Integration Guide
of
Payment (ASIABANK)

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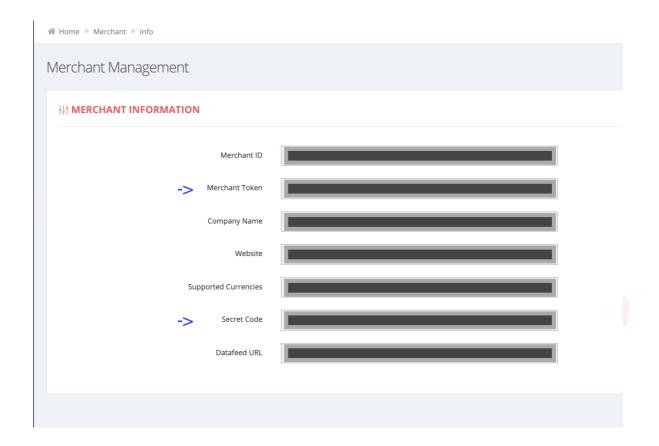
Change History

2021-10-15   1.0   official launch

Prepare Before Integration

Merchant Token and Merchant Secret

Please Login to https://merchant.pa-sys.com/user/sign-in and access to **"MERCAHNTS"** → **"Information"** tab (https://merchant.pa-sys.com/merchant/info)
(Please enquiry our team, if you don't have login credential)

Data feed URL setup

If you need transaction notification, please contact our team to setup data feed URL. For the demo datafeed sample, please refer "Sample Return Response & Data-feed Call-back" section

2FA setup

if you need to pay out, please contact our team to setup 2FA mobile phone number.

Hosted Payment Page

HTTP POST Request

You can acquire the Merchant Token from Merchant Platform

Live Request URL

```
Method : POST
Content-Type : application/x-www-form-urlencoded
Endpoint : https://payment.pa-sys.com/app/page/[Merchant Token]
```

Field Name	Mandatory	Type	Description
merchant_reference	Y	string (36)	Must be unique across payment request
currency	Y	string (3)	Currency ISO Code 4217, e.g. MYR
amount	Y	double (11,2)	e.g. 10000.00, 100.00, 1.00
sign	Y	string (128)	SHA-512 hashed signature, ref. appendix.signature
return_url	N	string (255)	Customer will be redirected back to URL provided
customer_ip	Y	string (15)	Format of IPv4
customer_first_name	Y	string (128)	
customer_last_name	Y	string (128)	
customer_address	N	string (255)	
customer_phone	Y	string (64)	
customer_email	Y	string (255)	
customer_state	N	string (2)	For US and Canada only. e.g. CA, NY
customer_country	N	string (2)	ISO ALPHA-2 Code, e.g. HK, TW, US
network	Y	string (64)	e.g. DirectDebit

We strongly recommend merchants to provide all information even some fields might not be mandatory for better fraud detection.

Sample Request

sample PHP script for generate payment form and submit to gateway

```php
<?php
$secret = '127f7830-b856-4ddf-92b4-a6478e38547b'; // Signature Secret
$fields = array(
      'merchant_reference' => '1234567890',
      'currency'              => 'THB',
      'amount'                => '100.00',
      'customer_ip'           => '123.123.123.123',
      'customer_first_name'   => 'John',
      'customer_last_name'    => 'Doe',
      'customer_address'      => '1, Bay Street',
      'customer_phone'        => '0123123123',
      'customer_email'        => 'someone@gmail.com',
      'customer_state'        => 'NY',
      'customer_country'      => 'US',
      'return_url'            => 'https://demo.shop.com/payment/return',
      'network'               => 'DirectDebit'
);
ksort($fields);
$fields['sign'] = hash('SHA512', http_build_query($fields) . $secret);
?>
<!DOCTYPE html>
<html>
      <head>
            <meta charset="utf-8"/>
            <meta http-equiv="Content-Type" content="text/html;
charset=UTF-8"/>
      </head>
      <body onload="document.forms['payment'].submit();">
            <form method="POST" action="https://payment.pa-
sys.com/app/page/ae476881-7bfc-4da8-bc7d-8203ad0fb28c" name="payment"
accept-charset="utf-8">
            <?php foreach($fields as $_k => $_v) { ?>
            <input type="hidden" name="<?=$_k;?>"
value="<?=htmlentities($_v);?>" />
            <?php } ?>
            </form>
      </body>
</html>
```

