

	Title	Perubahan Flow Registrasi H2H eCash		
	Author	Tri Arta Simanjuntak	Page	1 Of 11
	Status	Draft	Version	1.1
	Document	Implementation Guide	Date	22/01/2018



Mandiri e-Cash Implementation Guide Perubahan Flow Registrasi H2H eCash

	Title	Perubahan Flow Registrasi H2H eCash		
	Author	Tri Arta Simanjuntak	Page	2 Of 11
	Status	Draft	Version	1.1
	Document	Implementation Guide	Date	22/01/2018


Proprietary Notice

The materials in this document are proprietary to PT DIGITAL ARTHA MEDIA ("PT DAM") and BANK MANDIRI, Tbk. ("Bank Mandiri"). The document is prepared for the purpose of discussion regarding technical specification. In accepting this document, it is deemed that you have agreed to abide by the confidentiality nature of this document. The reproduction or distribution of any part of the enclosed information will not be allowed without prior written permission of PT DAM and Bank Mandiri. Any other parties who review this proposal will be deemed to have obtained the proprietary information without authorization and may be subject to legal actions.

Disclaimer

The information contained within this document is and shall remain the property of PT DAM and Bank Mandiri. This document is supplied in strict confidence and must not be produced in whole or in part, used in tendering or for manufacturing purposes or given or communicated to any third party without the prior consent of PT DAM and Bank Mandiri.

Copyright © PT DIGITAL ARTHA MEDIA. 2013. All Rights Reserved.

	Title	Perubahan Flow Registrasi H2H eCash		
	Author	Tri Arta Simanjuntak	Page	3 Of 11
	Status	Draft	Version	1.1
	Document	Implementation Guide	Date	22/01/2018

Document Change Control

Version	Date	Authors	Summary of Changes
1.0	15/08/2017	Tri Arta Simanjuntak	Initial document.
1.1	22/01/2018	Hendy	Update API and descriptions


	Title	Perubahan Flow Registrasi H2H eCash		
	Author	Tri Arta Simanjuntak	Page	4 Of 11
	Status	Draft	Version	1.1
	Document	Implementation Guide	Date	22/01/2018

Table of Contents

Table of Contents	4
General Overview	5
Register Service Implementation.....	6
<i>Prerequisites</i>	6
<i>Implementation</i>	6
<i>Process Flow</i>	11

	Title	Perubahan Flow Registrasi H2H eCash		
	Author	Tri Arta Simanjuntak	Page	5 Of 11
	Status	Draft	Version	1.1
	Document	Implementation Guide	Date	22/01/2018

General Overview

Before calling any other method, agent host must execute Login service method in order to get transaction token. This transaction token is used to access the other service methods on the API, the same token can be used repeatedly until it is expired and thus must be kept by the agent's host for a certain period of time. If token has expired (indicated by TOKEN_EXPIRED status at the service response), the agent's host must re-login using the same Login service method in order to get the new token and repeat the transaction.

After the Login process, there is a validate account process, to check whether the account has been linked with e-cash or not. If has not linked yet then partner must implement this register service process. Once completed the register service process, partner will receive a callback response and will redirect user back to the partner application page.

The agent application will make an API requests via agent's host, and then forward the request to PT DAM host. The interface between Agent host and PT DAM host is build around a secured and trusted connection.

	Title	Perubahan Flow Registrasi H2H eCash		
	Author	Tri Arta Simanjuntak	Page	6 Of 11
	Status	Draft	Version	1.1
	Document	Implementation Guide	Date	22/01/2018

Register Service Implementation

Prerequisites

1. Partner has been registered in the Mandiri e-cash online payment system, received the MID (Merchant ID) and also have an active Mandiri Bank Account.
2. User has logged in to partner's app and has token.


