E-Cash API Management Solution

API (Application Programming Interface)

Host Interconnection (H2H)

PT Digital Artha Media

Document Change Control

Version	Date	Authors	Summary of Changes
1.0	2017	PT DAM	Initial Document

Contents

1. E-Cash API's Overview

This document describes API Services definition for E-Cash API Management Solution.

2. Operation Definition

In the followings are the operation definitions for the services.

2.1 Login

Hostname	To be confirmed					
Port	To be confirmed					
HTTP Method	POST					
Path	/SessionManager/Login					
HTTP Headers	**Name**	**Format**			**Mandatory**	**Description**
	Content-Type	application/x-www-form-urlencoded			Yes	N/A
	Credentials	encrypted			Yes	Agent Credentials
	APIKey	56			Yes	Assignable Value
Format	x-www-form-urlencoded					
Authentication						
Request Definition	**Field**	**Data Type**	**Length**	**Mandatory**	**Description**	
	username			Yes	Agent Username	
Exp full url	https://api.mandiri-ecash.com/eCashHost/SessionManager/Login					
Request	username:agent01					
Response Definition	**Name**	**Type**	**Length**	**Description**		
	token		48	Transaction Token		
	status			Response Status		
Success response code	PROCESSED					
Response (Success)	{"status":"PROCESSED","token":"esr5656hka2osxj73f9s8jcw53b1d3ertqf43k8xq2xsypvk"}					
Error response code						
Response (error)						

2.2 Logout

Hostname	To be confirmed
Port	To be confirmed
HTTP Method	POST
Path	/SessionManager/Logout

HTTP Headers	Name	Format	Mandatory	Description
	Content-Type	application/x-www-form-urlencoded	Yes	N/A
	APIKey	56	Yes	Assignable Value

Format	x-www-form-urlencoded
Authentication	

Request Definition	Field	Data Type	Length	Mandatory	Description
	token		48	Yes	Transaction Token

Exp full url	https://api.mandiri-ecash.com/eCashHost/SessionManager/Logout
Request	token:esr5656hka2osxj73f9s8jcw53b1d3ertqf43k8xq2xsypvk

Response Definition	Field	Data Type	Length	Description
	status			Response Status

Success response code	PROCESSED
Response (Success)	{"status":"PROCESSED"}
Error response code	
Response (error)	

2.3 Validate Account

Hostname	To be confirmed
Port	To be confirmed
HTTP Method	POST
Path	/NonTransactionManager/ValidateAccount
HTTP Headers	

Name	Format	Mandatory	Description
Content-Type	x-www-form-urlencoded	Yes	N/A
APIKey	56	Yes	Assignable Value

Format	x-www-form-urlencoded
Authentication	
Request Definition	

Field	Data Type	Length	Mandatory	Description
msisdn		13	Yes	User MSISDN
token		48	Yes	Transaction Token

Exp full url	https://api.mandiri-ecash.com/eCashHost/NonTransactionManager/ValidateAccount
Request	msisdn:08131234567 token: v4rp0v0f0idcxslliug8k64gh80eaxe88npc1gryq2cyn . . .
Response Definition	

Field	Data Type	Length	Description
msisdn		13	User MSISDN
status			Response Status
groupID			User Group ID
name			User Name
id			Registration Index Number
kyc			KYC Status

Success response code	PROCESSED
Response (Success)	{"id":"114","groupID":"149","status":"PROCESSED","msisdn":"08131234567","name":"Allysa Soebandono","kyc":"true"}
Error response code	
Response (error)	

2.4 Get Register Ticket

This is the API used for linkage process (user register service to merchant). For more details on how to use this API, please check "Web Register Implementation Guide".

Hostname	To be confirmed					
Port	To be confirmed					
HTTP Method	POST					
Path	/NonTransactionManager/getRegisterTicket					
HTTP Headers	**Name**	**Format**		**Mandatory**	**Description**	
	Content-Type	x-www-form-urlencoded		Yes	N/A	
	APIKey	56		Yes	Assignable Value	
Format	x-www-form-urlencoded					
Authentication						
Request Definition	**Field**	**Data Type**	**Length**	**Mandatory**	**Description**	
	mobileno			Yes	User Msisdn	
	token			Yes	Transaction Token	
Exp full url	https://api.mandiri-ecash.com/eCashHost/NonTransactionManager/getRegisterTicket					
Request	mobileNo : 08787779080444 token : fmna2bx8sohs6rzaa4fkcphcgjzyl7hpiayos80kxadjkiyo					
Response Definition	**Field**	**Data Type**	**Length**	**Description**		
	ticket			Registration Ticket		
	status			Response Status		
	mobileno			User MSISDN		
Success response code	PROCESSED					

