



## VTI Message Specification V5.0

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## 1. Introduction

This document describes the interface and message specifications that allows a POS to connect to an intelligent POS communications and application controller. The Reader enables the POS to easily support including authorizations and data capture.

### 1.1 Purpose

This document should be used in conjunction with an implementation guide that describes the details of the particular implementation that you are developing the interface for.

## 2. Abbreviations & Definitions

Terms used in the document are defined in this Section.

Abbreviation	Definition
BCD	Binary Coded Decimal
REQD	Required in the message.
OPTL	May be in the message. The comment area will often explain the conditions that will cause it to be included.
APPR	Included if the transaction is approved.

Table 2-1: Table of Abbreviations

### 2.1 Definitions

Terms	Definition
Reader	<p>Equipment that connects to the POS using the message specifications in this document.</p> <p>The Reader will also be responsible for communicating with the appropriate host system using whatever link, protocol and message formats required.</p>

Table 2-2: Table of Definitions

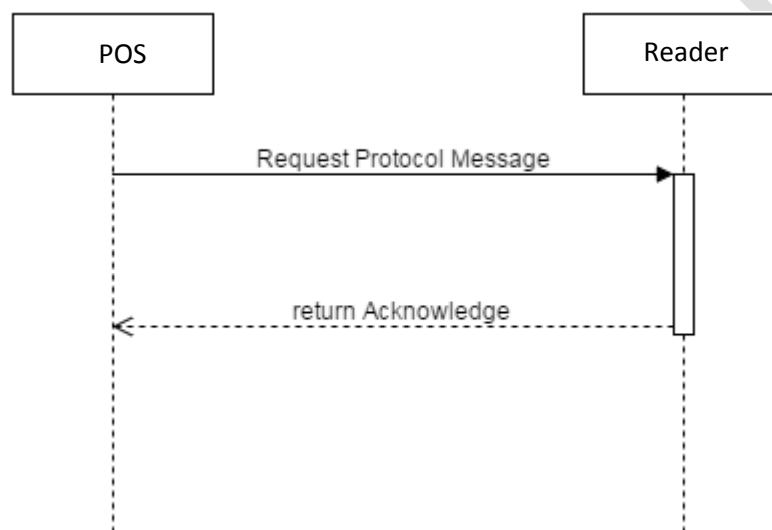
### 3. Protocol

In order to prevent a single error on the line from causing a message to be lost, a message will be acknowledged when the receiver returns an ACK character.

Only a single unacknowledged message can be outstanding at one time in one direction. The receipt of a message does not imply the previous message sent has been received

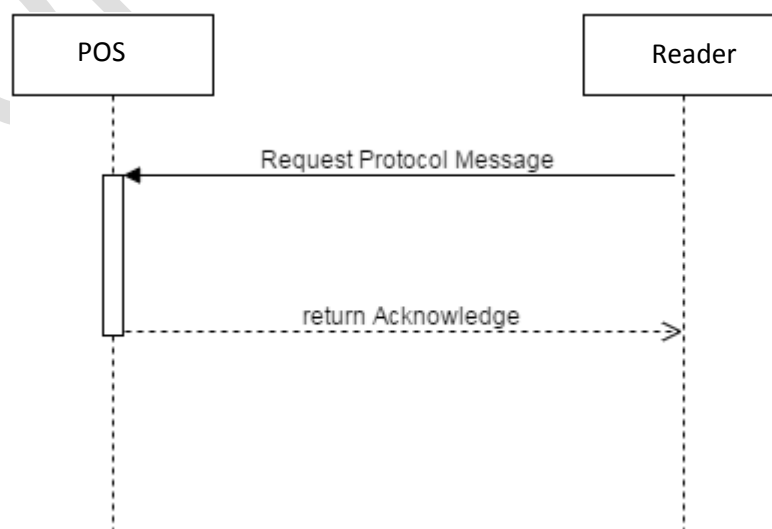
#### 3.1 Message from POS to Reader

The POS transmits a message. The Reader acknowledges receipt of the message by transmitting a single ACK (06h) character.



#### 3.2 Message from Reader to POS

Reader transmits a message. The Device acknowledges receipt of the message by transmitting a single ACK (06h) character



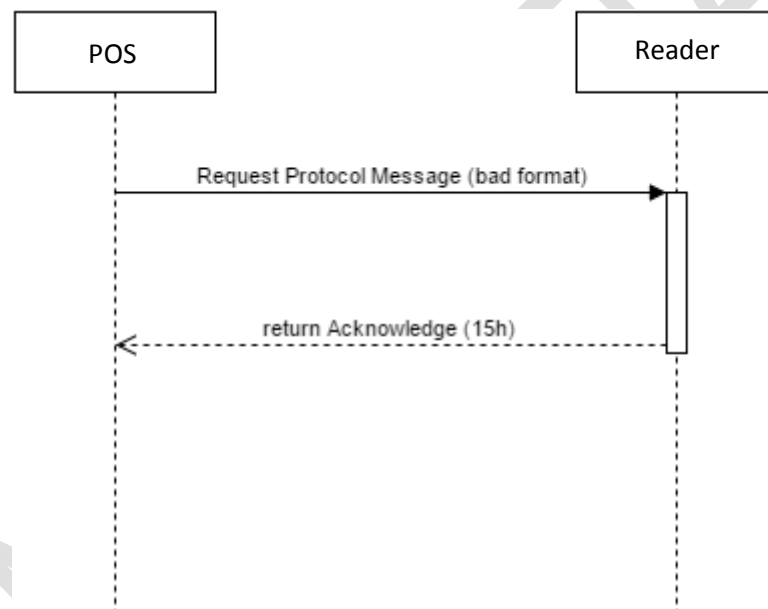


### 3.3 Error Handle

If the POS or Reader sends a message, and does not receive the ACK within 2 second, the message should be transmitted again. If the second transmission does not receive an ACK within 2 second that message should be treated as undeliverable, and the application should take whatever actions are required to recover.

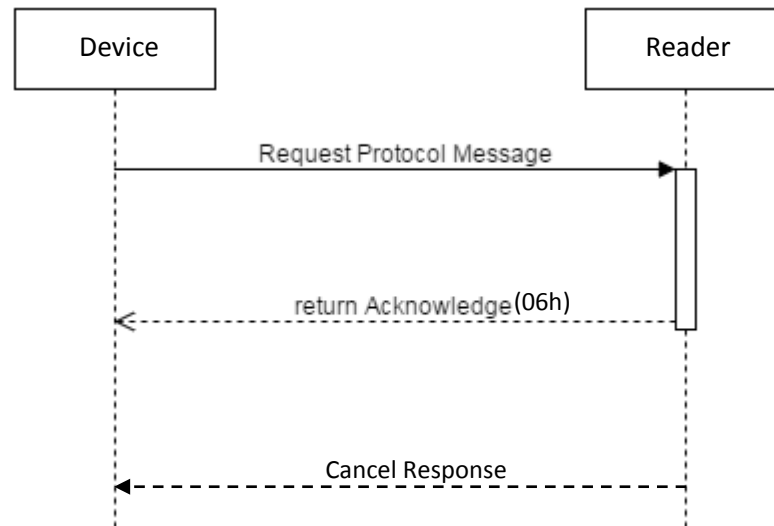
#### 3.3.1 Format Error

If Reader receives a message in error (Bad Length, missing ETX, or incorrect LRC), Reader sends single acknowledge 15h to notify the message is error. These errors should only be caused by transmission errors, and the retransmission will correct the error. There is no automatic method for recovering from application errors that cause the message to appear corrupted.



### 3.3.2 Host Reject Error.

In case of rejects transaction, Reader responses cancel message with error reason.



## 4. Message

### 4.1 Message Structure

The messages that are transmitted on the link between the POS and Reader will use the following structure

S T X	LLLL	MESSAGE DATA			E T X	L R C
		Transport	Presentation	Field Data		
				Field		Field

Field	Bytes	Value	Comment
STX	1	02h	Start of Text
LLLL	2		<p>Length of the MESSAGE DATA to follow.</p> <p>This is transmitted in BCD (Binary Coded Decimal) form. The most significant byte is transmitted first, followed by the least significant byte.</p> <p>For example, a length of 256 bytes will be transmitted as 02h 56h.</p> <p>The LLLL field allows the inclusion of binary data in the message.</p>
MESSAGE DATA	Variable		<p>The message data consists of a Transport Header, a Presentation Header, and Field Data which is one or more Field Elements.</p> <p>These different components are more fully described in the following sections</p>
ETX	1	03h	<p>End of Text</p> <p>Logically this field is not required because of the length indicator (LLLL), but it is included as an extra check that the message was successfully received and that the receiver is in synchronization with the transmitted message.</p>
LRC	1		<p>Longitudinal Redundancy Character.</p> <p>This character is calculated by Exclusive OR-ing each character following (but not including) the STX up to (and including) the ETX.</p>

## 4.2 Message Data

### 4.2.1 Transport Header

The first data in the Message Data is the Transport Header. The Transport Header provides flexibility in message routing, and allows more than one application to use the same network.

The fields comprising the Transport Header are arranged in the following order.

TRANSPORT HEADER		
Transport Header Type	Transport Destination	Transport Source

Each byte of Field is required to minus 30h to represent the actual value of the field.

For example, 36h minus 30h, the actual value is 06h.

Field	Bytes	Value	Use
Transport Header Type	2	'60'	Used to select the type of application this message is used for.
Transport Destination	4	'0000'	Allows the POS to select the destination to which this message is to be routed.  If this value is '0000', Reader will determine the correct destination to route the message to from its internal tables.
Transport Source	4	'0000'	The first two digits of this field must be '00'. The second two digits can be used by the POS for any purpose. Typically this will be '00', but if there are multiple devices connected to the POS, this field can be used to identify the device the original request originated at.

### 4.2.2 Presentation Header

The next data in the Message Data is the Presentation Header. The Presentation Header indicates if this is a request or a response, the transaction code, a response code, and an indication if there are more messages associated with this message.

The fields comprising the Presentation Header are arranged in the following order.

PRESENTATION HEADER					
Format	Request-Response	Transaction	Response	More Data	Field Separator
Version	Indicator	Code	Code	Indicator	

Each byte of Field (except "Field Separator" 1Ch) is required to minus 30h to represent the actual value of the field.

For example, 36h minus 30h, the actual value is 06h.

Field	Bytes	Value	Use
Format Version	1	'1'	Indicates what format of the messages is supported.
Request-Response Indicator	1		'0' This message is a request message which requires a response '1' This message is a response message '2' This message is a request message which does not require a response
Transaction Code	2		Identifies the type of transaction this message is performing.  Each byte deduce 30 first, e.g. "32 30". After deduction, it will be "02 00"
Response Code	2		Identifies the result of the transaction in a response. Response code should be set to '00' for all request messages.  See the table in section for a list of valid Response Codes.
More Indicator	1		'0' This is the last message for this transaction. '1' There is another message following this one with more field data for this transaction.
Field Separator	1	1Ch	This field is used to make it easier to identify the end of the presentation header when looking at message traces.

### 4.2.3 Field Data

The Field Data is the most important area for flexibility in the message format.

The method described here allows great benefits, but there is a price to pay for this flexibility; each field element has 2 or 5 bytes of overhead.