Implementation

1. User wants to link e-cash with partner app.
2. Partner will hit getRegisterTicket API and send the following parameters:

Parameters	Format Explanations	Accepted Values
(Headers)		
API Key	Assignable value	String
(Body)		
token	Transaction Token	String
mobilenno	User MSISDN	String

The correct response will be:

Parameters	Format Explanations	Accepted Values
ticket	Transaction ticket	String
status	Response status	String
mobilenno	User MSISDN	String

	Title	Perubahan Flow Registrasi H2H eCash		
	Author	Tri Arta Simanjuntak	Page	7 Of 11
	Status	Draft	Version	1.1
	Document	Implementation Guide	Date	22/01/2018

Example of request :

HTTP POST :

`https://api.mandiri-ecash.com/eCashHost/NonTransactionManager/getRegisterTicket`

Header:

`APIKey:56c4382d6873f46e7d000001959410aa05204e724cbd842ac3926b47`

Body:

`mobilenno:087877790802`


`token:7AF74AB26B8CF8FAC9B3DE341BDE89BF`

Result

```
{
  "ticket": "rg3ibnhnf6yo3ju5xyoeigsgo7lgrd6fivpc1ei0icjervb4",
  "status": "PROCESSED",
  "mobilenno": "087877790802"
}
```

Other possible results in the return parameter:

- **INVALID_PARAMETER** : There are less mandatory parameters
- **TOKEN_EXPIRED** : Transaction Token is expired

	Title	Perubahan Flow Registrasi H2H eCash		
	Author	Tri Arta Simanjuntak	Page	8 Of 11
	Status	Draft	Version	1.1
	Document	Implementation Guide	Date	22/01/2018

3. Partner app must redirect user to specified web register page. The url will be a specified url with ticket value passed as parameter.

For example, the ticket result from getRegisterTicket API is:

rg3ibnhnf6yo3ju5xyoeigsgo7lgrd6fivpc1ei0icjervb4

And the url given (on development environment) is:

<http://188.166.220.62/h2h-register/Main/register>


So, partner app should redirect user to:

<http://188.166.220.62/h2h-register/Main/register?ticket=rg3ibnhnf6yo3ju5xyoeigsgo7lgrd6fivpc1ei0icjervb4>

4. User will be redirected to the web page. E-cash will validate ticket which is sent as parameter, before redirecting user to the web page.

5. User fills the data as requested on the web page. In case user is not registered in e-cash, they will fill data as shown below:

NB: Provided that the merchant has permission to register new account.



Nomor Handphone
0878777908030


Nama :


Email :

Tanggal Lahir :

[SELANJUTNYA](#)

Powered by mandiri e-cash v1.0.0

	Title	Perubahan Flow Registrasi H2H eCash		
	Author	Tri Arta Simanjuntak	Page	9 Of 11
	Status	Draft	Version	1.1
	Document	Implementation Guide	Date	22/01/2018



Nomor Handphone
0878777908030

OTP : [MINTA OTP](#)

PIN :

Konfirmasi PIN :

Secret Question :

Secret Answer :

[SIMPAN](#)

In case user already has e-cash account, but not linked to merchant, they just need to fill PIN and OTP; phone number will be shown automatically. Here is how it looks:



Nomor Handphone
0878777908030

PIN :

OTP : [MINTA OTP](#)

[SIMPAN](#)


	Title	Perubahan Flow Registrasi H2H eCash		
	Author	Tri Arta Simanjuntak	Page	10 Of 11
	Status	Draft	Version	1.1
	Document	Implementation Guide	Date	22/01/2018

6. User fills the data as requested on the web page, and then submits the data. E-cash will process the data and send the result, either success or fail. User will be redirected to partner app again (via callback method).



Process Flow

1. User wants to link e-cash with partner via partner application.
2. Partner hit API getRegisterTicket by sending some parameters (API Key, token and msisdn).
3. E-Cash will return ticket, msisdn and status.
4. Partner will forward user to a URL with ticket sent as parameter, so that they can access the web page to continue the process of linking e-cash with app partner.
5. Web page will be shown to user. User input data as requested as shown on the page.
6. After the process is done, user will be redirected again to partner app (via callback method).

	Title	Perubahan Flow Registrasi H2H eCash		
	Author	Tri Arta Simanjuntak	Page	11 Of 11
	Status	Draft	Version	1.1
	Document	Implementation Guide	Date	22/01/2018

Sandbox / development environment for Register Service H2H e-Cash

PT DAM provides development environment for Mandiri e-cash integration, to use the sandbox the following prerequisites must be met:

1. Register one or more account in apps partner as the tester customer that will do the testing transactions.
2. Receive the MID & the password for the merchant
3. Using this URL to continue register process :
<http://188.166.220.62/h2h-register/Main/register?ticket=8v9cq7xkd8g0egrypga3wohsxn590hlak5q85bhztfxvejnk>

NB: adjust the value of ticket according to API response

4. Partner app check for callback status.