Response (Success)	{
	 "ticket": "k5grvj9j9ptsuvg5ysumf75sfpkd78uc31ts5yrpuywmoxhc",
	 "status": "PROCESSED",
	 "mobileno": "08787779080444"
	 }					

Error response code						
Response (error)						

2.5 Balance Inquiry

Hostname	To be confirmed
Port	To be confirmed
HTTP Method	POST
Path	/NonTransactionManager/BalanceInquiry
HTTP Headers	(see table below)

Name	Format	Mandatory	Description
Content-Type	x-www-form-urlencoded	Yes	N/A
APIKey	56	Yes	Assignable Value

Format	x-www-form-urlencoded
Authentication	
Request Definition	(see table below)

Field	Data Type	Length	Mandatory	Description
msisdn		13	Yes	User MSISDN
accountID		3	Yes	Assignable Value
token		48	Yes	Transaction Token

Exp full url	https://api.mandiri-ecash.com/eCashHost/NonTransactionManager/BalanceInquiry
Request	msisdn:08131234567 accountID:6 token: v4rp0v0f0idcxslliug8k64gh80eaxe88npc1gryq2cyn6qo
Response Definition	(see table below)

Field	Data Type	Length	Description
accountBalance			User Balance
status			Response Status
upperCreditLimit			User Account Balance Limit
reservedAmount			User Reserved Amount

Success response code	PROCESSED
Response (Success)	{"accountBalance":"2300000.00","status":"PROCESSED","upperCreditLimit": "5000000.00", "reservedAmount": "0.00"}
Error response code	
Response (error)	

2.6 Transaction History

Hostname	To be confirmed
Port	To be confirmed
HTTP Method	POST
Path	/NonTransactionManager/TransactionHistory

HTTP Headers	Name	Format		Mandatory	Description	
	Content-Type	x-www-form-urlencoded		Yes	N/A	
	APIKey	56		Yes	Assignable Value	

Format	x-www-form-urlencoded
Authentication	

Request Definition	Field	Data Type	Length	Mandatory	Description	
	msisdn		13	Yes	User MSISDN	
	token		48	Yes	Transaction Token	
	currentPage			Yes	Page Position	
	pageSize			Yes	Record to Display	
	accountID		3	Yes	Assignable Value	
	startDate		10	Yes	Starting Transaction Date	
	endDate		10	Yes	End of Transaction	

Exp full url	https://api.mandiri-ecash.com/eCashHost/NonTransactionManager/TransactionHistory
Request	msisdn : 08131234567 token : v4rp0v0f0idcxslliug8k64gh80eaxe88npc1gry2cyn . . . currentPage : 0 pageSize : 15 accountID : 6 startDate : 2016-01-01 endDate :2016-02-01

Response Definition	

Field	Data Type	Length	Description	
status			Response status	
accountHistoryDetails			User Transaction Details	

accountHistoryDetails values:

Field	Data Type	Length	Description
amount			Transaction Amoun
username			Destination User ID
parentTransactionNumber			Linked transaction number (if any)
description			Description of transaction
transferType			Name of this transaction
name			Trx destination name
transactionNumber			Ecash transaction number
transactionDate			Transaction date
trxDateTime			Transaction date time
transferTypeID			Transfer type id of the transaction
privateFields			Custom parameter for specific transaction

Success response code	PROCESSED
Response (Success)	{"status": "PROCESSED","accountHistoryDetails": [{"parentTransactionNumber": "","status": "PROCESSED","transferType": "Kirim ke Rekening Mandiri","transferTypeID": "258","transactionDate": "01/07/2016","amount": "Rp -14.500,00", "username": "","traceNumber": "001-879872394700987234220","privateFields": { "nama_rek_tujuan_bank_transfer": "KOKO KRANS","PCF_SISF_norekbanktujuan": "1234567891235","account_type_trf_bank": "D","journal_seq_bank_transfer": "1255117"}, "description": "Kirim ke Rekening Mandiri.SUCCESS","name": "","transactionNumber": "20160701234493125511","trxDateTime": "2016-07-01T12:55:11+07:00"}, {"parentTransactionNumber": "","status": "PROCESSED","transferType": "Credit From