The benefits gained from this overhead are:

- Ability to pass binary data.

New features such as Signature Capture will require passing large amounts of data. The overhead required if this cannot be passed as binary data is very high.

- Variable Length Data Fields.

- The data is fairly readable on a message trace.

The Field Data consists of 0 or more Field Elements, arranged one after the other in the message.

FIELD DATA				
Field Elements	Field Element		Field Element	Field Element

#### 4.2.4 Field Data Format

The fields comprising the Field Element are arranged in the following order.

FIELD ELEMENT FORMAT			
Field	LLLL	Data	Field

Field	Bytes	Value	Use
Field Type	2		<p>Indicates the type of data that is included in this field element.</p> <p>Each byte is required to minus 30h to represent the actual value of the field.</p> <p>For example, 34h minus 30h, the actual value is 04h.</p> <p>This is an alphanumeric field. Characters 0-9 and A-Z are available for use.</p>
LLLL	2		<p>Indicates the length in bytes of the data to follow. Length can have a value from 0000 to a value that will not cause the total message to exceed the maximum size allowed for the implementation.</p> <p>Available values for this are detailed in section. LLLL is transmitted in BCD (Binary Coded Decimal) form. The most significant byte is transmitted first, followed by the least significant byte.</p>
Data	LLLL		<p>The data for this field. If no data is in this field (for example, when the functionality is indicated by the field type on its own), there will be no data.</p>
Field Separator	1	1Ch	<p>This field is used to make it easier to identify the end of a field element when looking at message traces.</p>

#### 4.2.5 Extra Field Separators

Some POS implementations will be easier to develop this interface if field data appears in a particular order, with additional field separators to represent fields that are missing.

To support this, it is acceptable to include extra Field Separator characters (1Ch) between Field Elements.

This can be easily supported in the parsing routine by ignoring any Field Separator characters when it is expecting the first character of the Field Type.

## 5. Transaction Message Data

### 5.1 Transaction Code Definition.

Code	Description
24	Rabbit Top Up
57	Sale Rabbit (Only sale rabbit, other devices will not allow)
58	Rabbit Check Balance
60	New Rabbit Refund
62	Rabbit Inquiry Last Transaction Log

## 5.2 Field Type Definition.

Field type is the definition to identify the type of information in message data.

Field type referred in this spec is below.

Field Type	Field Data
00	Null Type
01	Approval Code
02	Response Text
03	Transaction Date
04	Transaction Time
05	Transaction Date/Time
06	Merchant Number
16	Terminal Id
30	Primary Account Number/Card Number/Order ID/OTK
31	Expired Date
40	Amount-Transaction
41	Amount-Tip
42	Amount-Cash Back
43	Amount-Tax
44	Amount-Balance
45	Amount-Balance Negative Indicator (Positive/Negative)
50	Batch Number
65	Trace/Invoice Number
D0	Merchant Name and Address
D1	Merchant Id
D2	Card Issuer Name



D3	Reference Number
D4	Card Issuer Id
DC	LINE Pay transaction ID
H1	Batch total sales count
H2	Batch total sales amount.
HN	NII
R1	Rabbit Reader Id
R2	Rabbit Trace
R3	Rabbit Transaction Type
R4	Rabbit Last Transaction Code

### 5.3 Response Code.

Code	Description
NULL	Cancel by user operation. (Can be used for health check)
00	Approve
RB	Reject/Error from Rabbit.
XX	Reject from host, the response will be same as host return.

#### 5.4 Sub Error Code.

Sub error code will be response to Response Text field in case error in particular behaviour.

Code	Description
01	RABBIT TRACE INVALID OR NOT LAST
02	RABBIT NO CARD DETECTED
03	RABBIT ALREADY REFUND
04	RABBIT TRACE NOT FOUND
05	RABBIT NOT CONNECTED
06	RABBIT NOT LOGON
07	BATCH NOT FOUND
08	RABBIT BLOCK ALL
09	RABBIT BLOCK ADD ATU
10	RABBIT BLOCK ADD
11	RABBIT INSUFFICIENT REMAINING VALUE
12	RABBIT LAST USAGE EXPIRED
13	RABBIT CARD EXPIRED
14	RABBIT CSC BLOCKED

## 6. Transaction Code

### 6.1 Sale Rabbit Transaction (Transaction code-57)

#### 6.1.1 Field Definition

Request from POS to Reader

Reqd/Opt	Field	Length	Field Name	Comments
Mandatory	40	12	Amount, Transaction	

Response from Reader to POS

Reqd/Opt	Field	Length	Field Name	Comments
Mandatory	02	40	Response Text from host	Text will be 40 characters long organized as 2 lines of 20 characters
Mandatory	D0	69	Merchant Name and Address	69 characters, organized as 3 lines of 23 characters (return space)
Mandatory	03	8	Transaction Date	YYYYMMDD
Mandatory	04	6	Transaction Time	HHMMSS
Mandatory	01	6	Approval Code	6 digits (return space)
Mandatory	65	6	Invoice Number	Batch ID (From Retail Reader)
Mandatory	16	8	Terminal Identification	Batch ID (From Retail Reader)
Mandatory	D1	15	Merchant Number (MID)	15 digits (return space)
Mandatory	D2	10	Card Issuer Name	Name of card issuer E.g.Rabbit card = "RABBIT", Rabbit LINE Pay = "LINEPAY"
Mandatory	30	...19	Card Number, Order ID	Up to 19 digits. Format will be 123456XXXXXX1234
Mandatory	31	4	Expiry Date	XXXX
Mandatory	50	6	Batch Number	6 digits (return space)
Mandatory	D3	12	Retrieval Reference Number	12 digits (return space)
Mandatory	D4	2	Card Issuer ID	2 digits (return space)
Conditional	R1	8	Rabbit Reader Id	Retail Reader Device ID
Conditional	R2	8	Rabbit Trace	Batch ID (From Retail Reader)
Conditional	44	12	Balance Amount	Purse Remaining Value

### 6.1.2 Full Request Message

02 00 35 36 30 30 30 30 30 30 30 30 30 30 31 30 35 37 30 30 30 30 1C 34 30 00 12 30 30 30 30 30 30 30 31 30 30 30 30 1C 03 14

- 02 = STX ("02")
- 35 57 = Transaction code for rabbit sale 2 bytes ("57")
- 34 30 = Field Type for amount ("40")
- 00 12 = Length of amount value ("12 Bytes")
- 30 30 30 30 30 30 30 30 31 30 30 30 30 = Amount value ("100 THB")
- 03 = ETX
- 14 = LRC

The request message is as below. The blue color lines are the focus fields.

Section	Field	Byte	Example Value	Note
STX	STX	1	02	
LLL	LLLL	2	00 35	Length of data
MESSAGE DATA – Transport Header	Transport Header Type	2	36 30	
MESSAGE DATA – Transport Header	Transport Destination	4	30 30 30 30	
MESSAGE DATA – Transport Header	Transport Source	4	30 30 30 30	
MESSAGE DATA – Presentation Header	Format Version	1	31	
MESSAGE DATA – Presentation Header	Request-Response Indicator	1	30	Identify the request.
MESSAGE DATA – Presentation Header	Transaction Code	2	35 37	57 – Sale Rabbit Only
MESSAGE DATA – Presentation Header	Response Code	2	30 30	
MESSAGE DATA – Presentation Header	More Indicator	1	30	
MESSAGE DATA – Presentation Header	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	34 30	40-Amount
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	30 30 30 30 30 30 30 30 30 31 30 30 30 30	Amount value, depend on how much amount.

### 6.1.3 Full Response Message

- 02 = STX ("02").
- 35 57 = Transaction code for rabbit sale 2 bytes ("57").
- 30 30 = Response Code for transaction success ("00").
- 36 35 = Field type for trace invoice number ("65").
- 00 06 = Length of trace invoice number 6 bytes.
- 30 30 30 30 33 37 = Trace invoice number = ("18").
- 44 32 = Field type for issuer name ("D2").
- 00 10 = Length of issuer name = ("10 Bytes").
- 52 41 42 42 49 54 20 20 20 20 = Issuer name in rabbit card case = ("RABBIT").
- 33 30 = Field type for rabbit card ID ("30").
- 00 12 = Length of rabbit card ID ("12 Bytes").
- 30 38 38 31 32 33 30 31 39 30 35 31 = Card ID = ("088123019051").
- 34 34 = Field type for remaining value ("44").
- 00 12 = Length of remaining value ("12 Bytes").
- 30 30 30 30 30 30 31 32 30 30 30 30 = Remaining value ("1200THB").
- 03 = ETX.
- 35 = LRC.

Section	Field	Byte	Example Value	Note
STX	STX	1	02	
LLL	LLLL	2	03 33	Length of data.
MESSAGE DATA – Transport Header	Transport Header Type	2	36 30	
MESSAGE DATA – Transport Header	Transport Destination	4	30 30 30 30	
MESSAGE DATA – Transport Header	Transport Source	4	30 30 30 30	
MESSAGE DATA – Presentation Header	Format Version	1	31	
MESSAGE DATA – Presentation Header	Request-Response Indicator	1	31	Identify the response.
MESSAGE DATA – Presentation Header	Transaction Code	2	35 37	
MESSAGE DATA – Presentation Header	Response Code	2	30 30	Success
MESSAGE DATA – Presentation Header	More Indicator	1	30	
MESSAGE DATA – Presentation Header	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 32	02-Response Text
MESSAGE DATA – Field Data	LLLL	2	00 40	
MESSAGE DATA – Field Data	Data	40	41 50 50 52 4F 56 41 4C 20	Text from host “APPROVAL”
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 30	D0-Merchant Name and Address
MESSAGE DATA – Field Data	LLLL	2	00 69	
MESSAGE DATA – Field Data	Merchant Name in slip L1	23	20 20	
MESSAGE DATA	Address in slip L2	23	20 20 20 20 20 20 20	

– Field Data			20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	
MESSAGE DATA – Field Data	Address in slip L3	23	20 20	
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 33	03-Transaction Date
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	32 30 31 38 30 38 32 31	YYYYMMDD
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 34	04-Transaction Time
MESSAGE DATA – Field Data	LLLL	2	00 06	
MESSAGE DATA – Field Data	Data	6	31 30 30 38 34 34	HHMMSS
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 31	01-Approval Code
MESSAGE DATA – Field Data	LLLL	2	00 06	
MESSAGE DATA – Field Data	Data	6	30 30 30 30 30 30	
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	36 35	65-Trace/Invoice Number
MESSAGE DATA – Field Data	LLLL	2	00 06	
MESSAGE DATA – Field Data	Data	6	30 30 30 30 31 38	Batch ID (From Retail Reader)
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	31 36	16-Terminal Id
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	30 30 30 30 30 30 31 38	Batch ID (From Retail Reader)
MESSAGE DATA – Field Data	Field Separator	1	1C	

MESSAGE DATA – Field Data	Field Type	2	44 31	D1-Merchant Id
MESSAGE DATA – Field Data	LLLL	2	00 15	
MESSAGE DATA – Field Data	Data	15	20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 32	D2-Card Issuer Name
MESSAGE DATA – Field Data	LLLL	2	00 10	
MESSAGE DATA – Field Data	Data	10	52 41 42 42 49 54 20 20 20 20	“RABBIT”
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	33 30	30-Primary Account Number/Card Number
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	30 38 38 31 32 33 30 31 39 30 35 31	Rabbit card id
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	33 31	31-Expired Date
MESSAGE DATA – Field Data	LLLL	2	00 04	
MESSAGE DATA – Field Data	Data	4	58 58 58 58	XXXX
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	35 30	50-Batch Number
MESSAGE DATA – Field Data	LLLL	2	00 06	
MESSAGE DATA – Field Data	Data	6	20 20 20 20 20 20	
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 33	D3-Reference Number
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	20 20 20 20 20 20 20 20 20 20 20 20	



MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 34	D4-Card Issuer Id
MESSAGE DATA – Field Data	LLLL	2	00 02	
MESSAGE DATA – Field Data	Data	2	20 20	
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data (Optional)	Field Type	2	52 31	R1-Rabbit Reader Id
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	43 30 30 30 33 39 39 37	Retail Reader Device ID
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data (Optional)	Field Type	2	52 32	R2-Rabbit Trace
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	30 30 30 30 30 30 31 38	Batch ID (From Retail Reader)
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data (Optional)	Field Type	2	34 34	44-Balance Amount, in this case it is Rabbit amount.
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	30 30 30 30 30 30 31 32 30 30 30 30	Purse Remaining Value (From Card)
MESSAGE DATA – Field Data	Field separator	1	1C	
ETX	ETX	1	03	
LRC	LRC	1	35	Example value, Depend on data.

