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# Mandiri e-Cash Implementation Guide Perubahan Flow Registrasi H2H eCash

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## *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
1.2	23/01/2018	Hendy	Add new fields (name, email, dob, birthplace, and address)
1.3	05/02/2018	Hendy	<ul style="list-style-type: none"> <li>- Add new fields (idno)</li> <li>- Add ticket to callback params</li> <li>- Additional notes on process flow</li> </ul>

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## 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.

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## 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
name	User's Name (optional)	String
email	User's Email (optional)	String
dob	Date of Birth (optional)	String
birthplace	Birth Place (optional)	String
address	User's Address (optional)	String
idno	User's Identification Number (optional)	String

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The correct response will be:

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

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"
}
```

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Other possible results in the return parameter:

- INVALID\_PARAMETER : There are less mandatory parameters
- TOKEN\_EXPIRED : Transaction Token is expired

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.*



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 Nomor Handphone  
**0878777908044**

Nama :

CIF Name :

NIK :

Alamat :

Email :

Tempat Lahir :


Tanggal Lahir :

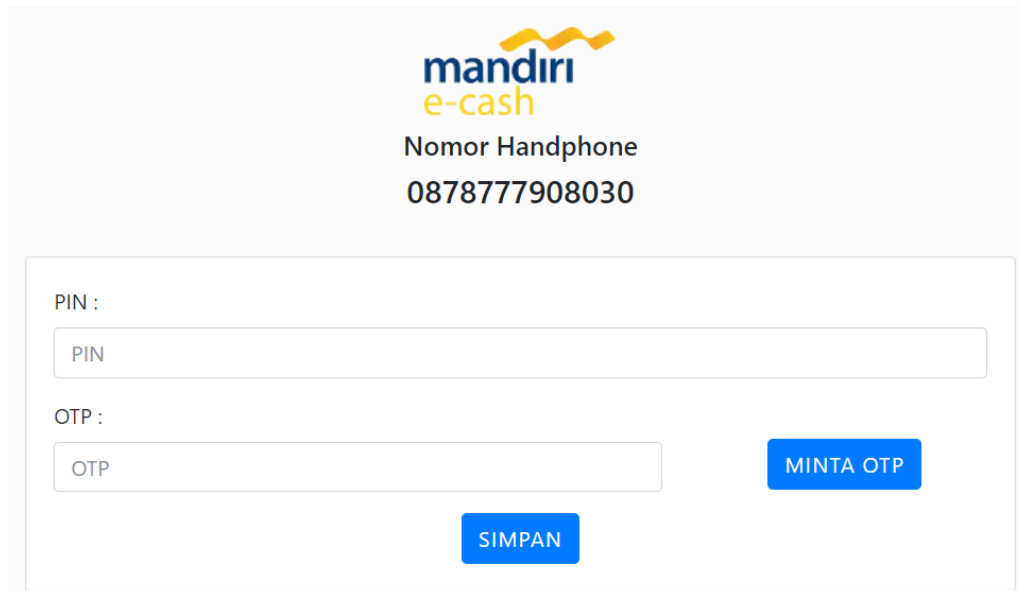
[SELANJUTNYA](#)


Powered by mandiri e-cash v1.0.0

*NB: if the data is passed during getRegisterTicket, it'll be prefilled in this form*

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:

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**Nomor Handphone**  
**0878777908030**

PIN :

OTP :

MINTA OTP

SIMPAN

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).



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## 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).

This registration process is only needed to be called 1 time for each installation. So, after the registration is succeeded, please set a flag in your local apps that the user has already linked. You only need to do this process again if the user uninstall the apps or removed eCash from payment method.

## 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>

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*NB: adjust the value of ticket according to API response*

4. Partner app check for callback status.