sample HTML generate from script above

```html
<!DOCTYPE html>
<html>
    <head>
        <meta charset="utf-8"/>
        <meta http-equiv="Content-Type" content="text/html;
charset=UTF-8"/>
    </head>
    <body>
        <form method="POST" action="https://payment.pa-
sys.com/app/page/ae476881-7bfc-4da8-bc7d-8203ad0fb28c" name="payment"
accept-charset="utf-8">
            <input type="hidden" name="amount" value="100.00" />
            <input type="hidden" name="currency" value="USD" />
            <input type="hidden" name="customer_address" value="1,
Bay Street" />
            <input type="hidden" name="customer_country" value="US"
/>
            <input type="hidden" name="customer_email"
value="someone@gmail.com" />
            <input type="hidden" name="customer_ip"
value="123.123.123.123" />
            <input type="hidden" name="customer_first_name"
value="John" />
            <input type="hidden" name="customer_last_name"
value="Doe" />
            <input type="hidden" name="customer_phone"
value="0123123123" />
            <input type="hidden" name="customer_state" value="NY" />
            <input type="hidden" name="merchant_reference"
value="1234567890" />
            <input type="hidden" name="return_url"
value="https://demo.shop.com/payment/return" />
            <input type="hidden" name="network" value="DirectDebit"
/>
            <input type="hidden" name="sign"
value="e58e599473393fdd38a9fa6fed2977ccd2dbb443a8116be448d0128e77a888542a8d
8fde649a040339b7602d028d2e4883652082af068573ddf673e417c4eb67" />
        </form>
    </body>
</html>
```

HTTP POST Response and Data Feed POST

Customer will be redirected back to return_url defined from your Payment Request.

After the transaction updated to success, if the datafeed url had been set, gateway send POST method to datafeed url.

```
Method : POST
Content-Type : application/x-www-form-urlencoded
```

Field Name	Type	Description
merchant_reference	string (36)	same value from your payment request
request_reference	string (36)	unique reference assigned by payment gateway
currency	string (3)	Currency ISO Code 4217, e.g. HKD, USD, CNY
amount	double (11,2)	e.g. 10000.00, 100.00, 1.00
status	string (2)	transaction status, ref.appendix.status
sign	string (128)	SHA-512 hashed signature, ref. appendix.signature

Sample Return Response & Data-feed Call-back

```php
<?php


$order = array(
    'id'         => '1234567890',
    'currency'   => 'THB',
    'amount'     => '100.00'
);


$secret      = '127f7830-b856-4ddf-92b4-a6478e38547b'; // Signature Secret
$fields      = array(
    'amount',
    'currency',
    'request_reference',
    'merchant_reference',
    'status',
    'sign'
);
$data  = array();
foreach ($fields as $_field) {
    $data = filter_input(INPUT_POST, $_field, FILTER_SANITIZE_STRING);
}
$sign = $data['sign'];
unset($data['sign']);
ksort($data);
if ($sign !== hash('SHA512', http_build_query($data) . $secret)) {
    exit; // signature validation failed, ignore this response
}


if (bccomp($order['amount'], $data['amount'], 2) !== 0) {
    exit; // order amount should be exact match with response amount,
validation failed, ignore this response
}


if ($order['currency'] !== $data['currency']) {
    exit; // order currency should be exact match with response currency,
validation failed, ignore this response
}


if ($order['id'] !== $data['merchant_reference']) {
```

```
        exit; // order id should be exact match with response
merchant_reference, validation failed, ignore this response
}


/**
 * after validation above, the response is valid for your system to update
accordingly
 *
 * $data['status'] === '0' means your order is pending for deposit
 * $data['status'] === '1' means your order's deposit is accepted
 * $data['status'] === '2' means your order's deposit is rejected
 */
```

Application Programming Interface (API)

Payment Query API

Query transactions by filters

```
Method : POST
Content-Type : application/x-www-form-urlencoded
Endpoint : https://gateway.pa-sys.com/[Merchant Token]/payment/query
```

FIELD NAME	MADATORY	TYPE	DESCRIPTION
merchant_reference	Y	string (36)	same value from your payment request
sign	Y	string (128)	SHA-512 hashed signature, ref. appendix.signature

sample response above

```
{
  "type": "Sale",
  "merchant_reference": "a81c829e-e887-414b-be1c-0e01fafc6dcf",
  "request_reference": "46fe8028-04a9-4e9d-9413-9084cbbcf046",
  "status": "4",
  "currency": "PHP",
  "amount": "50.000000",
  "created_time": "1577957588",
  "completed_time": null
}
```