## 6.2 Sale Rabbit LINE Pay Transaction (Transaction code-57)

### 6.2.1 Field Definition

Request from POS to Reader

Reqd/Opt	Field	Length	Field Name	Comments
Mandatory	40	12	Amount, Transaction	

Response from Reader to POS

Reqd/Opt	Field	Length	Field Name	Comments
Mandatory	02	40	Response Text from host	Text will be 40 characters long organized as 2 lines of 20 characters
Mandatory	D0	69	Merchant Name and Address	69 characters, organized as 3 lines of 23 characters (return space)
Mandatory	03	8	Transaction Date	YYYYMMDD
Mandatory	04	6	Transaction Time	HHMMSS
Mandatory	01	6	Approval Code	6 digits (return space)
Mandatory	65	6	Invoice Number	Batch ID (from Retail Reader)
Mandatory	16	8	Terminal Identification	Batch ID (from Retail Reader)
Mandatory	D1	15	Merchant Number (MID)	15 digits (return space)
Mandatory	D2	10	Card Issuer Name	Name of card issuer  E.g. Rabbit card = "RABBIT", Rabbit LINE Pay = "LINEPAY"
Mandatory	30	...19	Card Number, Order ID	Up to 19 digits. Format will be 123456XXXXXX1234
Mandatory	31	4	Expiry Date	XXXX
Mandatory	50	6	Batch Number	6 digits (return space)
Mandatory	D3	12	Retrieval Reference Number	LINE Pay Ref no.
Mandatory	D4	2	Card Issuer ID	2 digits (return space)
Conditional	R1	8	Rabbit Reader Id	Retail Reader Device ID
Conditional	R2	8	Rabbit Trace	Batch ID (from Retail Reader)
Conditional	44	12	Balance Amount	Purse Remaining Value



### 6.2.2 Full Request Message

02 00 35 36 30 30 30 30 30 30 30 30 30 31 30 35 37 30 30 30 1C 34 30 00 12 30 30 30 30 30  
30 30 30 30 31 30 30 1C 03 14

- 02 = STX ("02")
- 35 37 = Transection code for rabbit sale 2 bytes ("57")
- 34 30 = Field Type for amount ("40")
- 00 12 = Length of amount value ("12 Bytes")
- 30 30 30 30 30 30 30 30 30 31 30 30 = Amount value ("1 THB")
- 03 = ETX
- 14 = LRC

The request message is as below. The blue color lines are the focus fields.

Section	Field	Byte	Example Value	Note
STX	STX	1	02	
LLL	LLLL	2	00 35	Length of data
MESSAGE DATA – Transport Header	Transport Header Type	2	36 30	
MESSAGE DATA – Transport Header	Transport Destination	4	30 30 30 30	
MESSAGE DATA – Transport Header	Transport Source	4	30 30 30 30	
MESSAGE DATA – Presentation Header	Format Version	1	31	
MESSAGE DATA – Presentation Header	Request-Response Indicator	1	30	Identify the request.
MESSAGE DATA – Presentation Header	Transaction Code	2	35 37	57 – Sale Rabbit Only
MESSAGE DATA – Presentation Header	Response Code	2	30 30	
MESSAGE DATA – Presentation Header	More Indicator	1	30	
MESSAGE DATA – Presentation Header	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	34 30	40-Amount
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	30 30 30 30 30 30 30 30 30 31 30 30	Amount value, depend on how much amount.
MESSAGE DATA – Field Data	Field Separator	1	1C	
ETX	ETX	1	03	
LRC	LRC	1	14	Example value, Depend on data.

[illegible]

- 02 = STX ("02").
- 35 37 = Transaction code for rabbit sale 2 bytes ("57").
- 30 30 = Response code for transaction success ("00").
- 36 35 = Field type for trace invoice number ("65").
- 00 06 = Length of trace invoice number 6 bytes.
- 30 30 30 30 30 32 = Trace invoice number = ("2").
- 44 32 = Field type for issuer name ("42").
- 00 10 = Length of issuer name = ("10 Bytes").
- 4C 49 4E 45 50 41 59 20 20 20 = Issuer name in line pay case = ("LINEPAY").
- 33 30 = Field type for rabbit line pay ("30").
- 00 12 = Length of line pay OTK ("12 Bytes").
- 30 38 31 35 33 34 38 36 32 32 39 35 = OTK = ("081534862295").
- 44 34 = Field type for issuer ID ("D4").
- 00 02 = Length of issuer ID ("2 Bytes").
- 20 20 = Issuer ID = ("05").
- 34 34 = Field type for remaining value ("44").
- 00 12 = Length of remaining value ("12 Bytes").
- 30 30 30 30 30 32 38 38 37 32 30 = Remaining value ("288.72 THB").
- 03 = ETX.
- 55 = LRC.

Section	Field	Byte	Example Value	Note
STX	STX	1	02	
LLL	LLLL	2	03 33	Length of data.
MESSAGE DATA – Transport Header	Transport Header Type	2	36 30	
MESSAGE DATA – Transport Header	Transport Destination	4	30 30 30 30	
MESSAGE DATA – Transport Header	Transport Source	4	30 30 30 30	
MESSAGE DATA – Presentation Header	Format Version	1	31	
MESSAGE DATA – Presentation Header	Request-Response Indicator	1	31	Identify the response.
MESSAGE DATA – Presentation Header	Transaction Code	2	35 37	
MESSAGE DATA – Presentation Header	Response Code	2	30 30	Success
MESSAGE DATA – Presentation Header	More Indicator	1	30	
MESSAGE DATA – Presentation Header	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 32	02-Response Text
MESSAGE DATA – Field Data	LLLL	2	00 40	
MESSAGE DATA – Field Data	Data	40	41 50 50 52 4F 56 41 4C 20	Text from host “APPROVAL”
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 30	D0-Merchant Name and Address
MESSAGE DATA – Field Data	LLLL	2	00 69	
MESSAGE DATA – Field Data	Merchant Name in slip L1	23	20 20	

			20 20	
MESSAGE DATA – Field Data	Address in slip L2	23	20 20	
MESSAGE DATA – Field Data	Address in slip L3	23	20 20	
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 33	03-Transaction Date
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	32 30 31 38 30 38 32 31	YYYYMMDD
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 34	04-Transaction Time
MESSAGE DATA – Field Data	LLLL	2	00 06	
MESSAGE DATA – Field Data	Data	6	31 34 33 38 31 34	HHMMSS
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 31	01-Approval Code
MESSAGE DATA – Field Data	LLLL	2	00 06	
MESSAGE DATA – Field Data	Data	6	30 30 30 30 30 30	
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	36 35	65-Trace/Invoice Number
MESSAGE DATA – Field Data	LLLL	2	00 06	
MESSAGE DATA – Field Data	Data	6	30 30 30 30 30 32	Batch ID (From Retail Reader)
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	31 36	16-Terminal Id
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	30 30 30 30 30 30 30 32	Batch ID (From Retail Reader)

MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 31	D1-Merchant Id
MESSAGE DATA – Field Data	LLLL	2	00 15	
MESSAGE DATA – Field Data	Data	15	20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 32	D2-Card Issuer Name
MESSAGE DATA – Field Data	LLLL	2	00 10	
MESSAGE DATA – Field Data	Data	10	4C 49 4E 45 50 41 59 20 20 20	“LINEPAY”
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	33 30	30-Primary Account Number/Card Number
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	30 38 31 35 33 34 38 36 32 32 39 35	Order ID
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	33 31	31-Expired Date
MESSAGE DATA – Field Data	LLLL	2	00 04	
MESSAGE DATA – Field Data	Data	4	58 58 58 58	XXXX
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	35 30	50-Batch Number
MESSAGE DATA – Field Data	LLLL	2	00 06	
MESSAGE DATA – Field Data	Data	6	20 20 20 20 20 20	
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 33	D3-Reference Number
MESSAGE DATA – Field Data	LLLL	2	00 12	



MESSAGE DATA – Field Data	Data	12	30 30 31 30 30 31 36 31 34 38 35 36	
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 34	D4-Card Issuer Id
MESSAGE DATA – Field Data	LLLL	2	00 02	
MESSAGE DATA – Field Data	Data	2	20 20	
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data (Optional)	Field Type	2	52 31	R1-Rabbit Reader Id
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	43 30 30 30 33 39 39 37	Retail Reader Device ID
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data (Optional)	Field Type	2	52 32	R2-Rabbit Trace
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	30 30 30 30 30 30 30 32	Batch ID (From Retail Reader)
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data (Optional)	Field Type	2	34 34	44-Balance Amount, in this case it is Rabbit amount.
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	30 30 30 30 30 32 38 38 37 32 30 38	Purse Remaining Value (From LINE Pay)
MESSAGE DATA – Field Data	Field separator	1	1C	
ETX	ETX	1	03	
LRC	LRC	1	55	Example value, Depend on data.