	Agent", "transferTypeID": "283","transactionDate": "30/06/2016","amount": "Rp 1.000,00", "username": "001","traceNumber": "001-20160630123472", "privateFields": {},"description": "Credit|123472","name": "","transactionNumber": "20160630233950114331","trxDateTime": "2016-06-30T11:43:31+07:00"}, {"status": "PROCESSED","accountHistoryDetails": [{"parentTransactionNumber": "", "status": "PROCESSED","transferType": "Kirim e-cash","transferTypeID": "362", "transactionDate": "01/07/2016","amount": "Rp -5.000,00","username": "0899109987492", "traceNumber": "001-12346203022209089","privateFields": {},"description": "Transfer|12346203022209089","name": "Risma","transactionNumber": "20160701234992163745","trxDateTime": "2016-07-01T16:37:45+07:00"}
Error response code	
Response (error)	

2.7 Status Inquiry

Hostname	To be confirmed				
Port	To be confirmed				
HTTP Method	POST				
Path	/NonTransactionManager/Status				
HTTP Headers	**Name**	**Format**	**Mandatory**	**Description**	
	Content-Type	x-www-form-urlencoded	Yes	N/A	
	APIKey	56	Yes	Assignable Value	
Format	x-www-form-urlencoded				
Authentication					
Request Definition	**Field**	**Data Type**	**Length**	**Mandatory**	**Description**
	token		48	Yes	Transaction Token
	amount		12	Yes	Transaction Amount
	accountTypeId			No	Assignable Value
	traceNumber			Yes	Sequence Number
Exp full url	https://api.mandiri-ecash.com/eCashHost/NonTransactionManager/Status				
Request	token : esr5656hka2osxj73f9s8jcw53b1d3ertqf43k8xq2xs… amount :100000 accountTypeId (assignable value) traceNumber :10005				
Response Definition	**Field**	**Data Type**	**Length**	**Description**	
	status			Response status	
	traceNumber			Sequence number	
Success response code	PROCESSED				
Response (Success)	{"traceNumber":"100005","status":"PROCESSED"}				
Error response code					
Response (error)					

2.8 Charge

Hostname	To be confirmed				
Port	To be confirmed				
HTTP Method	POST				
Path	/TransactionManager/Charge				
HTTP Headers	**Name**	**Format**		**Mandatory**	**Description**
	Content-Type	x-www-form-urlencoded		Yes	N/A
	APIKey	56		Yes	Assignable Value
Format	x-www-form-urlencoded				
Authentication					
Request Definition	**Field**	**Data Type**	**Length**	**Mandatory**	**Description**
	msisdn			Yes	User MSISDN
	amount			Yes	Transaction Amount
	traceNumber			Yes	Sequence Number
	charge_transferTypeID			No	Transaction Type ID
	token			Yes	Transaction Token
Exp full url	https://api.mandiri-ecash.com/eCashHost/TransactionManager/Charge				
Request	msisdn : 08131234567 amount : 100000 traceNumber : 2016041312050101 charge_transferTypeID : Assignable Value token : v4rp0v0f0idcxslliug8k64gh80eaxe88npc1gryq2cyn6qo				
Response Definition	**Field**	**Data Type**	**Length**	**Description**	
	msisdn			User MSISDN	
	status			Response Status	
	traceNumber			Sequence Number From Request	
	transactionNumber			ecash Transaction Number	
	trxDateTime			Transaction Date and Time	
Success response code	PROCESSED				
Response (Success)	{"msisdn":"08131234567","status":"PROCESSED","traceNumber": "001002","transactionNumber":"20151234560989110928","trxDateTime": "2015-08-13T14:05:31.346+07:00"}				
Error response code					
Response (error)					

2.9 Credit

Hostname	To be confirmed
Port	To be confirmed
HTTP Method	POST
Path	/TransactionManager/Credit
HTTP Headers	

Name	Format	Mandatory	Description
Content-Type	x-www-form-urlencoded	Yes	N/A
APIKey	56	Yes	Assignable Value

Format	x-www-form-urlencoded
Authentication	
Request Definition	

Field	Data Type	Length	Mandatory	Description
msisdn			Yes	User MSISDN
amount			Yes	Transaction Amount
traceNumber			Yes	Sequence Number
token			Yes	Transaction Token
credit_transferTypeID			No	Transaction Type ID

Exp full url	https://api.mandiri-ecash.com/eCashHost//TransactionManager/Credit
Request	msisdn : 08131234567 amount : 100000 traceNumber : 001002 token : v4rp0v0f0idcxslliug8k64gh80eaxe88npc1gryq2cyn6qo credit_transferTypeID*: ID Assignable Value
Response Definition	

