

IBM WebSphere Commerce Payments for
Multiplatforms



Cassette for SET: Japanese Payment Option Installation and Configuration

Version 3.1

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Multiplatforms



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Note

Before using this information and the product it supports, be sure to read the general information under Appendix D, "Notices" on page 67.

Third Edition (July 2002)

This edition applies to IBM WebSphere Commerce Payments for Multiplatforms, Japanese Payment Option feature and to all subsequent releases and modifications until otherwise indicated in new editions. Make sure you are using the correct edition for the level of your product.

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Chapter 1. Overview of the Japanese Payment Option

This chapter provides an overview of the following:

- What the Japanese Payment Option (JPO) is
- How to configure Japanese Payment Option
- How the Japanese Payment Option works

Note: IBM® WebSphere® Commerce Payments for Multiplatforms (hereafter called WebSphere Commerce Payments) was previously known as IBM WebSphere Payment Manager for Multiplatforms. Starting with version 3.1.3, the payments application was renamed to WebSphere Commerce Payments and references to the product were changed throughout this document. References to the former product may still appear in this document and apply to earlier releases of the product.

What is the Japanese Payment Option?

The Japanese Payment Option Extension is an extension to the Secure Electronic Transaction (SET™) protocol that supports a variety of payment options that are available at the point of sale in Japan. The SET protocol is used differently in Japan by cardholders, merchants, and financial institutions.

The IBM WebSphere Commerce Payments SET Japanese Payment Option supports Japanese unique payment methods, such as bonus 1 time payment, bonus several times payment, bonus and installment integrated payment, installment payment, and revolving payment.

With this extended function, customers can select various payment methods that are popular in Japan. Supporting various payment methods in online shopping adds value to online stores.

All of the payment option information selected by the cardholder will be sent to WebSphere Commerce Payments from the Electronic Wallet, and to the Payment Gateway from WebSphere Commerce Payments. The Payment Gateway will process payments using the payment option information selected. This will make the Japanese-unique Payment method available over the e-commerce system using SET.

The WebSphere Commerce Payments SET Japanese Payment Option is included in the WebSphere Commerce Payments Japanese feature. After WebSphere Commerce Payments is installed, the function is available.

Configuration of the Japanese Payment Option

To use the Japanese Payment Option with an e-commerce system using WebSphere Commerce Payments, you must have the following components/configurations to expand the functionality of base WebSphere Commerce Payments:

- **WebSphere Commerce Payments SET Japanese Payment Option Extension**

This is the additional module needed to support the Japanese Payment Option for WebSphere Commerce Payments. This module handles Japanese Payment

Option information in the transaction between the Wallet and WebSphere Commerce Payments, and between WebSphere Commerce Payments and the Payment Gateway.

- **Japanese Payment Option user interface (UI) for configuration and management**

This is a user interface to configure and manage the Japanese Payment Option. A system administrator must configure JPO using this UI before utilizing JPO.

- **Japanese Payment Option configuration database table**

This table contains information about the JPO configuration.

- **Japanese Payment Option transaction database table**

This table contains information about order transactions related to JPO.

- **Documents for Japanese Payment Option**

Documents for JPO are available in PDF format.

- **Electronic Wallet with JPO Extension (additional package)**

To use JPO, the Electronic Wallet and Acquirer Gateway must be enabled for the JPO extension. If the Wallet does not have the capability of handling JPO, then customers cannot select the payment options unique to Japan.

The IBM Consumer Wallet (Japanese version) is a JPO-enabled wallet.

Operation of the Japanese Payment Option

The Japanese Payment Option uses the following unique information:

Payment Option

The Payment Option will be negotiated between WebSphere Commerce Payments and the customer. WebSphere Commerce Payments stores all the terms and conditions of available payment options in the database. This information is defined by the contract between the merchant and the card issuer, and is provided by SECE CSV file format (shown later).

Sales Slip Code

A 5-digit sales slip code could be assigned to each order using the Japanese Payment Option. WebSphere Commerce Payments can pass the sales slip code specified by the merchant. If the merchant does not specify the code, the last 5 digits of the order number generated by WebSphere Commerce Payments are used. This sales slip code is passed to the Electronic Wallet and Payment Gateway and is used to identify the order after the purchase.

Goods code

A 3-digit goods code can be assigned to each order using the Japanese Payment Option. WebSphere Commerce Payments can pass the goods code specified by the merchant. If the merchant does not specify the code, the default goods code specified in the ETEXTENSIONCFG database table is used. This goods code is passed to the Electronic Wallet and Payment Gateway as well as the sales slip code.

The following information will be used to select the payment option and acquirer:

BIN BIN is the first 6 digits of the card number.

Promotional Card Name

The certificate includes an optional field which may contain the promotional card name. The promotional card name is used to identify affinity programs. The cardholder can find the promotional card name using the Electronic Wallet.

WebSphere Commerce Payments uses this information to determine the payment options (unique ContractID assigned) and acquirer (unique AccountNumber assigned).

The Japanese Payment Option requires two types of CSV files to store information about the payment option and acquirer in the database. Details about the CSV file are shown in Chapter 9, “SECE CSV file definition” on page 35.

The next figure shows the process flow of the Japanese Payment Option, followed by a description of each action.

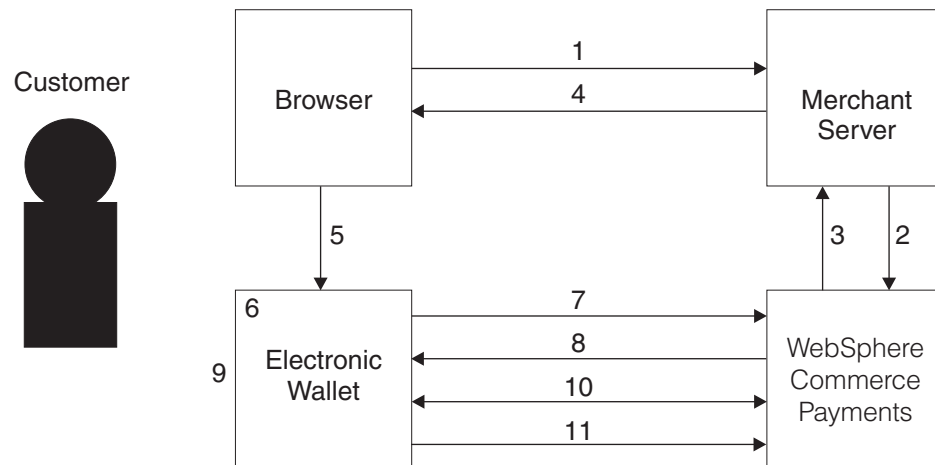


Figure 1. JPO process flow

1. When the customer clicks the "PAY" button from the browser at the end of online shopping, payment initiation is requested to the merchant server.
2. The merchant server sends the purchase information to WebSphere Commerce Payments using a private API.
3. WebSphere Commerce Payments generates a "Payment Initiation" message from the information passed from the merchant server, and sends it back to the merchant server. If the Japanese Payment Option is available for the purchase, WebSphere Commerce Payments adds information in the message indicating that the system can accept JPO.
4. The merchant server sends the "Payment Initiation" message received from WebSphere Commerce Payments to the customer's browser.
5. The browser starts the Electronic Wallet and passes the "Payment Initiation" message to it.
6. The Electronic Wallet checks the content of the "Payment Initiation" message to determine whether WebSphere Commerce Payments supports JPO.
7. The customer selects the card to use and clicks the "OK" button. If both the Electronic Wallet and WebSphere Commerce Payments support JPO, the Electronic Wallet sends the "Payment Initiation Response" message to WebSphere Commerce Payments to request the list of Japanese payment methods available. BIN and promotional card name are sent in this message.
8. WebSphere Commerce Payments checks the purchase information, BIN, and promotional card name of the card used for payment. If a Japanese payment method is available, WebSphere Commerce Payments sends the second "Payment Initiation" message to the Electronic Wallet including a list of the payment methods available for the purchase.

9. The Electronic Wallet shows the "Japanese Payment method selection list" panel from the payment method list included in the second "Payment Initiation" message received from WebSphere Commerce Payments. The customer must select the payment method from the list.
10. After the customer selects the desired payment method, a "Payment Initiation" message and "Payment Initiation Response" message will be passed between the Electronic Wallet and WebSphere Commerce Payments several times to obtain complete information for each payment method.
11. After confirmation of the payment method, the Electronic Wallet sends a "PinitReq" message to WebSphere Commerce Payments. After this message, the purchase process is the same as a purchase without JPO.

Chapter 2. Installation and configuration task list

The following list shows the installation and configuration tasks associated with the Japanese Payment Option for WebSphere Commerce Payments. Follow each instruction listed:

1. All of the Japanese Payment Option related files are installed when the Japanese feature of the Cassette for SET is installed. Please refer to the *Cassette for SET Supplement* for installing the Cassette for SET.
2. To migrate from a previous version, see Chapter 3, “Migrating from earlier versions” on page 7.
3. Before starting WebSphere Commerce Payments to use the SET Japanese Payment Option, see “Starting WebSphere Commerce Payments” on page 9.
4. Set the negotiation port. See “Basic configuration screen” on page 12.
5. Set the default goods code. See “Basic configuration screen” on page 12.
6. Use the MAT SECE file to configure the Acquirer Choose Table. To configure the Acquirer, see “Using the MAT CSV file screen” on page 14. For details about the MAT SECE file, see “Multiple Acquirer table of SECE” on page 35.
7. Set the Acquirer information such as the the JPO flag and Intra-Country Data flag. For details, see “JPO multi-acquirer table information screen” on page 13.
8. Set the default acquirer for each brand. For details, see “JPO multi-acquirer table information screen” on page 13.
9. Configure the Payment Option Table by using the SECE POT file. To configure the Payment Option Table, see “Using POT CSV files screen” on page 16. For the POT SECE file, see “Payment Option Table of SECE” on page 37.
10. Enable JPO Status to load JPO modules when restarting WebSphere Commerce Payments. For details, see “Basic configuration screen” on page 12.

Chapter 3. Migrating from earlier versions

This section describes how to migrate from earlier versions of WebSphere Commerce Payments. If there is no need for migration, skip this section.

Migrating from WebSphere Payment Manager Version 2.2.x

There are no database changes for JPO between Version 2.1 and Version 3.1. After installing the Cassette for SET Version 3.1, migration of JPO will be completed.

For more details about migrating the Cassette for SET, see the installation section in the *Cassette for SET Supplement*.

Chapter 4. Installation

This section describes the preparation work to be done before using the Japanese Payment Option.

Preparation

Check the following items before using the Japanese Payment Option.

Prepare one unused TCP/IP port that could be used for the WebSphere Commerce Payments machine. The installer will use 8455 as default value for this port number.

Installation procedure

JPO-related files are all installed when the Japanese version of the Cassette for SET is installed. For details about installation of the Cassette for Set, see the installation section of the *Cassette for SET Supplement*.

Starting WebSphere Commerce Payments

Starting and stopping a JPO-configured WebSphere Commerce Payments is the same as for a non-JPO WebSphere Commerce Payments.

Refer to the *IBM WebSphere Commerce Payments Installation Guide* for more information.

Note: Basically, you can use the start script (<installed directory>\IBMPayServer) to start WebSphere Commerce Payments. If you want to start this script from another directory, you may need to add <installed directory> to the CLASSPATH in the script. In this case, please edit the script to change the CLASSPATH.

Uninstallation

The Japanese Payment Option can be installed and uninstalled with the Cassette for SET.

Note: In the "Basic Configuration" of the user interface, there is a function to disable JPO. This function will disable JPO when you start WebSphere Commerce Payments but will not delete the JPO-related files from the machine. Unless you have special concerns about JPO files, using this function instead of uninstalling is recommended. For details about this function, see "Basic configuration screen" on page 12.

For information about uninstalling the Cassette for SET, see the *Cassette for SET Supplement*.

Chapter 5. JPO configuration user interface usage

One of the additional functions of the Japanese Payment Option is the JPO configuration user interface. In the main menu of this user interface, the following items are included:

- Basic Configuration
- JPO Multi-Acquirer Table Information
- Using MAT CSV file
- Using POT CSV file

This section describes the usage and results of each function listed above.

Notes:

1. MAT stands for Multiple Acquirer Table. POT stands for Payment Option Table.
2. WebSphere Commerce Payments user roles and functions: In WebSphere Commerce Payments, four roles can be assigned to users: Payments Administrator, Merchant Administrator, Supervisor, and Clerk. For more information on defining WebSphere Commerce Payments users in the WebSphere Application Server configuration, see "Defining WebSphere Commerce Payments Users" in the *IBM WebSphere Commerce Payments Administrator's Guide*.

The JPO configuration user interface will show the menu by the roles of users who are logged in to WebSphere Commerce Payments. Available functions for each role are shown in Table 1.

Table 1. User role and UI page

| User role | Usable UI page |
|------------------------|--|
| Payments Administrator | Basic Configuration |
| Merchant Administrator | JPO Multi-Acquirer Table Information Using MAT CSV files Using POT CSV files |
| Supervisor Clerk | Cannot use any of the Configuration and Management UI pages |

Preparation

Collect the following information from the merchant acquirer and system administrator to configure WebSphere Commerce Payments:

1. **Name of WebSphere Commerce Payments:** This name should be the same name as the database instance name, which holds WebSphere Commerce Payments tables.
2. **Merchant name:** Merchant name that JPO is to be configured with. This merchant should be registered in WebSphere Commerce Payments prior to configuring JPO.
3. **Terms and conditions of contract between acquirer and merchant:** The conditions of supported payment methods differ by each contract between

acquirer and merchant. The acquirer should provide this information as a POT CSV file in Japan. If necessary, see Chapter 9, "SECE CSV file definition" on page 35 to create the POT file.