### 6.3 Rabbit Top-Up (Transaction code-24)

#### 6.3.1 Field Definition

Request from POS to Reader

Reqd/Opt	Field	Length	Field Name	Comments
Mandatory	40	12	Amount, Transaction	

Response from Reader to POS

Reqd/Opt	Field	Length	Field Name	Comments
Mandatory	02	40	Response Text from host	Text will be 40 characters long organized as 2 lines of 20 characters
Mandatory	D0	69	Merchant Name and Address	69 characters, organized as 3 lines of 23 characters (return space)
Mandatory	03	8	Transaction Date	YYYYMMDD
Mandatory	04	6	Transaction Time	HHMMSS
Mandatory	01	6	Approval Code	6 digits (return space)
Mandatory	65	6	Invoice Number	Batch ID (From Retail Reader)
Mandatory	16	8	Terminal Identification	Batch ID (From Retail Reader)
Mandatory	D1	15	Merchant Number (MID)	15 digits (return space)
Mandatory	D2	10	Card Issuer Name	Name of card issuer E.g.Rabbit card = "RABBIT", Rabbit LINE Pay = "LINEPAY"
Mandatory	30	...19	Card Number, Order ID	Up to 19 digits. Format will be 123456XXXXXX1234
Mandatory	31	4	Expiry Date	XXXX
Mandatory	50	6	Batch Number	6 digits (return space)
Mandatory	D3	12	Retrieval Reference Number	12 digits (return space)
Mandatory	D4	2	Card Issuer ID	2 digits (return space)
Mandatory	R1	8	Rabbit Reader Id	Retail Reader Device ID
Mandatory	R2	8	Rabbit Trace	Batch ID (From Retail Reader)
Mandatory	44	12	Balance Amount	Purse Remaining Value
Optional	DC	19	LINE Pay transaction ID	19 digits (return space)

### 6.3.2 Full Request Message

02 00 35 36 30 30 30 30 30 30 30 30 30 30 31 30 32 34 30 30 30 1C 34 30 00 12 30 30 30 30 30 30 30 31 30 30 30 1C 03 10

Section	Field	Byte	Example Value	Note
STX	STX	1	02	
LLL	LLLL	2	00 35	Length of data
MESSAGE DATA – Transport Header	Transport Header Type	2	36 30	
MESSAGE DATA – Transport Header	Transport Destination	4	30 30 30 30	
MESSAGE DATA – Transport Header	Transport Source	4	30 30 30 30	
MESSAGE DATA – Presentation Header	Format Version	1	31	
MESSAGE DATA – Presentation Header	Request-Response Indicator	1	30	Identify the request.
MESSAGE DATA – Presentation Header	Transaction Code	2	32 34	24-Rabbit Top-Up
MESSAGE DATA – Presentation Header	Response Code	2	30 30	
MESSAGE DATA – Presentation Header	More Indicator	1	30	
MESSAGE DATA – Presentation Header	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	34 30	40-Amount
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	30 30 30 30 30 30 30 30 30 31 30 30 30 30	Amount value, depend on how much amount.
MESSAGE DATA – Field Data	Field Separator	1	1C	
ETX	ETX	1	03	
LRC	LRC	1	10	Example value, Depend on data.

## 6.3.3 Full Response Message

02 03 59 36 30 30 30 30 30 30 30 30 30 30 31 31 32 34 30 30 30 1C 30 32 00 40 41 50 50 52 4F  
 56 41 4C 20  
 20 20 20 20 20 1C 44 30 00 69 20  
 20  
 20  
 20  
 30 33 1C 30 34 00 06 31 30 34 33 30 31 1C 30 31 00 06 30 30 30 30 30 30 1C 36 35 00 06 30  
 30 30 31 35 37 1C 31 36 00 08 30 30 30 30 30 31 35 37 1C 44 31 00 15 20 20 20 20 20 20 20  
 20 20 20 20 20 20 20 20 20 20 1C 44 32 00 10 52 41 42 42 49 54 20 20 20 20 20 1C 33 30 00 12 30 38  
 38 31 32 33 30 31 34 32 33 38 1C 33 31 00 04 58 58 58 58 1C 35 30 00 06 20 20 20 20 20 20 20  
 1C 44 33 00 12 20 20 20 20 20 20 20 20 20 20 20 20 20 20 1C 44 34 00 02 20 20 1C 52 31 00 08 43  
 30 30 30 33 39 38 38 1C 52 32 00 08 30 30 30 30 30 31 35 37 1C 34 34 00 12 30 30 30 30 30  
 30 34 31 38 36 39 37 1C 44 43 00 19 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20  
 20 1C 03 70

Section	Field	Byte	Example Value	Note
STX	STX	1	02	
LLL	LLLL	2	03 33	Length of data.
MESSAGE DATA – Transport Header	Transport Header Type	2	36 30	
MESSAGE DATA – Transport Header	Transport Destination	4	30 30 30 30	
MESSAGE DATA – Transport Header	Transport Source	4	30 30 30 30	
MESSAGE DATA – Presentation Header	Format Version	1	31	
MESSAGE DATA – Presentation Header	Request-Response Indicator	1	31	Identify the response.
MESSAGE DATA – Presentation Header	Transaction Code	2	32 34	24-Rabbit Top-Up
MESSAGE DATA – Presentation Header	Response Code	2	30 30	Success
MESSAGE DATA – Presentation Header	More Indicator	1	30	
MESSAGE DATA – Presentation Header	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 32	02-Response Text
MESSAGE DATA –	LLLL	2	00 40	

Field Data				
MESSAGE DATA – Field Data	Data	40	41 50 50 52 4F 56 41 4C 20	Text from host “APPROVAL”
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 30	D0-Merchant Name and Address
MESSAGE DATA – Field Data	LLLL	2	00 69	
MESSAGE DATA – Field Data	Merchant Name in slip L1	23	20 20	
MESSAGE DATA – Field Data	Address in slip L2	23	20 20	
MESSAGE DATA – Field Data	Address in slip L3	23	20 20	
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 33	03-Transaction Date
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	32 30 31 38 30 38 32 31	YYYYMMDD
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 34	04-Transaction Time
MESSAGE DATA – Field Data	LLLL	2	00 06	
MESSAGE DATA – Field Data	Data	6	31 30 34 33 30 31	HHMMSS
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 31	01-Approval Code
MESSAGE DATA – Field Data	LLLL	2	00 06	
MESSAGE DATA – Field Data	Data	6	30 30 30 30 30 30	

MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	36 35	65-Trace/Invoice Number
MESSAGE DATA – Field Data	LLLL	2	00 06	
MESSAGE DATA – Field Data	Data	6	30 30 30 31 35 37	Batch ID (From Retail Reader)
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	31 36	16-Terminal Id
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	30 30 30 30 30 31 35 37	Batch ID (From Retail Reader)
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 31	D1-Merchant Id
MESSAGE DATA – Field Data	LLLL	2	00 15	
MESSAGE DATA – Field Data	Data	15	20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 32	D2-Card Issuer Name
MESSAGE DATA – Field Data	LLLL	2	00 10	
MESSAGE DATA – Field Data	Data	10	52 41 42 42 49 54 20 20 20 20	“RABBIT”
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	33 30	30-Primary Account Number/Card Number
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	30 38 38 31 32 33 30 31 34 32 33 38	Rabbit card id
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	33 31	31-Expired Date
MESSAGE DATA – Field Data	LLLL	2	00 04	

Field Data				
MESSAGE DATA – Field Data	Data	4	58 58 58 58	XXXX
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	35 30	50-Batch Number
MESSAGE DATA – Field Data	LLLL	2	00 06	
MESSAGE DATA – Field Data	Data	6	20 20 20 20 20 20	
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 33	D3-Reference Number
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	20 20 20 20 20 20 20 20 20 20 20 20	
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 34	D4-Card Issuer Id
MESSAGE DATA – Field Data	LLLL	2	00 02	
MESSAGE DATA – Field Data	Data	2	20 20	
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	52 31	R1-Rabbit Reader Id
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	43 30 30 30 33 39 38 38	Retail Reader Device ID
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	52 32	R2-Rabbit Trace
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	30 30 30 30 30 31 35 37	Batch ID (From Retail Reader)
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	34 34	44-Balance Amount
MESSAGE DATA – Field Data	LLLL	2	00 12	

MESSAGE DATA – Field Data	Data	12	30 30 30 30 30 30 34 31 38 36 39 37	Purse Remaining Value (From Card)
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 43	DC- LINE Pay transaction ID
MESSAGE DATA – Field Data	LLLL	2	00 19	
MESSAGE DATA – Field Data	Data	19	20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	
MESSAGE DATA – Field Data	Field separator	1	1C	
ETX	ETX	1	03	
LRC	LRC	1	70	Example value, Depend on data.



## 6.4 Rabbit LINE Pay Top-Up (Transaction code-24)

### 6.4.1 Field Definition

Request from POS to Reader

Reqd/Opt	Field	Length	Field Name	Comments
Mandatory	40	12	Amount, Transaction	

Response from Reader to POS

Reqd/Opt	Field	Length	Field Name	Comments
Mandatory	02	40	Response Text from host	Text will be 40 characters long organized as 2 lines of 20 characters
Mandatory	D0	69	Merchant Name and Address	69 characters, organized as 3 lines of 23 characters (return space)
Mandatory	03	8	Transaction Date	YYYYMMDD
Mandatory	04	6	Transaction Time	HHMMSS
Mandatory	01	6	Approval Code	6 digits (return space)
Mandatory	65	6	Invoice Number	Batch ID (From Retail Reader)
Mandatory	16	8	Terminal Identification	Batch ID (From Retail Reader)
Mandatory	D1	15	Merchant Number (MID)	15 digits (return space)
Mandatory	D2	10	Card Issuer Name	Name of card issuer E.g. Rabbit card = "RABBIT", Rabbit LINE Pay = "LINEPAY"
Mandatory	30	...19	Card Number/ Order ID	Up to 19 digits. Format will be 123456XXXXXX1234
Mandatory	31	4	Expiry Date	XXXX
Mandatory	50	6	Batch Number	6 digits (return space)
Mandatory	D3	12	Retrieval Reference	Rabbit LINE Pay Ref no.
Mandatory	D4	2	Card Issuer ID	2 digits (return space)
Mandatory	R1	8	Rabbit Reader Id	Retail Reader Device ID
Mandatory	R2	8	Rabbit Trace	Batch ID (From Retail Reader)
Mandatory	44	12	Balance Amount	Purse Remaining Value
Optional	DC	19	LINE Pay transaction ID	Rabbit LINE Pay transaction ID 19 digits

## 6.4.2 Full Request Message

02 00 35 36 30 30 30 30 30 30 30 30 30 31 30 32 34 30 30 30 1C 34 30 00 12 30 30 30 30 30 30 31 30 30 30 1C 03 10

Section	Field	Byte	Example Value	Note
STX	STX	1	02	
LLL	LLLL	2	00 35	Length of data
MESSAGE DATA – Transport Header	Transport Header Type	2	36 30	
MESSAGE DATA – Transport Header	Transport Destination	4	30 30 30 30	
MESSAGE DATA – Transport Header	Transport Source	4	30 30 30 30	
MESSAGE DATA – Presentation Header	Format Version	1	31	
MESSAGE DATA – Presentation Header	Request-Response Indicator	1	30	Identify the request.
MESSAGE DATA – Presentation Header	Transaction Code	2	32 34	24-Rabbit Top-Up
MESSAGE DATA – Presentation Header	Response Code	2	30 30	
MESSAGE DATA – Presentation Header	More Indicator	1	30	
MESSAGE DATA – Presentation Header	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	34 30	40-Amount
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	30 30 30 30 30 30 30 31 30 30 30 30	Amount value, depend on how much amount.
MESSAGE DATA – Field Data	Field Separator	1	1C	
ETX	ETX	1	03	
LRC	LRC	1	10	Example value, Depend on data.





