchase correctly.

Transaction amount > Terminal CVM limit



SDK will call API `onCardHolderInputPin` to show enter the online pin, transaction approve. Test case pass.

Note: do not need any special configuration.

TAIS QPS M 014

Enter amount 312.00 above contactless cvm limit, tap the card directly.

The screenshot shows a test case form for TAIS_QPS_M_014. The form is divided into three main sections: Test Procedure, User Validation, and Observations. The Test Procedure section contains a list of five steps: 1. Use Terminal A, 2. Select 'QuickPass Purchase', 3. Enter '312.00' as transaction amount, 4. Tap card, and 5. Processing completion. The User Validation section contains two items: 'Transaction is successful' and 'The terminal does NOT prompt to enter PIN', each with a 'yes' dropdown menu. The Observations section is empty. Below the form, a details pane for TAIS_QPS_M_014 is visible, showing the test plan, version, number, and description. The description states: 'To validate Terminal is able to complete QuickPass purchase correctly. Transaction amount > Terminal CVM limit'.

| TAIS_QPS_M_014 | |
|------------------------|---|
| Test Procedure | <ul style="list-style-type: none">1. Use Terminal A2. Select 'QuickPass Purchase'3. Enter '312.00' as transaction amount4. Tap card5. Processing completion |
| User Validation | <ul style="list-style-type: none">Transaction is successful yesThe terminal does NOT prompt to enter PIN yes |
| Observations | |

TAIS_QPS_M_014 x

- Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases
- Test Plan Version: 201905
- Test Case Number: TAIS_QPS_M_014
- Test Case Version: 1
- Description: To validate Terminal is able to complete QuickPass purchase correctly.
Transaction amount > Terminal CVM limit

Transaction will approve, does not ask pin but ask signature, test case pass.

Note: do not need any special configuration.

TAIS QPS M 017

Enter amount 313.00 above contactless cvm limit, tap the card directly.



TAIS_QPS_M_017

Test Procedure

- 1. Use Terminal A
- 2. Select 'QuickPass Purchase'
- 3. Enter '313.00' as transaction amount
- 4. Tap card
- 5. Processing completion

User Validation

Transaction is successful

yes

The terminal does NOT prompt to enter PIN

yes

The terminal shall print receipt without signature bar

yes

TAIS_QPS_M_017 x

→ Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases

→ Test Plan Version: 201905

→ Test Case Number: TAIS_QPS_M_017

→ Test Case Version: 1

→ Description: To validate Terminal is able to complete QuickPass purchase with CDCVM correctly.

Transaction amount > Terminal CVM limit

Transaction will approve, does not ask pin and signature, test case pass.

Note: do not need any special configuration.

TAIS QPS M 019

Enter amount 316.00 above contactless cvm limit, tap the card directly.

TAIS_QPS_M_019

Test Procedure

- 1. Use Terminal A
- 2. Select 'QuickPass Purchase'
- 3. Enter '316.00' as transaction amount
- 4. Tap card
- 6. Enter PIN '111111'
- 7. Processing completion

User Validation

Transaction is successful

yes

The terminal prompts to enter PIN

yes

Observations

TAIS_QPS_M_019 x

→ Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases

→ Test Plan Version: 201905

→ Test Case Number: TAIS_QPS_M_019

→ Test Case Version: 1

→ Description: To validate Terminal is able to complete QuickPass purchase with BIN81 Credit application correctly.

Transaction amount > Terminal CVM limit



SDK will call API `onCardHolderInputPin` to show enter the online pin, transaction approve. Test case pass.

Note: do not need any special configuration.

Currency Code = 0840

The second part test cases need to set the currency code to 0840, please refer below source code.

```
transData.setCountryCode("0840");    //CountryCode
transData.setCurrencyCode("0840");    //CurrencyCode
```

TAIS QPS U 001

Enter amount 1.00 below contactless cvm limit, tap the card directly.

| TAIS_QPS_U_001 | |
|------------------------|---|
| Test Procedure | <ul style="list-style-type: none">1. Use Terminal B2. Select 'QuickPass Purchase'3. Enter '1.00' as transaction amount4. Tap card5. Enter PIN '111111'6. Processing completion |
| User Validation | <ul style="list-style-type: none">Transaction is successful <input type="button" value="yes"/>The terminal prompts to enter PIN <input type="button" value="yes"/> |
| Observations | |

TAIS_QPS_U_001 x

→ Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases

→ Test Plan Version: 201905

→ Test Case Number: TAIS_QPS_U_001

→ Test Case Version: 1

→ Description: To validate Terminal is able to complete QuickPass purchase correctly.