4. **List of supported range of card's BIN and promotional card name:** The supported range of card's BIN and promotional card name differs by each contract between acquirer and merchant. The acquirer must provide this information as a MAT CSV file. If necessary, see Chapter 9, "SECE CSV file definition" on page 35 to create the POT file.

JPO configuration

To display the JPO configuration user interface, use the link in the WebSphere Commerce Payments user interface. The link exists in the "Merchant Cassette Settings" page, inside the description of SET.

JPO configuration main menu

Each screen can be called from this page.

WebSphere Commerce Payments JPO logon screen

This page is displayed when a re-logon is needed, such as when a timeout occurs.

User ID

Specify the user ID you want to use to log on. The user ID must be assigned to a certain role in WebSphere Commerce Payments.

Password

Specify the password related to the user ID specified above. This password can be changed from IBM WebSphere Application Server. See the online help for WebSphere Application Server for more information.

Basic configuration screen

This screen is shown when a user with the WebSphere Commerce Payments administrator role logs on. When you click the link in the navigation pane, the Basic Configuration page is displayed where you can change the negotiation port, default goods code, and JPO status. The settings are related to the NegotiationPort field of the ETJPOCONFIG table, the ExtensionData field of the ETEXTENSIONCFG table, and the Active field of the ETEXTENSIONCFG table, respectively.

Negotiation Port

Specify the TCP/IP port number prepared for JPO. Refer to the section "Preparation" on page 11. After the installation, the default value is set to 8455.

Default Goods Code

The 3-digit goods code can be added to the order using JPO. WebSphere Commerce Payments accepts the goods code specified by the merchant, but it can also set the default value for the merchant. If the merchant does not specify the goods code, this default value will be used. For details about the goods code, ask each acquirer. The default value is set to 123.

"Update" button

After you specify the negotiation port and/or the default goods code, you must click the "Update" button to apply the change to the database.

1. Enter the new value for the negotiation port and/or the default goods code.
2. Click the "Update" button.
3. Verify the updated information shown.

Status of JPO

This status shows whether JPO is enabled or disabled. When it is shown as enabled, the JPO function can be used. If it is shown as disabled, the JPO function cannot be used. To change the status, see the "Enable JPO" button and "Disable JPO" button sections that follow. After you change this status, you must restart WebSphere Commerce Payments for the change to take effect.

"Disable JPO" button

The "Disable JPO" button is displayed when the current status of JPO is "enabled". The value of the "Active" field in the ETEXTENSIONCFG table is set to "1" when JPO is enabled. Click this button to disable JPO.

1. Confirm that the status of JPO shows "enabled".
2. Click the "Disable JPO" button.
3. Confirm that the status of JPO has changed to "disabled".
4. Restart WebSphere Commerce Payments.

"Enable JPO" button

The "Enable JPO" button is displayed when the current status of JPO is "disabled". The value of the "Active" field in ETEXTENSIONCFG table is set to "0" when JPO is disabled. Click this button to enable JPO.

1. Confirm that the status of JPO shows "disabled".
2. Click the "Enable JPO" button.
3. Confirm that the status of JPO has changed to "enabled".
4. Restart WebSphere Commerce Payments.

JPO multi-acquirer table information screen

This screen is displayed when a user logs on with a role of merchant administrator.

Click "JPO Multi-Acquirer table information" from the main menu. In this page, acquirer information registered in the ETCHOOSEACQCFG database table is displayed.

The following actions could be taken on this screen.

1. Update acquirer information

You can set options as to whether to use the JPO extension and/or the Intra-Country Data extension of SET in the message to the acquirer. This information is related to the configuration of each acquirer. The acquirer must provide information about their support. The value will be stored in the "OptionID" field of the ETCHOOSEACQCFG table in the database.

2. Update default acquirer for brand

When multiple acquirers are configured for one brand, a default AccountNumber **must be** defined for that brand.

Importing the MAT CSV file will configure the JPO Multi-Acquirer table. For details, see "Using the MAT CSV file screen". After you import the MAT file, the JPO and Intra-Country Data Extension for each acquirer are all enabled. If you need to change these values, use the "Update Acquirer Information" function.

If you set the default account number, one record will be created in the database. This default account number record contains 0 for the CardHolderBinFrom and CardHolderBinTo field and "\$NONE-PCN\$" for the PromCardName field.

"Update Acquirer Information" button

If the ETCHOOSEACQCFG table has no records, this button will do nothing. You must create a record by importing the MAT CSV file before using this function.

1. Change the check box value of the JPO flag and/or Intra-Country Data flag to the appropriate value. Note: A check mark means "enabled".
2. Click the "Update Acquirer Information" button.
3. Verify the updated information.

"Update the default Acquirer" button

This function also does nothing when there is no record in the ETCHOOSEACQCFG table. This is needed when more than one acquirer is defined for one brand.

1. Select the AccountNumber from the list box next to each brand for which you want to set the default AccountNumber. The selection list is created from the entry in the ETBrandCFG table.
2. Click the "Update the default Acquirer" button.
3. Verify the updated information.
4. A default acquirer must be set for every brand defined for the merchant. Repeat steps 1 to 3 for each brand.

Using the MAT CSV file screen

This screen is displayed when a user logs on with the merchant administration role.

From the main menu, click the "Using MAT CSV file" link. On the "Using MAT CSV file" page, you can configure the ETCHOOSEACQCFG table using the MAT file. Header information in the MAT file will be logged in the ETJPOUPDATES table whenever the import/import cancel function is used. This user interface only supports the import function of the CSV file defined by SECE. The data must be prepared as a MAT CSV file that follows the SECE-defined format. For details about a file, see Chapter 9, "SECE CSV file definition" on page 35.

In the SECE Multiple Acquirer Table, some information refers to the configuration data in ETACQCFG and ETBRANDCFG. These databases must be configured prior to importing the MAT file. To configure these tables, use the WebSphere Commerce Payments user interface. Refer to the *WebSphere Commerce Payments Administrator's Guide* for details.

The MAT file must be copied to a predefined folder (directory) to be imported. In WebSphere Commerce Payments, the JPO configuration user interface controls the MAT files by placing them in a different folder by each merchant. This folder differs by platform as follows:

[AS/400®]

/QIBM/UserData/PymSvr/<Instance Name>/jpo/<Merchant Name>/MAT/

[AIX®]

<Installed Directory>/jpo/<Merchant Name>/MAT/

[Windows NT®, Windows® 2000]

<Installed Directory>\jpo\<Merchant Name>\MAT\

This directory is called "MAT folder" hereafter.

For example, if the installed directory is "/usr/lpp/Payments", and the merchant name is "123456789", the MAT folder for AIX will look like following:

[MAT folder]

/usr/lpp/Payments/jpo/123456789/MAT/

Notes:

1. After installation, the MAT folder is not created. You must create a MAT folder for each platform yourself. See the previous examples to create the MAT folder and copy the MAT file.
2. If there is a problem in the header information of the MAT file, the file will not be shown in the user interface even if the file exists in the folder. In this case, check the contents of the MAT file.
3. After using the MAT CSV file, you must restart WebSphere Commerce Payments to reflect the change.

In the "Using MAT CSV file" screen, all the MAT files under "MAT folder" will be searched and categorized into two types by their update type. Among the type, imported or not yet applied are checked and indicated by the status key icon.

"Import MAT" button

This function imports the MAT file with update type 1.

1. Copy the MAT file to a "MAT folder" with update type 1.
2. Click "Using MAT CSV file" from the JPO Configuration main menu.
3. On the "Using MAT CSV file" page, check the icon of the MAT CSV file copied in step 1 to see if the file is not imported. Click the checkbox at the left of the file you want to import.

Note: The icon at left of each record indicates the status.

4. Click the "Import MAT" button.
5. Check that the status of the file changed to "Imported".

Note: When you import a MAT file with update type 1, a default acquirer for each brand will be assigned if not yet set. Verify that the default setting is correct. If you need to change the default acquirer for the brand, see "JPO multi-acquirer table information screen" on page 13.

"Cancel imported MAT" button

You can remove the settings imported by a MAT file with update type 1.

1. Click "Using MAT CSV file" from the JPO Configuration main menu.
2. On the "Using MAT CSV file" page, check the icon of the MAT CSV file for which you want to cancel import. It should indicate that the file is imported. Click the checkbox at the left of the file you want to cancel import.
Note: The icon at left of each record indicates the status.
3. Click the "Cancel imported MAT" button.
4. Check the updated status of the file.

Note: If you lost the MAT file you have imported, you cannot "Cancel imported MAT". In this case, you must prepare the MAT file including the record you want to delete. Or, you must use the database command to delete the records directly from the database table.

The following example shows how to use database commands to delete all the MAT records. It assumes you are using DB2® for the database. If you are using another database program, check your database manual for the appropriate commands.

Example:

1. Log on with the WebSphere Commerce Payments database owner user ID.
2. Connect to the WebSphere Commerce Payments database (e.g., ETILL): **db2 connect to ETILL**
3. Delete records in the ETCHOOSEACQCFG table:
db2 delete from etchooseacqcfg where merchantname='Merchant Name'

"Apply MAT CSV for delete" button

You can delete a MAT record by importing MAT file with update type 9.

The "Cancel imported MAT" function deletes records imported by a MAT file with update type 1. The "Apply MAT CSV for delete" function deletes records written in the MAT file with update type 9. If the record to delete does not exist in the table, the record will be ignored.

1. Copy the MAT file with update type 9 to the "MAT Folder".
2. Click "Using MAT CSV file" from the JPO Configuration main menu.
3. On the "Using MAT CSV file" page, check the icon of MAT CSV file copied in instruction 1 to see if it indicates that the file is not imported. Click the checkbox at the left of the file you want to import.

Note: The icon at the left of each record indicates the status. The icon differs from the one used for "Import MAT".

4. Click the "Apply MAT CSV for delete" button.
5. Check the status of the file you have imported.

Using POT CSV files screen

This screen is displayed when a user logs on with the merchant administration role.

From the JPO Configuration main menu, click "Using POT CSV files" to display this screen. The functions in this screen will configure ETJPOTRCOND and ETJPOCOND database tables. The header information of the CSV files applied will be stored in the ETJPOUPDATES table. This user interface only supports the import function of the CSV file defined by SECE. The data must be prepared as a

POT CSV file that follows the SECE defined format. For details about this file, see Chapter 9, "SECE CSV file definition" on page 35.

When importing a POT file, WebSphere Commerce Payments does the following:

1. It writes the data to the ETJPOTRCOND table.

The ContractID field will be set as "MerchantName::TableName".

MerchantName is the current merchant name and TableName is the name used in the POT file.

Note: Data will not be written to the ETJPOTRCOND table in following cases:

- Illegal data is found in the POT file. The import program will parse the data and do syntax checking.
 - Data with the same contractID already exists in the database. The ContractID is created by merchant name and the table name. The same merchant with the same table name should exist once. If you want to overwrite the current setting, you should "Cancel imported POT" before importing the new file.
2. It converts the data in ETJPOTRCOND to ETJPOCOND. This table holds the selection list used the first time JPO is negotiated. This conversion is needed to merge data by combining options available for each period of time. The following are the basic rules used:
 - For payment methods "bonus payment" and "multiple bonus payment," merge data based on valid period.
 - For payment methods "integrated payment" and "installment," check the least total amount.
 - Check the invalid data when merging several records.
 3. After the conversion, it writes the header information of the POT CSV file in the ETJPOUPDATES table.

If any error/invalid record is found in the POT file during the conversion, all of the records that match the contractID (MerchantName::TableName) in both the ETJPOTRCOND and ETJPOCOND tables are deleted.

The POT file must be copied to a predefined folder (directory) to be imported. In WebSphere Commerce Payments, the JPO Configuration user interface controls the POT files by placing them in a different folder by each merchant. This folder differs as follows:

[AS/400]

/QIBM/UserData/PymSvr/<Instance Name>/jpo/<MerchantName>/POT/

[AIX]

< Installed Directory >/jpo/<MerchantName>/POT/

[Windows NT, Windows 2000]

< Installed Directory >\jpo\<MerchantName>\POT\

This directory is called "POT folder" hereafter.

For example, if the installed directory is "/usr/lpp/Payments", and the MerchantName is "123456789", a POT folder for AIX will display as follows:

[POT Folder]

/usr/lpp/Payments/jpo/123456789/POT/

Notes:

1. After installation, this POT folder will not be created. You must create this POT folder for each platform yourself. See the previous examples and create the POT folder and copy the POT file.
2. If there is a problem in the header information of the POT file, the file will not be shown in the user interface page even if the file exists in the folder. In this case, check the contents of the POT file.

"Import POT CSV file" button

This function imports the POT file selected.

1. Copy the POT file to the "POT Folder".
2. Click "Using POT CSV files" from the JPO Configuration main menu.
3. In "Using POT CSV files" screen, check the icon of the POT CSV file copied in step 1 to see if it indicates that the file is not imported. Click the checkbox at the left of the file you want to import.

Note: The icon shown at the left side of the record shows the status of each file.

4. Click the "Import POT CSV file" button.
5. Check to see that the status of the file changed to "Imported" by looking at the icon.

"Cancel imported POT" button

This function removes the records with the same contractID from the ETJPOTRCOND and ETJPOCOND tables.

1. Click "Using POT CSV files" from the JPO Configuration main menu.
2. On the "Using POT CSV files" screen, check that the current status of the file you want to delete is indicated as imported. Click the checkbox at the left of the file you want to delete.

Note: The icon shown at the left side of the record shows the status of each file.

3. Click the "Cancel imported POT" button.
4. Check to see that the status of the file changed to "Not imported" by looking at the icon.