MESSAGE DATA – Field Data	Data	40	41 50 50 52 4F 56 41 4C 20	Text from host “APPROVAL”
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 30	D0-Merchant Name and Address
MESSAGE DATA – Field Data	LLLL	2	00 69	
MESSAGE DATA – Field Data	Merchant Name in slip L1	23	20 20	
MESSAGE DATA – Field Data	Address in slip L2	23	20 20	
MESSAGE DATA – Field Data	Address in slip L3	23	20 20	
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 33	03-Transaction Date
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	32 30 31 38 31 30 30 33	YYMMDD
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 34	04-Transaction Time
MESSAGE DATA – Field Data	LLLL	2	00 06	
MESSAGE DATA – Field Data	Data	6	31 30 30 39 33 35	HHMMSS
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 31	01-Approval Code
MESSAGE DATA – Field Data	LLLL	2	00 06	
MESSAGE DATA – Field Data	Data	6	30 30 30 30 30 30	
MESSAGE DATA – Field Data	Field Separator	1	1C	

MESSAGE DATA – Field Data	Field Type	2	36 35	65-Trace/Invoice Number
MESSAGE DATA – Field Data	LLLL	2	00 06	
MESSAGE DATA – Field Data	Data	6	30 30 30 31 34 35	Batch ID (From Retail Reader)
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	31 36	16-Terminal Id
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	30 30 30 30 30 31 34 35	Batch ID (From Retail Reader)
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 31	D1-Merchant Id
MESSAGE DATA – Field Data	LLLL	2	00 15	
MESSAGE DATA – Field Data	Data	15	20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 32	D2-Card Issuer Name
MESSAGE DATA – Field Data	LLLL	2	00 10	
MESSAGE DATA – Field Data	Data	10	4C 49 4E 45 50 41 59 20 20 20	“LINEPAY”
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	33 30	30-Primary Account Number/Card Number
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	30 38 31 35 33 38 35 36 31 33 37 38	Order ID
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	33 31	31-Expired Date
MESSAGE DATA – Field Data	LLLL	2	00 04	
MESSAGE DATA –	Data	4	58 58 58 58	XXXX

Field Data				
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	35 30	50-Batch Number
MESSAGE DATA – Field Data	LLLL	2	00 06	
MESSAGE DATA – Field Data	Data	6	20 20 20 20 20 20	
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 33	D3-Reference Number
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	30 30 31 30 30 39 30 33 34 38 33 34	
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 34	D4-Card Issuer Id
MESSAGE DATA – Field Data	LLLL	2	00 02	
MESSAGE DATA – Field Data	Data	2	20 20	
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	52 31	R1-Rabbit Reader Id
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	43 30 30 30 33 39 38 38	Retail Reader Device ID
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	52 32	R2-Rabbit Trace
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	30 30 30 30 30 31 34 35	Batch ID (From Retail Reader)
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	34 34	44-Balance Amount
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	30 30 30 30 30 34 35 35 32 38 30 30	Purse Remaining Value (From

				LINEPay)
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 43	DC- LINE Pay transaction ID
MESSAGE DATA – Field Data	LLLL	2	00 19	
MESSAGE DATA – Field Data	Data	19	32 30 31 38 31 30 30 33 30 30 30 33 35 34 31 30 32 34 30	Rabbit LINE Pay transaction ID
MESSAGE DATA – Field Data	Field separator	1	1C	
ETX	ETX	1	03	
LRC	LRC	1	00	Example value, Depend on data.

## 6.5 Rabbit Check Balance (Transaction code-58)

### 6.5.1 Field Definition

Request from POS to Reader

Reqd/Opt	Field	Length	Field Name	Comments
Mandatory	00	0	Null Type	No need to send any field data request. Just packing message data for correct format.

Response from Reader to POS

Reqd/Opt	Field	Length	Field Name	Comments
Mandatory	30	...19	Card Number	Card Number
Mandatory	R1	8	Rabbit Reader Id	
Mandatory	44	12	Balance Amount	
Mandatory	45	1	Amount-Balance Negative Indicator	Identify the balance amount is positive or negative. (0-Positive, 1-Negative)

### 6.5.2 Full Request Message

Example of request message.

02 00 23 36 30 30 30 30 30 30 30 30 30 30 31 30 35 38 30 30 30 1C 30 30 00 00 1C 03 1A



Section	Field	Byte	Example Value	Note
STX	STX	1	02	
LLL	LLLL	2	00 23	
MESSAGE DATA – Transport Header	Transport Header Type	2	36 30	
MESSAGE DATA – Transport Header	Transport Destination	4	30 30 30 30	
MESSAGE DATA – Transport Header	Transport Source	4	30 30 30 30	
MESSAGE DATA – Presentation Header	Format Version	1	31	
MESSAGE DATA – Presentation Header	Request-Response Indicator	1	30	Identify Request.
MESSAGE DATA – Presentation Header	Transaction Code	2	35 38	58-Rabbit Check Balance
MESSAGE DATA – Presentation Header	Response Code	2	30 30	
MESSAGE DATA – Presentation Header	More Indicator	1	30	
MESSAGE DATA – Presentation Header	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 30	00-Null Type.
MESSAGE DATA – Field Data	LLLL	2	00 00	
MESSAGE DATA – Field Data	Data	0	(NULL)	No value as it is check balance transaction.
MESSAGE DATA – Field Data	Field Separator	1	1C	
ETX	ETX	1	03	
LRC	LRC	1	1A	Example value, Depend on data.

## 6.5.3 Full Response Message

02 00 71 36 30 30 30 30 30 30 30 30 31 31 35 38 30 30 30 1C 33 30 00 12 30 38 38 31 32  
 33 30 31 39 30 35 31 1C 52 31 00 08 43 30 30 30 33 39 39 37 1C 34 34 00 12 30 30 30 30 30  
 30 31 33 30 30 30 30 1C 34 35 00 01 00 1C 03 74

Section	Field	Byte	Example Value	Note
STX	STX	1	02	
LLL	LLLL	2	00 71	Length of data.
MESSAGE DATA – Transport Header	Transport Header Type	2	36 30	
MESSAGE DATA – Transport Header	Transport Destination	4	30 30 30 30	
MESSAGE DATA – Transport Header	Transport Source	4	30 30 30 30	
MESSAGE DATA – Presentation Header	Format Version	1	31	
MESSAGE DATA – Presentation Header	Request-Response Indicator	1	31	Identify Response.
MESSAGE DATA – Presentation Header	Transaction Code	2	35 38	58-Rabbit Check Balance
MESSAGE DATA – Presentation Header	Response Code	2	30 30	Success
MESSAGE DATA – Presentation Header	More Indicator	1	30	
MESSAGE DATA – Presentation Header	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	33 30	30-Card Number/Order ID
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	30 38 38 31 32 33 30 31 39 30 35 31	Rabbit card id
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	52 31	R1-Rabbit Reader Id
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	43 30 30 30 33 39 39 37	Retail Reader Device ID
MESSAGE DATA – Field Data	Field separator	1	1C	

MESSAGE DATA – Field Data	Field Type	2	34 34	44-Balance Amount
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	30 30 30 30 30 30 31 33 30 30 30 30	Balance Amount 1300 Baht. Purse Remaining Value (From Card)
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	34 35	45-Balance Amount Negative Indicator
MESSAGE DATA – Field Data	LLLL	2	00 01	
MESSAGE DATA – Field Data	Data	2	00	00-Positive 01-Negative
MESSAGE DATA – Field Data	Field separator	1	1C	
ETX	ETX	1	03	
LRC	LRC	1	74	Example value, Depend on data.

## 6.6 Rabbit LINE Pay Check Balance (Transaction code-58)

### 6.6.1 Field Definition

Request from POS to Reader

Reqd/Opt	Field	Length	Field Name	Comments
Mandatory	00	0	Null Type	No need to send any field data request. Just packing message data for correct format.

Response from Reader to POS

Reqd/Opt	Field	Length	Field Name	Comments
Mandatory	D3	12	Ref no.	LINE Pay Ref no.
Mandatory	R1	8	Rabbit Reader Id	
Mandatory	44	12	Balance Amount	
Mandatory	45	1	Amount-Balance Negative Indicator	Identify the balance amount is positive or negative. (0-Positive, 1-Negative)

### 6.6.2 Full Request Message

Example of request message.

02 00 23 36 30 30 30 30 30 30 30 30 30 30 31 30 35 38 30 30 30 1C 30 30 00 00 1C 03 1A



Section	Field	Byte	Example Value	Note
STX	STX	1	02	
LLL	LLLL	2	00 23	
MESSAGE DATA – Transport Header	Transport Header Type	2	36 30	
MESSAGE DATA – Transport Header	Transport Destination	4	30 30 30 30	
MESSAGE DATA – Transport Header	Transport Source	4	30 30 30 30	
MESSAGE DATA – Presentation Header	Format Version	1	31	
MESSAGE DATA – Presentation Header	Request-Response Indicator	1	30	Identify Request.
MESSAGE DATA – Presentation Header	Transaction Code	2	35 38	58- Rabbit Check Balance
MESSAGE DATA – Presentation Header	Response Code	2	30 30	
MESSAGE DATA – Presentation Header	More Indicator	1	30	
MESSAGE DATA – Presentation Header	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 30	00-Null Type.
MESSAGE DATA – Field Data	LLLL	2	00 00	
MESSAGE DATA – Field Data	Data	0	(NULL)	No value as it is check balance transaction.
MESSAGE DATA – Field Data	Field Separator	1	1C	
ETX	ETX	1	03	
LRC	LRC	1	1A	Example value, Depend on data.

### 6.6.3 Full Response Message

02 00 71 36 30 30 30 30 30 30 30 30 31 31 35 38 30 30 30 1C 44 33 00 12 30 30 31 30 30  
 37 37 32 33 31 37 32 1C 52 31 00 08 43 30 30 30 33 39 39 37 1C 34 34 00 12 30 30 30 30 30  
 30 31 33 30 30 30 30 1C 34 35 00 01 00 1C 03 74

Section	Field	Byte	Example Value	Note
STX	STX	1	02	
LLL	LLLL	2	00 71	Length of data.
MESSAGE DATA – Transport Header	Transport Header Type	2	36 30	
MESSAGE DATA – Transport Header	Transport Destination	4	30 30 30 30	
MESSAGE DATA – Transport Header	Transport Source	4	30 30 30 30	
MESSAGE DATA – Presentation Header	Format Version	1	31	
MESSAGE DATA – Presentation Header	Request-Response Indicator	1	31	Identify Response.
MESSAGE DATA – Presentation Header	Transaction Code	2	35 38	58-Rabbit Check Balance
MESSAGE DATA – Presentation Header	Response Code	2	30 30	Success
MESSAGE DATA – Presentation Header	More Indicator	1	30	
MESSAGE DATA – Presentation Header	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 33	D3 – Ref no.
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	30 30 31 30 30 37 37 32 33 31 37 32	LINE Pay Ref no.
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	52 31	R1-Rabbit Reader Id
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	43 30 30 30 33 39 39 37	Retail Reader Device ID

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MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	34 34	44-Balance Amount
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	30 30 30 30 30 30 31 33 30 30 30 30	Balance Amount 1300 Baht. Purse Remaining Value (From LINE Pay)
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	34 35	45-Balance Amount Negative Indicator
MESSAGE DATA – Field Data	LLLL	2	00 01	
MESSAGE DATA – Field Data	Data	2	00	00-Positive 01-Negative
MESSAGE DATA – Field Data	Field separator	1	1C	
ETX	ETX	1	03	
LRC	LRC	1	74	Example value, Depend on data.

