



## VeriTrans4G Interface Details

### ~ Credit Card Payment ~

Ver. 1.0.1 beta [April 2017~](#)

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# Chapter 1 About this Document

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## 1-1 Contents of this Guide

This guide is intended for developers integrating their website with VeriTrans 4G using Merchant Development Kit (MDK) offered by VeriTrans Inc. It also describes the interface details used in VeriTrans4G Credit Card Payments.

For more information about VeriTrans4G, please refer to the "VeriTrans4G Development Guide". Please refer to the separately provided interface details for each payment service.

## 1-2 Copyright and Contact Details

[Copyright] VeriTrans Inc. holds the copyright for this document.  
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## 1-3 Revision History

2017/02 : Released Ver1.0.0

- \* The following are the updates from "VeriTrans3G Interface Details ~ Credit Card Payment ~" Ver 2.0.2.
  - Added "token" in 2.2.1 Request Message: CardAuthorizeRequestDto".
  - Added description for "connectedCenterId" "resReturnReferenceNumber" "resActionCode" in "2.2.2 Response Message: CardAuthorizeResponseDto".
  - Added description for "connectedCenterId" "resReturnReferenceNumber" "resActionCode" in 2.3.2 Response Message: CardReAuthorizeResponseDto".
  - Added description for "connectedCenterId" "resReturnReferenceNumber" "resActionCode" in "2.3.4 Response Message: CardCancelResponseDto".
  - Corrected incorrect setting value in "2.6.1 Card Transaction type: Authorize → Cancel"

2017/04 : Released Ver1.0.1

- Corrected description of "token" in "2.2.1 Request Message: CardAuthorizeRequestDto" "2.3.1 Request Message: CardReAuthorizeRequestDto" and added description related to card information storage in description of "cardNumber" "cardExpire" and "securityCode".
- Changed description of "3-2 Credit Card Payment - Precautions" by dividing it into following two sections:
  - 3-2 Credit Card Payment - Precautions related to Capture
  - 3-3 Credit Card Payment - Precautions related to Cancel (Void and Return)

# Chapter 2 Interface Details ~ Credit Card Payment ~

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This chapter provides an explanation about the message (Dto) used in each payment. The fields given in the following table can be used by the merchants.

**Though each message (Dto) may have fields that are not given in the following table, merchants cannot use such fields.**

## 2-1 Common

- The contents of the "Settings" column are as follows.

Request Message ... Mandatory field: ○ Optional field: △ Settings disabled: X Other conditions: \*, \*n (Conditions are given in the description column or outside the column)

Response Message ... Always returned: ○ Returned only when processing is successful: △ Not returned: X Other conditions: \*

- About orderId (order ID)

Merchant should assign a (unique) number randomly. The number needs to be assigned for each order. Assign a (unique) ID that is different from other order IDs. The order ID must be unique across other payment services as well.

The order ID used in the test order cannot be re-used in the live order.

In the order ID, "-" (hyphen), and "\_" (underscore) can also be used besides the single byte alphanumeric characters.

- About response message

The response message also contains the fields (parameters) that are not given in this document. Normally, merchants need not be aware of such fields.

### Supplement: Subscription Service

Following document contains the interface details for using the subscription service.

"Interface Details ~ Subscription Service ~"

When using the subscription service, send payment request after setting the fields of request message given in this document and fields for the subscription service. Please note that the fields for the subscription service also get added in the response message.

## 2-2 Credit Card Payment Authorization

### 2.2.1 Request Message: CardAuthorizeRequestDto

Request Message: CardAuthorizeRequestDto					
Field Name	Item Name	Format and Limitations	Description		Settings
orderId	Order ID	Single byte alphanumeric characters; 100 characters or less	Please refer to the "About orderID (order ID)" described in "2-1 Common".		○
amount	Payment amount	Single byte numbers; 8 digits or less	1 to 99,999,999.		○
token	Token	Single byte alphanumeric characters and symbols; 36 characters	This is a token value used to identify credit card information issued by token server. Please refer to the "MDK Token Development Guide" for more details.		△
cardNumber	Card number	Single byte numbers; 16 digits or less	(Important) Please do not use this parameter to comply with no electronic storage or transmission of any cardholder data. Numbers only, or the number can be specified with hyphen (it should be 19 digits or less when hyphen is included).		△
cardExpire	Card expiry	Single byte alphanumeric characters; 5 characters	(Important) Please do not use this parameter to comply with no electronic storage or transmission of any cardholder data. MM/YY (Month + "/" + Year) format (For example: "08/18").		△
cardOptionType	Card option type	Please refer to the description in the right column.	With 3-D Secure	This is used when an authentication result has already been obtained using 3-D Secure service offered by another company. "mpi" (Specify 3-D Secure result).	△
			Without 3-D Secure	[Unused]	✘
jpo	Payment type	Single byte alphanumeric characters; 83 characters or less Please refer to the description in the right column.	"10" (lump-sum payment). "21" (lump-sum bonus). "61Cxx" (payment in installments; specify number of installments in xx.). "80" (revolving payment). * If not specified, default is "10" (lump-sum payment). * Available payment types are different for facilitator contract and aggregator contract. Please refer to "3-1 Credit Card Payment - Specifying Payment Type Information" for more details.		△
withCapture	Capture flag	Please refer to the description in the right column.	"true": Authorization and Capture "false": Authorization only. * If not specified, "false" is set as a default value.		△