On the "Using POT CSV files" screen, all of the POT files under "POT folder" are listed. The icon indicates whether the file is imported.

Note: If you lost the POT file you have imported, you cannot "Cancel imported POT". In this case, you must prepare the POT file with the same TableName and other header information. Or, you must use the database command to delete the records directly from the database table.

The following example shows how to use database commands to delete all the POT records. It assumes you are using DB2 for the database. If you are using another database program, check your database manual for the appropriate commands.

1. Log on as database administrator.
2. Connect to the WebSphere Commerce Payments database, such as ETILL.
3. Delete the Payment Method Configuration table (ETJPOTRCOND):
**db2 delete from etjpotrcond where ContractID='MerchantName::Tablename
in POT file'**
4. Delete the converted table (ETJPOCOND):
**db2 delete from etjpocond where ContractID='MerchantName::Tablename
in POT file'**

Chapter 6. Database table configuration for the Japanese Payment Option

This section describes the database tables in the Japanese Payment Option.

Configuration items for the Japanese Payment Option

To enable JPO, you must configure the items shown.

Table 2. Configuration items and database tables for Japanese Payment Option

| Configuration item | Table name | Description |
|------------------------------|----------------|--|
| Basic configuration | ETEXTENSIONCFG | This table defines the extensions of SET and JPO is one of them. This is configured at installation. Some of the fields in this table can be changed from the JPO Configuration user interface. |
| Choose Acquirer information | ETCHOOSEACQCFG | The combination of merchant name, BIN number of card, and promotional card name is the information needed to decide which acquirer to use. This table holds all the information needed to select the acquirer. Before configuring this table, the acquirer and brand used in the data must be configured. |
| Payment method and condition | ETJPOTRCOND | This table holds selectable payment methods and related information. During execution, this table and the ETJPOCOND table are used. |
| | ETJPOCOND | This table will be created from the ETJPOTRCOND table. Information needed to select the payment method is taken from the ETJPOTRCOND table. |
| JPO unique setting | ETJPOCONFIG | Port number used for negotiation |

Support for multi-acquirer for single brand

Using the Japanese Payment Option, you can configure multiple acquirers with the same brand.

1 Merchant—1 Brand—Multi-Acquirer

WebSphere Commerce Payments can select the acquirer from the BIN of the card and promotional card name, even when the brand name is the same. Things you need to consider when configuring several accounts to the merchant with same brand follow:

- When you create a brand under an account, there are two fields that are both related to brand name: "Brand Name" and "Certificate ID". You must make the "Brand Name" unique for each account, and use an exact brand ID in the certificate for "Certificate ID".

For example, When MerchantName=123456789 and Certificate ID is ibmtest for two accounts, 111111111 and 222222222, the combination of merchant, account, Brand Name, and Certificate ID should look like the following:

| Merchant Name | Account | Brand Name | Certificate ID |
|---------------|-----------|------------|----------------|
| 123456789 | 111111111 | Brand1 | ibmtest |
| 123456789 | 222222222 | Brand2 | ibmtest |

- There is a checkbox for "Wallet purchases" in the brand configuration screen. If this brand is selectable from the wallet, this checkbox must be checked. However, when you check this checkbox for the second brand definition for the same merchant, you will receive an error message indicating it is already set to purchase from the wallet. Only one check is needed for one brand per each merchant. If you receive this error message, ignore it by not checking the field.

Setting default acquirer

Without JPO, there is no mechanism to choose an account for one brand. WebSphere Commerce Payments assumes that there is one account for one brand. After installing JPO, the account will be selected from the card BIN and promotional card name. WebSphere Commerce Payments holds the range of BIN and promotional card name information to determine which account to use, but if the BIN and promotional card name passed do not match any of the records, WebSphere Commerce Payments must use the default account setting to decide which account to use. The JPO Configuration user interface enables you to set the default account by each brand for the merchant.

Notes:

1. The combination of range of card BIN and promotional card name must *not* overlap with another combination.
2. You can limit the purchase to the owner of credit cards with certain promotional card names when the merchant specifies the supported promotional card name. When this function is used, the entire range of BIN the promotional card may have must be configured in the ETCHOOSEACQ table.

Generally, it is assumed that all available ranges of BIN are registered in the MAT file. It is also assumed that no certificate with the promotional card name is issued out of those ranges.

This assumption rarely causes problems when a purchase request comes from a cardholder with the promotional card name and BIN not registered in the MAT file. In this case, it is better to report an error, but WebSphere Commerce Payments will select the default account for the brand and no error will be reported. The merchant administrator must maintain the ETCHOOSEACQ table to keep the latest combination of promotional card name and range of BIN.

Setting configuration items for the Japanese Payment Option

To configure the Japanese Payment Option database, use the JPO Configuration user interface. See Chapter 5, "JPO configuration user interface usage" on page 11 for details.

Field names and descriptions of the database tables follow:

Basic configuration (ETEXTENSIONCFG)

This table is configured at installation. After installation, you can change the default goods code (ExtensionData field) and JPO status (Active field) through the JPO Configuration user interface.

Table 3. ETEXTENSIONCFG table

| Field name | Data type | Description | Mandatory |
|---------------|----------------------|---|-----------|
| ExtensionName | VARCHAR(20) NOT NULL | Extension name. "jpo" for JPO Extension. Cannot change. | Yes |
| ExtClassName | VARCHAR(40) | Class name for JPO. Cannot change. | Yes |
| NegClassName | VARCHAR(40) | Class name for JPO. Cannot change | Yes |
| ConfigName | VARCHAR(40) | Reserved for future use. | Optional |
| ConfigURL | VARCHAR(100) | Reserved for future use. | Optional |
| ExtensionData | VARCHAR(100) | Extension unique information. Default goods code is stored here. You can change this value from the JPO Configuration user interface. | Yes |
| MerNotSupport | VARCHAR(1000) | Reserved for future use. | Optional |
| Active | SMALLINT | 1 for Enable; 0 for Disable. This can be changed from the JPO Configuration user interface. | Yes |
| Primary Key | (ExtensionName) | Key field | |

Choose acquirer information (ETCHOOSEACQCFG)

This table includes information needed to select the acquirer from the card's BIN and promotional card name. It also contains link information to the "Payment method and condition (ETJPOTRCOND)" on page 24.

Table 4. ETCHOOSEACQCFG table

| Field name | Data type | Description | Mandatory |
|-------------------|----------------------|---|-----------|
| MerchantName | VARCHAR(9) NOT NULL | Merchant name that you are configuring. | Yes |
| PromCardName | VARCHAR(64) NOT NULL | Promotional Card Name. If not specified, "\$NONE-PCN\$" will be used. | Yes |
| CardholderBINFrom | INTEGER NOT NULL | Start value of range of cardholder's BIN. | Yes |
| CardholderBINTo | INTEGER NOT NULL | End value of range of cardholder's BIN | Yes |
| AccountNumber | VARCHAR(9) NOT NULL | Account number assigned for the acquirer. | Yes |
| BrandID | VARCHAR(40) NOT NULL | Certificate Brand ID. | Yes |

Table 4. ETCHOOSEACQCFG table (continued)

| | | | |
|-------------|---|---|-----|
| OptionID | VARCHAR(64) NOT NULL | <p>This field holds the POT table name to link the acquirer with the payment method and condition. This field also holds the acquirer's JPO-related extension support status.</p> <p>The format of this field is ContID=xxxx JPOF=1 ICDF=1.</p> <p>xxxx corresponds to the table name in the POT file and is also used as the latter part of the ContractID field in the ETJPOTRCOND and ETJPOCOND tables. JPOF indicates whether the acquirer supports the JPO extension or not. (1=supported, and 0=not supported.) ICDF specifies whether the acquirer supports the IntraCountry Data Extension or not. (1 = supported, and 0 = not supported.) If not supported, IntraCountryData will not be sent to the acquirer.</p> | Yes |
| Primary Key | (MerchantName, PromCardName, CardholderBINFrom, CardholderBINTo, BrandID) | | |

Payment method and condition (ETJPOTRCOND)

This table contains the payment methods and conditions defined in the contract between the merchant and the acquirer. See "Using POT CSV files screen" on page 16 to configure this information. When you import the POT file, both tables are created.

Table 5. ETJPOTRCOND table

| Field name | Data type | Description | Mode number that needs the field data |
|------------|----------------------|---|---------------------------------------|
| ContractID | VARCHAR(44) NOT NULL | <p>Combination of merchant name and tablename in the POT file. This field is also related to the ETCHOOSEACQCFG table's ContID value in OptionID field.</p> <p>The format of this field is MerchantName::ContID</p> | Every mode |

Table 5. ETJPOTRCOND table (continued)

| | | | |
|--------------|-------------------|--|-----------------|
| ModeNumber | SMALLINT NOT NULL | Mode number that shows the payment method. The Japanese Payment Option supports following mode numbers: 10 : Once payment 21 : Bonus once payment (Bankers) 23 : Bonus once payment (Credit sales firm) 24 : Multiple bonus payment 34 : Integrated payment 61 : Installment payment 80 : Revolving payment | Every mode |
| InstallCount | VARCHAR(100) | Payment count, up to 99. | Mode 34, 61 |
| FromDate | VARCHAR(8) | Start date of record valid period. The format of this field is MMDDHHmm. The default value is 01010000, which means January 1st 0:00. If this field is specified, the ToDate field must also be specified. | Mode 21, 23, 24 |
| ToDate | VARCHAR(8) | End date of record valid period. The format of this field is MMDDHHmm. Default value is 12312359, which means December 31st , 23:59. | Mode 21, 23, 24 |
| BonusMonth | VARCHAR(36) | For Mode 23 and 34, Bonus Month. For Mode 24, Start Bonus month. If used for Mode 34, the value other than 0 is ignored. See Note 1. | Mode 23, 24, 34 |
| BonusMonth2 | VARCHAR(36) | 2nd bonus month. This is not used in WebSphere Commerce Payments SET JPO. See Note 1. | |
| BonusCount | VARCHAR(12) | Number of bonuses in the payment. Maximum is 6. | Mode 24, 34 |
| SummerBonus | VARCHAR(36) | Month allowed for summer bonus. See Note 1. | Mode 24, 34 |
| WinterBonus | VARCHAR(36) | Month allowed for winter bonus. See Note 1. | Mode 24, 34 |

Table 5. ETJPOTRCOND table (continued)

| | | | |
|--------------------|-------------|---|------------------------|
| BonusSameAmt | SMALLINT | 1: Bonus amount is same for summer and winter payment. 0: Bonus amount differs between summer and winter payment. | Mode 34 |
| PurchaseAmountFrom | INTEGER | Minimum total amount for this payment method. If the total amount is less than this value, this payment method cannot be chosen. | Other than Mode 10, 80 |
| MonthlyMinPayment | INTEGER | Minimum monthly payment amount. Used to calculate bonus amount. | Mode 34 |
| BonusRatio | SMALLINT | Ratio of amount paid by bonus and total amount. This value is specified as a percentage between 1 and 100. If 0 is specified, WebSphere Commerce Payments will treat the ratio as 100%. | Mode 34 |
| BonusStepAmount | INTEGER | Unit of bonus amount. If specified as 1000, the bonus amount must be a value specified by adding a multiple of 1000 to the bonus minimum amount. | Mode 34 |
| StartPayMonth | VARCHAR(36) | Start pay month. If 0 is specified, the user cannot change it. See Note 1. | Mode 34, 61 |
| BonusMinAmount | INTEGER | Minimum bonus amount. | Mode 34 |
| UnUse,,,Flag | SMALLINT | If this field is not 0, the entire record will not be used. | Every mode |
| ConstraintFlag | SMALLINT | If not 0, there is some kind of restriction to use this method. Used to limit the usage of this payment method. See Note 2. | Every mode |

Notes:

1. Syntax of month-related fields.
 - Use a comma (",") to specify several values. For example: 1,2,3 = January, February, March.
 - A double period ("..") will specify range. For example: 1..3 = January, February, March.
 - When the beginning value of the range is smaller than the end value, the data will wrap around in maximum 12. For example: 12..2 = December, January, February.

- 0 means the user cannot specify the month. For example: You cannot specify a combination of another number and 0 for this field.
2. The field value is not used in WebSphere Commerce Payments.

Restriction of Data

- You cannot specify more than two records for Mode 10 for the same ContractID.
- All the records in Mode 21 C23 and 24 with same the ContractID must have the same PurchaseAmountFrom value for each mode.
- All the records in Mode 24 for same ContractID must have the same BonusCount value.
- If several records exist in Mode 24 or 34, their SummerBonus and WinterBonus values must be the same.
- In Mode 34, only one record exists for the same combination of InstallCount and PurchaseAmountFrom.

Table 6. Payment method table after translation (ETJPOCOND table)

| Field name | Data type | Description |
|--------------------|----------------------|--|
| ContractID | VARCHAR(44) NOT NULL | Combination of merchant name and tablename in POT file. This field is also related to ETCHOOSEACQCFG table's ContID value in the OptionID field. The format of this field is MerchantName::ContID The same value used in ETJPOTRCOND. |
| PurchaseAmountFrom | INTEGER NOT NULL | Minimum total amount for this payment method. If the total amount is less than this value, this payment method won't be chosen. |
| PurchaseAmountTo | INTEGER | Maximum amount for this payment method. If the total amount is more than this value, this payment method won't be chosen. |
| FromDate | VARCHAR(8) | Start date of record valid period. The format of this field is MMDDHHmm. The default value is 01010000, which means January 1st 0:00. If this field is specified, the ToDate field must also be specified. Valid for Mode 21, 23 and 24. |
| ToDate | VARCHAR(8) | End date of record valid period. The format of this field is MMDDHHmm. The default value is 12312359, which means December 31st, 23:59. Valid for Mode 21, 23 and 24. |
| ModeNumber | SMALLINT NOT NULL | Mode number indicating the payment method. Same definition as ETJPOTRCOND. |
| ModeData | VARCHAR(190) | Payment Option internal format |

Information specified by the merchant

The merchant can pass the following information to WebSphere Commerce Payments by entering ProtocolData when calling the ReceivePayment API.

| Data name | Syntax |
|-----------------------|-----------------|
| Promotional card name | Maximum 64 byte |
| Sales slip code | 5–digit number |
| Goods code | 3–digit number |

Keywords used for protocolData are "\$jpoPCardName", "\$jpoSalseSlipCod", and "\$jpoGoodsCode", respectively. (Notice all of the keywords are 16 bytes long.)

