

Korean Cyber Payment Services

Using the SCMP API

August 2019

CyberSource®
the power of payment

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Recent Revisions to This Document

Release	Changes
August 2019	Added information about multibyte character strings. See " Working with Multibyte Character Strings ," page 18 .
September 2018	Updated the "Initiate Payment Service" section. See " Initiate Payment Service Sequence ," page 9. Updated the "Merchant URL" section. See " Merchant URL ," page 11. Updated the "Initiate Payment" reply examples with encrypted string. See Appendix B, "Examples," on page 25 .
April 2015	Updated the Important note regarding supported browsers and mobile devices. See the important note in Chapter 1, "Introduction," on page 8 .
January 2014	Updated the "Related Documents" section. See " Related Documents ," page 7.
October 2013	Initial release.

About This Guide

Audience and Purpose

This guide is written for merchants who want to offer Korean Cyber Payment (KCP) services to customers and describes tasks a merchant must complete in order to make a payment, request the status of a payment, or refund a payment. It is intended to help the merchant provide a seamless customer payment experience.

Conventions

Important Statement



An *Important* statement contains information essential to successfully completing a task or learning a concept.

Text and Command Conventions

Convention	Usage
bold	<ul style="list-style-type: none">■ Field and service names in text; for example: Include the request_id field.■ Items that you are instructed to act upon; for example: Click Save.
screen text	<ul style="list-style-type: none">■ Code examples and samples.

Related Documents

- *Getting Started with CyberSource Advanced for the SCMP API*—describes how to start using your CyberSource advanced account.
- *Business Center Overview*—describes the features and options available with your CyberSource advanced account using the Business Center.
- *SCMP API Documentation and Downloads page*.

Refer to the Support Center for complete CyberSource technical documentation:

http://www.cybersource.com/support_center/support_documentation

Customer Support

For support information about any CyberSource service, visit the Support Center:

<http://www.cybersource.com/support>

Introduction



Important

All KCP payments are processed in South Korean Won (KRW). Contact KCP for a list of supported desktop browsers and mobile devices.