Request Message: CardAuthorizeRequestDto					
Field Name	Item Name	Format and Limitations		Description	Settings
securityCode	Security code	Single byte numbers; 3 digits or 4 digits		Security code <b>(Important) Please do not use this parameter to comply with no electronic storage or transmission of any cardholder data.</b>	△
<b>The following fields are used when sending 3-D Secure authentication result.</b>					
dddMessageVersion	3-D Secure message version	Single byte alphanumeric characters; 10 characters or 0 characters	With 3-D Secure	Message Version Number (For example: "1.0.2"). * This field can be specified when "mpi (Specify 3-D Secure result)" is specified in "cardOptionType". Please refer to the "3-D Secure Services Supplementary Document" for more details.	△
			Without 3-D Secure	[Unused]	X
dddTransactionId	3-D Secure transaction ID	Single byte alphanumeric characters; "+", "-", "="; 28 characters or 0 characters	With 3-D Secure	Transaction Identifier(XID) Specify the value obtained after encoding 20 digits binary value into 28 alphanumeric characters with Base64. * This field can be specified when "mpi (Specify 3-D Secure result)" is specified in "cardOptionType". Please refer to the "3-D Secure Services Supplementary Document" for more details.	△
			Without 3-D Secure	[Unused]	X
dddTransactionStatus	3-D Secure transaction status	Single byte alphabetic character; 1 character Please refer to the description in the right column.	With 3-D Secure	3-D Secure transaction status "Y": 3-D Secure successful. "N": 3-D Secure failed (due to issuer or card holder). "U": 3-D Secure failed (reason other than mentioned above). "A": Attempt (3-D Secure authentication attempted successfully). "": No value (blank). * This field can be specified when "mpi (Specify 3-D Secure result)" is specified in "cardOptionType". Please refer to the "3-D Secure Services Supplementary Document" for more details.	△
			Without 3-D Secure	[Unused]	X

Request Message: CardAuthorizeRequestDto					
Field Name	Item Name	Format and Limitations	Description		Settings
dddCavvAlgorithm	3-D Secure CAVV algorithm	Alphanumeric characters; 1 character Please refer to the description in the right column.	With 3-D Secure	3-D Secure CAVV algorithm "0": HMAC "1": CVV "2": CVV with ATN "3": SPA Algorithm "": No value (blank). * This field can be specified when "mpi (Specify 3-D Secure result)" is specified in "cardOptionType". Please refer to the "3-D Secure Services Supplementary Document" for more details.	△
			Without 3-D Secure	[Unused]	X
dddCavv	3-D Secure CAVV	Single byte alphanumeric characters; 28 characters or 0 characters	With 3-D Secure	3-D Secure CAVV * This field can be specified when "mpi (Specify 3-D Secure result)" is specified in "cardOptionType". Please refer to the "3-D Secure Services Supplementary Document" for more details.	△
			Without 3-D Secure	[Unused]	X
dddEci	3-D Secure ECI	Single byte numbers; 2 digits Please refer to the description in the right column.	With 3-D Secure	3-D Secure ECI. "01": Attempt (Master Card). "02": Authentication successful (Master Card). "05": Authentication successful (VISA, JCB). "06": Attempt (VISA, JCB) or Not enrolled for 3-D Secure (Master, VISA, JCB). "07": Authentication execution not possible (Master Card, VISA, JCB). * This field can be specified when "mpi (Specify 3-D Secure result)" is specified in "cardOptionType". Please refer to the "3-D Secure Services Supplementary Document" for more details.	△
			Without 3-D Secure	[Unused]	X

## 2.2.2 Response Message: CardAuthorizeResponseDto

Response Message: CardAuthorizeResponseDto				
Field Name	Item Name	Format and Limitations	Description	Settings
serviceType	Payment service type	Single byte alphanumeric characters; 10 characters or less	Payment service type sent by request message.	○
mstatus	Process result code	Single byte alphanumeric characters; 32 characters or less	"success": Normal termination. "failure": Abnormal termination. "pending": Pending.	○
vResultCode	Detailed result code	String; 16 characters	Code that represents the process result in detail. It consists of 4 blocks of 4 characters each and each block represents the process result of each service. For details, please refer to the "Result code list" separately.	○
merrMsg	Error message	String	Process result in Japanese or English.	○
marchTxn	Message ID	String; 100 characters or less	ID assigned by payment server per payment process message (including internal process). Multiple IDs are assigned to a single Order ID.	○
orderId	Order ID	String	(Unique) order ID assigned randomly and sent by the merchant at the time of payment request.	○
custTxn	ID assigned per transaction	String; 100 characters or less	ID (uniquely) assigned by payment server to link the order (Order ID).	○
txnVersion	MDK version	Single byte alphanumeric characters; 5 characters or less	Message version. It is not generally used except in the case of a problem.	○
cardTransactiontype	Card transaction type	String; 6 characters or less	Please refer to the "2.6.1 Card Transaction Type".	△
gatewayRequestDate	Gateway request date and time	String; 14 characters or less	Date and time when gateway received the request message (YYYYMMDDhhmmss format).	△
gatewayResponseDate	Gateway response date and time	String; 14 characters or less	Date and time when gateway returned the response message (YYYYMMDDhhmmss format).	△
centerRequestDate	Center request date and time	String; 14 characters or less	Date and time when card payment center received the request message (YYYYMMDDhhmmss format).	△