If the promotional card name is specified, any purchase from the card with another promotional card will be rejected. If not specified, any promotional card name can be used.

If the sales slip code is not specified, the last 5 digits of the order number are used. If the goods code is not specified, the default goods code stored in the ETEXTENSIONCFG table will be used. You can change this default goods code through the JPO Configuration user interface. All merchants in WebSphere Commerce Payments use the same default goods code.

The promotional card name specified by the merchant, sales slip code, goods code, and promotional card name of the card are all stored in the JPODATA table.

Change log table (ETJPOUPDATES)

Logs are recorded whenever an import/import cancel of an SECE file action occurs using the JPO management/configuration user interface. Header information from the Multiple Acquirer Table or Payment Option Table will be recorded.

Table 7. Change log table

| Field Name | Data Type | Description |
|-----------------|---------------|---|
| ApplyDate | TIMESTAMP | Date and time when the file is imported. |
| AcqPayIndicator | CHAR (4) | "MAT" if multiple acquirer table is imported "POT" if payment option table is imported. |
| UpdateType | SMALLINT | Update type of Multiple Acquirer Table. 1:Update/Add (1 is set when importing the POT file) 2:Cancel (import MAT file only) 9:Delete (9 will be set when Import POT file is cancelled) |
| TableName | VARCHAR (32) | Table name of Payment Option Table |
| AcquirerName | VARCHAR (100) | Acquirer name for Payment Option Table |

Table 7. Change log table (continued)

| | | |
|----------------|---------------|---|
| CreationDate | CHAR (8) | Created date of the file |
| CompanyName | VARCHAR (100) | Company name of Author |
| Organization | VARCHAR (100) | Organization name of Author |
| Author | VARCHAR (60) | Name of Author |
| ContractNumber | VARCHAR (15) | Contract number |
| ContractBegin | CHAR (8) | Start date of contract |
| ContractEnd | CHAR (8) | End date of contract |
| Message | VARCHAR (100) | Remarks |
| MerchantName | VARCHAR (9) | Merchant name that used the SECE file setting |

JPO-unique setting (ETJPOCONFIG)

This setting is established when the Cassette for SET is installed. This table holds the port number used during purchasing. The value could be changed through the JPO Manage/Configure user interface.

Table 8. JPOCONFIG table

| Field name | Data type | Description |
|-----------------|-----------|--|
| NegotiationPort | INTEGER | Port number which JPO will use for negotiation |

Chapter 7. Pruning the transaction table for the Japanese Payment Option database

A JPODATA table described in Chapter 8, “Japanese Payment Option transaction table definition” on page 33 stores results of JPO negotiation. If the Mode Number is not 10 and the Current State is not 0, the record was not processed correctly. Records that were not processed correctly remain in the table and you can delete them. You should prune old records if necessary. You should prune the tables periodically because they are not pruned automatically.

Chapter 8. Japanese Payment Option transaction table definition

This section describes each field in the Japanese Payment Option transaction table.

The Japanese Payment Option data table (JPODATA) contains information about each payment process transaction for JPO.

Table 9. Japanese Payment Option Data Table (JPODATA)

| Field name | Data type | Description |
|---------------|----------------------|---|
| MerchantName | VARCHAR (9) NOT NULL | Unique identification number for each merchant assigned by WebSphere Commerce Payments. |
| OrderNumber | VARCHAR (9) NOT NULL | Unique identification number for each order assigned by merchant. |
| AccountNumber | VARCHAR (9) | Account number selected from ETCHOOSEACQCFG table. |
| ContractID | VARCHAR (32) | ContID of OptionID selected from ETCHOOSEACQCFG table. |
| BIN | VARCHAR (7) | BIN number of the card. |
| PromCardName | VARCHAR (201) | Promotional card name of the cardholder. |
| MerchantPCN | VARCHAR (201) | Promotional card name, which the merchant specified. |
| CurrentState | INT | A current state (See Table 10 on page 34) |
| ModeNumber | INT | Mode number in Japanese Payment Option. |
| InitResMsg | VARCHAR (512) | Payment Initiation Response message. |
| BonusAmt | VARCHAR (50) | Parameter used by Japanese Payment Option. |
| BonusAmtSu | VARCHAR (50) | Parameter used by Japanese Payment Option. |
| BonusAmtWi | VARCHAR (50) | Parameter used by Japanese Payment Option. |
| BonusCount | VARCHAR (50) | Parameter used by Japanese Payment Option. |
| BonusMonth | VARCHAR (30) | Parameter used by Japanese Payment Option. |
| BonusMonthSu | VARCHAR (30) | Parameter used by Japanese Payment Option. |
| BonusMonthWi | VARCHAR (30) | Parameter used by Japanese Payment Option. |
| InstallCount | VARCHAR (50) | Parameter used by Japanese Payment Option. |
| PayAmount | VARCHAR (50) | Parameter used by Japanese Payment Option. |

Table 9. Japanese Payment Option Data Table (JPODATA) (continued)

| | | |
|-----------------|-----------------------------|--|
| PayInitial | VARCHAR (50) | Parameter used by Japanese Payment Option. |
| StartBonusMonth | VARCHAR (30) | Parameter used by Japanese Payment Option. |
| StartPayMonth | VARCHAR (30) | Parameter used by Japanese Payment Option. |
| IntraCDFlag | SMALLINT | Intra-Country Data Extension Support status of acquirer. |
| OrderDate | VARCHAR (8) | Date of sales in MMDDHHMM format. |
| GoodsCode | VARCHAR (4) | Product goods code. |
| SalseSlipNumber | VARCHAR (6) | Sales slip number for the order. |
| Primary Key | (MerchantName, OrderNumber) | Primary key for this table. |

Table 10. Value of CurrentState

| CurrentState | Description |
|--------------|--|
| 0 | Normal |
| 1 | A first Initiation Response message was received. |
| 2 | A second Initiation Response message was received. |
| 3 | A third Initiation Response message was received. |
| 4 | A fourth Initiation Response message was received. |
| 94 | BIN at the negotiation differed from that in the approval process. |
| 95 | ContractID was not found in the database. |
| 96 | Promotional card name does not match the card name specified by the merchant. |
| 97 | AccountNumber at the negotiation differed from that in the approval process. |
| 98 | Promotional card name at the negotiation differed from that in the approval process. |
| 99 | ContractID at the negotiation differed from that in the approval process. |

Note: If shopping with a non-JPO supported wallet, do not refer to the CurrentState in the JPODATA table shown above.

Chapter 9. SECE CSV file definition

The JPO management/configuration user interface can import CSV files that are defined by the Secure Electronic Commerce Environment (SECE) organization and can be provided by the acquirer. This chapter describes the definitions of these CSV files and shows the actual database definitions in WebSphere Commerce Payments.

Multiple Acquirer table of SECE

The SECE table, which corresponds to the ETCHOOSEACQCFG table, is called a multiple acquirer table (MAT). This SECE table contains header information and data as described in this section.

Table 11. Field format of header information in Multiple Acquirer Table

| Field Number | Item | Type | Format |
|--------------|-----------------|-------------------|---|
| 1 | Line Identifier | AlphaNumeric | H1 to H7, F, R, C |
| 2 | Item name | Character | As a basis, string describes the line identifier. See Table 12. |
| 3 | Item | (Depends on item) | (Depends on item) |

Table 12. Line identifier and header item in Multiple Acquirer Table

| Line Identifier | Item | Description | Mandatory | Remarks |
|-----------------|-------------------|--|-----------|---|
| F | Update type | Specifies Add/Modify or Cancel | Yes | "1" for Add/Modify, and "9" for Cancel |
| H1 | Created date | Creation date of this table | Yes | YYYYMMDD |
| H2 | Company Name | Company name of the creator of this table | Yes | |
| H3 | Organization Name | Organization name of the creator of this table | Yes | |
| H4 | Author | Name of Author | Yes | |
| H5 | Contract No. | Contract number of the shop | Yes | Up to 15 digits |
| H6 | Start date | Contract available date | Yes | YYYYMMDD |
| H7 | End date | Last day of the contract | Yes | YYYYMMDD, if the end date is not specified, 99999999 will be used. |
| R | Remarks | Any comments | No | |
| C | Comment | Comment line | No | Used to show the item names in the table. |
| S | | Data for Multiple Acquirer Table. | Yes | More than one line is required. See Table 13 on page 36 for more details. |

Table 13. Field format of data in Multiple Acquirer Table

| Field Number | Item | Mandatory | Description | Format |
|--------------|---------------------|-----------|--|--|
| 1 | Line Identifier | Yes | Character to identify the acquirer data line. | "S" |
| 2 | Valid period (From) | Yes | Start date of record valid period. | YYYYMMDDHHMM |
| 3 | Valid period (To) | Yes | End date of record valid period. | YYYYMMDDHHMM If not specified "999999999999" will be used. |
| 4 | IssuerBIN (From) | Yes | Start of BIN range | Number with 6,4, or 3 digits |
| 5 | IssuerBIN (To) | Yes | End of BIN range | Number with 6, 4, or 3 digits. Must be same length as IssuerBIN (From) item. |
| 6 | PCN | No | Promotional Card Name. It is specified as second OrganizationUnitName in the cardholder's certificate. This may be a null string. This will not be set if the cardholder's certificate does not exist. | Character String. Could be null string. |
| 7 | BrandID | Yes | BrandID contained in the merchant's certificate and Payment Gateway's certificate. | Character String. CANNOT be a null string. |
| 8 | Acquirer Name | Yes | OrganizationUnitName in the merchant's certificate. | Character String. CANNOT be a null string. |
| 9 | AcqBIN | Yes | MerAcquirerBIN in the merchant's certificate. | Unique value |
| 10 | MerID | Yes | MerID in the merchant's certificate. | Unique value |
| 11 | PGWY Name | Yes | CommonName in the Payment Gateway's certificate. | Character String. CANNOT be a null string. |
| 12 | PGWY-URL | Yes | PGWY's URL where authorization, capture messages are sent to. | Character String. CANNOT be a null string. |

Table 13. Field format of data in Multiple Acquirer Table (continued)

| | | | | |
|----|---------------------------|----|---|--|
| 13 | Payment Option Table name | No | Name of Payment Option Table used for payment method negotiation. | Character String, optional by SECE definition. Not optional for WebSphere Commerce Payments. If you want to use this table for only Mode10, use "\$\$\$" as a dummy table name. |
| 14 | Extended information | No | Information set as MerTermIDs required by Payment Gateway. | CharacterString, optional. |

In this table, the value of IssuerBIN can be 1 to 6 digits.

For example, in the case of IssuerBIN(From), a value of 1 for IssuerBIN(From) means 100000 and a value of 000001 for IssuerBIN(From) means 1.

In the case of IssuerBIN(To), a value of 1 for IssuerBIN(To) means 199999. A value of 000001 for IssuerBIN(To) means 1.

The value 0 is added to IssuerBIN(From) up to the 6–digit number. The value 9 is added to IssuerBIN(To) up to the 6–digit number.