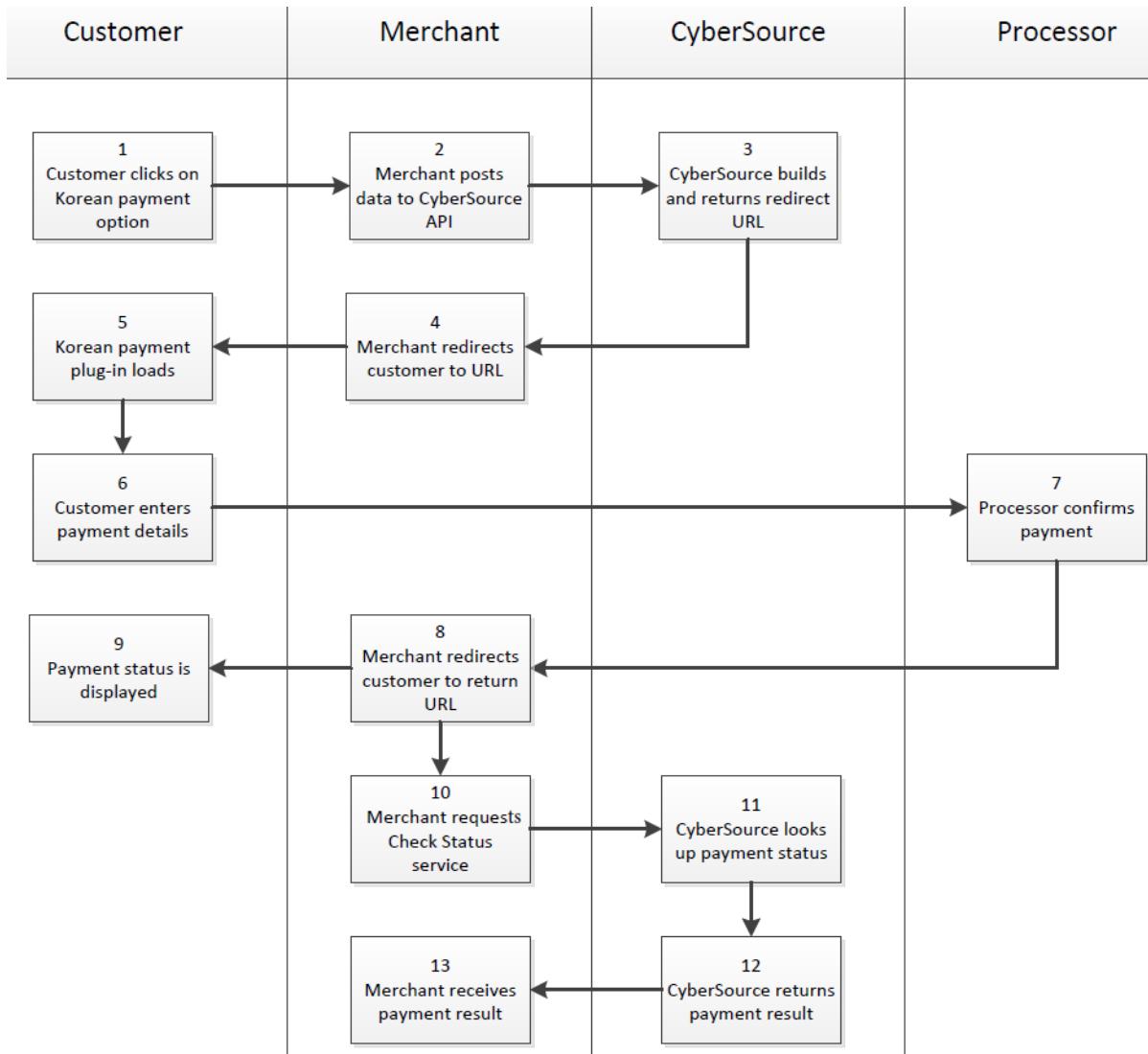
Payment Types

Table 1 Payment Types

Payment Type	Description
ACC	Credit card payment.
RBT	Real-time bank transfer.
MBP	Mobile billing payment.

KCP Services

Initiate Payment Service Sequence



- 1 The customer chooses the Korean payment type on your website's checkout or payment page.
- 2 Using the CyberSource API, you POST the merchant details and order information from the initiate payment service request to CyberSource.
- 3 CyberSource creates a signed and encrypted merchant URL (see "Merchant URL") to redirect the customer to the KCP web site. This signed and encrypted merchant URL is sent back to you.

- 4 The customer is redirected to the URL that CyberSource sent you in [Step 3](#). This URL directs the customer to the KCP web site.
- 5 The customer clicks **Submit** and the Korean payment plug-in is launched. The plug-in is an executable file that is downloaded to the customer's device when the customer is browsing from a Windows operating system.
- 6 The customer enters payment details and confirms the payment.
- 7 The processor confirms the payment and sends verification to CyberSource.
- 8 CyberSource stores the payment status. You can retrieve the payment status by requesting the check status service (see "[Check Status Service](#)," page 13).
- 9 The customer's browser is redirected to the return URL that is specified during merchant boarding. The return URL contains the payment status. CyberSource recommends that this status is used only for browser control to display a user-friendly message to the customer. You should ship goods based on the payment status retrieved from the check status service request (see "[Check Status Service](#)," page 13).
- 10 The merchant requests the check status service from CyberSource. CyberSource recommends that this service be requested immediately after [Step 9](#) and every hour thereafter until the payment status is COMPLETED, DECLINED, or CANCELLED.
- 11 CyberSource verifies the payment status with the processor.
- 12 CyberSource sends the payment result to the merchant.
- 13 The merchant receives the payment result. If the Check Status result is:
 - PENDING—payment is still in progress. Do not ship the goods.
 - COMPLETED—payment was successful. Ship the goods.
 - DECLINE—payment was rejected by the processor. Do not ship the goods.
 - CANCELLED—payment was cancelled by the customer. Do not ship the goods.

Merchant URL

The merchant URL consists of the following parameters.

Table 2 Merchant URL Parameters

Parameter	Description
KCP web site	Test: https://certpay.kcp.co.kr/Pay/module/cyberSource/KCP_Gateway.jsp Live: https://pay.kcp.co.kr/Pay/module/cyberSource/KCP_Gateway.jsp
encrypted_data	All the customer's payment information signed and encrypted in a blob of data.

The encrypted data described in [Table 2](#) consists of the following parameters.