Response Message: CardAuthorizeResponseDto				
Field Name	Item Name	Format and Limitations	Description	Settings
centerResponseDate	Center response date and time	String; 14 characters or less	Date and time when card payment center returned the response message (YYYYMMDDhhmmss format).	△
pending	Pending	String; 1 characters or less	"0": Not Pending, "1": Pending.	△
loopback	Loopback	String; 1 characters or less	"0": Not Pending, "1": Pending.	△
connectedCenterId	Card processing payment network	String; 5 characters or less	Name of card payment network between VeriTrans and card company. 'jcn', 'cafis'	△
centerRequestNumber	Center request number	String; 7 characters or less	Normally, merchant system need not be aware of this number.	△
centerReferenceNumber	Center reference number	String; 7 characters or less	Normally, merchant system need not be aware of this number.	△
reqCardNumber	Request card number	String; 16 characters or less	Value set in the request message. Only first 6 characters and last 2 characters are displayed; remaining characters are masked with "*" (asterisk). (For example: "411111*****11")	△
reqCardExpire	Request card expiry	String; 5 characters or less	Value set in the request message. All characters are masked with "*" (asterisk). (For example: "*****")	△
reqCardOptionType	Request card option type	String; 5 characters or less	Value set in the request message.	△
reqAmount	Request transaction amount	String; 12 characters or less	Value set in the request message.	△
reqAcquirerCode	Request acquirer code	String; 2 characters or less	Value same as acquirer code (acquirerCode).	△
reqJpoInformation	Request payment type information	String; 83 characters or less	Value set in the request message.	△
reqWithCapture	Request concurrent capture	String; 5 characters or less	Value set in the request message.	△
req3dMessageVersion	Request 3-D Secure message version	String; 10 characters or less	Value set in the request message.	△
req3dTransactionId	Request 3-D Secure transaction ID	String; 28 characters or less	Value set in the request message.	△

Response Message: CardAuthorizeResponseDto				
Field Name	Item Name	Format and Limitations	Description	Settings
req3dTransactionStatus	Request 3-D Secure transaction status	String; 1 characters or less	Value set in the request message.	△
req3dCavvAlgorithm	Request 3-D Secure CAVV algorithm	String; 1 characters or less	Value set in the request message.	△
req3dCavv	Request 3-D Secure CAVV	String; 28 characters or less	Value set in the request message.	△
req3dEci	Request 3-D Secure ECI	String; 2 characters or less	Value set in the request message.	△
reqSecurityCode	Security code	String; 4 characters or less	Value set in the request message. All characters are masked with "0" (zero).	△
resReturnReferenceNumber	Reference number	String; 12 characters or less	Number that is internally used by the system at the time of communication with the card company. Replaced by a zero value in case of connectedCenterId=cafis. Normally, merchant system need not be aware of this number.	△
resAuthCode	Authorization code	Single byte alphanumeric characters; Space; 7 characters or less	Authorization code issued by the card company.	△
resActionCode	Action code	String; 3 characters or less	Code returned at the time of communication with the card company. Replaced by a zero value in case of connectedCenterId=cafis. Normally, merchant system need not be aware of this number.	△
resCenterErrorCode	Response center error code	String; 3 characters or less	Result code returned by the card company (For example: "G12").	△
acquirerCode	Acquirer code	String; 2 characters or less	Code of the card company with whom the merchant has signed a merchant contract. It is the code of Acquiring card company rather than credit card issuing card company. Please refer to the "3-4 Credit Card Payment - Acquirer List".	△

## 2-3 Credit Card Payment Re-Order

**Note) There is no need to use credit card payment Re-Order function if you are using membership management function of the subscription service.**

**The function similar to credit card payment re-order is provided in the subscription service.**

**It is possible to perform re-order by specifying member ID and card ID in Authorize request message (CardAuthorizeRequestDto) of credit card payment.**

**This eliminates the need for the merchant to manage the original order ID used in the credit card payment re-order function.**

### 2.3.1 Request Message: CardReAuthorizeRequestDto

Request Message: CardReAuthorizeRequestDto					
Field Name	Item Name	Format and Limitations	Description		Settings
orderId	Order ID	Single byte alphanumeric characters; 100 characters or less	Please refer to the "About orderID (order ID)" described in "2-1 Common".		○
originalOrderId	Original order ID	Single byte alphanumeric characters; 100 characters or less	Order ID of past order for which re-order is to be performed. * The order history is stored for 400 days by default at VeriTrans server. The initial date for calculating the storage period is the date when the status was last modified. Therefore, we recommend to specify the order ID used in the latest re-order.		○
amount	Payment amount	Single byte numbers; 8 digits or less	1 to 99,999,999.		○
cardNumber	Card number	Single byte numbers; 16 digits or less	<b>(Important) Please do not use this parameter to comply with no electronic storage or transmission of any cardholder data.</b> Numbers only, or the number can be specified with hyphen (it should be 19 digits or less when hyphen is included).		△
cardExpire	Card expiry	Single byte alphanumeric characters; 5 characters	<b>(Important) Please do not use this parameter to comply with no electronic storage or transmission of any cardholder data.</b> MM/YY (Month + "/" + Year) format (For example: "08/18").		△
cardOptionType	Card option type	Please refer to the description in the right column.	With 3-D Secure	This is used when an authentication result has already been obtained using 3-D Secure service offered by another company. "mpi" (Specify 3-D Secure result).	△
			Without 3-D Secure	[Unused]	<b>X</b>