Payment Option Table of SECE

The SECE table, which corresponds to the payment method configuration table, is called a payment option table. The SECE table contains header information and data as follows:

Table 14. Header information and format fields in the Payment Option Table

| Field number | Item | Data type | Format |
|--------------|-----------------|-------------------|---|
| 1 | Line identifier | Alphanumeric | H1–H7, T, Q, R, C |
| 2 | Item name | Character string | As a basis, character string describing the item (See Table 15) |
| 3 | Item | (Depends on item) | (Depends on item) |

Table 15. Line identifier and header information in the Payment Option Table

| Line Identifier | Item | Description | Mandatory | Remarks |
|-----------------|---------------|--------------------------------|-----------|--|
| T | Table Name | Name of this table | Yes | Payment option table name specified in the acquiring table |
| Q | Acquirer Name | Acquirer name | Yes | Acquirer name specified in the acquiring table. |
| H1 | Creation date | The date of this table created | Yes | YYYYMMDD |

Table 15. Line identifier and header information in the Payment Option Table (continued)

| | | | | |
|----|-------------------|--|-----|---|
| H2 | Company Name | Company name of the author of this table. | Yes | |
| H3 | Organization name | Organization name of the author of this table. | Yes | |
| H4 | Author | Author name of this table | Yes | |
| H5 | Contract No. | Contract number for the shop | Yes | 15 digits |
| H6 | Start date | Start date of the contract | Yes | YYYYMMDD |
| H7 | End date | End date of the contract | Yes | YYYYMMDD, if omitted, 99999999 will be used. |
| R | Remarks | Any comments | No | |
| C | Comment | Comment line | No | Could be used to show the item name. |
| P | | Payment Option data line | Yes | More than one line is required. See Table 16 for more detail. |

Table 16. Format of fields in the Payment Option Table Record

| Field Number | Item | Type | Required Mode | Description | Format |
|--------------|-----------------|-----------|---------------|--|--------|
| 1 | Line identifier | Character | All | Indicates the data line for payment option | "P" |
| 2 | Use flag | Number | All | A flag which shows the payment option of this line to be used or not. 0=ignore this line 1=use this line | 0 or 1 |
| 3 | Limitation flag | Number | All | A flag which shows whether the payment option of this line depends on the product type, such as a money exchangeable product. 0=Used for any product. 1=Not used for money exchangeable product. | 0 or 1 |

Table 16. Format of fields in the Payment Option Table Record (continued)

| | | | | | |
|----|--------------------------------|----------------|----------|---|---|
| 4 | Valid Period (From) | Numeric String | All | Start date of this line record could be used. | MMDD |
| 5 | Valid Period (To) | Numeric String | All | End date of this line record could be used. | MMDD |
| 6 | Mode | Numeric String | All | Payment type shown after the second initiation message | One of the following: 10, 21, 23, 24, 34, 61, 80 |
| 7 | StartPay Month | Number | 34,61 | Starting month of payment | Single value from 0 to 12, or a list, or a range of month |
| 8 | InstallCount | Number | 34,61 | Number of installment. This number usually depends on total amount. | Single value from 2 to 99, or a list, or a range |
| 9 | StartBonusMonth | Number | 23,24 | First bonus month that comes in the payment. (For mode 23, this value will be the bonus month.) | Single value from 0 to 12, or a list, or a range of month |
| 10 | BonusCount | Number | 24,34 | Number of bonus in the payment. | Single value from 1 to 6, or a list, or a range |
| 11 | BonusSum | Number | 24,34 | A month for the summer bonus | Single value from 1 to 12, or a list, or a range of month |
| 12 | BonusWin | Number | 24,34 | A month for the winter bonus | Single value from 1 to 12, or a list, or a range of month |
| 13 | MinimumAmnt | Number | 23,24,34 | Minimum total amount for this line of record to be used | Single value |
| 14 | MinimumAmnt of monthly payment | Number | 34,61 | Minimum amount of monthly payment for installment. Used to calculate maximum installment count. | Single value |

Table 16. Format of fields in the Payment Option Table Record (continued)

| | | | | | |
|----|--------------|--------|----|--|-----------------------------|
| 15 | Bonus Ratio | Number | 34 | An upper limit of percentage of bonus payment in total amount. This is used to calculate the maximum of bonus payment. | Single value from 0 to 100. |
| 16 | BonusMinAmnt | Number | 34 | Least bonus amount shown when deciding bonus amount | Numeric value |
| 17 | BonusStep | Number | 34 | Step amount used for bonus amount | Numeric value |

Sample CSV Files

Sample CSV files for the SECE Payment Option Table and SECE Multiple Acquiring Table are shown below. These sample files are placed under following directory:

[For AS/400]

/QIBM/UserData/PymSvr/<Instance Name>/jpo

[For AIX]

<Installed directory>/jpo/sample

[For Windows NT, Windows 2000]

<Installed directory>\jpo\sample

Refer to Appendix C, "Scenario with sample CSV file" on page 61 to see a scenario using CSV sample files.

Sample 1. SECE Payment Option Table CSV file (option.csv)

```
T,Table Name,CONT1,,,,,,,,,
Q,Acquirer Name,IBM,,,,,,,,,
H1,Creation Date,19981015,,,,,,,,,
H2,Company Name,ABC CO,,,,,,,,,
H3,Organization,E-Business Solution,,,,,,,,,
H4,Name,Bob Smith,,,,,,,,,
H5,Contract Number,1234567890,,,,,,,,,
H6,Valid From,19981001,,,,,,,,,
H6,Valid From,19981001,,,,,,,,,
R,Remarks,Test Data,,,,,,,,,
C,Use Flag,Treatment,,Mode,Start
P,1,1,0101,1231,10,,1,,,,,,,,,
P,1,1,0301,0430,23,0,,6,1,,10000,,,,,
P,1,1,0301,0531,23,0,,7,1,,10000,,,,,
P,1,1,0301,0831,23,0,,8,1,,10000,,,,,
P,1,1,0901,1031,23,0,,12,1,,10000,,,,,
P,1,1,1001,1130,23,0,,1,1,,10000,,,,,
P,1,1,0201,0430,24,0,,6,1.6,"6,7,8","12,1",20000,,,,,
P,1,1,0201,0531,24,0,,7,1.6,"6,7,8","12,1",20000,,,,,
P,1,1,0201,0731,24,0,,8,1.6,"6,7,8","12,1",20000,,,,,
P,1,1,0801,1031,24,0,,12,1.6,"6,7,8","12,1",20000,,,,,
P,1,1,0801,1031,24,0,,1,1.6,"6,7,8","12,1",20000,,,,,
P,1,1,0101,1231,34,0,12,,2,"6,7,8","12,1",26000,2000,50,1000,100
P,1,1,0101,1231,34,0,15,,2,"6,7,8","12,1",32000,2000,50,1000,100
P,1,1,0101,1231,34,0,20,,3,"6,7,8","12,1",43000,2000,50,1000,100
P,1,1,0101,1231,61,0,"2,3,6,10,12,15,20",,,,,,2000,,,,,
P,1,1,0101,1231,80,0,,,,,,,,,
```

Sample 2. SECE Multiple Acquirer Table CSV file (multi_acq.csv)

```
F,Update Type,1,,,,,,,,,
H1,Creation Date,19990815,,,,,,,,,
H2,Company Name,ABC CO,,,,,,,,,
H3,Organization,E-Business Solution,,,,,,,,,
H4,Name,Bob Smith,,,,,,,,,
H5,Contract Number,123450000123,,,,,,,,,
H6,Valid From,19990816,,,,,,,,,
H7,Valid Till,99999999,,,,,,,,,
R,Remarks,,,,,,,,,
C,,,,,,,,,

C,Validperiod,,Iss.BIN,,Brand,Acq.Name,Acq.BIN,MerID,PGW
Name,PGW-URL,Paymenoption,Extension

C,From,To,From,To,PCN,ID,,,,,Table name,

S,199909011000,999999999999,100000,599999,Second-
EECA,ibmtest,IBM,456789,123456,456789:1122334455,http://pgw.ibm.co.jp:
10010/,CONT1,1234500001230

S,199909011000,999999999999,600000,799999,Second-
EECA,ibmtest,IBM,456789,123456,456789:1122334455,http://pgw.ibm.co.jp:
10010/,CONT2,1234500001230

S,199909011000,999999999999,800000,999999,Second-
EECA,ibmtest,IBM,456789,123456,456789:1122334455,http://pgw.ibm.co.jp:
10010/,CONT3,1234500001230
```

Chapter 10. Concerns about connecting to the Acquirer

At times, JPO information is not included in the piExtension sent to the acquirer when the order is authorized. For the first authorization of the purchase, JPO information is included in the piExtension. But once this authorization is rejected and the authorization request for the same order is sent more than twice, the piExtension will not be sent after the second time. This is established by SET specifications.

To process JPO properly after the second time, you must save the information from the piExtension received the first time and send it back by embedding it in the returning structure when you reject the request. Check the structure to ensure the piExtension does not exist after the second time, so that the JPO information is available.

This chapter describes how to program the above in the IBM Payment Gateway User Exit routine.

Process in Xlate_RevReqRes

When reversing the authorization, JPO information must be embedded. The following example shows you how to set the contents of the piExtension stored at the Xlate_AuthReqRes function.

```
AuthRevResInfo* pINF = NULL;
IBMMsgExtension* jpdata = (IBMMsgExtension*) calloc (1, sizeof(IBMMsgExtension));
CopyExtension(jpdata,savedPI);

OpenType *myjpo = (OpenType*) calloc (1, sizeof(OpenType));
myjpo = encodeTokenOpaque(jpdata, sizeof(IBMMsgExtension));
pINF->pAuthTokenData->bit_mask |= authTokenOpaque_present;
pINF->pAuthTokenData->authTokenOpaque = *myjpo;
```

Note: CopyExtension is a function to copy piExtension (savedPI), which was stored in the Xlate_AuthReqRes function, to a newly created jpdata.

Process in Xlate_AuthReqRes

JPO information will be stored in the piExtension at the first authorization, but in the AuthTokenData from the second authorization message. You need to check both structures to get the information. The following example shows you how to access AuthTokenData to get the JPO information:

```

AuthRequestCtx *authReqCtxP = NULL;
authReqCtxP = &(context->msgctx.u.authPairCtx.authReqCtx);
if (authReqCtxP->authTokenData != NULL)
{
    if (authReqCtxP->authTokenData->bit_mask &
        authTokenOpaque_present)
    {
        unsigned int templength = 0;
        IBMMsgExtension * myjpo = (IBMMsgExtension *) calloc (1, sizeof(IBMMsgExtension ));
        myjpo = (IBMMsgExtension *)decodeTokenOpaque(
            (TokenOpaque*)&(authReqCtxP->authTokenData->authTokenOpaque)
            templength);
    }
}

```

Note: Context is the second parameter of Xlate_AuthReqRes and its type is a pointer to AcqPayCtx.

Also, when piExtension exists, a function to store this data (for example, store it in database) must be written, so that the Xlate_RevReqRes function can refer to it.

Chapter 11. Using WebSphere Commerce Payments commands

JPO objects can be managed by using WebSphere Commerce Payments commands. This chapter describes commands used to handle JPO database tables. For information about using using commands, refer to the *IBM WebSphere Commerce Payments Programmer's Guide and Reference*.

Query commands for JPO objects

In this section, combinations of keywords for each command used for JPO are described.

Use QUERYPAYSYSTEM command to get the set of JPO objects specified by the JPO_QUERY_COMMAND.

Table 17. Required keywords for QueryPaySystems command

| Required keywords | Multiple allowed? | Value (ASCII string) |
|-------------------|-------------------|---|
| ETAPIVERSION | No | For WebSphere Commerce Payments (Payment Manager) V2.1 or later, value is "3" |
| OPERATION | No | "QueryPaySystems" |
| CASSETTENAME | No | "SET" |
| SETEXTENSIONNAME | No | "JPO" |
| JPO_QUERY_COMMAND | No | See Table 20 on page 46 |

Table 18. Optional keywords for QueryPaySystems

| Optional keywords | Value |
|-------------------|--|
| DTDPATH | Path to the locally stored DTD. The value of this parameter is used in the XML document to specify the location of the external DTD. If this parameter is not specified, the complete DTD is returned as an internal DTD. The length of the DTDPATH must be between 1 and 254. |

Table 19. Optional keywords for QueryPaySystems when JPO_QUERY_COMMAND is specified

| Optional keywords | Multiple allowed? | Value (ASCII string) |
|--------------------|-------------------|--|
| JPO_MERCHANT_NAME | No | Merchant number. Integer in ASCII characters. Must be from 1 to 999999999. |
| JPO_BRANDID | No | Character string showing BrandID |
| JPO_ORDER_NUMBER | No | Order number. Integer in ASCII characters. Must be from 1 to 999999999. |
| JPO_EXTENSION_NAME | No | "jpo" |

Table 20. Matrix table of JPO_QUERY_COMMAND value and optional keywords

| Keyword Function | Value of JPO_QUERY_COMMAND (ASCII string) | JPO_MERCHANT_NAME | JPO_BRANDID | JPO_ORDER_NUMBER | JPO_EXTENSION_NAME |
|----------------------------|---|-------------------|-------------|------------------|--------------------|
| JPO attribute information | JPO_QUERY_EXTENSIONCFG | N/A | N/A | N/A | Mandatory |
| Negotiation port | JPO_QUERY_JPOCONFIG | N/A | N/A | N/A | N/A |
| Multi-Acquirer Information | JPO_QUERY_CHOOSEACQCFG | Mandatory | Optional | N/A | N/A |
| JPO Order information | JPO_QUERY_JPODATA | Mandatory | N/A | Optional | N/A |
| MAT Information | JPO_QUERY_MAT | Mandatory | N/A | N/A | N/A |
| POT Information | JPO_QUERY_POT | Mandatory | N/A | N/A | N/A |

PSObject will be returned as a result of each JPO_QUERY_COMMAND command. ObjectID and ObjectKey of the returned PSObject are shown in Table 21.

Note: If data is not found, PSObject will not be returned and no error occurs.