Transaction amount < Terminal CVM limit

SDK will call API `onCardHolderInputPin` to show enter the online pin, transaction approve. Test case pass.



Note: do not need any special configuration.

TAIS QPS U 002

Enter amount 2.00 below contactless cvm limit, tap the card directly.

TAIS_QPS_U_002

Test Procedure

- 1. Use Terminal B
- 2. Select 'QuickPass Purchase'
- 3. Enter '2.00' as transaction amount
- 4. Tap card
- 5. Processing completion

User Validation

- Transaction is successful
- The terminal does NOT prompt to enter PIN
- The terminal shall print receipt without signature bar

TAIS_QPS_U_002 x

- Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases
- Test Plan Version: 201905
- Test Case Number: TAIS_QPS_U_002
- Test Case Version: 1
- Description: To validate Terminal is able to complete QuickPass purchase correctly.
- Transaction amount < Terminal CVM limit

Transaction will approve, does not ask pin and signature, test case pass.

Note: do not need any special configuration.

TAIS QPS U 003

Enter amount 4.00 below contactless cvm limit, tap the card directly.



TAIS_QPS_U_003

Test Procedure

- 1. Use Terminal B
- 2. Select 'QuickPass Purchase'
- 3. Enter '4.00' as transaction amount
- 4. Tap card
- 5. Processing completion

User Validation

- Transaction is successful
- The terminal does NOT prompt to enter PIN

Observations

TAIS_QPS_U_003 x

- Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases
- Test Plan Version: 201905
- Test Case Number: TAIS_QPS_U_003
- Test Case Version: 1
- Description: To validate Terminal is able to complete QuickPass purchase correctly.

Transaction amount < Terminal CVM limit

Transaction will approve, does not ask pin but ask signature, test case pass.

Note: do not need any special configuration.

TAIS QPS U 004

Enter amount 5.00 below contactless cvm limit, tap the card directly.

TAIS_QPS_U_004

Test Procedure

- 1. Use Terminal B
- 2. Select 'QuickPass Purchase'
- 3. Enter '5.00' as transaction amount
- 4. Tap card
- 5. Processing completion

User Validation

- Transaction is successful
- The terminal does NOT prompt to enter PIN
- The terminal shall print receipt without signature bar

TAIS_QPS_U_004 x

- Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases
- Test Plan Version: 201905
- Test Case Number: TAIS_QPS_U_004
- Test Case Version: 1
- Description: To validate Terminal is able to complete QuickPass purchase correctly.

Transaction amount < Terminal CVM limit



This case require terminal dose not prompt to enter PIN, but card still require Online pin, so application need to enable the QPS in the source code.

Transaction will approve, does not ask pin and signature, test case pass.

Note: do not need any special configuration.

TAIS QPS U 005

Enter amount 6.00 below contactless cvm limit, tap the card directly.

TAIS_QPS_U_005

Test Procedure

- 1. Use Terminal B
- 2. Select 'QuickPass Purchase'
- 3. Enter '6.00' as transaction amount
- 4. Tap card
- 5. Processing completion

User Validation

- Transaction is successful yes ▾
- The terminal does NOT prompt to enter PIN yes ▾
- The terminal shall print receipt without signature bar yes ▾

TAIS_QPS_U_005 x

- Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases
- Test Plan Version: 201905
- Test Case Number: TAIS_QPS_U_005
- Test Case Version: 1
- Description: To validate Terminal is able to complete QuickPass purchase correctly.

Transaction amount < Terminal CVM limit

Transaction will approve, does not ask pin and signature, test case pass.

Note: do not need any special configuration.

TAIS QPS U 006

Enter amount 7.00 below contactless cvm limit, tap the card directly.



TAIS_QPS_U_006

Test Procedure

- 1. Use Terminal B
- 2. Select 'QuickPass Purchase'
- 3. Enter '7.00' as transaction amount
- 4. Tap card
- 5. Processing completion

User Validation

- Transaction is successful
- The terminal does NOT prompt to enter PIN
- The terminal shall print receipt without signature bar

TAIS_QPS_U_006 x

→ Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases

→ Test Plan Version: 201905

→ Test Case Number: TAIS_QPS_U_006

→ Test Case Version: 1

→ Description: To validate Terminal is able to complete QuickPass purchase correctly.