Request Message: CardReAuthorizeRequestDto					
Field Name	Item Name	Format and Limitations	Description		Settings
jpo	Payment type	Single byte alphanumeric characters; 83 characters or less Please refer to the description in the right column.	"10" (lump-sum payment). "21" (lump-sum bonus). "61Cxx" (payment in installments; specify number of installments in xx.). "80" (revolving payment). * If not specified, default is "10" (lump-sum payment). * Available payment types are different for facilitator contract and aggregator contract. Please refer to "3-1 Credit Card Payment - Specifying Payment Type Information" for more details.		△
withCapture	Capture flag	Please refer to the description in the right column.	"true": Authorization and Capture "false": Authorization only. * If not specified, "false" is set as a default value.		△
securityCode	Security code	Single byte numbers; 3 digits or 4 digits	Security code		△
<b>The following fields are used when sending 3-D Secure authentication result.</b>					
dddMessageVersion	3-D Secure message version	Single byte alphanumeric characters; 10 characters or 0 characters	With 3-D Secure	Message Version Number (For example: "1.0.2"). * This field can be specified when "mpi (Specify 3-D Secure result)" is specified in "cardOptionType". Please refer to the "3-D Secure Services Supplementary Document" for more details.	△
			Without 3-D Secure	[Unused]	X
dddTransactionId	3-D Secure transaction ID	Single byte alphanumeric characters; "+", "-", "="; 28 characters or 0 characters	With 3-D Secure	Transaction Identifier(XID) Specify the value obtained after encoding 20 digits binary value into 28 alphanumeric characters with Base64. * This field can be specified when "mpi (Specify 3-D Secure result)" is specified in "cardOptionType". Please refer to the "3-D Secure Services Supplementary Document" for more details.	△
			Without 3-D Secure	[Unused]	X

Request Message: CardReAuthorizeRequestDto					
Field Name	Item Name	Format and Limitations	Description		Settings
dddTransactionStatus	3-D Secure transaction status	Single byte alphabetic character; 1 character Please refer to the description in the right column.	With 3-D Secure	3-D Secure transaction status "Y": 3-D Secure successful. "N": 3-D Secure failed (due to issuer or card holder). "U": 3-D Secure failed (reason other than mentioned above). "A": Attempt (3-D Secure authentication attempted successfully). "": No value (blank). * This field can be specified when "mpi (Specify 3-D Secure result)" is specified in "cardOptionType". Please refer to the "3-D Secure Services Supplementary Document" for more details.	△
			Without 3-D Secure	[Unused]	X
dddCavvAlgorithm	3-D Secure CAVV algorithm	Alphanumeric character; 1 character Please refer to the description in the right column.	With 3-D Secure	3-D Secure CAVV algorithm "0": HMAC "1": CVV "2": CVV with ATN "3": SPA Algorithm "": No value (blank). * This field can be specified when "mpi (Specify 3-D Secure result)" is specified in "cardOptionType". Please refer to the "3-D Secure Services Supplementary Document" for more details.	△
			Without 3-D Secure	[Unused]	X
dddCavv	3-D Secure CAVV	Single byte alphanumeric characters; 28 characters or 0 characters	With 3-D Secure	3-D Secure CAVV * This field can be specified when "mpi (Specify 3-D Secure result)" is specified in "cardOptionType". Please refer to the "3-D Secure Services Supplementary Document" for more details.	△
			Without 3-D Secure	[Unused]	X

Request Message: CardReAuthorizeRequestDto					
Field Name	Item Name	Format and Limitations	Description		Settings
dddEci	3-D Secure ECI	Single byte numbers; 2 digits Please refer to the description in the right column.	With 3-D Secure	3-D Secure ECI. "01": Attempt (Master Card). "02": Authentication successful (Master Card). "05": Authentication successful (VISA, JCB). "06": Attempt (VISA, JCB) or Not enrolled for 3-D Secure (Master, VISA, JCB). "07": Authentication execution not possible (Master Card, VISA, JCB). * This field can be specified when "mpi (Specify 3-D Secure result)" is specified in "cardOptionType". Please refer to the "3-D Secure Services Supplementary Document" for more details.	△
			Without 3-D Secure	[Unused]	X

### 2.3.2 Response Message: CardReAuthorizeResponseDto

Response Message: CardReAuthorizeResponseDto					
Field Name	Item Name	Format and Limitations	Description		Settings
serviceType	Payment service type	Single byte alphanumeric characters; 10 characters or less	Payment service type sent by request message.		○
mstatus	Process result code	Single byte alphanumeric characters; 32 characters or less	"success": Normal termination. "failure": Abnormal termination. "pending": Pending.		○
vresultCode	Detailed result code	String; 16 characters	Code that represents the process result in detail. It consists of 4 blocks of 4 characters each and each block represents the process result of each service. For details, please refer to the "Result code list" separately.		○
merrMsg	Error message	String	Process result in Japanese or English.		○
marchTxn	Message ID	String; 100 characters or less	ID assigned by payment server per payment process message (including internal process). Multiple IDs are assigned to a single Order ID.		○

Response Message: CardReAuthorizeResponseDto				
Field Name	Item Name	Format and Limitations	Description	Settings
orderId	Order ID	String	(Unique) order ID assigned randomly and sent by the merchant at the time of payment request.	○
custTxn	ID assigned per transaction	String; 100 characters or less	ID (uniquely) assigned by payment server to link the order (Order ID).	○
txnVersion	MDK version	Single byte alphanumeric characters; 5 characters or less	Message version. It is not generally used except in the case of a problem.	○
cardTransactiontype	Card transaction type	String; 6 characters or less	Please refer to the "2.6.1 Card Transaction Type".	△
gatewayRequestDate	Gateway request date and time	String; 14 characters or less	Date and time when gateway received the request message (YYYYMMDDhhmmss format).	△
gatewayResponseDate	Gateway response date and time	String; 14 characters or less	Date and time when gateway returned the response message (YYYYMMDDhhmmss format).	△
centerRequestDate	Center request date and time	String; 14 characters or less	Date and time when card payment center received the request message (YYYYMMDDhhmmss format).	△
centerResponseDate	Center response date and time	String; 14 characters or less	Date and time when card payment center returned the response message (YYYYMMDDhhmmss format).	△
pending	Pending	String; 1 characters or less	"0": Not Pending, "1": Pending.	△
loopback	Loopback	String; 1 characters or less	"0": Not Pending, "1": Pending.	△
connectedCenterId	Card processing payment network	String; 5 characters or less	Name of card payment network between VeriTrans and card company. 'jcn', 'cafis'	△
centerRequestNumber	Center request number	String; 7 characters or less	Normally, merchant system need not be aware of this number.	△
centerReferenceNumber	Center reference number	String; 7 characters or less	Normally, merchant system need not be aware of this number.	△
reqCardNumber	Request card number	String; 16 characters or less	Value set in the request message. Only first 6 characters and last 2 characters are displayed; remaining characters are masked with "*" (asterisk). (For example: "411111*****11")	△