Table 21. Returned value from WebSphere Commerce Payments JPO Objects

| Parameter Function | Value of JPO_QUERY_COMMAND | ObjectID | ObjectKey |
|---------------------------------|----------------------------|-------------------|---|
| JPO Attribute information | "JPO_QUERY_EXTENSIONCFG" | "extensionConfig" | ExtensionName field of EtExtensionCfg table. ("jpo") |
| Negotiation Port | "JPO_QUERY_JPOCONFIG" | "jpoConfig" | JPOCONFIG |
| Multiple Acquirer Configuration | "JPO_QUERY_CHOOSEACQCFG" | "chooseAcqCfgID" | Merchant Name + " " + BINFrom + " " + BINTo + " " + BrandID |
| JPO order Information | "JPO_QUERY_JPODATA" | "jpoDataID" | Order Number |
| MAT file information | "JPO_QUERY_MAT" | "JpoMATFiles" | File name |
| POT file information | "JPO_QUERY_POT" | "JpoPOTFiles" | File name |

WebSphere Commerce Payments JPO Objects

The content of each JPO object returned as a PSObject with the above ObjectID and ObjectKey follows:

Table 22. JPO Attribute information

| Field Name | Syntax | Description |
|---------------|------------------|-------------------------|
| ExtensionName | ASCII characters | "jpo" for JPO extension |
| ExtensionData | ASCII characters | Attribute data for JPO |

Table 22. JPO Attribute information (continued)

| | | |
|--------|------------------|---|
| Active | 0 or 1 (Boolean) | 1 for enabling JPO 0 for disabling JPO |
|--------|------------------|---|

Table 23. Negotiation port number

| Field Name | Syntax | Description |
|-----------------|---------|---|
| NegotiationPort | Integer | TCP/IP port number used for JPO Negotiation |

Table 24. Multi-Acquirer information

| Field Name | Syntax | Description |
|-------------------|--|--|
| merchantName | Integer in ASCII characters, length of 1 to 9 digits | Number assigned for merchant |
| PromCardName | ASCII characters | Promotional card name assigned for cardholder's card |
| cardholderBINFrom | Integer in ASCII characters, length of 1 to 6 digits | Start value of cardholder's BIN range. |
| cardholderBINTo | Integer in ASCII characters, length of 1 to 6 digits | End value of cardholder's BIN range. |
| accountNumber | Integer in ASCII characters, length of 1 to 9 digits | Acquirer number used |
| brandID | ASCII characters | Brand name |
| optionID | ASCII characters | ID to show Payment Option |

Table 25. JPO Order Information

| Field Name | Syntax | Description |
|---------------|--|-------------------------|
| MerchantName | Integer in ASCII characters. 1 to 9 digits | See Table 9 on page 33. |
| OrderNumber | Integer in ASCII characters. 1 to 9 digits | See Table 9 on page 33. |
| AccountNumber | Integer in ASCII characters. 1 to 9 digits | See Table 9 on page 33. |
| ContractID | ASCII characters | See Table 9 on page 33. |
| BIN | Integer in ASCII characters. 6 digits | See Table 9 on page 33. |
| PromCardName | ASCII characters | See Table 9 on page 33. |
| MerchantPCN | ASCII characters | See Table 9 on page 33. |
| CurrentState | ASCII characters | See Table 9 on page 33. |
| ModeNumber | Integer in ASCII characters | See Table 9 on page 33. |
| InitResMsg | ASCII characters | See Table 9 on page 33. |
| BonusAmt | ASCII characters | See Table 9 on page 33. |
| BonusAmtSu | ASCII characters | See Table 9 on page 33. |
| BonusAmtWi | ASCII characters | See Table 9 on page 33. |
| BonusCount | ASCII characters | See Table 9 on page 33. |
| BonusMonth | ASCII characters | See Table 9 on page 33. |
| BonusMonthSu | ASCII characters | See Table 9 on page 33. |

Table 25. JPO Order Information (continued)

| | | |
|-----------------|---------------------------------------|-------------------------|
| BonusMonthWi | ASCII characters | See Table 9 on page 33. |
| InstallCount | ASCII characters | See Table 9 on page 33. |
| PayAmount | ASCII characters | See Table 9 on page 33. |
| PayInitial | ASCII characters | See Table 9 on page 33. |
| StartBonusMonth | ASCII characters | See Table 9 on page 33. |
| StartPayMonth | ASCII characters | See Table 9 on page 33. |
| IntraCDFlag | 0 or 1 (Boolean) | See Table 9 on page 33. |
| OrderDate | ASCII characters | See Table 9 on page 33. |
| GoodsCode | Integer in ASCII characters. 3 digits | See Table 9 on page 33. |
| SalseSlipNumber | Integer in ASCII characters. 5 digits | See Table 9 on page 33. |

Table 26. MAT file information (Multi-Acquirer Table file)

| Field Name | Syntax | Description |
|------------------|--|---|
| applyDate | ASCII characters | File applied date in YYYYMMDD format |
| createDate | ASCII characters | File creation date in YYYYMMDD format. |
| companyName | ASCII characters | Company name of author |
| OrganizationName | ASCII characters | Organization name of author |
| Author | ASCII characters | Name of author |
| ContractNumber | Integer in ASCII characters, less than 15 digits | Contract number for merchant. Less than 15 digits |
| contractBegin | ASCII characters | Start date of contract becomes effective in YYYYMMDD format |
| ContractEnd | ASCII characters | Contract expire date in YYYYMMDD format. 99999999 if not specified. |
| Message | ASCII characters | Comments |
| IsApplied | 0 or 1 (Boolean) | 1=Already applied. 0=Not applied. |
| UpdateType | Integer in ASCII characters, 1 digit | 1=Add/modify 9=Cancel |

The contents of POT file information are very similar to a MAT file. The only differences are the "UpdateType" field does not exist, and two fields shown in Table 27 are added.

Table 27. POT file information Payment Option Table file

| Field Name | Syntax | Description |
|--------------|------------------|---|
| tableName | ASCII characters | Payment Option Table name specified in MAT. |
| acquirerName | ASCII characters | Acquirer Name specified in MAT. |

ModifySystemCassetteObject

The MODIFYSYSTEMCASSETTEOBJECT command can update ETEXTENSIONCFG and ETJPOCONFIG tables. To use this command, a user must be authorized as a payments administrator.

Table 28. Required keywords for ModifySystemCassetteObject command

| Required keywords | Multiple allowed? | Value |
|---------------------|-------------------|---|
| CASSETTENAME | N | "SET" |
| ETAPIVERSION | N | For WebSphere Commerce Payments (Payment Manager) V2.1 or later, value is "3" |
| OBJECTNAME | N | "JPO" |
| OPERATION | N | "ModifySystemCassetteObject" |
| \$JPO_ADMIN_COMMAND | N | "JPO_UPDATE_EXTENSIONCFG" or "JPO_UPDATE_JPOCONFIG" |

Table 29. Optional keywords for ModifySystemCassetteObject command

| Optional keywords | Value |
|-------------------|--|
| DTDPATH | Path to the locally stored DTD. The value of this parameter is used in the XML document to specify the location of the external DTD. If this parameter is not specified, the complete DTD is returned as an internal DTD. The length of the DTDPATH must be between 1 and 254. |

Table 30. Optional keywords for ModifySystemCassetteObject command when \$JPO_ADMIN_COMMAND is specified

| Optional keywords | Multiple allowed? | Value |
|-------------------|-------------------|--|
| \$JPO_GOODSCODE | N | Default goods code. Integer in ASCII character from 1 to 999. |
| \$JPO_EXT_ACTIVE | N | "0" or "1". JPO is enabled when "1". |
| \$JPO_NEG_PORT | N | Integer in ASCII character, which shows the TCP/IP port number used for JPO negotiation. |

Table 31. Matrix table of Optional keywords and value of \$JPO_ADMIN_COMMAND in ModifySystemCassetteObject command

| Parameter Function | Value of \$JPO_ADMIN_COMMAND | \$JPO_GOODSCODE | \$JPO_EXT_ACTIVE | \$JPO_NEG_PORT |
|---------------------------|------------------------------|---------------------|---------------------|----------------|
| JPO Attribute information | JPO_UPDATE_EXTENSIONCFG | Optional (See Note) | Optional (See Note) | N/A |
| Negotiation Port | JPO_UPDATE_JPOCONFIG | N/A | N/A | Required |

Note: At least one of the optional keywords must be specified.

CreateMerchantCassetteObject

This command is used when adding a default acquirer for each brand to the ETCHOOSEACQCFG table and importing MAT/POT files. The user must be authorized as a merchant administrator or higher.

Table 32. Required keywords for CreateMerchantCassetteObject

| Required keywords | Multiple allowed? | Value |
|---------------------|-------------------|---|
| CASSETTENAME | N | "SET" |
| ETAPIVERSION | N | For WebSphere Commerce Payments (Payment Manager) V2.1 or later, value is "3" |
| MERCHANTNUMBER | N | Integer in ASCII characters. Must be from 1 to 999999999. |
| OBJECTNAME | N | "JPO" |
| OPERATION | N | "CreateMerchantCassetteObject" |
| \$JPO_ADMIN_COMMAND | N | One of following: "JPO_IMPORT_MAT", "JPO_IMPORT_POT", "JPO_INSERT_CHOOOSEACQCFG" |

Table 33. Optional keywords for CreateMerchantCassetteObject command

| Optional keywords | Value |
|-------------------|--|
| DTDPATH | Path to the locally stored DTD. The value of this parameter is used in the XML document to specify the location of the external DTD. If this parameter is not specified, the complete DTD is returned as an internal DTD. The length of the DTDPATH must be between 1 and 254. |

Table 34. \$JPO_ADMIN_COMMAND Optional keywords in CreateMerchantCassetteObject command

| Optional keyword for \$JPO_ADMIN_COMMAND | Multiple allowed ? | Value |
|--|--------------------|---|
| \$JPO_FILENAME | N | File name of SECE file to be imported. Directory path differs by each merchant so the filename must be specified. |
| ACCOUNTNUMBER | N | Account number assigned for acquirer. Integer in ASCII characters. Must be from 1 to 999999999. |
| \$JPO_BRANDID | N | Brand ID |

Table 35. Matrix of each \$JPO_ADMIN_COMMAND command and optional keywords

| Parameter Function | Value of \$JPO_ADMIN_COMMAND | \$JPO_FILENAME | ACCOUNTNUMBER | \$JPO_BRANDID |
|--------------------|------------------------------|----------------|---------------|---------------|
| Import update MAT | JPO_IMPORT_MAT | Required | N/A | N/A |
| Import POT | JPO_IMPORT_POT | Required | N/A | N/A |

Table 35. Matrix of each \$JPO_ADMIN_COMMAND command and optional keywords (continued)

| | | | | |
|-------------------------|--------------------------|-----|----------|----------|
| Insert Default Acquirer | JPO_INSERT_CHOOOSEACQCFG | N/A | Required | Required |
|-------------------------|--------------------------|-----|----------|----------|

DeleteMerchantCassetteObject

This command is used to cancel import for MAT/POT, delete the default definition of the acquirer, and import MAT file with UpdateType=9.

Table 36. Required keywords for DeleteMerchantCassetteObject command

| Required keywords | Multiple allowed? | Value |
|---------------------|-------------------|--|
| CASSETTENAME | N | "SET" |
| ETAPIVERSION | N | For WebSphere Commerce Payments (Payment Manager) V2.1 or later, value is "3" |
| MERCHANTNUMBER | N | Integer in ASCII characters. Must be from 1 to 999999999. |
| OBJECTNAME | N | "JPO" |
| OPERATION | N | "DeleteMerchantCassetteObject" |
| \$JPO_ADMIN_COMMAND | N | One of the following: "JPO_CANCEL_MAT", "JPO_DELETE_MAT", "JPO_CANCEL_POT", "JPO_DELETE_CHOOOSEACQCFG" |

Table 37. Optional keywords for command

| Optional keywords | Value |
|-------------------|--|
| DTDPATH | Path to the locally stored DTD. The value of this parameter is used in the XML document to specify the location of the external DTD. If this parameter is not specified, the complete DTD is returned as an internal DTD. The length of the DTDPath must be between 1 and 254. |

Table 38. Optional keywords for DeleteMerchantCassetteObject command when \$JPO_ADMIN_COMMAND is specified

| Optional keywords | Multiple allowed? | Value |
|-------------------|-------------------|---|
| \$JPO_FILENAME | N | File name of SECE file to be imported. Directory path differs by each merchant so the filename must be specified. |
| \$JPO_BRANDID | N | Default acquirer is defined for each brand. Specify the BrandID to delete the default acquirer for the brand. |

Table 39. Matrix table of optional keywords and value of \$JPO_ADMIN_COMMAND in DeleteMerchantCassetteObject command

| Parameter Function | Value of \$JPO_ADMIN_COMMAND | \$JPO_FILENAME | \$JPO_BRANDID |
|--------------------|------------------------------|----------------|---------------|
|--------------------|------------------------------|----------------|---------------|

Table 39. Matrix table of optional keywords and value of \$JPO_ADMIN_COMMAND in DeleteMerchantCassetteObject command (continued)

| | | | |
|-----------------------------|--------------------------|----------|----------|
| Cancel Import of update MAT | JPO_CANCEL_MAT | Required | N/A |
| Import delete MAT | JPO_DELETE_MAT | Required | N/A |
| Cancel Import POT | JPO_CANCEL_POT | Required | N/A |
| Delete default Acquirer | JPO_DELETE_CHOOSSEACQCFG | N/A | Required |

ModifyMerchantCassetteObject

This command is used to change the default acquirer, JPO flag, and Intra-Country Data support flag for the acquirer.