Appendix

Signature

Signature are used to protect your payment request, in order to prevent data forgery.
You can acquire the Signature Secret from Merchant Platform.

```
$secret     = '127f7830-b856-4ddf-92b4-a6478e38547b'; // Signature Secret
$fields     = array(
    'merchant_reference'  => '1234567890',
    'currency'            => 'THB',
    'amount'              => '600.00',
    'customer_ip'         => '123.123.123.123',
    'customer_first_name' => 'John',
    'customer_last_name'  => 'Doe',
    'customer_address'    => '1, Bay Street',
    'customer_phone'      => '0123123123',
    'customer_email'      => 'someone@gmail.com',
    'return_url'          => 'https://demo.shop.com/payment/return',
    'network'             => 'DirectDebit'
);
ksort($fields); // order by parameter name
$fields['sign'] = hash('SHA512', http_build_query($fields) . $secret);


// hash('SHA512',
'amount=600.00&currency=THB&customer_address=1%2C+Bay+Street&customer_email
=someone%40gmail.com&customer_first_name=John&customer_ip=123.123.123.123&c
ustomer_last_name=Doe&customer_phone=0123123123&merchant_reference=12345678
90&network=DirectDebit&return_url=https%3A%2F%2Fdemo.shop.com%2Fpayment%2Fr
eturn127f7830-b856-4ddf-92b4-a6478e38547b');


// sample hash from example above
e58e599473393fdd38a9fa6fed2977ccd2dbb443a8116be448d0128e77a888542a8d8fde649
a040339b7602d028d2e4883652082af068573ddf673e417c4eb67
```

Status

Value	Description
0	PENDING, indicate transaction is pending for further action from customer
1	SUCCESS, indicate transaction is accepted by gateway
2	FAIL, indicate transaction is rejected by gateway
3	AUTHORIZED, used by Payout module. indicate transaction have been authorized.
4	PROCESSING, used by Direct Debit and Payout module. indicate authorized transaction is processing by system.

List of Country

COUNTRY CODE	COUNTRY NAME
AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
AO	Angola
AQ	Antarctica
AR	Argentina
AS	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AX	Åland Islands
AZ	Azerbaijan
BA	Bosnia and Herzegovina
BB	Barbados
BD	Bangladesh
BE	Belgium
BF	Burkina Faso
BG	Bulgaria
BH	Bahrain
BI	Burundi
BJ	Benin
BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia, Plurinational State of
BQ	Bonaire, Sint Eustatius and Saba
BR	Brazil
BS	Bahamas
BT	Bhutan
BV	Bouvet Island
BW	Botswana
BY	Belarus
BZ	Belize
CA	Canada
CC	Cocos (Keeling) Islands
CD	Congo, the Democratic Republic of the
CF	Central African Republic
CG	Congo
CH	Switzerland
CI	Côte d'Ivoire
CK	Cook Islands
CL	Chile
CM	Cameroon
CN	China
CO	Colombia
CR	Costa Rica

COUNTRY CODE	COUNTRY NAME
CU	Cuba
CV	Cabo Verde
CW	Curaçao
CX	Christmas Island
CY	Cyprus
CZ	Czech Republic
DE	Germany
DJ	Djibouti
DK	Denmark
DM	Dominica
DO	Dominican Republic
DZ	Algeria
EC	Ecuador
EE	Estonia
EG	Egypt
EH	Western Sahara
ER	Eritrea
ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands (Malvinas)
FM	Micronesia, Federated States of
FO	Faroe Islands
FR	France
GA	Gabon
GB	United Kingdom
GD	Grenada
GE	Georgia
GF	French Guiana
GG	Guernsey
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe
GQ	Equatorial Guinea
GR	Greece
GS	South Georgia and the South Sandwich Islands
GT	Guatemala
GU	Guam
GW	Guinea-Bissau
GY	Guyana
HK	Hong Kong
HM	Heard Island and McDonald Islands
HN	Honduras
HR	Croatia
HT	Haiti
HU	Hungary
ID	Indonesia
IE	Ireland
IL	Israel
IM	Isle of Man

COUNTRY CODE	COUNTRY NAME
IN	India
IO	British Indian Ocean Territory
IQ	Iraq
IR	Iran, Islamic Republic of
IS	Iceland
IT	Italy
JE	Jersey
JM	Jamaica
JO	Jordan
JP	Japan
KE	Kenya
KG	Kyrgyzstan
KH	Cambodia
KI	Kiribati
KM	Comoros
KN	Saint Kitts and Nevis
KP	Korea, Democratic People's Republic of
KR	Korea, Republic of
KW	Kuwait
KY	Cayman Islands
KZ	Kazakhstan
LA	Lao People's Democratic Republic
LB	Lebanon
LC	Saint Lucia
LI	Liechtenstein
LK	Sri Lanka
LR	Liberia
LS	Lesotho
LT	Lithuania
LU	Luxembourg
LV	Latvia
LY	Libya
MA	Morocco
MC	Monaco
MD	Moldova, Republic of
ME	Montenegro
MF	Saint Martin (French part)
MG	Madagascar
MH	Marshall Islands
MK	Macedonia, the former Yugoslav Republic of
ML	Mali
MM	Myanmar
MN	Mongolia
MO	Macao
MP	Northern Mariana Islands
MQ	Martinique
MR	Mauritania
MS	Montserrat
MT	Malta
MU	Mauritius
MV	Maldives
MW	Malawi
MX	Mexico