Response Message: CardReAuthorizeResponseDto				
Field Name	Item Name	Format and Limitations	Description	Settings
reqCardExpire	Request card expiry	String; 5 characters or less	Value set in the request message. All characters are masked with "*" (asterisk). (For example: "*****")	△
reqCardOptionType	Request card option type	String; 5 characters or less	Value set in the request message.	△
reqAmount	Request transaction amount	String; 12 characters or less	Value set in the request message.	△
reqAcquirerCode	Request acquirer code	String; 2 characters or less	Value same as acquirer code (acquirerCode).	△
reqJpoinformation	Request payment type information	String; 83 characters or less	Value set in the request message.	△
reqWithCapture	Request concurrent capture	String; 5 characters or less	Value set in the request message.	△
req3dMessageVersion	Request 3-D Secure message version	String; 10 characters or less	Value set in the request message.	△
req3dTransactionId	Request 3-D Secure transaction ID	String; 28 characters or less	Value set in the request message.	△
req3dTransactionStatus	Request 3-D Secure transaction status	String; 1 characters or less	Value set in the request message.	△
req3dCavvAlgorithm	Request 3-D Secure CAVV algorithm	String; 1 characters or less	Value set in the request message.	△
req3dCavv	Request 3-D Secure CAVV	String; 28 characters or less	Value set in the request message.	△
req3dEci	Request 3-D Secure ECI	String; 2 characters or less	Value set in the request message.	△
reqSecurityCode	Security code	String; 4 characters or less	Value set in the request message. All characters are masked with "0" (zero).	△
resReturnReferenceNumber	Reference number	String; 12 characters or less	Number that is internally used by the system at the time of communication with the card company. Replaced by a zero value in case of connectedCenterId=cafis. Normally, merchant system need not be aware of this number.	△

Response Message: CardReAuthorizeResponseDto				
Field Name	Item Name	Format and Limitations	Description	Settings
resAuthCode	Authorization code	Single byte alphanumeric characters; Space; 7 characters or less	Authorization code issued by the card company.	△
resActionCode	Action code	String; 3 characters or less	Code returned at the time of communication with the card company. Replaced by a zero value in case of connectedCenterId=cafis. Normally, merchant system need not be aware of this number.	△
resCenterErrorCode	Response center error code	String; 3 characters or less	Result code returned by the card company (For example: "G12").	△
acquirerCode	Acquirer code	String; 2 characters or less	Code of the card company with whom the merchant has signed a merchant contract. It is the code of Acquiring card company rather than credit card issuing card company. Please refer to the "3-4 Credit Card Payment - Acquirer List".	△

## 2-4 Credit Card Payment Capture

### 2.4.1 Request Message: CardCaptureRequestDto

Request Message: CardCaptureRequestDto				
Field Name	Item Name	Format and Limitations	Description	Settings
orderId	Order ID	Single byte alphanumeric characters; 100 characters or less	Order ID (uniquely) assigned at the time of authorization.	<input type="radio"/>
amount	Payment amount	Single byte numbers; 8 digits or less	Specify the amount less than the amount set at the time of authorization. 1 to 99,999,999.	<input type="radio"/>

### 2.4.2 Response Message: CardCaptureResponseDto

Response Message: CardCaptureResponseDto				
Field Name	Item Name	Format and Limitations	Description	Settings
serviceType	Payment service type	Single byte alphanumeric characters; 10 characters or less	Payment service type sent by request message.	<input type="radio"/>
mstatus	Process result code	Single byte alphanumeric characters; 32 characters or less	"success": Normal termination. "failure": Abnormal termination. "pending": Pending.	<input type="radio"/>
vresultCode	Detailed result code	String; 16 characters	Code that represents the process result in detail. It consists of 4 blocks of 4 characters each and each block represents the process result of each service. For details, please refer to the "Result code list" separately.	<input type="radio"/>
merrMsg	Error message	String	Process result in Japanese or English.	<input type="radio"/>
marchTxn	Message ID	String; 100 characters or less	ID assigned by payment server per payment process message (including internal process). Multiple IDs are assigned to a single Order ID.	<input type="radio"/>
orderId	Order ID	String	(Unique) order ID assigned randomly and sent by the merchant at the time of payment request.	<input type="radio"/>
custTxn	ID assigned per transaction	String; 100 characters or less	ID (uniquely) assigned by payment server to link the order (Order ID).	<input type="radio"/>