Transaction amount < Terminal CVM limit

Transaction will approve, does not ask pin and signature, test case pass.

Note: do not need any special configuration.

TAIS QPS U 007

Enter amount 8.00 below contactless cvm limit, tap the card directly.

TAIS_QPS_U_007

Test Procedure

- 1. Use Terminal B
- 2. Select 'QuickPass Purchase'
- 3. Enter '8.00' as transaction amount
- 4. Tap card
- 5. Processing completion

User Validation

- Transaction is successful
- The terminal does NOT prompt to enter PIN
- The terminal shall print receipt without signature bar

TAIS_QPS_U_007 x

→ Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases

→ Test Plan Version: 201905

→ Test Case Number: TAIS_QPS_U_007

→ Test Case Version: 1

→ Description: To validate Terminal is able to complete QuickPass purchase correctly.

Transaction amount < Terminal CVM limit



Transaction will approve, does not ask pin and signature, test case pass.

Note: do not need any special configuration.

TAIS QPS U 008

Enter amount 9.00 below contactless cvm limit, tap the card directly.

TAIS_QPS_U_008

Test Procedure

- 1. Use Terminal B
- 2. Select 'QuickPass Purchase'
- 3. Enter '9.00' as transaction amount
- 4. Tap card
- 5. Processing completion

User Validation

- Transaction is successful
- The terminal does NOT prompt to enter PIN
- The terminal shall print receipt without signature bar

TAIS_QPS_U_008 x

- Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases
- Test Plan Version: 201905
- Test Case Number: TAIS_QPS_U_008
- Test Case Version: 1
- Description: To validate Terminal is able to complete QuickPass purchase correctly.
- Transaction amount < Terminal CVM limit

This case require terminal dose not prompt to enter PIN, but card still require Online pin, so application need to enable the QPS in the source code.

Transaction will approve, does not ask pin and signature, test case pass.

Note: do not need any special configuration.

TAIS QPS U 009

Enter amount 12.00 below contactless cvm limit, tap the card directly.



TAIS_QPS_U_009

Test Procedure

- 1. Use Terminal B
- 2. Select 'QuickPass Purchase'
- 3. Enter '12.00' as transaction amount
- 4. Tap card
- 5. Processing completion

User Validation

- Transaction is successful
- The terminal does NOT prompt to enter PIN
- The terminal shall print receipt without signature bar

TAIS_QPS_U_009 x

- Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases
- Test Plan Version: 201905
- Test Case Number: TAIS_QPS_U_009
- Test Case Version: 1
- Description: To validate Terminal is able to complete QuickPass purchase correctly.

Transaction amount < Terminal CVM limit

Transaction will approve, does not ask pin and signature, test case pass.

Note: do not need any special configuration.

TAIS QPS U 010

Enter amount 13.00 below contactless cvm limit, tap the card directly.

TAIS_QPS_U_010

Test Procedure

- 1. Use Terminal B
- 2. Select 'QuickPass Purchase'
- 3. Enter '13.00' as transaction amount
- 4. Tap card
- 5. Processing completion

User Validation

- Transaction is successful
- The terminal does NOT prompt to enter PIN
- The terminal shall print receipt without signature bar
- The AID of receipt should be 'A000000333010101'

TAIS_QPS_U_010 x

- Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases
- Test Plan Version: 201905
- Test Case Number: TAIS_QPS_U_010
- Test Case Version: 2
- Description: To validate Terminal is able to complete QuickPass purchase correctly.

Transaction amount < Terminal CVM limit



Transaction will approve, does not ask pin and signature, test case pass.

Note: do not need any special configuration.

TAIS QPS U 011

Enter amount 14.00 below contactless cvm limit, tap the card directly.

TAIS_QPS_U_011

Test Procedure

- 1. Use Terminal B
- 2. Select 'QuickPass Purchase'
- 3. Enter '14.00' as transaction amount
- 4. Tap card
- 5. Processing completion

User Validation

- Transaction is successful
- The terminal does NOT prompt to enter PIN
- The terminal shall print receipt without signature bar

TAIS_QPS_U_011 x

- Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases
- Test Plan Version: 201905
- Test Case Number: TAIS_QPS_U_011
- Test Case Version: 1
- Description: To validate Terminal is able to complete QuickPass purchase correctly.
- Transaction amount < Terminal CVM limit

Transaction will approve, does not ask pin and signature, test case pass.