Table 3 Merchant URL Parameters

Parameter	Description
buyr_mail	Customer email.
buyr_name	Customer name.
buyr_tel	Customer telephone number.
currency	Three-digit numeric currency code used for the order. KRW: 410
eng_flag	English-language indicator for the KCP plug-in.
escw_used	Provides the escrow option to a customer. Possible values: <ul style="list-style-type: none">■ Yes: Y■ No: N <p>Important You must have the appropriate contract with KCP to offer escrow. Escrow is supported only for bank transfers made using a desktop PC. It is not supported for mobile devices. Escrow can be used only for transactions with an amount greater than 50,000 KRW.</p>
good_mny	Payment amount.
good_name	Product purchased by the customer.
ordr_idx	Unique merchant-generated transaction ID. If it is not included, CyberSource will generate this transaction ID.
pay_method	Payment method. Possible values: <ul style="list-style-type: none">■ 100000000000—Credit card.■ 010000000000—Bank transfer.■ 000010000000—Mobile billing.

Table 3 Merchant URL Parameters (Continued)

Parameter	Description
quotaopt	Installment payment frequency for credit card payments only. Possible values: 00 to 12. Default value: 12.
ret_url	Merchant-defined URL for displaying the payment results to the customer. You can also specify this URL during merchant boarding.
signature	RSA signature and SHA-256 data hashing.
site_cd	KCP merchant ID.
site_logo	KCP user interface, which can be customized with a merchant logo. The image size must not exceed 150 (w) x 50 (h) pixels. Format: JPG or GIF.
site_name	Merchant brand name.
skin_indx	Payment UI skin number. Each number displays a different color of the KCP plug-in UI.

The merchant URL consists of an encrypted string of characters representing the payment details. The customer should be redirected to this URL. Internet Explorer restricts browser URL lengths, so use the following code when performing the redirect using client-side JavaScript:

```
<SCRIPT LANGUAGE='JavaScript'>
  var win=window.open('', '_blank');
  win.location=' " . $apInitiateReply->merchantURL . " ';
</SCRIPT>
```

\$apInitiateReply->merchantURL is the merchant URL included in the CyberSource response to the Initiate request.

A server-side redirect can also be used to perform the redirect.



Note

Check Status Service

When the customer is redirected to your web site after making a payment, you can request the status of the payment. Verifying a payment status is a follow-on transaction that uses the request ID returned from the initiate payment request. The initiate payment request ID links the check status request to the payment transaction. See "[Checking Payment Status](#)," page 15.



CyberSource recommends that you request only the check status service when you receive the return URL from KCP. If you do not receive a return URL, wait 1 hour before requesting the check status service, then request it at hourly intervals.

Refund Service

A refund is a follow-on transaction that uses the request ID returned from the initiate payment request. The request ID links the refund transaction to the payment transaction. See "[Refunding a Payment](#)," page 16.



Refunds are permitted up to 60 days after the transaction is initiated. CyberSource recommends that the payment status be COMPLETED before you refund a payment and return funds to the customer account. Before refunding a payment, request the check status service to retrieve the status of the payment.

Requesting KCP Services

Initiating Payment

To initiate a payment:

Step 1 Set the **ics_applications** field to **ics_ap_initiate**.

Step 2 Include the following fields in the request:

- **customer_firstname**
- **customer_lastname**
- **customer_phone**
- **customer_email**
- **ap_initiate_return_url**
- **ap_initiate_product_name**
- **ap_initiate_escrow_agreement**
- **ap_initiate_language_interface**—the default is Korean.
- **installment_frequency**—this field is supported only for credit card payments when the amount of the transaction is greater than 50,000 KRW. Cards issued outside of Korea are not supported. Depending on the agreement with KCP and the issuers, there could be a service charge. KCP has an agreement with all issuers to process installment payments.
- **ap_payment_type**
- **currency**
- **grand_total_amount**
- **merchant_id**
- **merchant_ref_number**

For detailed descriptions of all request and reply fields, see "[API Fields](#)," page 17. For an initiate payment example, see "[Initiate Payment Example](#)," page 25.

Checking Payment Status

To check the status of a payment:

Step 1 Set the **ics_applications** field to **ics_ap_check_status**.

Step 2 Include the following fields in the request:

- **ap_initiate_request_id**—include the value returned in the initiate payment service reply. See "[Reply Fields](#)," page 21.
- **ap_payment_type**
- **merchant_id**
- **merchant_ref_number**

For detailed descriptions of all request and reply fields, see "[API Fields](#)," page 17. For a check status example, see "[Checking Payment Status](#)," page 15.

