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# RDL TECHNICAL DOCUMENTATION

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## Document Sign-Off

Version 1.0.0		
Author	Zola	08 Februari 2019
Reviewer		
Approver		

## Document Change Control

Version	Implementation Date	Authors	Summary of changes
V 1.0.0	21 june 2019	Rizki Kurniawan	
V 1.0.1	4 August 2020	Febriana M	Chapter 5: Update link encryption library
V 1.0.2	9 February 2021	William	<b>Chapter 4:</b> Update link encryption library <b>Correction Numbering Contents</b>

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# 1. Biller Client Integration

## 1.1 Biller Client Detail

Biller client should be able to provide technical data for the integration purpose, which consist:

- A RDL callback URL Credit and Debit

## 1.2 Data Security System

For security purpose, all messages that sent from and to BNI eCollection will be encrypted with a library (provided, see **Appendix E**). The encryption algorithm needs a secret key which will be provided by BNI eCollection. The secret key is a regular 32 hexadecimal characters.

Sample of a secret key: **8621e5f22c583c3b7997d75b65be420b**

The encryption also uses time to validate the request. Biller client should be able to make sure the time on the machine which making a request is set properly, though there is a 5 (five) minutes tolerance.

## 2. RDL Notification (BNI eCollection system to Biller Client POST JSON)

Parameters of payment notification (for more information about each parameter, please refer to **section 2**).

Parameter	Notes
p2p_id	string(40)
account_number	varchar(15)
payment_amount	decimal(17,3)
accounting_flag	char(1)
journal_number	varchar(6)
datetime_payment	datetime

### Notes:

- **Callback RDL Credit URL** : provided by Biller client,
- **Callback RDL Debit URL** : provided by Biller client,
- If payment notification failed, our system will send another request to callback URL until succeed or at maximum 5 times retry,
- A notification is considered as success if and only if response from the callback URL indicated status = 000 with JSON format (see example on the next page),

Example of payment notification :

```
{
  "account_number": "12312301",
  "payment_amount": "1000.000",
  "accounting_flag": "C",
  "journal_number": "751690",
  "datetime_payment": "2019-01-03 13:35:50"
}
-----
{
  "p2p_id": " SANDBOX",
  "data": "FUDFFUMcHh0WE0QNA1dVXEdQegggOEczSBFFGRJBQxkFQjNWfVpcX0N
NdnNDR1JYV1s3IQhNRxdFEkUYE0FCGRNFQhBECxQLR1YJB09QSVVHVn
CxQLR0IKeFRMUUhHWHZfVHoEXDYbOBoSQ0cVFES-EkkIGh0cEkZMERM
FYQ"
}
```

Response should be like this (otherwise it is considered as a failed request):

```
{
  "status" : "000"
}
```

### 3. Parameter Information

Parameters of payment notification (for more information about each parameter, please refer to **section 3**).

Parameter	Data Types	Notes
p2p_id	varchar(40)	P2P ID is given by BNI along with the Secret Key.
account_number	varchar(15)	This parameter presents account number of lender
payment_amount	decimal(17,3)	Amount transaction
accounting_flag	char(1)	This parameter presents only C (credit) or D (debit)
journal_number	varchar(6)	Journal number, also known as reference number. Example: 058305
datetime_payment	datetime  Format: <date> <time>	This parameter presents datetime of transaction

### 4. Encyption Library

- a. ASP.NET  
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