Note: do not need any special configuration.

TAIS QPS U 012

Enter amount 15.00 below contactless cvm limit, tap the card directly.



TAIS_QPS_U_012

Test Procedure

- 1. Use Terminal B
- 2. Select 'QuickPass Purchase'
- 3. Enter '15.00' as transaction amount
- 4. Tap card
- 5. Enter PIN '111111'
- 6. Processing completion

User Validation

Transaction is successful

yes

The terminal prompts to enter PIN

yes

Observations

TAIS_QPS_U_012 x

→ Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases

→ Test Plan Version: 201905

→ Test Case Number: TAIS_QPS_U_012

→ Test Case Version: 1

→ Description: To validate Terminal is able to complete QuickPass purchase correctly.

Transaction amount < Terminal CVM limit

SDK will call API **onCardHolderInputPin** to show enter the online pin, transaction approve. Test case pass.

Note: do not need any special configuration.

TAIS QPS U 013

Enter amount 301.00 above contactless cvm limit, tap the card directly.



| TAIS_QPS_U_013 | |
|------------------------|---|
| Test Procedure | <ul style="list-style-type: none">1. Use Terminal B2. Select 'QuickPass Purchase'3. Enter '301.00' as transaction amount4. Tap card5. Enter PIN '111111'6. Processing completion |
| User Validation | <ul style="list-style-type: none">Transaction is successful yes ▾The terminal prompts to enter PIN yes ▾ |
| Observations | <div></div> |

TAIS_QPS_U_013 x

→ Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases

→ Test Plan Version: 201905

→ Test Case Number: TAIS_QPS_U_013

→ Test Case Version: 1

→ Description: To validate Terminal is able to complete QuickPass purchase correctly.

Transaction amount > Terminal CVM limit

SDK will call API **onCardHolderInputPin** to show enter the online pin, transaction approve. Test case pass.

Note: do not need any special configuration.

TAIS QPS U 014

Enter amount 302.00 above contactless cvm limit, tap the card directly.



TAIS_QPS_U_014

Test Procedure

- 1. Use Terminal B
- 2. Select 'QuickPass Purchase'
- 3. Enter '302.00' as transaction amount
- 4. Tap card
- 5. Enter PIN '111111'
- 6. Processing completion

User Validation

Transaction is successful

yes

The terminal prompts to enter PIN

yes

Observations

TAIS_QPS_U_014 x

→ Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases

→ Test Plan Version: 201905

→ Test Case Number: TAIS_QPS_U_014

→ Test Case Version: 1

→ Description: To validate Terminal is able to complete QuickPass purchase correctly.

Transaction amount > Terminal CVM limit

SDK will call API **onCardHolderInputPin** to show enter the online pin, transaction approve. Test case pass.

Note: do not need any special configuration.

TAIS QPS U 015

Enter amount 304.00 above contactless cvm limit, tap the card directly.



TAIS_QPS_U_015

Test Procedure

- 1. Use Terminal B
- 2. Select 'QuickPass Purchase'
- 3. Enter '304.00' as transaction amount
- 4. Tap card
- 5. Processing completion

User Validation

- Transaction is successful
- The terminal does NOT prompt to enter PIN

Observations

TAIS_QPS_U_015 ×

- Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases
- Test Plan Version: 201905
- Test Case Number: TAIS_QPS_U_015
- Test Case Version: 1
- Description: To validate Terminal is able to complete QuickPass purchase correctly.
- Transaction amount > Terminal CVM limit

Transaction will approve, does not ask pin but ask signature, test case pass.

Note: do not need any special configuration.

TAIS QPS U 016

Enter amount 305.00 above contactless cvm limit, tap the card directly.

TAIS_QPS_U_016

Test Procedure

- 1. Use Terminal B
- 2. Select 'QuickPass Purchase'
- 3. Enter '305.00' as transaction amount
- 4. Tap card
- 5. Enter PIN '111111'
- 6. Processing completion

User Validation

- Transaction is successful
- The terminal prompts to enter PIN

Observations

TAIS_QPS_U_016 ×

- Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases
- Test Plan Version: 201905
- Test Case Number: TAIS_QPS_U_016
- Test Case Version: 1
- Description: To validate Terminal is able to complete QuickPass purchase correctly.
- Transaction amount > Terminal CVM limit



SDK will call API **onCardHolderInputPin** to show enter the online pin, transaction approve. Test case pass.