Response Message: CardCaptureResponseDto				
Field Name	Item Name	Format and Limitations	Description	Settings
txnVersion	MDK version	Single byte alphanumeric characters; 5 characters or less	Message version. It is not generally used except in the case of a problem.	○
cardTransactiontype	Card transaction type	String; 6 characters or less	Please refer to the "2.6.1 Card Transaction Type".	△
gatewayRequestDate	Gateway request date and time	String; 14 characters or less	Date and time when gateway received the request message (YYYYMMDDhhmmss format).	△
gatewayResponseDate	Gateway response date and time	String; 14 characters or less	Date and time when gateway returned the response message (YYYYMMDDhhmmss format).	△
centerRequestDate	Center request date and time	String; 14 characters or less	Date and time when card payment center received the request message (YYYYMMDDhhmmss format).	△
centerResponseDate	Center response date and time	String; 14 characters or less	Date and time when card payment center returned the response message (YYYYMMDDhhmmss format).	△
pending	Pending	String; 1 characters or less	"0": Not Pending, "1": Pending.	△
loopback	Loopback	String; 1 characters or less	"0": Not Pending, "1": Pending.	△
connectedCenterId	Card processing payment network	String; 5 characters or less	Normally, merchant system need not be aware of this number.	△
centerRequestNumber	Center request number	String; 7 characters or less	Normally, merchant system need not be aware of this number.	△
centerReferenceNumber	Center reference number	String; 7 characters or less	Normally, merchant system need not be aware of this number.	△
reqCardNumber	Request card number	String; 16 characters or less	Value set in the request message. Only first 6 characters and last 2 characters are displayed; remaining characters are masked with "*" (asterisk). (For example: "411111*****11")	△
reqCardExpire	Request card expiry	String; 5 characters or less	Value set in the request message. All characters are masked with "*" (asterisk). (For example: "*****")	△
reqCardOptionType	Request card option type	String; 5 characters or less	Value set in the request message.	△

Response Message: CardCaptureResponseDto				
Field Name	Item Name	Format and Limitations	Description	Settings
reqAmount	Request transaction amount	String; 12 characters or less	Value set in the request message.	△
reqAcquirerCode	Request acquirer code	String; 2 characters or less	Value same as acquirer code (acquirerCode)	△
reqJpoInformation	Request payment type information	String; 83 characters or less	Value set in the request message.	△
reqWithCapture	Request concurrent capture	String; 5 characters or less	Value set in the request message.	△
req3dMessageVersion	Request 3-D Secure message version	String; 10 characters or less	Value set in the request message.	△
req3dTransactionId	Request 3-D Secure transaction ID	String; 28 characters or less	Value set in the request message.	△
req3dTransactionStatus	Request 3-D Secure transaction status	String; 1 characters or less	Value set in the request message.	△
req3dCavvAlgorithm	Request 3-D Secure CAVV algorithm	String; 1 characters or less	Value set in the request message.	△
req3dCavv	Request 3-D Secure CAVV	String; 28 characters or less	Value set in the request message.	△
req3dEci	Request 3-D Secure ECI	String; 2 characters or less	Value set in the request message.	△
reqSecurityCode	Security code	String; 4 characters or less	Value set in the request message. All characters are masked with "0" (zero).	△
resReturnReferenceNumber	Reference number	String; 12 characters or less	Number that is internally used by the system at the time of communication with the card company. Normally, merchant system need not be aware of this number.	△
resAuthCode	Authorization code	Single byte alphanumeric characters; Space; 7 characters or less	Authorization code issued by the card company.	△
resActionCode	Action code	String; 3 characters or less	Code returned at the time of communication with the card company. Normally, merchant system need not be aware of this number.	△
resCenterErrorCode	Response center error code	String; 3 characters or less	Result code returned by the card company (For example: "G12").	△

Response Message: CardCaptureResponseDto				
Field Name	Item Name	Format and Limitations	Description	Settings
acquirerCode	Acquirer code	String; 2 characters or less	Code of the card company with whom the merchant has signed a merchant contract. It is the code of Acquiring card company rather than credit card issuing card company. Please refer to the "3-4 Credit Card Payment - Acquirer List".	△

## 2-5 Credit Card Payment Cancellation

### 2.5.1 Request Message: CardCancelRequestDto

Request Message: CardCancelRequestDto				
Field Name	Item Name	Format and Limitations	Description	Settings
orderId	Order ID	Single byte alphanumeric characters; 100 characters or less	Order ID (uniquely) assigned at the time of authorization. * However, new order ID needs to be (uniquely) assigned when executing Refund without Capture transaction.	○
amount	Payment amount	Single byte numbers; 8 digits or less	Amount less than the amount set at the time of authorization; 1 to 99,999,999. * Partial cancellation is allowed. * If not specified, full amount is canceled.	△

### 2.5.2 Response Message: CardCancelResponseDto

Response Message: CardCancelResponseDto				
Field Name	Item Name	Format and Limitations	Description	Settings
serviceType	Payment service type	Single byte alphanumeric characters; 10 characters or less	Payment service type sent by request message.	○
mstatus	Process result code	Single byte alphanumeric characters; 32 characters or less	"success": Normal termination. "failure": Abnormal termination. "pending": Pending.	○
vresultCode	Detailed result code	String; 16 characters	Code that represents the process result in detail. It consists of 4 blocks of 4 characters each and each block represents the process result of each service. For details, please refer to the "Result code list" separately.	○
merrMsg	Error message	String	Process result in Japanese or English.	○
marchTxn	Message ID	String; 100 characters or less	ID assigned by payment server per payment process message (including internal process). Multiple IDs are assigned to a single Order ID.	○
orderId	Order ID	String	(Unique) order ID assigned randomly and sent by the merchant at the time of payment request.	○
custTxn	ID assigned per transaction	String; 100 characters or less	ID (uniquely) assigned by payment server to link the order (Order ID).	○

