

Technical Specification
Biller / Merchant Payment Interface
Using XML – API (OPEN/RECURRING PAYMENT)
MIN MAX



Version 1.4.1

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1. Document Preface

1.1. Document Control

Version	Author	Editor	Date Distributed	Changes Description
1.0	AJ	-	-	Initial Draft Release
1.4.1	AJ Maulana Falah	-	-	revision message format for (vaid, reference_number, username, bookingid, productid) revision Transaction status code

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1.2. Reference Documents

No	Reference / Specification	Version
-	N/A	-

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2. Message Specification

2.1. Overview

This specification is describe the XML specification and the Transaction Flow that will be used by Artajasa and partner to allow payment services using ATM Bersama transfer feature.

2.2. Scopes

This document defines following XML functions:

1. Request Inquiry
2. Notification Interaction
3. Inquiry Transaction Status

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2.3. Transaction Flow

2.3.1. Request Inquiry

This process describes transaction flow to Request Inquiry Transaction:

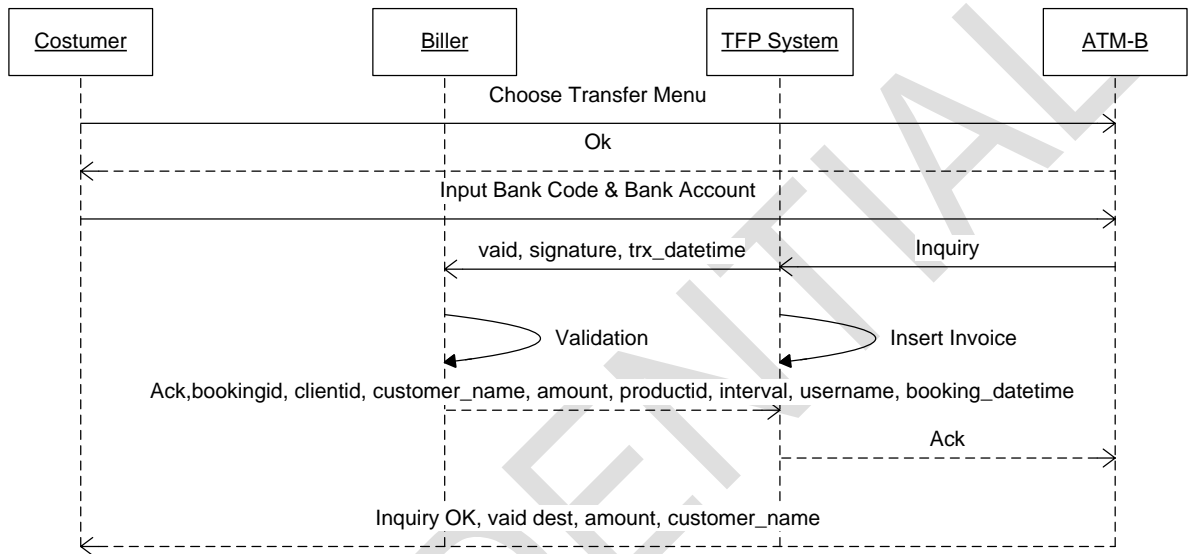


Figure 1 – Request Inquiry Flow

2.3.2. Request Transfer

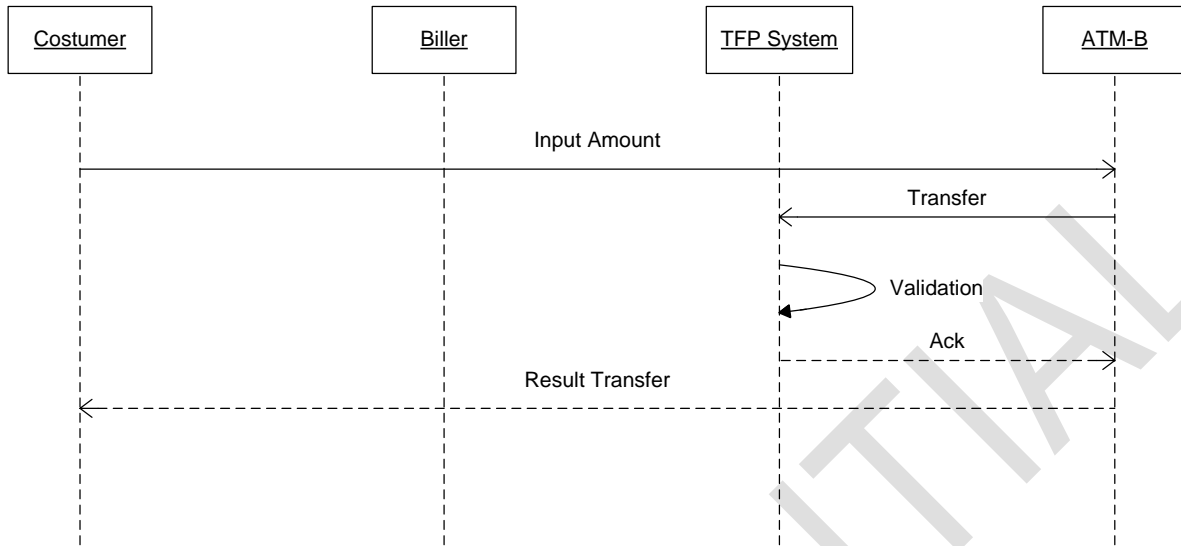


Figure 2 – Flow Request Transfer

2.3.3. Payment Notification

This process describes transaction flow to Payment Notification:

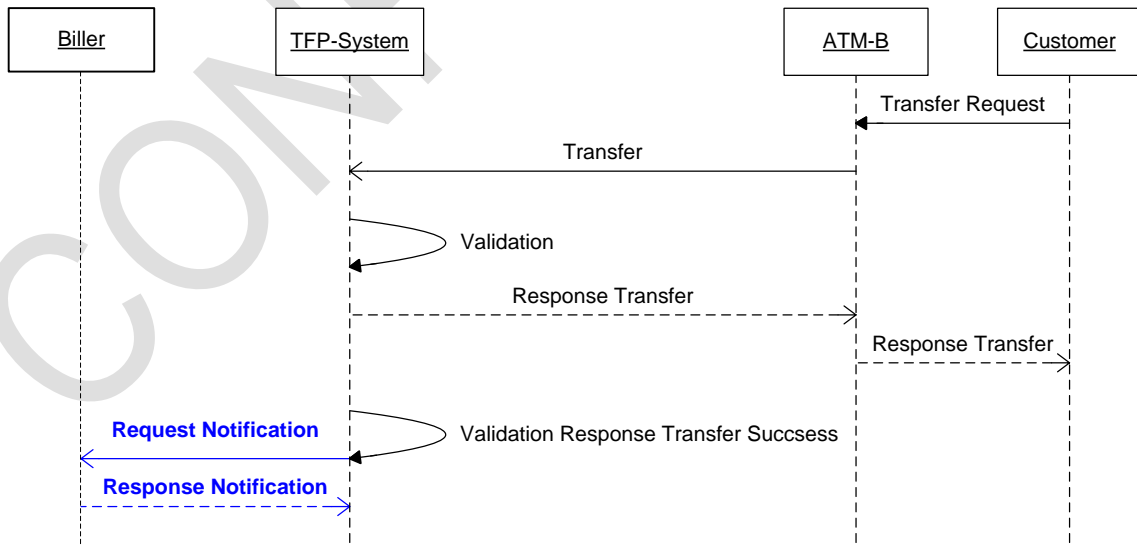


Figure 3 – Payment Notification Transaction Flow

2.3.4. Transaction Status Inquiry

This process describes transaction flow of Transaction Status Inquiry:

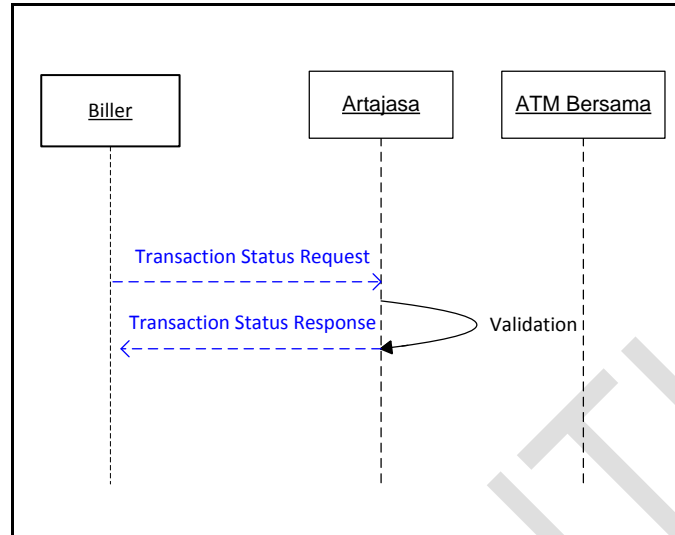


Figure 4 – Transaction Status Inquiry Flow

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2.4. Message Format

This section describes the message formats supported by Biller Payment Interface. HTTP POST is used to send the message using XML format.