Refunding a Payment



Multiple partial refunds are allowed. Partial refunds are not allowed for mobile billing payments or escrow payments. Refunds using the API service are not allowed for escrow payments.

To refund a payment:

Step 1 Set the **ics_applications** field to **ics_ap_refund**.

Step 2 Include the following fields in the request:

- **ap_initiate_request_id**—include the value returned in the initiate payment service reply. See "[Reply Fields](#)," page 21.
- **ap_payment_type**
- **ap_refund_reason**
- **currency**
- **grand_total_amount**
- **merchant_id**
- **merchant_ref_number**

For detailed descriptions of all request and reply fields, see "[API Fields](#)," page 17. For a refund example, see "[Refunding a Payment](#)," page 16.



API Fields

Data Type Definitions

Data Type	Description
Date and time	Format is YYYY-MM-DDThhmmssZ, where: <ul style="list-style-type: none"> ■ T separates the date and the time ■ Z indicates Coordinated Universal Time (UTC), which is also known as Greenwich Mean Time Example 2012-08-11T224757Z equals 10:47:57 P.M. on August 11, 2012
Decimal	Number that includes a decimal point Example 23.45, -0.1, 4.0, 90809.0468
Integer	Whole number {..., -3, -2, -1, 0, 1, 2, 3, ...}
String	Sequence of letters, numbers, spaces, and special characters

Special Characters

Do not use the following special characters in the Initiate Payment request (see "[Initiating Payment](#)," page 14):

Comma	Ampersand	Semicolon	New line	Backslash	Pipe line	Single Quotation Mark	Double Quotation Mark
,	&	;	\n	\		'	"

Working with Multibyte Character Strings

Many international languages - such as Korean, Chinese, and Russian - require more than one ASCII byte per character. Therefore, a string of multibyte characters can exceed the allotted string length of some Simple Order API fields.

For example, the **customer_firstname** and **customer_lastname** fields can each handle a string of 15 ASCII characters. When the first and last name fields are used together, they can handle 30 ASCII characters in total, including the blank space between the names.

First name + space + last name = 30 (maximum)

In many international languages, a short name that visually has only 3 or 4 characters may be equivalent to 10 or 15 bytes in UTF-8. Therefore, it is important to take into consideration the overall length of a multibyte string to be sure it fits into the allotted ASCII string length.



For best success when working with international languages, make sure the total size of a multibyte string fits within the ASCII string length for a specific API field.

Request Fields

Table 4 Request-Level Fields for the SCMP API

Field Name	Description	Used By: Required (R) or Optional (O)	Data Type & Length
ap_initiate_escrow_agreement	<p>Indicates whether to use the customer's escrow agreement.</p> <p>Possible values:</p> <ul style="list-style-type: none"> ■ Y: yes, use the customer's escrow agreement. ■ N: no, do not use the customer's escrow agreement. <p>Note The escrow agreement can be used only if the transaction is great than or equal to 50000 KRW. You must enter the shipping details in the KCP administration panel for escrow payments.</p> <p>Important Only available for bank transfer payments.</p>	Initiate Payment (R)	String (1)

Table 4 Request-Level Fields for the SCMP API (Continued)

Field Name	Description	Used By: Required (R) or Optional (O)	Data Type & Length
ap_initiate_language_interface	Language indicator for the KCP plugin.	Initiate Payment (R)	String (1)
	Possible values:		
	■ EN: English ■ Korean (default)		
ap_initiate_product_name	Product offered to the customer.	Initiate Payment (O)	String (30)
ap_initiate_request_id	Identifier returned from the initiate payment service request.	Check Status (R) Refund (R)	String (26)
ap_initiate_return_url	URL of the web page to which the customer is directed to when the transaction is completed.	Initiate Payment (R)	String (256)
	Note This URL overrides the return URL that was specified during merchant boarding.		
ap_payment_type	Identifier for the payment type.	Initiate Payment (R)	String (5)
	Possible values:	Check Status (R)	
	■ ACC: Credit card payment. ■ RBT: Real time bank transfer. ■ MBP: Mobile billing payment.	Refund (R)	
ap_refund_reason	Reason for the refund.	Refund (O)	String (256)
currency	Currency used for the order.	Initiate Payment (R)	String (3)
	Value: KRW	Refund (R)	
customer_email	Customer's email address.	Initiate Payment (O)	String (50)
customer_firstname	Customer's first name.	Initiate Payment (O)	String (15)
	Note The first and last name fields together cannot exceed 30 ASCII characters, including spaces. In UTF-8, the first and last name fields together cannot exceed an equivalent number of multibyte characters, including spaces.		