Table 40. Required keywords for ModifyMerchantCassetteObject command

| Required keywords | Multiple allowed? | Value |
|---------------------|-------------------|---|
| CASSETTENAME | N | "SET" |
| ETAPIVERSION | N | For WebSphere Commerce Payments (Payment Manager) V2.1 or later, value is "3" |
| MERCHANTNUMBER | N | Integer in ASCII characters. Must be from 1 to 999999999. |
| OBJECTNAME | N | "JPO" |
| OPERATION | N | "ModifyMerchantCassetteObject" |
| \$JPO_ADMIN_COMMAND | N | "JPO_UPDATE_CHOOSSEACQCFG" |

Table 41. Optional keywords for ModifyMerchantCassetteObject command

| Optional keywords | Value |
|-------------------|--|
| DTDPATH | Path to the locally stored DTD. The value of this parameter is used in the XML document to specify the location of the external DTD. If this parameter is not specified, the complete DTD is returned as an internal DTD. The length of the DTDPath must be between 1 and 254. |

Table 42. Optional keywords for ModifyMerchantCassetteObject command when \$JPO_ADMIN_COMMAND is specified

| Optional keywords for \$JPO_ADMIN_COMMAND command | Multiple allowed? | Value |
|---|-------------------|---|
| ACCOUNTNUMBER | N | Account number assigned for acquirer. Integer in ASCII characters. Must be from 1 to 999999999. |
| \$JPO_BRANDID | N | Brand ID |
| \$JPO_PROMCARDNAME | N | Promotional card name |
| \$JPO_BINFROM | N | Integer value of 6 digits, which shows the start value of the available BIN range of acceptable card. If the length is less than 6, "0" will be filled. |

Table 42. Optional keywords for ModifyMerchantCassetteObject command when \$JPO_ADMIN_COMMAND is specified (continued)

| | | |
|---------------|---|---|
| \$JPO_BINTO | N | Integer value of 6 digits, which shows the end value of available BIN range of acceptable card. If the length is less than 6, "9" will be filled. |
| \$JPO_JPOFLAG | N | "0" or "1". JPO is enabled when set to "1". |
| \$JPO_ICDFLAG | N | "0" or "1". JPO is enabled when set to "1". |

Table 43. Matrix of optional keywords and value of \$JPO_ADMIN_COMMAND in ModifyMerchantCassetteObject command

| Parameter Function | Value of \$JPO_ADMIN_COMMAND | ACCOUNT NUMBER | \$JPO_BRANDID | \$JPO_PROM CARD NAME | \$JPO_BINFROM | \$JPO_BINTO | \$JPO_JPOFLAG | \$JPO_ICDFLAG |
|--------------------------------------|------------------------------|----------------|---------------|----------------------|---------------|-------------|---------------|---------------|
| Update acquirer flag information | JPO_UPDATE_CHOOSEACQCFG | Mandatory | Mandatory | Mandatory | Mandatory | Mandatory | Mandatory | Mandatory |
| Register/ Update default acquirer | JPO_UPDATE_CHOOSEACQCFG | Mandatory | Mandatory | N/A | N/A | N/A | N/A | N/A |

Appendix A. Error messages

Error messages are listed in the *IBM WebSphere Commerce Payments Administrator's Guide* and *Cassette for SET Supplement*.

Error messages unique to JPO (CEPSET0800, CEPSET0801 and CEPSET0811) are described here.

Each message includes the following descriptions:

Severity: The severity is indicated.

Information: User does not need to take any specific action.

Warning: Check whether you need to change the configuration.

Error: Correct the error and restart the particular process or application.

Fatal: You must restart WebSphere Commerce Payments after fixing the problem.

Explanation: Provides an explanation of the error status.

User Response: Provides Instructions to fix the problem.

CEPSET0800 Failed to load a SET extension.

Severity: Error

Explanation: SET Cassette failed to load SET Extension JPO.

User Response: Check the content of database table ETEXTENSIONCFG. Or check that the PATH and CLASSPATH are specified correctly.

- Cannot find table name (CONTID) in the ETJPOCOND table.
- Error occurred during extracting the payment condition.
- In any case, check the contents of the ETJPOTRCOND, ETJPOCOND, and ETCHOOSEACQCFG database tables.

CEPSET0801 Failed to load a negotiator for a SET extension

Severity: Error

Explanation: SET Cassette failed to load negotiation module of SET Extension JPO.

User Response: Check the content of database table ETEXTENSIONCFG. Or check that the PATH and CLASSPATH are specified correctly.

CEPSET0811 SET extension JPO error: *text*

Severity: Error

Explanation: Error returned during negotiation.

User Response: The *text* part of the error message will be one of the following:

- Unsupported syntax in JPO was passed.
- The merchant-specified promotional card name and the promotional card name from the cardholder does not match.

Appendix B. Return codes from commands

There are two types of return codes: Primary Return Codes, and Secondary Return Codes.

Whenever a JPO-specific problem occurs, PRC_CASSETTE_ERROR 15 is returned as the primary return code. The following table lists the secondary return codes returned by JPO Extended commands. For other primary return codes, refer to the *IBM WebSphere Commerce Payments Programmer's Guide and Reference*.

Table 44. Secondary Return Codes from JPO extended commands

| Keyword | RC | Explanation |
|------------------------------------|------|---|
| SRC_JPO_ConfigDB_Retrieve_ERR | 2000 | Failed to get data from EtExtensionCfg or EtJpoConfig table. |
| SRC_JPO_EtJPOConfig_NOrecord | 2001 | No record found in EtJpoConfig table. |
| SRC_JPO_EtExtensionCfg_NOJPOrecord | 2002 | No record found in EtExtensionCfg table. |
| SRC_JPO_ActiveFlag_Update_ERR | 2003 | Failed to update JPO Status. |
| SRC_JPO_GoodsCode_Update_ERR | 2004 | Failed to update default Goods Code. |
| SRC_JPO_NegotiationPort_Update_ERR | 2005 | Failed to update negotiation port number. |
| SRC_JPO_INV_GoodsCode | 2006 | Invalid Goods code is specified. |
| SRC_JPO_MatDBerror | 2010 | Failed to get data from EtChooseAcqCfg table. |
| SRC_JPO_MatDBempty | 2011 | No record found in EtChooseAcqCfg table. |
| SRC_JPO_DefAcqInsertError | 2012 | Failed to insert default acquirer record. |
| SRC_JPO_DefAcqDeleteError | 2013 | Failed to delete default acquirer record. |
| SRC_JPO_DefAcqUpdateError | 2014 | Failed to update default acquirer record. |
| SRC_JPO_DefAcqNotFound | 2015 | Cannot find the record to be update for default acquirer record. |
| SRC_JPO_NoContractIDError | 2016 | ContractID is not specified in OptionID field of EtChooseAcqCfg table. |
| SRC_JPO_MATRecordNotFoundError | 2017 | Cannot find the record to be updated for acquirer. |
| SRC_JPO3_NO_SRC | 2030 | Mandatory parameter is missing. |
| SRC_JPO3_DB_NODRIVER | 2031 | JDBC driver name is not defined. |
| SRC_JPO3_DB_CONNECT | 2032 | JPO database is not defined. Database name must be defined to set up JPO. |
| SRC_JPO3_DB_QUERY | 2033 | Failed to execute SQL command. |
| SRC_JPO3_DB_STMT_CLOSE | 2034 | Failed to close SQL statement. |
| SRC_JPO3_DB_CONN_CLOSE | 2035 | Failed to close SQL connection. |
| SRC_JPO3_DB_UPDATE | 2036 | Failed to updated database. |
| SRC_JPO3_FILE_NOTFOUND | 2037 | File not found. Check the filename specified and try again. |
| SRC_JPO3_DB_UPDTABLE | 2038 | Error occurred during writing to ETJPOUpdate table. |
| SRC_JPO3_DB_CONVERT | 2039 | Access violation to the database occurred while converting data. |

Table 44. Secondary Return Codes from JPO extended commands (continued)

| | | |
|-------------------------|------|---|
| SRC_JPO3_FILE_READ | 2040 | Failed to read the file. |
| SRC_JPO3_NO_DATA | 2041 | No record found in the specified Payment Option Table CSV file. |
| SRC_JPO3_DB_CHACQ | 2042 | Error occurred during writing to EtChooseAcqCfg table. |
| SRC_JPO3_NO_MATDATA | 2043 | No record found in the specified Multi Acquirer table CSV file. |
| SRC_JPO3_INV_UPDTYPE | 2044 | Wrong update type specified in the MAT CSV file. |
| SRC_JPO3_INV_MATDATA | 2045 | Invalid data found in the specified MAT CSV file. |
| SRC_JPO3_BRAND_NOTSETUP | 2046 | No Brand configuration found for this merchant with specified BrandID, AcqBIN, MerID, PGWY. Configure the BRAND and import again. Import function canceled. |
| SRC_JPO3_ACQ_NOTSETUP | 2047 | There are no account definitions for this merchant and PGWY-URL. Import again after configuring the account. Import function canceled. |
| SRC_JPO3_DUP_ACCOUNT | 2048 | There could be more than two account numbers derived from the condition in the MAT file. Please check the file and import again. Import was canceled. |
| SRC_JPO3_NO_POTDATA | 2049 | There are no Payment Option Data to be converted. |
| SRC_JPO3_INV_ACQPAYIND | 2050 | Specification error. AcqPayIndicator must be less than 3 bytes. |
| SRC_JPO3_INV_TABLENAME | 2051 | Specification error. Table name must be less than 32 bytes. |
| SRC_JPO3_INV_ACQNAME | 2052 | Specification error. Acquirer name must be less than 100 bytes. |
| SRC_JPO3_INV_CRTDATE | 2053 | Specification error. Creation date must be 8 bytes and have format of yyyyymmdd. |
| SRC_JPO3_INV_COMPNAME | 2054 | Specification error. Company name must be less than 100 bytes. |
| SRC_JPO3_INV_ORGNAME | 2055 | Specification error. Organization name must be less than 100 bytes. |
| SRC_JPO3_INV_AUTHOR | 2056 | Specification error. Author must be less than 60 bytes. |
| SRC_JPO3_INV_CONTNUM | 2057 | Specification error. Contract number must be less than 15 bytes. |
| SRC_JPO3_INV_CONTBEGIN | 2058 | Specification error. Contract start date must be 8 bytes and have format of yyyyymmdd. |
| SRC_JPO3_INV_CONTEND | 2059 | Specification error. Contract end date must be 8 bytes and have format of yyyyymmdd. |
| SRC_JPO3_POT_AS_MAT | 2060 | Tried to import POT CSV file as MAT CSV file. |

Table 44. Secondary Return Codes from JPO extended commands (continued)

| | | |
|---------------------------|------|--|
| SRC_JPO3_SECE_HEADER2 | 2061 | Update type of the file is not specified. |
| SRC_JPO3_SECE_HEADER3 | 2062 | Creation date of the file is not specified. |
| SRC_JPO3_SECE_HEADER4 | 2063 | Company name of the author is not specified. |
| SRC_JPO3_SECE_HEADER5 | 2064 | Organization of the author is not specified. |
| SRC_JPO3_SECE_HEADER6 | 2065 | Author is not specified. |
| SRC_JPO3_SECE_HEADER7 | 2066 | Contract number is not specified. |
| SRC_JPO3_SECE_HEADER8 | 2067 | Contract start date is not specified. |
| SRC_JPO3_SECE_HEADER9 | 2068 | Contract end date is not specified. |
| SRC_JPO3_SECE_HEADER12 | 2069 | Table name is not specified. |
| SRC_JPO3_SECE_HEADER13 | 2070 | Acquirer Name is not specified. |
| SRC_JPO3_CHBIN_FROM | 2071 | Start value of the Cardholder's BIN range is not specified. |
| SRC_JPO3_CHBIN_TO | 2072 | End value of the Cardholder's BIN range is not specified. |
| SRC_JPO3_DELETE_MAT | 2073 | Tried to cancel imported file which file is not imported. |
| SRC_JPO3_INV_PATH | 2074 | There is no merchant name in the specified CSV file path name. |
| SRC_JPO3_CHBIN_ORDER | 2075 | The end value for the range of Cardholder's BIN is larger than the start value. |
| SRC_JPO3_MAT_AS_POT | 2076 | Tried to import MAT CSV file as POT CSV file. |
| SRC_JPO3_POT_EXISTS | 2077 | Data with same table name already exists. "Cancel imported file" before importing this new POT file. |
| SRC_JPO3_POT_CONVERT_FAIL | 2080 | Fail to convert data from EtJpoTrCond to EtJpoCond. |
| SRC_JPO3_POT_CANCEL_FAIL | 2081 | Failed to cancel imported POT CSV file. |
| SRC_JPO3_MAT_CANCEL_FAIL | 2082 | Failed to cancel imported MAT CSV file. |
| SRC_JPO3_MAT_UPDATE_FAIL | 2083 | Failed to import MAT CSV file. |
| RC_JPO_SD_COMMAND | 2100 | \$JPO_ADMIN_COMMAND parameter error. |
| RC_JPO_SD_GOODSCODE | 2101 | \$JPO_GOODSCODE parameter error. |
| RC_JPO_SD_JPOACTIVE | 2102 | \$JPO_EXT_ACTIVE parameter error. |
| RC_JPO_SD_NEGPORT | 2103 | \$JPO_NEG_PORT parameter error. |
| RC_JPO_SD_PROMCARDNAME | 2104 | \$JPO_PROMCARDNAME parameter error. |
| RC_JPO_SD_BIN_FROM | 2105 | \$JPO_BINFROM parameter error. |
| RC_JPO_SD_BIN_TO | 2106 | \$JPO_BINTO parameter error. |
| RC_JPO_SD_ACCOUNTNUMBER | 2107 | ACCOUNTNUMBER parameter error. |
| RC_JPO_SD_BRANDID | 2108 | \$JPO_BRANDID parameter error. |
| RC_JPO_SD_JPO_FLAG | 2109 | \$JPO_JPOFLAG parameter error. |

Table 44. Secondary Return Codes from JPO extended commands (continued)

| | | |
|----------------------------------|------|--|
| RC_JPO_SD_ICD_FLAG | 2110 | \$JPO_ICDFLAG parameter error. |
| RC_JPO_SD_MATPOT_FILENAME | 2111 | \$JPO_FILENAME parameter error. |
| RC_JPO_SD_TABLENAME | 2112 | \$JPO_TABLENAME parameter error. |
| RC_JPO_SD_MERCHANTNAME | 2113 | MERCHANTNAME parameter error. |
| SRC_JPO_Get_Properties_ERR | 2150 | Error occurred trying to get the CSV file directory information from the properties file. |
| SRC_JPO_Get_CSV_File_List_ERR | 2151 | Error occurred when trying to get the CSV file list information from the directory specified in the properties file. |
| SRC_JPO_CSV_File_Not_Found_ERR | 2152 | Cannot find the CSV file specified. |
| SRC_JPO_Get_MATPOT_FILE_INFO_ERR | 2153 | Specified CSV file includes invalid information. |

Appendix C. Scenario with sample CSV file

This section describes the actual process flow of the machine configured by sample CSV files.