Note: do not need any special configuration.

TAIS QPS U 017

Enter amount 306.00 above contactless cvm limit, tap the card directly.

| TAIS_QPS_U_017 | |
|------------------------|---|
| Test Procedure | <ul style="list-style-type: none">1. Use Terminal B2. Select 'QuickPass Purchase'3. Enter '306.00' as transaction amount4. Tap card5. Enter PIN '111111'6. Processing completion |
| User Validation | <ul style="list-style-type: none">Transaction is successful <input type="button" value="yes"/>The terminal prompts to enter PIN <input type="button" value="yes"/> |
| Observations | |

| TAIS_QPS_U_017 x |
|--|
| <ul style="list-style-type: none">→ Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases→ Test Plan Version: 201905→ Test Case Number: TAIS_QPS_U_017→ Test Case Version: 1→ Description: To validate Terminal is able to complete QuickPass purchase correctly. <p>Transaction amount > Terminal CVM limit</p> |

SDK will call API **onCardHolderInputPin** to show enter the online pin, transaction approve. Test case pass.

Note: do not need any special configuration.

TAIS QPS U 018

Enter amount 307.00 above contactless cvm limit, tap the card directly.



TAIS_QPS_U_018

Test Procedure

- 1. Use Terminal B
- 2. Select 'QuickPass Purchase'
- 3. Enter '307.00' as transaction amount
- 4. Tap card
- 5. Processing completion

User Validation

- Transaction is successful
- The terminal does NOT prompt to enter PIN

Observations

TAIS_QPS_U_018 x

- Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases
- Test Plan Version: 201905
- Test Case Number: TAIS_QPS_U_018
- Test Case Version: 1
- Description: To validate Terminal is able to complete QuickPass purchase correctly.

Transaction amount > Terminal CVM limit

Transaction will approve, does not ask pin but ask signature, test case pass.

Note: do not need any special configuration.

TAIS QPS U 019

Enter amount 308.00 above contactless cvm limit, tap the card directly.

TAIS_QPS_U_019

Test Procedure

- 1. Use Terminal B
- 2. Select 'QuickPass Purchase'
- 3. Enter '308.00' as transaction amount
- 4. Tap card
- 5. Processing completion

User Validation

- Transaction is successful
- The terminal does NOT prompt to enter PIN

Observations

TAIS_QPS_U_019 x

- Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases
- Test Plan Version: 201905
- Test Case Number: TAIS_QPS_U_019
- Test Case Version: 1
- Description: To validate Terminal is able to complete QuickPass purchase correctly.

Transaction amount > Terminal CVM limit



Transaction will approve, does not ask pin but ask signature, test case pass.

Note: do not need any special configuration.

TAIS QPS U 020

Enter amount 309.00 above contactless cvm limit, tap the card directly.

The screenshot shows a test case form for TAIS_QPS_U_020. The form is divided into three main sections: Test Procedure, User Validation, and Observations. The Test Procedure section contains a list of steps: 1. Use Terminal B, 2. Select 'QuickPass Purchase', 3. Enter '309.00' as transaction amount, 4. Tap card, 5. Enter PIN '111111', and 6. Processing completion. The User Validation section contains two items: 'Transaction is successful' and 'The terminal prompts to enter PIN', each with a 'yes' dropdown menu. The Observations section is empty. Below the form, there is a details pane for TAIS_QPS_U_020, which includes the test plan, version, number, and description. The description states: 'To validate Terminal is able to complete QuickPass purchase correctly. Transaction amount > Terminal CVM limit'.

| Section | Item | Value |
|-----------------|---|-------|
| Test Procedure | 1. Use Terminal B | |
| | 2. Select 'QuickPass Purchase' | |
| | 3. Enter '309.00' as transaction amount | |
| | 4. Tap card | |
| | 5. Enter PIN '111111' | |
| | 6. Processing completion | |
| User Validation | Transaction is successful | yes |
| | The terminal prompts to enter PIN | yes |
| Observations | | |

TAIS_QPS_U_020

- Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases
- Test Plan Version: 201905
- Test Case Number: TAIS_QPS_U_020
- Test Case Version: 1
- Description: To validate Terminal is able to complete QuickPass purchase correctly.
Transaction amount > Terminal CVM limit

SDK will call API `onCardHolderInputPin` to show enter the online pin, transaction approve. Test case pass.