## 6.7 New Rabbit Refund (Transaction code-60)

### 6.7.1 Field Definition

Request from POS to Reader

Reqd/Opt	Field	Length	Field Name	Comments
Mandatory	30	... 19	Card Number/ Order ID	Currently, just support only Rabbit. Rabbit card length is 12.
Mandatory	40	12	Amount, Transaction	

Response from Reader to POS

Reqd/Opt	Field	Length	Field Name	Comments
Mandatory	02	40	Response Text from host	Text will be 40 characters long organized as 2 lines of 20 characters
Mandatory	D0	69	Merchant Name and Address	69 characters, organized as 3 lines of 23 characters (return space)
Mandatory	03	8	Transaction Date	YYYYMMDD
Mandatory	04	6	Transaction Time	HHMMSS
Mandatory	01	6	Approval Code	6 digits (return space)
Mandatory	65	6	Invoice Number	Batch ID (From Retail Reader)
Mandatory	16	8	Terminal Identification	Batch ID (From Retail Reader)
Mandatory	D1	15	Merchant Number (MID)	15 digits (return space)
Mandatory	D2	10	Card Issuer Name	Name of card issuer E.g. Rabbit card = "RABBIT", Rabbit LINE Pay = "LINEPAY"
Mandatory	30	...19	Card Number, Order ID	Up to 19 digits. Format will be 123456XXXXXX1234
Mandatory	31	4	Expiry Date	4 digits
Mandatory	50	6	Batch Number	6 digits (return space)
Mandatory	D3	12	Retrieval Reference	12 digits (return space)
Mandatory	D4	2	Card Issuer ID	2 digits (return space)
Mandatory	R1	8	Rabbit Reader Id	Retail Reader Device ID
Mandatory	R2	6	Rabbit Trace	Batch ID (From Retail Reader)
Mandatory	44	12	Balance Amount	Purse Remaining Value



### 6.7.2 Full Request Message

Example of request message.

02 00 52 36 30 30 30 30 30 30 30 30 30 31 30 36 30 30 30 30 1C 33 30 00 12 30 38 38 31 32  
33 30 31 39 30 35 31 1C 34 30 00 12 30 30 30 30 30 30 30 30 31 30 30 30 30 1C 03 76

Section	Field	Byte	Example Value	Note
STX	STX	1	02	
LLL	LLLL	2	00 52	
MESSAGE DATA – Transport Header	Transport Header Type	2	36 30	
MESSAGE DATA – Transport Header	Transport Destination	4	30 30 30 30	
MESSAGE DATA – Transport Header	Transport Source	4	30 30 30 30	
MESSAGE DATA – Presentation Header	Format Version	1	31	
MESSAGE DATA – Presentation Header	Request-Response Indicator	1	30	Identify the request.
MESSAGE DATA – Presentation Header	Transaction Code	2	36 30	60-New Rabbit Refund
MESSAGE DATA – Presentation Header	Response Code	2	30 30	
MESSAGE DATA – Presentation Header	More Indicator	1	30	
MESSAGE DATA – Presentation Header	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	33 30	30-Card Number
MESSAGE DATA – Field Data	LLLL	2	00 12	

MESSAGE DATA – Field Data	Data	12	30 38 38 31 32 33 30 31 39 30 35 31	Rabbit card number
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	34 30	40-Amount
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	6	30 30 30 30 30 30 30 31 30 30 30 30	Amount value, depend on how much amount.
MESSAGE DATA – Field Data	Field Separator	1	1C	
ETX	ETX	1	03	
LRC	LRC	1	76	Example value, Depend on data.

02 03 33 36 30 30 30 30 30 30 30 30 31 31 **36 30** 30 30 30 **1C** 30 32 00 40 41 50 50 52 4F 56  
41 4C 20  
20 20 20 1C 44 30 00 69 20  
20  
20  
20  
00 06 31 30 31 34 34 33 1C 30 31 00 06 30 30 30 30 30 30 30 1C 36 35 00 06 30 30 30 30 32 30 1C  
31 36 00 08 30 30 30 30 30 30 32 30 1C 44 31 00 15 20  
20 1C 44 32 00 10 52 41 42 42 49 54 20 20 20 20 1C 33 30 00 12 30 38 38 31 32 33 30 31 39 30  
35 31 1C 33 31 00 04 58 58 58 58 1C 35 30 00 06 20 20 20 20 20 20 20 1C 44 33 00 12 20 20 20 20 20  
20 20 20 20 20 20 20 20 20 1C 44 34 00 02 20 20 1C 52 31 00 08 43 30 30 30 33 39 39 37 **1C** 52 32  
00 08 30 30 30 30 30 30 32 30 **1C** 34 34 00 12 30 30 30 30 30 30 31 32 30 30 30 30 **1C** 03 30

Section	Field	Byte	Example Value	Note
STX	STX	1	02	
LLL	LLLL	2	03 33	Length of data.
MESSAGE DATA – Transport Header	Transport Header Type	2	36 30	
MESSAGE DATA – Transport Header	Transport Destination	4	30 30 30 30	
MESSAGE DATA – Transport Header	Transport Source	4	30 30 30 30	
MESSAGE DATA – Presentation Header	Format Version	1	31	
MESSAGE DATA – Presentation Header	Request-Response Indicator	1	31	Identify Response.
MESSAGE DATA – Presentation Header	Transaction Code	2	36 30	60-New Rabbit Refund
MESSAGE DATA – Presentation Header	Response Code	2	30 30	Success
MESSAGE DATA – Presentation Header	More Indicator	1	30	
MESSAGE DATA – Presentation Header	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 32	02-Response Text
MESSAGE DATA – Field Data	LLLL	2	00 40	
MESSAGE DATA – Field Data	Data	40	41 50 50 52 4F 56 41 4C 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	Text from host “APPROVAL”

			20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 30	D0-Merchant name and Address
MESSAGE DATA – Field Data	LLLL	2	00 69	
MESSAGE DATA – Field Data	Merchant Name in slip L1	23	20 20	
MESSAGE DATA – Field Data	Address in slip L2	23	20 20	
MESSAGE DATA – Field Data	Address in slip L3	23	20 20	
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 33	03-Transaction Date
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	32 30 31 38 30 38 32 31	YYYYMMDD
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 34	04-Transaction Time
MESSAGE DATA – Field Data	LLLL	2	00 06	
MESSAGE DATA – Field Data	Data	6	31 30 31 34 34 33	HHMMSS
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 31	01-Approval Code
MESSAGE DATA – Field Data	LLLL	2	00 06	
MESSAGE DATA – Field Data	Data	6	30 30 30 30 30 30	
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	36 35	65-Trace/Invoice Number
MESSAGE DATA –	LLLL	2	00 06	

Field Data				
MESSAGE DATA – Field Data	Data	6	30 30 30 30 32 30	Batch ID (From Retail Reader)
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	31 36	16-Terminal Id
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	30 30 30 30 30 30 32 30	Batch ID (From Retail Reader)
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 31	D1-Merchant Id
MESSAGE DATA – Field Data	LLLL	2	00 15	
MESSAGE DATA – Field Data	Data	15	20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 32	D2-Card Issuer Name
MESSAGE DATA – Field Data	LLLL	2	00 10	
MESSAGE DATA – Field Data	Data	10	52 41 42 42 49 54 20 20 20 20	“RABBIT”
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	33 30	30-Primary Account/Card Number
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	30 38 38 31 32 33 30 31 39 30 35 31	Rabbit card id
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	33 31	31-Expired Date
MESSAGE DATA – Field Data	LLLL	2	00 04	
MESSAGE DATA – Field Data	Data	4	58 58 58 58	XXXX
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	35 30	50-Batch Number

MESSAGE DATA – Field Data	LLLL	2	00 06	
MESSAGE DATA – Field Data	Data	6	20 20 20 20 20 20	
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 33	D3-Reference Number
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	20 20 20 20 20 20 20 20 20 20 20 20	
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 34	D4-Card Issuer Id
MESSAGE DATA – Field Data	LLLL	2	00 02	
MESSAGE DATA – Field Data	Data	2	20 20	
MESSAGE DATA – Field Data	Data separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	52 31	R1-Rabbit Reader Id
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	43 30 30 30 33 39 39 37	Retail Reader Device ID
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	52 32	R2-Rabbit Trace
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	30 30 30 30 30 30 30 32	Batch ID (From Retail Reader)
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	34 34	44-Balance Amount
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	30 30 30 30 30 30 31 32 30 30 30 30	Purse Remaining Value (From Card)
MESSAGE DATA – Field Data	Field separator	1	1C	
ETX	ETX	1	03	
LRC	LRC	1	30	Example value, Depend on data.

## 6.8 New Rabbit LINE Pay Refund (Transaction code-60)

### 6.8.1 Field Definition

Request from POS to Reader

Reqd/Opt	Field	Length	Field Name	Comments
Mandatory	30	... 19	Primary Account Number/Order ID	Order ID
Mandatory	40	12	Amount, Transaction	

Response from Reader to POS

Reqd/Opt	Field	Length	Field Name	Comments
Mandatory	02	40	Response Text from host	Text will be 40 characters long organized as 2 lines of 20 characters
Mandatory	D0	69	Merchant Name and Address	69 characters, organized as 3 lines of 23 characters (return space)
Mandatory	03	8	Transaction Date	YYYYMMDD
Mandatory	04	6	Transaction Time	HHMMSS
Mandatory	01	6	Approval Code	6 digits (return space)
Mandatory	65	6	Invoice Number	Batch ID (From Retail Reader)
Mandatory	16	8	Terminal Identification	Batch ID (From Retail Reader)
Mandatory	D1	15	Merchant Number (MID)	15 digits (return space)
Mandatory	D2	10	Card Issuer Name	Name of card issuer E.g. Rabbit card = "RABBIT", Rabbit LINE Pay = "LINEPAY"
Mandatory	30	...19	Card Number, Order ID	Up to 19 digits. Format will be 123456XXXXXX1234
Mandatory	31	4	Expiry Date	4 digits
Mandatory	50	6	Batch Number	6 digits (return space)
Mandatory	D3	12	Retrieval Reference	LINE Pay Ref no.
Mandatory	D4	2	Card Issuer ID	2 digits (return space)
Mandatory	R1	8	Rabbit Reader Id	Retail Reader Device ID
Mandatory	R2	6	Rabbit Trace	Batch ID (From Retail Reader)
Mandatory	44	12	Balance Amount	Purse Remaining Value

## 6.8.2 Full Request Message

Example of request message.