Response Message: CardCancelResponseDto				
Field Name	Item Name	Format and Limitations	Description	Settings
txnVersion	MDK version	Single byte alphanumeric characters; 5 characters or less	Message version. It is not generally used except in the case of a problem.	○
cardTransactiontype	Card transaction type	String; 6 characters or less	Please refer to the "2.6.1 Card Transaction Type".	△
gatewayRequestDate	Gateway request date and time	String; 14 characters or less	Date and time when gateway received the request message. YYYYMMDDhhmmss format	△
gatewayResponseDate	Gateway response date and time	String; 14 characters or less	Date and time when gateway returned the response message. YYYYMMDDhhmmss format	△
centerRequestDate	Center request date and time	String; 14 characters or less	Date and time when card payment center received the request message (YYYYMMDDhhmmss format).	△
centerResponseDate	Center response date and time	String; 14 characters or less	Date and time when card payment center returned the response message (YYYYMMDDhhmmss format).	△
pending	Pending	String; 1 characters or less	"0": Not Pending, "1": Pending.	△
loopback	Loopback	String; 1 characters or less	"0": Not Pending, "1": Pending.	△
connectedCenterId	Card processing payment network	String; 5 characters or less	Name of card payment network between VeriTrans and card company. 'jcn', 'cafis'	△
centerRequestNumber	Center request number	String; 7 characters or less	Normally, merchant system need not be aware of this number.	△
centerReferenceNumber	Center reference number	String; 7 characters or less	Normally, merchant system need not be aware of this number.	△
reqCardNumber	Request card number	String; 16 characters or less	Value set in the request message. Only first 6 characters and last 2 characters are displayed; remaining characters are masked with "*" (asterisk). (For example: "411111*****11")	△
reqCardExpire	Request card expiry	String; 5 characters or less	Value set in the request message. All characters are masked with "*" (asterisk). (For example: "*****")	△
reqCardOptionType	Request card option type	String; 5 characters or less	Value set in the request message.	△

Response Message: CardCancelResponseDto				
Field Name	Item Name	Format and Limitations	Description	Settings
reqAmount	Request transaction amount	String; 12 characters or less	Value set in the request message.	△
reqAcquirerCode	Request acquirer code	String; 2 characters or less	Value same as acquirer code (acquirerCode)	△
reqJpoInformation	Request payment type information	String; 83 characters or less	Value set in the request message.	△
reqWithCapture	Request concurrent capture	String; 5 characters or less	Value set in the request message.	△
req3dMessageVersion	Request 3-D Secure message version	String; 10 characters or less	Value set in the request message.	△
req3dTransactionId	Request 3-D Secure transaction ID	String; 28 characters or less	Value set in the request message.	△
req3dTransactionStatus	Request 3-D Secure transaction status	String; 1 characters or less	Value set in the request message.	△
req3dCavvAlgorithm	Request 3-D Secure CAVV algorithm	String; 1 characters or less	Value set in the request message.	△
req3dCavv	Request 3-D Secure CAVV	String; 28 characters or less	Value set in the request message.	△
req3dEci	Request 3-D Secure ECI	String; 2 characters or less	Value set in the request message.	△
reqSecurityCode	Security code	String; 4 characters or less	Value set in the request message. All characters are masked with "0" (zero).	△
resReturnReferenceNumber	Reference number	String; 12 characters or less	Number that is internally used by the system at the time of communication with the card company. Replaced by a zero value in case of connectedCenterId=cafis. Normally, merchant system need not be aware of this number.	△
resAuthCode	Authorization code	Single byte alphanumeric characters; Space; 7 characters or less	Authorization code issued by the card company.	△
resActionCode	Action code	String; 3 characters or less	Code returned at the time of communication with the card company. Replaced by a zero value in case of connectedCenterId=cafis. Normally, merchant system need not be aware of this number.	△

Response Message: CardCancelResponseDto				
Field Name	Item Name	Format and Limitations	Description	Settings
resCenterErrorCode	Response center error code	String; 3 characters or less	Result code returned by the card company (For example: "G12").	△
acquirerCode	Acquirer code	String; 2 characters or less	Code of the card company with whom the merchant has signed a merchant contract. It is the code of Acquiring card company rather than credit card issuing card company. Please refer to the "3-4 Credit Card Payment - Acquirer List".	△

## 2-6 Appendix

### 2.6.1 Card Transaction Type

The section provides the process status of corresponding transactions.

Following table explains the types available in normal payments. (Types not mentioned in this table also exist.)

Type Name	Setting Value	Remarks
Authorization	a	
Authorization (expired)	ax	This indicates the order that has exceeded the authorization validity period (normally 60 days).
Authorization and Capture	ac	
Capture	pa	
Authorization → Cancel	va/rad/rae	'rae' if there is a balance and 'rad' if there is no balance after the execution of partial return.
Authorization and Capture → Cancel	vac/racd/race	'race' if there is a balance and 'racd' if there is no balance after the execution of partial return.
Capture → Cancel	vpa/rpad/rpae	'rpae' if there is a balance and 'rpad' if there is no balance after the execution of partial return.

(Supplementary Items)

- If order is pending, "p" is added at the end of each setting value.
- Pending indicates the unknown order status because of failure of communication between payment server and the card company. In normal cases, please consider that the order has failed.

# Chapter 3 Other – Supplementary Items

## 3-1 Credit Card Payment - Specifying Payment Type Information

To accept payments in installments or revolving payments make a prior application to VeriTrans and set the following values.

Please contact well in advance as configuration is required at VeriTrans as well.

- Prior application to VeriTrans

If facilitator contract is signed (payment facilitator model) with the card company, it is necessary to sign the contract for payment in installments with the card company in advance.

- Change in MDK setting

Need to set payment type (jpo) parameter in the authorization message.

- Usage limitations in aggregator contract

Please refer to the following table for the limitations on usage in aggregator contract (payment aggregation model) with VeriTrans.