Note: do not need any special configuration.

TAIS QPS U 021

Enter amount 310.00 above contactless cvm limit, tap the card directly.



TAIS_QPS_U_021

Test Procedure

- 1. Use Terminal B
- 2. Select 'QuickPass Purchase'
- 3. Enter '310.00' as transaction amount
- 4. Tap card
- 5. Enter PIN '111111'
- 6. Processing completion

User Validation

Transaction is successful

yes

The terminal prompts to enter PIN

yes

The AID of receipt should be 'A000000333010101'

yes

TAIS_QPS_U_021 x

→ Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases

→ Test Plan Version: 201905

→ Test Case Number: TAIS_QPS_U_021

→ Test Case Version: 2

→ Description: To validate Terminal is able to complete QuickPass purchase correctly.

Transaction amount > Terminal CVM limit

SDK will call API **onCardHolderInputPin** to show enter the online pin, transaction approve. Test case pass.

Note: do not need any special configuration.

TAIS QPS U 022

Enter amount 311.00 above contactless cvm limit, tap the card directly.



TAIS_QPS_U_022

Test Procedure

- 1. Use Terminal B
- 2. Select 'QuickPass Purchase'
- 3. Enter '311.00' as transaction amount
- 4. Tap card
- 5. Processing completion

User Validation

- Transaction is successful
- The terminal does NOT prompt to enter PIN

Observations

TAIS_QPS_U_022 x

→ Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases

→ Test Plan Version: 201905

→ Test Case Number: TAIS_QPS_U_022

→ Test Case Version: 1

→ Description: To validate Terminal is able to complete QuickPass purchase correctly.

Transaction amount > Terminal CVM limit

Transaction will approve, does not ask pin but ask signature, test case pass.

Note: do not need any special configuration.

TAIS QPS U 023

Enter amount 312.00 above contactless cvm limit, tap the card directly.

TAIS_QPS_U_023

Test Procedure

- 1. Use Terminal B
- 2. Select 'QuickPass Purchase'
- 3. Enter '312.00' as transaction amount
- 4. Tap card
- 5. Enter PIN '111111'
- 6. Processing completion

User Validation

- Transaction is successful
- The terminal prompts to enter PIN

Observations

TAIS_QPS_U_023 x

→ Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases

→ Test Plan Version: 201905

→ Test Case Number: TAIS_QPS_U_023

→ Test Case Version: 1

→ Description: To validate Terminal is able to complete QuickPass purchase correctly.

Transaction amount > CVM limit



SDK will call API **onCardHolderInputPin** to show enter the online pin, transaction approve. Test case pass.

Note: do not need any special configuration.

TAIS QPS U 024

Enter amount 315.00 above contactless cvm limit, tap the card directly.

| TAIS_QPS_U_024 | |
|------------------------|---|
| Test Procedure | <ul style="list-style-type: none">1. Use Terminal E2. Select 'QuickPass Purchase'3. Enter '315.00' as transaction amount4. Tap card5. Processing completion |
| User Validation | <ul style="list-style-type: none">Transaction is successful yesThe terminal does NOT prompt to enter PIN yes |
| Observations | |

| TAIS_QPS_U_024 |
|---|
| <ul style="list-style-type: none">→ Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases→ Test Plan Version: 201905→ Test Case Number: TAIS_QPS_U_024→ Test Case Version: 1→ Description: To validate Terminal is able to complete QuickPass purchase correctly. Transaction amount > Terminal CVM limit |

Transaction will approve, does not ask pin but ask signature, test case pass.

Note: do not need any special configuration.

TAIS QPS U 027

Enter amount 16.00 below contactless cvm limit, tap the card directly.