02 00 52 36 30 30 30 30 30 30 30 30 30 31 30 36 30 30 30 30 1C 33 30 00 12 30 38 31 35 33  
34 38 36 32 34 37 36 1C 34 30 00 12 30 30 30 30 30 30 30 30 31 30 30 30 30 1C 03 78

Section	Field	Byte	Example Value	Note
STX	STX	1	02	
LLL	LLLL	2	00 52	
MESSAGE DATA – Transport Header	Transport Header Type	2	36 30	
MESSAGE DATA – Transport Header	Transport Destination	4	30 30 30 30	
MESSAGE DATA – Transport Header	Transport Source	4	30 30 30 30	
MESSAGE DATA – Presentation Header	Format Version	1	31	
MESSAGE DATA – Presentation Header	Request-Response Indicator	1	30	Identify the request.
MESSAGE DATA – Presentation Header	Transaction Code	2	36 30	60-New Rabbit Refund
MESSAGE DATA – Presentation Header	Response Code	2	30 30	
MESSAGE DATA – Presentation Header	More Indicator	1	30	
MESSAGE DATA – Presentation Header	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	33 30	30- Order ID
MESSAGE DATA – Field Data	LLLL	2	00 12	



MESSAGE DATA – Field Data	Data	12	30 38 31 35 33 34 38 36 32 34 37 36	Order ID
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	34 30	40-Amount
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	6	30 30 30 30 30 30 30 31 30 30 30 30	Amount value, depend on how much amount.
MESSAGE DATA – Field Data	Field Separator	1	1C	
ETX	ETX	1	03	
LRC	LRC	1	78	Example value, Depend on data.

### 6.8.3 Full Response Message

02 03 33 36 30 30 30 30 30 30 30 30 30 30 31 31 36 30 30 30 30 1C 30 32 00 40 41 50 50 52 4F 56  
 41 4C 20  
 20 20 20 1C 44 30 00 69 20  
 20  
 20  
 20  
 00 06 31 34 34 33 32 37 1C 30 31 00 06 30 30 30 30 30 30 1C 36 35 00 06 30 30 30 30 30 34 1C  
 31 36 00 08 30 30 30 30 30 30 30 34 1C 44 31 00 15 20 20 20 20 20 20 20 20 20 20 20 20 20  
 20 1C 44 32 00 10 4C 49 4E 45 50 41 59 20 20 20 1C 33 30 00 12 30 38 31 35 33 34 38 36 32 34  
 37 36 1C 33 31 00 04 58 58 58 58 1C 35 30 00 06 20 20 20 20 20 20 1C 44 33 00 12 30 30 31 30  
 30 31 39 35 31 34 32 33 1C 44 34 00 02 20 20 1C 52 31 00 08 43 30 30 30 33 39 39 37 1C 52 32  
 00 08 30 30 30 30 30 30 30 34 1C 34 34 00 12 30 30 30 30 30 32 34 34 35 37 30 30 1C 03 5F

Section	Field	Byte	Example Value	Note
STX	STX	1	02	
LLL	LLLL	2	03 33	Length of data.
MESSAGE DATA – Transport Header	Transport Header Type	2	36 30	
MESSAGE DATA – Transport Header	Transport Destination	4	30 30 30 30	
MESSAGE DATA – Transport Header	Transport Source	4	30 30 30 30	
MESSAGE DATA – Presentation Header	Format Version	1	31	
MESSAGE DATA – Presentation Header	Request-Response Indicator	1	31	Identify Response.
MESSAGE DATA – Presentation Header	Transaction Code	2	36 30	60-New Rabbit Refund
MESSAGE DATA – Presentation Header	Response Code	2	30 30	Success
MESSAGE DATA – Presentation Header	More Indicator	1	30	
MESSAGE DATA – Presentation Header	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 32	02-Response Text
MESSAGE DATA – Field Data	LLLL	2	00 40	
MESSAGE DATA – Field Data	Data	40	41 50 50 52 4F 56 41 4C 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	Text from host “APPROVAL”

			20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 30	D0-Merchant name and Address
MESSAGE DATA – Field Data	LLLL	2	00 69	
MESSAGE DATA – Field Data	Merchant Name in slip L1	23	20 20	
MESSAGE DATA – Field Data	Address in slip L2	23	20 20	
MESSAGE DATA – Field Data	Address in slip L3	23	20 20	
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 33	03-Transaction Date
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	32 30 31 38 30 38 32 31	YYYYMMDD
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 34	04-Transaction Time
MESSAGE DATA – Field Data	LLLL	2	00 06	
MESSAGE DATA – Field Data	Data	6	31 34 34 33 32 37	HHMMSS
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 31	01-Approval Code
MESSAGE DATA – Field Data	LLLL	2	00 06	
MESSAGE DATA – Field Data	Data	6	30 30 30 30 30 30	
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	36 35	65-Trace/Invoice Number
MESSAGE DATA –	LLLL	2	00 06	

Field Data				
MESSAGE DATA – Field Data	Data	6	30 30 30 30 30 34	Batch ID (From Retail Reader)
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	31 36	16-Terminal Id
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	30 30 30 30 30 30 30 34	Batch ID (From Retail Reader)
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 31	D1-Merchant Id
MESSAGE DATA – Field Data	LLLL	2	00 15	
MESSAGE DATA – Field Data	Data	15	20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 32	D2-Card Issuer Name
MESSAGE DATA – Field Data	LLLL	2	00 10	
MESSAGE DATA – Field Data	Data	10	4C 49 4E 45 50 41 59 20 20 20	“LINEPAY”
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	33 30	30-Primary Account/Card Number
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	30 38 31 35 33 34 38 36 32 34 37 36	Order ID
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	33 31	31-Expired Date
MESSAGE DATA – Field Data	LLLL	2	00 04	
MESSAGE DATA – Field Data	Data	4	58 58 58 58	XXXX
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	35 30	50-Batch Number

MESSAGE DATA – Field Data	LLLL	2	00 06	
MESSAGE DATA – Field Data	Data	6	20 20 20 20 20 20	
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 33	D3-Reference Number
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	30 30 31 30 30 31 39 35 31 34 32 33	
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 34	D4-Card Issuer Id
MESSAGE DATA – Field Data	LLLL	2	00 02	
MESSAGE DATA – Field Data	Data	2	20 20	
MESSAGE DATA – Field Data	Data separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	52 31	R1-Rabbit Reader Id
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	43 30 30 30 33 39 39 37	Retail Reader Device ID
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	52 32	R2-Rabbit Trace
MESSAGE DATA – Field Data	LLLL	2	00 08	
MESSAGE DATA – Field Data	Data	8	30 30 30 30 30 30 30 34	Batch ID (From Retail Reader)
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	34 34	44-Balance Amount
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	30 30 30 30 30 32 34 34 35 37 30 30	Purse Remaining Value (From LINE Pay)
MESSAGE DATA – Field Data	Field separator	1	1C	
ETX	ETX	1	03	
LRC	LRC	1	5F	Example value,



				Depend on data.
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## 6.9 Rabbit Inquiry (Last Transaction Log) [Transaction code-62]

### 6.9.1 Field Definition

Request from POS to Reader

Reqd/Opt	Field	Length	Field Name	Comments
Mandatory	00	0	Null Type	No need to send any field data request. Just packing message data for correct format.

Response from Reader to POS

Reqd/Opt	Field	Length	Field Name	Comments
Mandatory	30	12	Card Number/ Order ID	
Mandatory	40	12	Amount-Transaction	
Mandatory	05	14	Transaction Date Time	YYYYMMDDHHMMSS
Mandatory	R3	12	Rabbit Transaction Type	TOPUP, PAYMENT, TOPUP CANCEL, VOID
Mandatory	R4	2	Rabbit Last Transaction Code	SUCCESS = 30 30, FAIL = 30 31
Mandatory	02	40	Response Text	
Mandatory	44	12	Amount-Balance	

### 6.9.2 Full Request Message

02 00 23 36 30 30 30 30 30 30 30 30 30 31 30 36 32 30 30 30 1C 30 30 00 00 1C 03 13

Section	Field	Byte	Example Value	Note
STX	STX	1	02	
LLL	LLLL	2	00 23	
MESSAGE DATA – Transport Header	Transport Header Type	2	36 30	
MESSAGE DATA – Transport Header	Transport Destination	4	30 30 30 30	
MESSAGE DATA – Transport Header	Transport Source	4	30 30 30 30	
MESSAGE DATA – Presentation Header	Format Version	1	31	
MESSAGE DATA – Presentation Header	Request-Response Indicator	1	30	Identify Request.
MESSAGE DATA – Presentation Header	Transaction Code	2	36 32	62-Rabbit Inquiry Last Transaction Log
MESSAGE DATA – Presentation Header	Response Code	2	30 30	
MESSAGE DATA – Presentation Header	More Indicator	1	30	
MESSAGE DATA – Presentation Header	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 30	00-Null Type.
MESSAGE DATA – Field Data	LLLL	2	00 00	
MESSAGE DATA – Field Data	Data	0	(NULL)	No value as it is check balance transaction.
MESSAGE DATA – Field Data	Field Separator	1	1C	
ETX	ETX	1	03	
LRC	LRC	1	13	Example value, Depend on data.



## 6.9.3 Full Response Message

02 01 55 36 30 30 30 30 30 30 30 30 30 31 31 36 32 30 30 30 1C 30 32 00 40 41 50 50 52 4F  
 56 41 4C 20  
 20 20 20 20 20 1C 30 35 00 14 32 30 31 38 30 39 30 37 31 36 33 31 35 36 1C 52 33 00 12 54  
 4F 50 55 50 20 20 20 20 20 20 20 1C 52 34 00 02 30 30 1C 33 30 00 12 30 38 38 31 32 33 30  
 31 34 32 33 38 1C 34 30 00 12 30 30 30 30 30 30 30 31 30 30 30 30 1C 34 34 00 12 30 30 30  
 30 30 30 31 36 38 37 39 38 1C 03 5E

Section	Field	Byte	Example Value	Note
STX	STX	1	02	
LLL	LLLL	2	01 55	Length of data.
MESSAGE DATA – Transport Header	Transport Header Type	2	36 30	
MESSAGE DATA – Transport Header	Transport Destination	4	30 30 30 30	
MESSAGE DATA – Transport Header	Transport Source	4	30 30 30 30	
MESSAGE DATA – Presentation Header	Format Version	1	31	
MESSAGE DATA – Presentation Header	Request-Response Indicator	1	31	Identify Response.
MESSAGE DATA – Presentation Header	Transaction Code	2	36 32	62-Rabbit Inquiry Last Transaction Log
MESSAGE DATA – Presentation Header	Response Code	2	30 30	Success
MESSAGE DATA – Presentation Header	More Indicator	1	30	
MESSAGE DATA – Presentation Header	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 32	02-Response Text
MESSAGE DATA – Field Data	LLLL	2	00 40	
MESSAGE DATA – Field Data	Data	40	41 50 50 52 4F 56 41 4C 20	Text from host “APPROVAL”
MESSAGE DATA – Field Data	Field separator	1	1C	

MESSAGE DATA – Field Data	Field Type	2	30 35	05-Transaction Date Time
MESSAGE DATA – Field Data	LLLL	2	00 14	
MESSAGE DATA – Field Data	Data	14	32 30 31 38 30 39 30 37 31 36 33 31 35 36	YYYYMMDDHHMMSS
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	52 33	R3-Transaction Type
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	54 4F 50 55 50 20 20 20 20 20 20 20	TOPUP
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	52 34	R4-Last Transaction Code
MESSAGE DATA – Field Data	LLLL	2	00 02	
MESSAGE DATA – Field Data	Data	2	30 30	Success
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	33 30	30-Card Number/ Order ID/OTK
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	30 38 38 31 32 33 30 31 34 32 33 38	One-Time Key
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	34 30	40- Amount- Transaction
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	30 30 30 30 30 30 30 31 30 30 30 30	Transaction Amount
MESSAGE DATA – Field Data	Field separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	34 34	44-Amount-Balance
MESSAGE DATA – Field Data	LLLL	2	00 12	
MESSAGE DATA – Field Data	Data	12	30 30 30 30 30 30 31 36 38 37	Balance Amount



## Bangkok Smartcard System (BSS)

			39 38	
MESSAGE DATA – Field Data	Field separator	1	1C	
ETX	ETX	1	03	
LRC	LRC	1	5E	Example value, Depend on data.