Throughout this section, the following configuration is assumed:

- The MerchantName is 123456789.
- MerchantName=123456789 has 33 and 22 as AccountNumber.
- AccountNumber 22 and 33 have ibmtest as the certificate brand.
- The PaymentGateway URL for AccountNumber=33 is <http://pgw.ibm.co.jp:/10010/>.
- The MerID of brand ibmtest for AccountNumber=33 is 123456 and AcqBIN is 456789.
- The AccountNumber=22 must be different from AccountNumber=33. For instance, PaymentGateway URL=<http://pgw2.ibm.co.jp:10010/>, MerID=123457 and AcqBIN=456790.

MerID, AcqBIN and PaymentGateway URL for AccountNumber=33 must match the value in the multi_acq.csv file.

The multi_acq.csv file used as MAT has data with following assumptions:

- If the card which has the ibmtest brand, "Second-EECA" as promotional card name (PCN hereafter), and range for BIN between 100000 and 999999 is selected, AccountNumber=33 will be selected. If the card for ibmtest brand exists under other conditions, AccountNumber=22 (default acquirer) will be selected.
- The payment option for ibmtest brand is divided into four groups:

| Group | ContID | Notes |
|-------|--------|---|
| 1 | CONT1 | PCN=Second-EECA, range for BIN is from 100000 to 599999 |
| 2 | CONT2 | PCN=Second-EECA, range for BIN is from 600000 to 799999 |
| 3 | CONT3 | PCN=Second-EECA, Range for BIN is from 800000 to 999999 |
| 4 | None | Under some other condition (default) |

The option.csv file is used as the POT file for payment option of group name CONT1 as follows:

- Mode10 (Once Pay) is selectable as one of the payment options year round.
- Mode23 (Bonus Pay) is selectable as one of the payment options if the date of sales is between 3/1 and 11/30, and the purchase amount is more than 10,000 YEN. The selectable bonus month is defined as follows:

June Selectable from 3/1 to 4/30

July Selectable from 3/1 to 5/31

August Selectable from 3/1 to 8/31

December Selectable from 9/1 to 10/31

January Selectable from 10/1 to 11/30

- Details are omitted here, but mode24 (Multiple bonus payment), mode34 (Integrated payment), mode61 (Installment payment) and mode80 (Revolving payment) are defined in the POT file.

Contents after importing sample CSV files

Let's import the multi_acq.csv file. Refer to "Using the MAT CSV file screen" on page 14 for instructions on how to import. The following table is the "JPO Multi-Acquirer table information Screen" after importing multi_acq.csv file. Table 46 is the ETCHOOSEACQCFG table after the importing the multi_acq.csv file.

Table 45. Multi-Acquirer table information Screen after importing multi_acq.csv file

| Brand ID | BIN From | BIN To | Promotional Card Name | Account Number | JPO Flag | Intra-Country Data flag |
|----------|----------|--------|-----------------------|----------------|----------|-------------------------|
| ibmtest | 100000 | 599999 | Second-EECA | 33 | X | X |
| ibmtest | 600000 | 799999 | Second-EECA | 33 | X | X |
| ibmtest | 800000 | 999999 | Second-EECA | 33 | X | X |

The default acquirer for each brand can be updated.

| Brand ID | Account Number |
|----------|----------------|
| ibmtest | 22 |

Note : The "X" in JPO flag and ICD flag means status is checked.

Table 46. ETCHOOSEACQCFG table after importing multi_acq.csv file

| MerchantName | Prom CardName | CardHolder BINFrom | CardHolder BINTo | Account Number | BrandID | OptionID |
|--------------|---------------|--------------------|------------------|----------------|---------|----------------------------------|
| 123456789 | Second-EECA | 100000 | 599999 | 33 | ibmtest | ContID=CONT1 JPOF=1 ICDF=1 |
| 123456789 | Second-EECA | 600000 | 799999 | 33 | ibmtest | ContID=CONT2 JPOF=1 ICDF=1 |
| 123456789 | Second-EECA | 800000 | 999999 | 33 | ibmtest | ContID=CONT3 JPOF=1 ICDF=1 |
| 123456789 | \$NONE-PCN\$ | 0 | 0 | 22 | ibmtest | NULL |

Note: In Table 46, JPOF=1 indicates the JPO flag is checked, and ICDF=1 indicates the ICD flag is checked.

Next, import the option.csv file, also. See "Using POT CSV files screen" on page 16 for import instructions. The following table shows the contents of the ETJPOCOND database table after importing the option.csv file.

Note: The table name in the header part of the POT file (option.csv) is related to ContID. If the card with ibmtest brand, "Second-EECA" as PCN, and range for BIN between 100000 and 599999 is selected, the contents defined in CSV (option.csv)

are used as the payment option because CONT1 is derived as ContID. The ContID is derived from the OptionID field in Table 46 on page 62 after importing the multi_acq.csv file”.

Table 47. ETJPOCOND table after importing option.csv file

| ContractID | Purchase AmountFrom | Purchase AmountTo | FromDate | ToDate | ModeNumber | MODEDATA |
|------------------|---------------------|-------------------|----------|----------|------------|----------------------------|
| 123456789::CONT1 | 0 | NULL | NULL | NULL | NULL | |
| 123456789::CONT1 | 10000 | NULL | 03010000 | 04302359 | 23 | 6..8; |
| 123456789::CONT1 | 10000 | NULL | 04302359 | 05312359 | 23 | 7..8; |
| 123456789::CONT1 | 10000 | NULL | 05312359 | 08312359 | 23 | 8; |
| 123456789::CONT1 | 10000 | NULL | 08312359 | 10010000 | 23 | 12; |
| 123456789::CONT1 | 10000 | NULL | 10010000 | 10312359 | 23 | {1,12}; |
| 123456789::CONT1 | 10000 | NULL | 10312359 | 11302359 | 23 | 1; |
| 123456789::CONT1 | 20000 | NULL | 02010000 | 04302359 | 24 | 1..6;6..8;; |
| 123456789::CONT1 | 20000 | NULL | 04302359 | 05312359 | 24 | 1..6;7..8;; |
| 123456789::CONT1 | 20000 | NULL | 05312359 | 07312359 | 24 | 1..6;8;; |
| 123456789::CONT1 | 20000 | NULL | 08010000 | 10312359 | 24 | 1..6;{1,12};; |
| 123456789::CONT1 | 26000 | 32000 | NULL | NULL | 34 | 0;12;;6..8;{1,12}; |
| 123456789::CONT1 | 32000 | 43000 | NULL | NULL | 34 | 0;{12,15};;6..8;{1,12}; |
| 123456789::CONT1 | 43000 | NULL | NULL | NULL | 34 | 0;{12,15,20};;6..8;{1,12}; |
| 123456789::CONT1 | 4000 | 6000 | NULL | NULL | 61 | 0;2; |
| 123456789::CONT1 | 6000 | 12000 | NULL | NULL | 61 | 0;2..3; |
| 123456789::CONT1 | 12000 | 20000 | NULL | NULL | 61 | 0;{2..3,6}; |
| 123456789::CONT1 | 20000 | 24000 | NULL | NULL | 61 | 0;{2..3,6,10}; |
| 123456789::CONT1 | 24000 | 30000 | NULL | NULL | 61 | 0;{2..3,6,10}; |
| 123456789::CONT1 | 30000 | 40000 | NULL | NULL | 61 | 0;{2..3,6,10,12}; |
| 123456789::CONT1 | 40000 | NULL | NULL | NULL | 61 | 0;{2..3,6,10,12,15,20}; |
| 123456789::CONT1 | 0 | NULL | NULL | NULL | 80 | |

Movement for WebSphere Commerce Payments and Card

This section describes how the AccountNumber and ContID are selected.

1. WebSphere Commerce Payments determines the AccountNumber and ContID from PCN and value of BIN and BrandID of the selected card according to Table 46 on page 62 after the multi_acq.csv file is imported.

- If the card’s PCN=“Second-EECA” and BIN=“123456”: AccountNumber=33 is selected. CONT1 is selected as ContID.
- If the card’s PCN=“Second-EECA” and BIN=“650000”: AccountNumber=33 is selected. CONT2 is selected as ContID.
- If the card’s PCN=“Second-EECA” and BIN=“900000”: AccountNumber=33 is selected. CONT3 is selected as ContID.
- If the card’s BIN=“123456” and No PCN: AccountNumber=22 (default acquirer) is selected. There is no ContID. Because the default acquirer is selected, there is no payment option.
- If the card’s PCN=“Second-EECA” and BIN=000003: AccountNumber=22 (default acquirer) is selected. There is no ContID. Because the default acquirer is selected, there is no payment option.
- If the card’s BIN=“000003” and No PCN: AccountNumber=22 (default acquirer) is selected. There is no ContID. Because the default acquirer is selected, there is no payment option.

Note: If the default AccountNumber (acquirer) is selected, the JPO and ICD extension is always set to be used. The value of JPOF and ICDF in the ETCHOOSEACQ table is in checked status after the multi_acq.csv file is imported. If you want to turn off the checked status of JPOF and ICDF in some BIN range, you have to set JPOF and ICDF manually from JPOUI.

2. The available payment option will be selected from Table 47 on page 63. Records matching their condition with ContID selected by step1, the date of sales, and total payment amount will be selected from Table 47 on page 63. (The value of ContractID in the ETJPOCOND table is composed by the MerchantName and ETCHOOSEACQCFG table's ContID. The format of this field is "MerchantName::ContID".)

In the following, we assume that the date of sales is 11/11 and total payment amount is 10,000 YEN.

- If the card's PCN="Second-EECA" and BIN="123456": In this case, group 1 is selected. Because the MerchantName=123456789, the ContractID will be "123456789::CONT1". Records in Table 47 on page 63 that have "123456789::CONT1" as ContractID, 11/11 within the FromDate and ToDate, 10,000 YEN within PurchaseAmountFrom and PurchaseAmountTo, are selected as payment option. That is to say, Mode10 (Once Pay), Mode23 (Bonus once payment), Mode61 (Installment payment), and Mode80 (Revolving payment) are available as payment options. Because of the date of sales, Mode24 (Multiple bonus payment) is not selected. Because of the payment amount, Mode34 (Integrated payment) is not selected.
- If card's PCN="Second-EECA" and BIN="650000": In this case, group 2 is selected. Because the MerchantName=123456789, the ContractID will be "123456789::CONT2". Because only the option.csv file is imported, there is no matched ContractID. The only available payment option is mode10 (Once Pay).**
- If card's PCN="Second-EECA" and BIN="900000": In this case, group 3 is selected. Because the MerchantName=123456789, the ContractID will be "123456789::CONT3". Because only the option.csv file is imported, there is no matched ContractID. The only available payment option is mode10 (Once Pay).**
- If card's BIN="123456" and No PCN: In this case, group 4 is selected. Because ContID was not specified, the only available payment option is mode10 (Once Pay)**.
- If card's PCN="Second-EECA" and BIN="000003": In this case, group 4 is selected. Because ContID was not specified, the only available payment option is mode10 (Once Pay).**

**If there is no matched ContractID in ETJPOCOND, only mode10 (Once Pay) is sent to the cardholder.

This is the way Wallet can select the payment option.

Sample of other setting

In this section, we explain how to change the configuration based on multi_acq.csv and option.csv. All of the conditions except the following are the same as the original file.

Note: <Before edit>, <After edit> are shown in separate boxes for each. The line length is too long, so it is shown as multiple lines, but it is actually one line.

- Use the card with the ibmtest brand and No PCN in BIN range between 100000 to 599999: In this case, the PCN part should be changed to NULL in the multi_acq.csv file.

<Before edit>

```
S,199901010000,299912315959,100000,599999,Second-EECA,ibmtest,IBM,456789,123456,456789:1122334455,http://pgw.ibm.co.jp:10010/,CONT1,123450001230
```

<After edit>

```
S,199901010000,299912315959,100000,599999,,ibmtest,IBM,456789,123456,456789:1122334455,http://pgw.ibm.co.jp:10010/,CONT1,123450001230
```

- Use card with the ibmtest brand and PCN="Second-EECA" in BIN range between 000001 to 999999: In this case, change the value of IssuerBIN(From) to 000001.

<Before edit>

```
S,199901010000,299912315959,100000,599999,Second-EECA,ibmtest,IBM,456789,123456,456789:1122334455,http://pgw.ibm.co.jp:10010/,CONT1,123450001230
```

<After edit>

```
S,199901010000,299912315959,000001,599999,Second-EECA,ibmtest,IBM,456789,123456,456789:1122334455,http://pgw.ibm.co.jp:10010/,CONT1,123450001230
```

Note that the value of IssuerBIN is different if specified as 1 or 000001. Refer to "Multiple Acquirer table of SECE" on page 35 for details.

- There is no CONT2 or CONT3, but only CONT1 as ContID is defined. Use card with ibmtest brand and PCN="Second-EECA" in BIN range between 100000 and 999999: In this case, delete the lines containing "CONT2" or "CONT3" in the multi_acq.csv file, and change the value of IssuerBIN(To) to 999999.

<After edit>

```
S,199901010000,299912315959,100000,999999,Second-EECA,ibmtest,IBM,456789,123456,456789:1122334455,http://pgw.ibm.co.jp:10010/,CONT1,123450001230
```

- Set the contents of CONT1 to be the available payment option for CONT2, also. In this case, you have to create and import [SECE Payment Option tables CSV file] for CONT2. Copy the option.csv to option2.csv for CONT2. Change the value of [Table Name] in header section to "CONT2". The following is an example for the option2.csv file.

```
T,Table Name,CONT2,,,,,,,,,,,,,,
```

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