2.4.1. Request Inquiry

2.4.1.1. Request Inquiry Message Format

Request Inquiry to Biller use HTTP RAW Post Data from Artajasa Interface using XML data format.

No	Name	Type	Status	Length	Description
1	type	String	M	50	Type of data that requested by Biller, filled in accordance with the type of ongoing transactions: Value: reqinqpayment
2	vaid	Int	M	18	Payment Code that allocated for payment transfer
3	booking_datetime	String	M	19	Transmission local date and time of the transaction. (GMT+7) Format: YYYY-MM-dd hh:mm:ss
4	reference_number	String	M	16	Reference number filled by issuer
5	username	String	M	25	Given Biller username provided by Artajasa
6	signature	String	M	32	Signature data

Sample Request Inquiry format :

```
<?xml version="1.0" ?>
<data>
  <type>reqinqpayment</type>
  <vaid>500123000000123456</vaid>
  <booking_datetime>2011-11-08 20:20:33</booking_datetime>
  <reference_number>01</reference_number>
  <username>partner</username>
  <signature>9bb575179ef43032d7dee3e57bbb5575</signature>
</data>
```

2.4.1.2. Response Message Format

General format of XML used for the Response Inquiry Transaction process is as follows:

No	Name	Type	Status	Length	Description
1	type	String	M	50	Filled in accordance with the type of ongoing transactions: Value: resinqpayment
2	ack	String	M	2	Response Code of this transaction, for detail of failed please see complete status result. (00 is success)
3	bookingid	String	M	25	Booking ID (Received From Biller, Unique) MUST NUMERIC
4	customer_name	String	M	25	Customer name in which bookingid is attached to.
5	min_amount	Int	M	12	Minimal amount that customer should pay (should numeric, excluding decimal point) For example: IDR 50.000 will be denoted as 50000
6	max_amount	Int	M	12	Maksimal amount that customer should pay (should numeric, excluding decimal point) For example: IDR 1.892.221 will be denoted as 1892221
7	productid	String	M	20	Product id from Biller (must unique on Biller's side)
8	signature	String	M	32	Signature data

Sample the Response Inquiry Transaction format:

```
<?xml version="1.0" ?>
<data>
  <type>resinqpayment</type>
  <ack>00</ack>
  <bookingid>123456789</bookingid>
  <customer_name>Faisal</customer_name>
  <min_amount>50000</min_amount>
  <max_amount>1950000</max_amount>
  <productid>120</productid>
  <signature>9bb575179ef43032d7dee3e57bbb5575</signature>
</data>
```

2.4.2. Payment Notification

2.4.2.1. Request Message Format

Request Payment Notification to Biller use HTTP RAW Post Data from Artajasa Interface using XML data format.

No	Name	Type	Status	Length	Description
1	type	String	M	10	Filled in accordance with the type of ongoing transactions: Value: reqnotification
2	bookingid	String	M	25	Booking ID (Received From Biller, Unique)
3	customer_name	String	M	25	Customer name in which bookingid is attached to (Alphabet)
4	issuer_bank	String	M	50	Name of issuer bank
5	issuer_name	String	M	30	Name of issuer bank account name of ATM Bersama
6	amount	Int	M	12	Amount that customer should pay (should numeric, excluding decimal point) For example: IDR 1.892.221 will be denoted as 1892221
7	productid	String	M	20	Product id from Biller (must unique on Biller's side)
8	reference_number	String	M	16	Reference number filled by issuer
9	trxid	String	M	34	Combination of ATM Bersama transaction ID for transaction tracing.
10	trx_date	String	M	19	Date and time of the ATM Bersama transaction. Format: YYYY-MM-dd hh:mm:ss

11	username	String	M	25	Given Biller user name provided by Artajasa
12	notification_datetime	String	M	19	Transmission local date and time of the transaction. (GMT+7) Format: YYYY-MM-dd hh:mm:ss
13	signature	String	M	32	Signature data