Table 4 Request-Level Fields for the SCMP API (Continued)

Field Name	Description	Used By: Required (R) or Optional (O)	Data Type & Length
customer_lastname	Customer's last name.	Initiate Payment (O)	String (15)
	<p>Note The first and last name fields together cannot exceed 30 ASCII characters, including spaces. In UTF-8, the first and last name fields together cannot exceed an equivalent number of multibyte characters, including spaces.</p>		
customer_phone	Customer's phone number. CyberSource recommends that you include the country code when the order is from outside the U.S.	Initiate Payment (O)	String (20)
grand_total_amount	Grand total for the order.	Initiate Payment (R)	Decimal (12)
	<p>Important The grand_total_amount field value should not contain a decimal point. The payment is rejected if the amount is greater than or equal to 2100000000.</p>	Refund (R)	
ics_applications	<p>CyberSource services to process for the request. Possible values:</p> <ul style="list-style-type: none"> ■ Initiate Payment Service: ics_ap_initiate ■ Check Status Service: ics_ap_check_status ■ Refund Service: ics_ap_refund 	Initiate Payment (R)	String (256)
		Check Status (R)	
		Refund (R)	
installment_frequency	Frequency of payments. Possible values are 0 to 12. The default value is 12.	Initiate Payment (O)	String (2)
	<p>Note This field is supported only for credit card payments when the amount of the transaction is greater than 50000 KRW.</p>		
merchant_id	Your CyberSource merchant ID. Use the same merchant ID for evaluation, testing, and production.	Initiate Payment (R)	String (50)
		Check Status (R)	
		Refund (R)	

Table 4 Request-Level Fields for the SCMP API (Continued)

Field Name	Description	Used By: Required (R) or Optional (O)	Data Type & Length
merchant_ref_number	Merchant-generated order reference or tracking number. CyberSource recommends that you send a unique value for each transaction so that you can perform meaningful searches for the transaction. For more information about tracking orders, see Getting Started with CyberSource Advanced for the SCMP API .	Initiate Payment (R) Check Status (R) Refund (R)	String (50)

Reply Fields

Table 5 Reply Fields for the SCMP API

Field Name	Description	Returned By	Data Type & Length
ap_check_status_payment_status	Description of the payment status. Possible values: <ul style="list-style-type: none">■ PENDING■ COMPLETED■ DECLINED■ CANCELLED	Check Status	String (15)
ap_check_status_processor_transaction_id	KCP-generated transaction ID number.	Check Status	String (14)
ap_check_status_rcode	One-digit code that indicates whether the ics_ap_check_status request was successful. Possible values: <ul style="list-style-type: none">■ 1: An error occurred■ 0: The request was declined■ 1: The request was successful	Check Status	Integer (1)
ap_check_status_rflag	One-word description of the result of the ics_ap_check_status request. See " Reply Flags ," page 24.	Check Status	String (50)
ap_check_status_rmsg	Message explaining the reply flag ap_check_status_rflag .	Check Status	String (255)

Table 5 Reply Fields for the SCMP API (Continued)

Field Name	Description	Returned By	Data Type & Length
ap_check_status_trans_ref_no	Reference number for the transaction. For more information about tracking orders, see Getting Started with CyberSource Advanced for the SCMP API .	Check Status	String (50)
ap_initiate_merchant_url	Redirect URL to the KCP plug-in. The URL contains a unique reference and payment details for the order. Important Internet Explorer restricts browser URL lengths, so the customer should be redirected to this URL using the code described on "Merchant URL," page 11 .	Initiate Payment	Encrypted string of characters.
ap_initiate_rcode	One-digit code that indicates whether the ics_ap_initiate request was successful. Possible values: <ul style="list-style-type: none">■ -1: An error occurred■ 0: The request was declined■ 1: The request was successful	Initiate Payment	Integer (1)
ap_initiate_rflag	One-word description of the result of the ics_ap_initiate request. See "Reply Flags," page 24 .	Initiate Payment	String (50)
ap_initiate_rmsg	Message explaining the reply code ap_initiate_rflag .	Initiate Payment	String (255)
ap_initiate_trans_ref_no	Reference number for the transaction. For more information about tracking orders, see Getting Started with CyberSource Advanced for the SCMP API .	Initiate Payment	String (50)
ap_refund_amount	The refund amount.	Refund	Decimal (15)
ap_refund_date_time	Local date and time of the refund. Format: YYYY-MM-DDThhmssZ, where: <ul style="list-style-type: none">■ T separates the date and the time.■ Z indicates Coordinated Universal Time (UTC), which is also known as Greenwich Mean Time	Refund	Date and Time (14)
ap_refund_processor_transaction_id	KCP-generated transaction ID number.	Refund	String (14)