TAIS_QPS_U_027

Test Procedure

- 1. Use Terminal B
- 2. Select 'QuickPass Purchase'
- 3. Enter '16.00' as transaction amount
- 4. Tap card
- 5. Processing completion

User Validation

- Transaction is successful
- The terminal does NOT prompt to enter PIN
- The terminal shall print receipt without signature bar

TAIS_QPS_U_027 x

- Revision: 20220202
- Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases
- Test Plan Version: 201905
- Test Case Number: TAIS_QPS_U_027
- Test Case Version: 1
- Description: To validate Terminal is able to complete QuickPass purchase with 19 digit PAN and 81 BIN correctly.
Transaction amount < Terminal CVM limit

Transaction will approve, does not ask pin and signature, test case pass.

Note: do not need any special configuration.

TAIS QPS U 028

Enter amount 318.00 above contactless cvm limit, tap the card directly.

TAIS_QPS_U_028

Test Procedure

- 1. Use Terminal B
- 2. Select 'QuickPass Purchase'
- 3. Enter '318.00' as transaction amount
- 4. Tap card
- 5. Enter PIN '111111'
- 6. Processing completion

User Validation

- Transaction is successful
- The terminal prompts to enter PIN

Observations

TAIS_QPS_U_028 x

- Test Plan: UPI QuickPass Testing Guide for Acquirers - Functional Test Cases
- Test Plan Version: 201905
- Test Case Number: TAIS_QPS_U_028
- Test Case Version: 1
- Description: To validate Terminal is able to complete QuickPass purchase with BIN81 debit applicaiton correctly.
Transaction amount > Terminal CVM limit



SDK will call API `onCardHolderInputPin` to show enter the online pin, transaction approve. Test case pass.

Note: do not need any special configuration.

4 FAQ

4.1 How to get the UPI QuickPass CVM result?

Q: How to get the CVM result ,Online PIN, signature or No CVM ?

ANSWER:

- a. You can call API `emvHandler2.getEmvCvmResult()` to get the cvm result directly.
-



EmvCvmResultEnum

| Enumeration Name | Description |
|--------------------|--|
| EMV_CVMR_NA | CVM result is not specified, or the result is null |
| EMV_CVMR_NOCVM | No cvm required |
| EMV_CVMR_SIGNATURE | Signature |

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| | |
|---|-----------------------------------|
| EMV_CVMR_ONLINEPIN | Online pin |
| EMV_CVMR_CONFVERIFIED | ID verify (not used) |
| EMV_CVMR_CDCVM | CDCVM |
| EMV_CVMR_OFFLINEPIN_PLAINTEXT | Offline plaintext pin |
| EMV_CVMR_OFFLINEPIN_ENCIPHER | Offline encipher pin |
| EMV_CVMR_OFFLINEPIN_PLAINTEXT_SIGNATURE | Offline plaintext pin & signature |
| EMV_CVMR_OFFLINEPIN_ENCIPHER_SIGNATURE | Offline encipher pin & signature |

b. You can check EMV tag 9F6C (CTQ).

Byte1 bit8 = 1; Online PIN required

Byte1 bit7 = 1; Signature required

Please refer to the definition of the 9F6C



4.2 How to enable UPI QuickPass QPS?

Please set below configuration in the source code before you start the test, you can also refer to Nexgo SDK EMV sample code:

```
//for UPI
UnionPayTransDataEntity unionPayTransDataEntity = new UnionPayTransDataEntity();
unionPayTransDataEntity.setQpbocForGlobal(true);
unionPayTransDataEntity.setSupportCDCVM(true);
unionPayTransDataEntity.setSupportContactlessQps(true);
unionPayTransDataEntity.setContactlessQpsLimit("000000030000");//QPS limit, always same with cvm limit
transData.setUnionPayTransDataEntity(unionPayTransDataEntity);

emvHandler2.emvDebugLog( isEnabled: true);
Log.d( tag: "huacong", msg: "start emv " );
emvHandler2.emvProcess(transData, listener: this);
```

```
//for UPI
UnionPayTransDataEntity unionPayTransDataEntity = new UnionPayTransDataEntity();
unionPayTransDataEntity.setQpbocForGlobal(true);
unionPayTransDataEntity.setSupportCDCVM(true);
unionPayTransDataEntity.setSupportContactlessQps(true);
unionPayTransDataEntity.setContactlessQpsLimit("000000030000");//QPS limit, always same with cvm
limit
transData.setUnionPayTransDataEntity(unionPayTransDataEntity);

emvHandler2.emvDebugLog(true);
Log.d("huacong", "start emv " );
emvHandler2.emvProcess(transData, this);
```