COUNTRY CODE	COUNTRY NAME
MY	Malaysia
MZ	Mozambique
NA	Namibia
NC	New Caledonia
NE	Niger
NF	Norfolk Island
NG	Nigeria
NI	Nicaragua
NL	Netherlands
NO	Norway
NP	Nepal
NR	Nauru
NU	Niue
NZ	New Zealand
OM	Oman
PA	Panama
PE	Peru
PF	French Polynesia
PG	Papua New Guinea
PH	Philippines
PK	Pakistan
PL	Poland
PM	Saint Pierre and Miquelon
PN	Pitcairn
PR	Puerto Rico
PS	Palestine, State of
PT	Portugal
PW	Palau
PY	Paraguay
QA	Qatar
RE	Réunion
RO	Romania
RS	Serbia
RU	Russian Federation
RW	Rwanda
SA	Saudi Arabia
SB	Solomon Islands
SC	Seychelles
SD	Sudan
SE	Sweden
SG	Singapore
SH	Saint Helena, Ascension and Tristan da Cunha
SI	Slovenia
SJ	Svalbard and Jan Mayen
SK	Slovakia
SL	Sierra Leone
SM	San Marino
SN	Senegal
SO	Somalia
SR	Suriname
SS	South Sudan
ST	Sao Tome and Principe
SV	El Salvador
SX	Sint Maarten (Dutch part)

COUNTRY CODE	COUNTRY NAME
SY	Syrian Arab Republic
SZ	Swaziland
TC	Turks and Caicos Islands
TD	Chad
TF	French Southern Territories
TG	Togo
TH	Thailand
TJ	Tajikistan
TK	Tokelau
TL	Timor-Leste
TM	Turkmenistan
TN	Tunisia
TO	Tonga
TR	Turkey
TT	Trinidad and Tobago
TV	Tuvalu
TW	Taiwan, Province of China
TZ	Tanzania, United Republic of
UA	Ukraine
UG	Uganda
UM	United States Minor Outlying Islands
US	United States
UY	Uruguay
UZ	Uzbekistan
VA	Holy See (Vatican City State)
VC	Saint Vincent and the Grenadines
VE	Venezuela, Bolivarian Republic of
VG	Virgin Islands, British
VI	Virgin Islands, U.S.
VN	Viet Nam
VU	Vanuatu
WF	Wallis and Futuna
WS	Samoa
YE	Yemen
YT	Mayotte
YU	Yugoslavia
ZA	South Africa
ZM	Zambia
ZW	Zimbabwe

United States Postal Service (USPS) Abbreviations

STATE	CODE
Alabama	AL
Alaska	AK
American Samoa	AS
Arizona	AZ
Arkansas	AR
Armed Forces Africa	AE
Armed Forces Americas	AA
Armed Forces Canada	AE
Armed Forces Europe	AE
Armed Forces Middle East	AE
Armed Forces Pacific	AP
California	CA
Colorado	CO
Connecticut	CT
Delaware	DE
District of Columbia	DC
Florida	FL
Georgia	GA
Guam	GU
Hawaii	HI
Idaho	ID
Illinois	IL
Indiana	IN
Iowa	IA
Kansas	KS
Kentucky	KY
Louisiana	LA
Maine	ME
Marshall Islands	MH
Maryland	MD
Massachusetts	MA
Michigan	MI
Micronesia	FM
Minnesota	MN
Minor Outlying Islands	UM
Mississippi	MS
Missouri	MO
Montana	MT
Nebraska	NE
Nevada	NV
New Hampshire	NH
New Jersey	NJ
New Mexico	NM
New York	NY
North Carolina	NC
North Dakota	ND
Northern Mariana Islands	MP
Ohio	OH
Oklahoma	OK
Oregon	OR
Palau	PW
Pennsylvania	PA
Puerto Rico	PR

STATE	CODE
Rhode Island	RI
South Carolina	SC
South Dakota	SD
Tennessee	TN
Texas	TX
Utah	UT
Vermont	VT
Virginia	VA
Virgin Islands	VI
Washington	WA
West Virginia	WV
Wisconsin	WI
Wyoming	WY

Canadian Provinces and Territories

PROVINCE OR TERRITORY	ABBREVIATION
Alberta	AB
British Columbia	BC
Manitoba	MB
New Brunswick	NB
Newfoundland and Labrador	NL
Northwest Territories	NT
Nova Scotia	NS
Nunavut	NU
Ontario	ON
Prince Edward Island	PE
Québec	QC
Saskatchewan	SK
Yukon	YT