Payment Method	Set Value	Meaning of Set Value	Available Payment Methods in Aggregation Service			
			VISA/MASTER	JCB	AMEX	DINERS
Lump-sum payment	10 Not specified		○	○	○	○
Payment in installments	61Cxx	xx is the number of installments. For example: "61C05" in the case of 5 installments.	○	○	○	X
Revolving payment	80		○	○	X	○

- From the above-mentioned payment methods, only those methods based on the merchant contract can be selected.
  - \* The merchants which can only use lump-sum payment cannot select the payment method other than the lump-sum payment.
  - \* The number of installments of payment that can be specified are 3, 5, 6, 10, 12, 15, 18, 20 or 24.
  - \* In case of payment facilitator model, available payment methods are in accordance with the contract between merchant and Card Company.
- If jpo is not specified in the message, order is processed as lump-sum payment.

- The payment method of the previous order cannot be changed at the time of capture / cancel / return.

## 3-2 Credit Card Payment - Precautions related to Capture

Capture can be requested within the amount for which authorization is executed in credit card payment.

- Capture cannot be requested if it exceeds the authorization amount.
- Capture for full or partial authorization amount (partial capture) can be requested.

Capture can only be executed once for a single authorization. This applies even in the case of partial capture.

- \* For example: It is not possible to perform the capture of 4000 Yen again if the capture for 6000 Yen is already performed for the authorization of 10,000 Yen.

### 3.2.1 Partial Shipment of Order

In the case of credit card payment, Capture can be executed only once for single authorization.

If capture is divided in to more than one to support partial shipment etc., again get the authorization to perform capture for second time onwards.

### 3.2.2 Authorization Validity Period

In the case of credit card payment, validity period is set for the authorization. The validity period of authorization is "60 days including date of authorization".

The authorization is valid until 23:59 following the 59th day from the authorization day and it expires from 00:00 onwards following 60th day.

The time of authorization is not taken into consideration.

- If authorization date time is 2014/6/20 18:23 (60 days after authorization will be 8/19)
  - Authorization is valid till 2014/8/18.
  - Authorization expires when the date changes to 2014/8/19.

Please note that the capture and cancel process cannot be executed after authorization validity period is exceeded and authorization is expired. (Error occurs.)

### 3-3 Credit Card Payment - Precautions related to Cancel (Void and Return)

Cancel can be requested within the amount for which capture is executed in credit card payment.

- Cancel cannot be requested if it exceeds the capture amount.
- Cancel for full capture amount or partial amount (partial cancel) can be requested.
- Cancellation is treated as cancel if it is done before the consumer is charged whereas it is treated as refund if it is done after the consumer is charged.

Cancellation can be repeatedly requested until the capture amount reaches to 0 Yen.

Capture cannot be requested again for a transaction which has already been canceled.

#### 3.3.1 Cancel Authorization

Authorization can be canceled for partial or full amount which is the same as canceling the capture. However, capture cannot be requested for the orders for which authorization is canceled.

For example)

- Authorization for 100 Yen => Full amount Cancel => Capture cannot be done.
- Authorization for 100 Yen => Partial Cancel of 40 Yen => Capture cannot be done.
- \* Cancel authorization has the only purpose of releasing an authorization hold. Even if the authorization is canceled, this does not mean that the authorization hold will always be immediately released as it depends on the card company.

#### 3.3.2 Partial Cancel

Depending on the card company, cancelation of an amount that is different to the authorization may be rejected. In this case, cancel can be done by executing "direct return" from Merchant Administration Portal (MAP), as negative data can be sent to the card company. However, direct return can be executed only when payment type is "Lump-sum payment".

#### 3.3.3 Cancel after Partial Capture

After obtaining authorization, if the partial Capture is executed, then Cancel is applicable only for the amount for which Capture was performed.

- Authorization for 100 Yen => Partial Capture of 60 Yen  
=>Cancel can be done with upper limit as 60 Yen for which Capture was performed.

**3-4 Credit Card Payment - Acquirer List**

<b>Card Company Code</b>	<b>Company Name</b>
01	SUMITOMO MITSUI TRUST CLUB CO., LTD.
02	JCB Co., Ltd.
03	Mitsubishi UFJ NICOS Co., Ltd. (Former name: DC)
04	Sumitomo Mitsui Card Co., Ltd.
05	Mitsubishi UFJ NICOS Co., Ltd. (Former name: UFJ)
06	UC Card Co., Ltd.
07	American Express International, Inc.
08	JACCS CO., LTD.
09	Mitsubishi UFJ NICOS Co., Ltd. (Former name: Nippon Shinpan)
10	Orient Corporation
11	Cedyna Financial Corp * (Former name: Central Finance Co., LTD.)
12	APLUS Co., Ltd
13	Lifecard Co., Ltd.
14	Rakuten Card Co., Ltd.
21	CREDIT SAISON CO., LTD.
22	POCKET CARD CO., LTD.
23	Cedyna Financial Corp * (Former name: OMC Card, Inc.)
24	AEON CREDIT SERVICE CO., LTD.
31	Toyota Finance Corporation
38	TOKYU CARD, INC.
40	UCS Co., Ltd.
44	Sumishin Life Card Company, Limited
47	HOKUSEN Co. LTD
50	YOU-ME CARD CO LTD

VeriTrans4G Interface Details ~ Credit Card Payment ~

<b>Card Company Code</b>	<b>Company Name</b>
51	Okinawa Credit Service Co., Ltd.
52	Viewcard Co., Ltd.
56	EPOS Card Co., Ltd.
57	Tenmaya Card Service Co., Ltd.
62	JFR CARD Co., Ltd.
63	Keihan Card Co. Ltd.

\* The above list is **as of August 2016**.