CONFIDENTIAL

## 6.10 Response Cancel

### 6.10.1 Field Definition

Response from Reader to POS

Reqd/Opt	Field	Length	Field Name	Comments
Mandatory	02	40	Response Text from Reader	Text will be 40 characters long organized as 2 lines of 20 characters
Mandatory	D0	69	Merchant Name and Address	69 characters, organized as 3 lines of 23 characters (return space)
Mandatory	03	8	Transaction Date	YYYYMMDD
Mandatory	04	6	Transaction Time	HHMMSS

### 6.10.2 Example of cancel sale by user cancel/card not detect.

Section	Field	Byte	Example Value	Note
STX	STX	1	02	
LLL	LLLL	2	01 59	Length of data.
MESSAGE DATA – Transport Header	Transport Header Type	2	36 30	
MESSAGE DATA – Transport Header	Transport Destination	4	30 30 30 30	
MESSAGE DATA – Transport Header	Transport Source	4	30 30 30 30	
MESSAGE DATA – Presentation Header	Format Version	1	31	
MESSAGE DATA – Presentation Header	Request-Response Indicator	1	31	Identify the response.
MESSAGE DATA – Presentation Header	Transaction Code	2	32 30	
MESSAGE DATA – Presentation Header	Response Code	2	52 42	RB-Error from Rabbit.
MESSAGE DATA – Presentation Header	More Indicator	1	30	

MESSAGE DATA – Presentation Header	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 32	02-Response Text
MESSAGE DATA – Field Data	LLLL	2	00 40	
MESSAGE DATA – Field Data	Data	40	30 32 2D 52 41 42 42 49 54 20 4E 4F 54 20 54 41 50 20 43 41 52 44 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	02-RABBIT NOT TAP CARD
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	44 30	D0-Merchant Name and Address
MESSAGE DATA – Field Data	LLLL	2	00 69	
MESSAGE DATA – Field Data	Merchant Name in slip L1	23	20 20	
MESSAGE DATA – Field Data	Address in slip L2	23	20 20	
MESSAGE DATA – Field Data	Address in slip L3	23	20 20	
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 33	03-Transaction Date
MESSAGE DATA – Field Data	LLLL	2	00 08	



MESSAGE DATA – Field Data	Data	8	32 30 31 36 30 36 32 30	YYYYMMDD
MESSAGE DATA – Field Data	Field Separator	1	1C	
MESSAGE DATA – Field Data	Field Type	2	30 34	04-Transaction Time
MESSAGE DATA – Field Data	LLLL	2	00 06	
MESSAGE DATA – Field Data	Data	6	31 31 33 30 33 38	HHMMSS
MESSAGE DATA – Field Data	Field Separator	1	1C	
ETX	ETX	1	03	
LRC	LRC	1	F0	Example value, Depend on data.

#### 6.10.1 Example of cancel sale by host reject.

Section		Field	Byte	Example Value	Note
STX		STX	1	02	
LLL		LLLL	2	01 59	Length of data.
MESSAGE DATA – Transport Header		Transport Header Type	2	36 30	
MESSAGE DATA – Transport Header		Transport Destination	4	30 30 30 30	
MESSAGE DATA – Transport Header		Transport Source	4	30 30 30 30	
MESSAGE DATA – Presentation Header		Format Version	1	31	
MESSAGE DATA – Presentation Header		Request-Response Indicator	1	31	Identify the response.



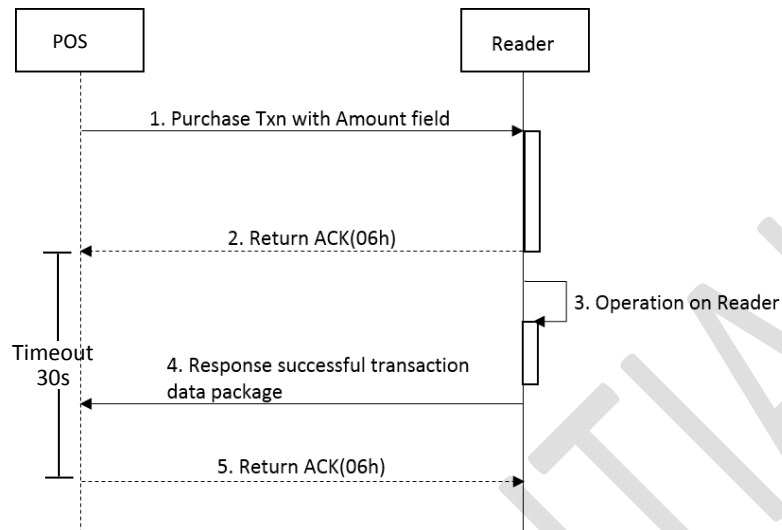
MESSAGE DATA – Presentation Header		Transaction Code	2	32 30	
MESSAGE DATA – Presentation Header		Response Code	2	30 35	05-Reject by Host.
MESSAGE DATA – Presentation Header		More Indicator	1	30	
MESSAGE DATA – Presentation Header		Field Separator	1	1C	
MESSAGE DATA – Field Data		Field Type	2	30 32	02-Response Text
MESSAGE DATA – Field Data		LLLL	2	00 40	
MESSAGE DATA – Field Data		Data	40	72 65 6A 65 63 74 20	“REJECT”
MESSAGE DATA – Field Data		Field Separator	1	1C	
MESSAGE DATA – Field Data		Field Type	2	44 30	D0-Merchant Name and Address
MESSAGE DATA – Field Data		LLLL	2	00 69	
MESSAGE DATA – Field Data		Merchant Name in slip L1	23	20 20	
MESSAGE DATA – Field Data		Address in slip L2	23	20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	

				20 20 20	
MESSAGE DATA – Field Data		Address in slip L3	23	20 20	
MESSAGE DATA – Field Data		Field Separator	1	1C	
MESSAGE DATA – Field Data		Field Type	2	30 33	03-Transaction Date
MESSAGE DATA – Field Data		LLLL	2	00 08	
MESSAGE DATA – Field Data		Data	8	32 30 31 36 30 36 32 30	YYYYMMDD
MESSAGE DATA – Field Data		Field Separator	1	1C	
MESSAGE DATA – Field Data		Field Type	2	30 34	04-Transaction Time
MESSAGE DATA – Field Data		LLLL	2	00 06	
MESSAGE DATA – Field Data		Data	6	31 31 33 30 33 38	HHMMSS
MESSAGE DATA – Field Data		Field Separator	1	1C	
ETX		ETX	1	03	
LRC		LRC	1	F0	Example value, Depend on data.

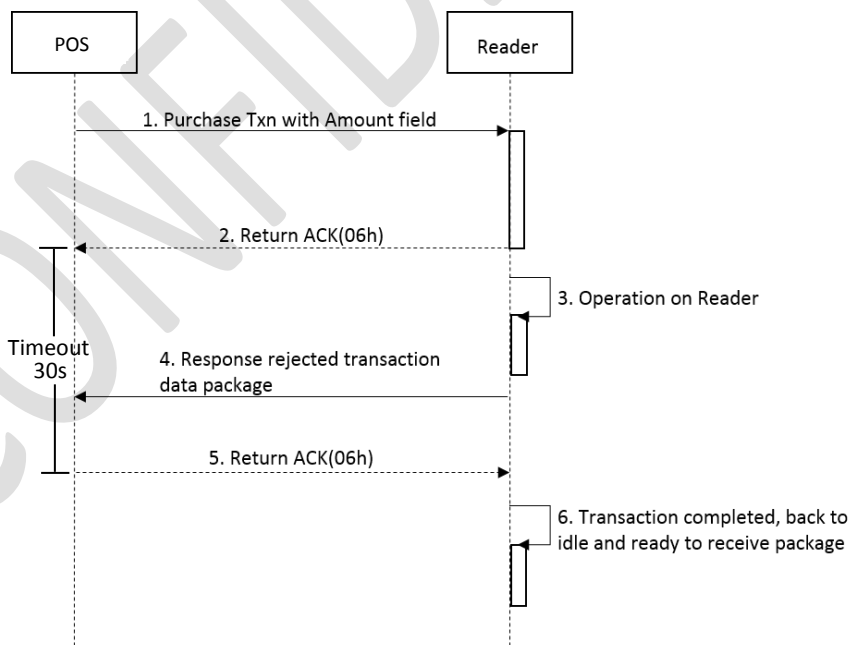


## 7. Transaction Flow

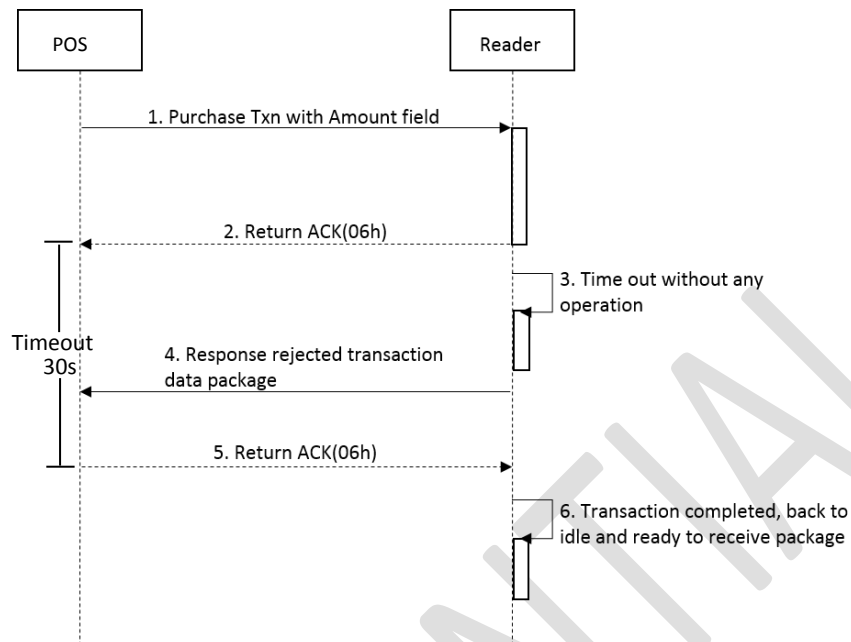
### 7.1 Purchase Transaction (Complete Transaction)



### 7.2 Purchase Transaction (Not Approved Transaction)



### 7.3 Purchase Transaction (User Cancel or Time out)



### 7.4 Purchase Transaction (Reader not ready or not connected)