Table 5 Reply Fields for the SCMP API (Continued)

Field Name	Description	Returned By	Data Type & Length
ap_refund_rcode	One-digit code that indicates whether the refund request was successful. Possible values: <ul style="list-style-type: none">■ -1: An error occurred■ 0: The request was declined■ 1: The request was successful	Refund	Integer (1)
ap_refund_rflag	One-word description of the result of the refund request. See " Reply Flags ," page 24.	Refund	String (50)
ap_refund_rmsg	Message explaining the reply code.	Refund	String (255)
ics_rcode	Indicates whether the service request was successful. Possible values: <ul style="list-style-type: none">■ -1: An error occurred.■ 0: The request was declined.■ 1: The request was successful.	Initiate Payment Check Status Refund	Integer (1)
ics_rflag	One-word description of the result of the request. See " Reply Flags ," page 24.	Initiate Payment Check Status Refund	String (50)
ics_rmsg	Message that explains the reply flag ics_rflag . Do not display this message to the customer, and do not use this field to write an error handler.	Initiate Payment Check Status Refund	String (255)
merchant_ref_number	Merchant-generated order reference or tracking number. CyberSource recommends that you send a unique value for each transaction so that you can perform meaningful searches for the transaction. For more information about tracking orders, see Getting Started with CyberSource Advanced for the SCMP API .	Initiate Payment Check Status Refund	String (50)
request_id	Identifier for the request.	Initiate Payment Check Status Refund	String (32)

Reply Flags

The following table describes the reply flags that are associated with a request.

Table 6 Reply Flags

Reply Flag	Description
DMISSINGFIELD	The request is missing a required field.
DINVALIDDATA	Data provided is not consistent with the request.
ESYSTEM	System error. You must design your transaction management system to include a way to correctly handle CyberSource system errors. CyberSource recommends that you do not design your system to endlessly retry sending a transaction when a system error occurs. For information about handling system errors and retries, see the documentation for the CyberSource client that you are using.
SOK	Transaction was successful.

Examples

Initiate Payment Example

Example Initiate Payment Request

```
ics_applications=ics_ap_initiate
ap_initiate_escrow_agreement=N
ap_initiate_language_interface=EN
ap_initiate_product_name=Television
ap_payment_type=ACC
currency=KRW
customer_email=jsmith@example.com
customer_firstname=John
customer_lastname=Smith
customer_phone=923123456
grand_total_amount=1004
installment_frequency=0
merchant_id=test_merchantID
merchant_ref_number=demo_merchant
```