Sample Payment Notification Request format :

```
<?xml version="1.0" ?>
<notification>
  <type>reqnotification</type>
  <bookingid>123456789</bookingid>
  <customer_name>Faisal</customer_name>
  <issuer_bank>Bank Rakyat Indonesia</issuer_bank>
  <issuer_name>NAMA BIN NAMA</issuer_name>
  <amount>100000</amount>
  <productid>01</productid>
  <reference_number>1234567890123456</reference_number>
  <trxid>0000021805410607000014000000000000</trxid>
  <trx_date>2011-11-08 22:20:33</trx_date>
  <username>partner</username>
  <notification_datetime>2011-11-08 22:30:43</notification_datetime>
  <signature>9bb575179ef43032d7dee3e57bbb5575</signature>
</notification>
```

2.4.2.2. Response Message Format

General format of XML used for the Payment Notification Response:

No	Name	Type	Status	Length	Description
1	type	String	M	10	Filled in accordance with the type of ongoing transactions: Value: resnotification
2	ack	String	M	2	Response code of notification "00" for success, "78" for re-try notification if already arrived before.
3	bookingid	String	M	25	Booking ID (Received From Biller, Unique)
4	signature	String	M	32	Signature data

Sample Payment Notification Response format:

```
<?xml version="1.0" ?>
<return>
  <type>resnotification</type>
  <ack>00</ack>
  <bookingid>123456789</bookingid>
  <signature>9bb575179ef43032d7dee3e57bbb5575</signature>
</return>
```

2.4.2.3. Retry Notification Response

Sometimes notifications are having problems, such as notification response is not received by the "TFP System". If this happens, then the notification will be sent again. "Biller" should receive the notification and reply with "ack" 78 if previous notification has been deemed responded. And "TFP System" will repeat up to 3 times after the first data packet requested.

2.4.3. Transaction Status Inquiry

Biller can inquiry the several transactions status to Artajasa using Transaction Status Inquiry function. Every transaction indicated by `itemNN` (NN indicates the transaction index number) tag.

2.4.3.1. Request Message Format

Request Transaction Status Inquiry from Biller use HTTP RAW Post Data to Artajasa Interface using XML data format. Several `void`, `booking_datetime`, `username`, and `signature` can be sent by Biller, minimum `item01` must be exist in the request. **Maximum item for inquiry transaction status is 20.**

No	Name	Type	Status	Length	Description
1	type	String	M	12	Type of data that requested by Biller, filled in accordance with the type of ongoing transactions: Value: reqtrxstatus
2	void	String	M	18	Payment ID that allocated for bookingid for Customer
3	bookingid	String	M	25	Booking ID (Received From Biller, Unique)
4	booking_datetime	String	M	19	Created date of VAID that match with "booking_datetime" in Payment Code Request. Format: YYYY-MM-dd HH:mm:ss
5	username	String	M	25	Given Biller user name provided by Artajasa
6	signature	String	M	32	Signature data

Sample Transaction Status Inquiry format :

```
<?xml version="1.0" ?>
<notification>
  <type>reqtrxstatus</type>
  <item01>
    <void>500100123456</void>
    <bookingid>12345678</bookingid>
    <booking_datetime>2011-11-08 22:20:33</booking_datetime>
    <username>partner</username>
    <signature>9bb575179ef43032d7dee3e57bbb5575</signature>
  </item01>
  <item02>
    <void>500100123457</void>
    <bookingid>12345679</bookingid>
    <booking_datetime>2011-11-08 22:20:53</booking_datetime>
    <username>partner</username>
    <signature>9bb575179ef43032d7dee3e57bbb5575</signature>
  </item02>
  <item03>
    <void>500100123458</void>
    <bookingid>12345610</bookingid>
    <booking_datetime>2011-11-08 22:21:33</booking_datetime>
    <username>partner</username>
    <signature>9bb575179ef43032d7dee3e57bbb5575</signature>
  </item03>
  <itemNN>
    <void>...</void>
    <bookingid>...</bookingid>
    <booking_datetime>...</booking_datetime>
    <username>...</username>
    <signature>...</signature>
  </itemNN>
</notification>
```

2.4.3.2. Response Message Format

General format of XML used for the Transaction Status Inquiry Response:

No	Name	Type	Status	Length	Description
1	Type	String	M	10	Filled in accordance with the type of ongoing transactions: Value: restrxstatus
2	bookingid	String	M	25	Booking ID (Received From Biller, Unique)
3	void	String	M	18	Payment ID that allocated for bookingid for Customer
4	customer_name	String	M	25	Customer name in which bookingid is attached to (Alphabet)
5	issuer_bank	String	M	50	Name of issuer bank
6	issuer_name	String	M	30	Name of issuer bank account name of ATM Bersama
7	amount	Int	M	12	Amount that customer should pay (should numeric, excluding decimal point) For example: IDR 1.892.221 will be denoted as 1892221
8	productid	String	M	20	Product id from Biller (must unique on Biller's side)
9	trxid	String	M	34	Combination of ATM Bersama transaction ID for transaction tracing.
10	trx_date	String	M	19	Date and time of the ATM Bersama transaction. Format (YYYY-MM-dd HH:mm:ss)
11	status	String	M	3	Transaction status code. The value and description is referring to Appendix 1.1 - Error! Reference source not found.
12	signature	String	M	32	Signature data

Sample Transaction Status Inquiry response format:

```
<?xml version="1.0" ?>
<notification>
  <type>restrxstatus</type>
  <item01>
    <bookingid>123456789</bookingid>
    <vaid>500100123456</vaid>
    <customer_name>Faisal</customer_name>
    <issuer_bank>Bank Rakyat Indonesia</issuer_bank>
    <issuer_name>NAMA BIN NAMA</issuer_name>
    <amount>1000000</amount>
    <productid>01</productid>
    <trxid>0000021805410607000014000000000000</trxid>
    <trx_date>2013-09-08 21:20:33</trx_date>
    <status>00</status>
    <signature>9bb575179ef43032d7dee3e57bbb5575</signature>
  </item01>
  <item02>
    <bookingid>123456790</bookingid>
    <vaid>500100123457</vaid>
    <customer_name>Faisal</customer_name>
    <issuer_bank>Bank Rakyat Indonesia</ issuer_bank >
    <issuer_name>NAMA BIN NAMA</issuer_name>
    <amount>1000000</amount>
    <productid>01</productid>
    <trxid>0000021805410607000014000000000000</trxid>
    <trx_date>2013-09-08 21:20:33</trx_date>
    <status>00</status>
    <signature>9bb575179ef43032d7dee3e57bbb5575</signature>
  </item02>
  <item03>
    <bookingid>123456791</bookingid>
    <vaid>500100123458</vaid>
    <customer_name>Faisal</customer_name>
    <issuer_bank>Bank Rakyat Indonesia</issuer_bank>
    <issuer_name>NAMA BIN NAMA</issuer_name>
    <amount>1000000</amount>
    <productid>01</productid>
    <trxid>0000021805410607000014000000000000</trxid>
    <trx_date>2013-09-08 21:20:33</trx_date>
    <status>00</status>
    <signature>9bb575179ef43032d7dee3e57bbb5575</signature>
  </item03>
  <itemNN>
    <bookingid>...</bookingid>
    <vaid>...</vaid>
    <customer_name>...</customer_name>
    <issuer_bank>... </issuer_bank>
    <issuer_name>...</issuer_name>
    <amount>...</amount>
    <productid>...</productid>
    <trxid>...</trxid>
    <trx_date>...</trx_date>
    <status>...</status>
    <signature>...</signature>
  </itemNN>
</notification>
```

2.4.3.3. Transaction Status Code

1. "00" ⇒ **Transaction Success**
2. "05" ⇒ Transaction failed / general error
3. "13" ⇒ INVALID AMOUNT
4. "78" ⇒ **ALREADY PAID (Transaction Success)**
5. "76" ⇒ Invalid To Account
6. "01" ⇒ Illegal signature Transaction (inquiry, transfer)
7. "101" ⇒ Illegal signature from Biller (Inquiry Status)
8. "312" ⇒ Empty Stock (Optional)
9. "300" ⇒ No Transaction Found
10. "91" ⇒ Error Database

For status **00, 78**, biller must flag that transaction status is success and **not reinquiry transaction status** after receive those status. For responsecode 101 please check Merchant's signature before Merchant **send next inquiry transaction status**.

2.5 Signature Data Construction

Signature data is need to be generated by both systems in order to authenticate the incoming message. This signature data will be validated upon request from both systems.

The value of signature data will be available in the signature field of the XML. Signature data will be taken from MD5 value of password and username.

Signature = MD5 (Password + Username)