Field	Data Type	Length	Description
msisdn			User MSISDN
status			Response Status
traceNumber			Sequence Number from Request
transactionNumber			ecash Transaction Number
trxDateTime			Transaction Date and Time

Success response code	PROCESSED
Response (Success)	{"msisdn":"08131234567","status":"PROCESSED","traceNumber": "001002","transactionNumber":"20151234560989110928","trxDateTime": "2015-08-13T14:05:31.346+07:00"}
Error response code	
Response (error)	

3. Response Code

No.	Response Code	Description
1.	ALREADY_REGISTERED	Member is already registered in the system
2.	BLOCKED	Agent/member PIN is blocked by system
3.	BLOCKED_GROUPID	The current group id is blocked
4.	FAILED	Transaction is fail
5.	GENERAL_ERROR	General System Error
6.	GROUP_ALREADY_UPDATED	Current Member is already registered to destination group
7.	INVALID	Agent/member PIN is invalid
8.	INVALID_CHANNELID	Wrong channel ID
9.	INVALID_CREDENTIAL	Wrong Credentials
10.	INVALID_NAME_OR_SECRETWORD	Wrong name or Secretword
11.	INVALID_OTP	Wrong OTP
12.	INVALID_PARAMETER	Incomplete request parameter
13.	INVALID_VERSION	Wrong version
14.	IPG_AUTH_FAILED	IPG credentials failed
15.	MAX_DAILY_AMOUNT_RECEIVER_EXCEEDED	Receiver's Daily Credit of transaction reach limit
16.	MEMBER_ALREADY_REGISTERED	Member is already registered in the system
17.	MEMBER_NOT_FOUND	Member is not registered in the system
18.	MEMBER_NOT_REGISTERED	Member is not registered in the system
19.	MERCHANT_NOT_FOUND	Merchant is not registered in the system
20.	NO_TRANSACTION	Transaction history is empty
21.	NOT_ALLOWED	Agent is not allowed to access the feature
22.	NOT_ENOUGH_CREDITS	Member has not enough credits to do transaction
23.	OTP_REQUEST_FAILED_MEMBER_NOT_FOUND	Member is not registered in the system
24.	OTP_REQUEST_PROCESSED	OTP has been succesfully created
25.	OTP_VALIDATION_FAILED_INVALID_OTP	Wrong OTP
26.	OTP_VALIDATION_FAILED_OTP_ALREADY_VALIDATED	OTP has been used
27.	OTP_VALIDATION_FAILED_PHONE_NO_MISMATCH	Wrong MSISDN on validating OTP
28.	OTP_VALIDATION_PROCESSED	OTP has been succesfully validated
29.	PAYMENT_NOT_FOUND	No payment record to reverse
30.	PROCESSED	Transaction is success
31.	PROFILE_UPGRADE_FAILED	Member upgrade is failed
32.	PROVIDER_NOT_SUPPORTED	Member telco provider is not supported
33.	RECEIVER_UPPER_CREDIT_LIMIT_REACHED	Destination account has reach the account limit for transfer
34.	REQUEST_RECEIVED	OTP has been succesfully created
35.	TICKET_EXPIRED	IPG Ticket has expired
36.	TO_NOT_FOUND	Member is not registered in the system
37.	TOKEN_EXPIRED	Agent transaction session has expired
38.	TRXTYPE_NOT_FOUND	Transaction type is not registered in the system
39.	UNKNOWN_GROUPID	Group ID is not registered in the system
40.	UNKNOWN_TRXTYPE	Transaction type is not registered in the system
41.	UNREGISTERED_SERVICE	Member is not bind to the agent

42.	UNSUPPORTED PROVIDER	Provider not exist
43.	USER_NOT_FOUND	Agent/user is not registered in the system
44.	VALID	Successfull PIN challenge
45.	VALIDATION_FAILED	Validation process failed
46.	MAX_MONTH_AMOUNT_EXCEEDED	Destination/member account has reach the account limit for transfer/transaction
47.	CHANNEL_BLOCKED	Member access channel is blocked
48.	TRANSFER_TYPE_NOT_ALLOWED/ INVALID_PARAMETERS	Invalid Transfer Type / Invalid user group access
49	FROM_INVALID_CHANNEL	Invalid source channel
50	TO_INVALID_CHANEL	Invalid destination channel
51	FROM_NOT_FOUND	Source transfer not found