Example Initiate Payment Reply

```

merchantReferenceCode=demo_merchant
requestID=3771837213330181553725
decision=ACCEPT
reasonCode=100
apInitiateReply_reasonCode=100
apInitiateReply_merchantURL=https://testpay.kcp.co.kr/Pay/module/cyberSource/KCP\_Gateway.jsp?encrypted
data=QSOopVITlwi6MIZshfzt2KIgoEckdwS%2FzFWmpYy0SLztaG%2FQDG0vCq2d98SbuZp%0D%0AI74o
4GKtR0sAVtr%2Fkdq1%2FfBlyh89KG3WupixaM09wy98BSAOXxau4hv6gn4FMRF%0D%0AludYnfKPgP
2Jr8Kav7gNUodRA0Ul8o1R3WgX1udjDvyIHhOfDjkPSaXjFx4wHv%0D%0AfxGqH9LBihw4mNI3fNm6rl
F5ndKC2TLAwW%2B3njzB1SXG9sOvtT3ZBN0srNc8uxkd%0D%0AS06j74RhdrA95z74VlcvRh5N%2BARIQj
y%2FNex0SBtBEjH4Rt9WaHdbkNhreqQauq7E%0D%0AB5GA7cPaBly52kXCr6pqyHGcFvRW9rDT69jlq%2
BYaxxjTCe8qLyjXKyiltyi46K3j%0D%0ATR7wQFmccptvxgc0EPCCCTQu6XFeKxSBVh%2BjVXyMxsn%2FgUd
b1DbLlmyqJXnT3aXw%0D%0ANkHST0GedE05CjCv55opLAds5T3ZhPM6EtfnWUiyVRC3BCzskWtbLuqAlZe
tA%2B4R%0D%0AywlK80y5LjlvkVlqAFTCx1Nm5bvqcBce6qPYP%2FMKGcPcb5qVpTujXV7CCqS1y7nz%0
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S9MS0Xa7YKMcoziTEH8yv2cckpvFrIgEISdqIvLbnE3P6cxV%0D%0ApDUQleWuPoNjG8RdDpJx1ztb2XetB
D9Y68Lfq4nPdw7MdWA6C%2BT%2BFoCPPDhzKxe%0D%0ATLhko07GGIE030qvqhE5eJnB5rZm9JGiit
WUbaMYwDtdP85YGxixjAU8XtWiin%0D%0ASbziau8m0vMUB4hVKvnHdrCgY1Grzngjz3iCqxDmsFeaT
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HYmLxzEyxsAt%0D%0A0sRohXGxqpY1qdh6y3YxtFGo7JifeOOZzFDcns%2B%2FTPp79WoR%2FQAhtm4A
gcDZ16Zl%0D%0A6kre2VYkOuNhuLmTc7QaZxtoyMN5kbty%2FkQusaYYSmEwiQb%2BhFaHUWz8tHGQ
T%2Bb9%0D%0ALY5ScYSAt0imp7osWcQFa4DwETtBMMUqghix1zVDFxIMZmOyPsAdovnsX3wGnNw%2B
B%0D%0AvvHjnHhR9q7T4MTlm%2FYYA9qY18%2F%2FSvL%2BGXBdVZJbb8S%2BwpL7PP08mDVnSD9yl
1jk%0D%0ABQ53PE%2B1hwRbo6v4gDAK%2Bse049dscasIn8T2natsDG5LaL%2FW3ZrfNEmnhCgK2Apg%
OD%0At01RH9zRB5%2Fo89c6z3CM0lc9zPiq4eW0%2Flirjc0j8xgMjadSvTjOCrobENKebCAM%0D%0A8gJl
%2FE89z0NZclBQ5WhFxeS8iHO%2Btpu54IB0T9g5n5ELTiA92pbCRIAA%2FHScwPlc%0D%0A1Plegfh9XaX
mplZQanTWDg1u6qBjI9ZZGXyg82emcqghFV5atSmMTZC9S26XOQO%2B%0D%0AGqs8a27q3Xi6PvJQpkI
W10kaF10w388NkYH0IH0%3D
apInitiateReply_reconciliationID=ca308be3db8742ba9daef4326f21a511

```

Check Status Example

Example Check Status Request

```
ics_applications=ics_ap_check_status
ap_initiate_request_id=3777021638340181553435
ap_payment_type=ACC
merchant_id=test_merchantID
merchant_ref_number=demo_merchant
```

Example Check Status Reply

```
ap_check_status_payment_status=COMPLETED
ap_check_status_processor_transaction_id=20130530123456
ap_check_status_rcode=1
ap_check_status_rflag=SOK
ap_check_status_rmsg=Request was processed successfully.
ap_check_status_trans_ref_no=123456789
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
merchant_ref_number=demo_merchant
request_id=3777021639390181553435
```

Refund Example

Example Refund Request

```
ics_applications=ics_ap_refund
ap_initiate_request_id=3777021867420181553435
ap_payment_type=ACC
ap_refund_reason=Damaged product.
currency=KRW
grand_total_amount=1004
merchant_id=test_merchantID
merchant_ref_number=demo_merchant
```

Example Refund Reply

```
ap_refund_amount=1004
ap_refund_date_time=2013-08-28T150307Z
ap_refund_processor_transaction_id=20130530123456
ap_refund_rcode=1
ap_refund_rflag=SOK
ap_refund_rmsg=Request was processed successfully.
ap_refund_reason=Damaged product.
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
merchant_ref_number=demo_merchant
request_id=3777021869440181553435
```
