PaylinX V3.I Upgrade Guide

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With your support request to PaylinX Product Support, please include the following information:

- Contact Name
- Company and Department
- PaylinX or merchant customer number (where applicable)
- Your phone number and email address

Chase Merchant Services

800.326.7985

Call this number for general merchant services help.

Discover/Novus Merchant Services

800.347.2000

Call Novus Network Services Merchant Support for Discover/Novus-specific questions.

First Data Merchant Services (South Platform)

800.622.2626

Call First Data's Merchant Services division to handle First Data Corporation-specific payment processing questions.

First Tennessee Merchant Services

303.268.2400

Call First Tennessee's Merchant Card Services for First Tennessee-specific questions.

NDC Merchant Services (East Platform)

800.777.0225

Call National Data Processing Services for NDC East platform-specific questions.

NDC Merchant Services (West Platform)

800.367.2638

Call National Data Processing Services for NDC West platform-specific questions.

Paymentech Merchant Services

603.896.8333

Call Paymentech's Merchant Services division to handle Paymentech-specific questions.

VisaNet - Vital Help Desk

800.847.2772

Call the Vital Help Desk to solve Vital-specific questions.

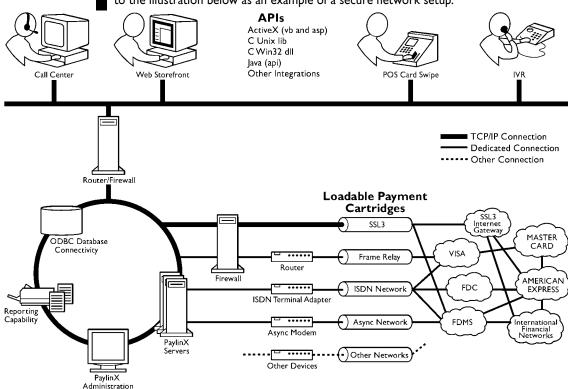
Financial Processors Help Desk Information

Security Warning

To secure the financial and personal information processed by the PaylinX Server, stored in the database, and routed through networks, the ecommerce system must be placed behind a firewall. We suggest you consult with providers of firewall and other information technology security solutions to protect and secure the transaction data of your customers, the PaylinX Server, and the database used by the PaylinX Server.

When processing transactions through the Internet between a web storefront and the PaylinX Server, the information is transmitted in plain text unless Secure Socket Layer (SSL) encryption is enabled. For a web storefront, we recommend that you enable the SSL certificate request security feature provided by PaylinX. This feature encrypts the financial and personal information transmitted between the web storefront and the PaylinX Server for secure transmission.

Out of concern for security, we also recommend against remote administration of the PaylinX Server over a wide area network (WAN), virtual private network (VPN), or through a remote access server (RAS). Administering the PaylinX Server over a WAN or VPN requires open ports in the firewall. These open ports create a security risk. Administering the PaylinX Server through a RAS requires strong user authentication methods and strong data encryption. Always administer the PaylinX Server using the PaylinX Administration Client installed on a network computer behind a firewall. Refer to the illustration below as an example of a secure network setup.



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Document Conventions

bold GillSans	Function names and messages appear in a bold GillSans font. For example, the function SetSessionId sets the session ID for a transaction.
italic Times New Roman	Terms and book titles appear in an italic Times New Roman font. For example, Section 8, Setup the General PaylinX Server Settings, in the <i>PaylinX Administration Client Guide</i> contains information about PaylinX Server setup.
bold italic Times New Roman	Main menus and submenus appear in a bold italic Times New Roman font. For example, to save a file, select <i>File\Save</i> .
SMALL CAPS	Directories, paths, and file names appear in small caps. For example, on Solaris systems the LCC.JAR file may be located in the \LCC\JAVA directory.
Courier	Screen text and example code appear in a Courier font. For example, a line in the configuration file appears as MerchantId=demo.

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Introduction



Upgrade Goals

Our goals for you during this upgrade process are to:

- limit downtime of your PaylinX Server and processing capability,
- maintain your current PaylinX Server settings,
- preserve your PaylinX database information,
- ensure prompt recertification of the PaylinX Server with the financial processor.

We've outlined the upgrade process below. For more information, refer to the accompanying documentation in Adobe Portable Document Format (PDF) file on the PaylinX Server CD. These documents are as follows:

- PaylinX Enterprise Payment Server Release Notes,
- PaylinX Installation Reference Cards for your payment option(s). The Installation Reference Cards provide a checklist of the merchant account information you need to obtain from your financial processor. This information allows the PaylinX Server to communicate to the financial processor.
- PaylinX Administration Client Guide,
- PaylinX API Reference Guide,
- PaylinX Message and Processors Codes,
- PaylinX Client for Windows Guide,

The PaylinX Enterprise Payment Server V3.1 documentation set is available on the PaylinX website at http://www.paylinx.com. From our website, download and print the documents. Refer to our website for product and documentation updates and other information. If you have questions or problems during the upgrade, contact PaylinX Product Support at 314.692.0929. At the prompt, press 2.

These upgrade notes apply best when you are upgrading from a prior version of PaylinX to V3.I while maintaining the same payment processor to the same communication option. For example, if you are running PaylinX V2.6.5 for VISA ISDN, the natural migration path is to PaylinX V3.I for Vital ISDN.

Limit downtime of your PaylinX Server and processing capability

You can complete the software install upgrade process if you have successfully settled all batches on the current PaylinX installation and no installation and setup errors occur while installing PaylinX V3.1. Due to increased minimum requirements for the Windows NT server running the PaylinX Server, we recommend that you upgrade your hardware, operating system, and database software if you do not meet the minimum requirements for PaylinX V3.1. See the *Installation Reference Card* for minimum requirements.

Rather than taking your existing PaylinX Server and database out of production during the upgrade, we recommend that you not only upgrade the PaylinX Server software but also upgrade to a new Windows NT server, database server, and database software. By keeping the existing PaylinX Server in production, you won't lose processing capability while you install, test, and recertify the PaylinX payment system.

If you have multiple PaylinX Servers in your setup, you can perform an upgrade of one PaylinX Server V3.1 and certify with that install while the other PaylinX Servers running PaylinX V2.5, V2.6.5, or V3.0.2 continue transaction processing. Once you have certified with your financial processor, you can upgrade the remaining PaylinX Servers V2.5, V2.6.5, or V3.0.2 to V3.1. PaylinX Servers of different versions must use their own database.

Maintain your current PaylinX settings

Upgrading from any prior version of PaylinX to PaylinX V3.1 requires you to perform specific steps ensuring that the settings from your current installation of PaylinX are brought forward to the installation of the PaylinX Enterprise Payment Server V3.1.

Nearly all settings are brought forward through the overlay upgrade procedure. The PaylinX Security settings will need to be recorded and re-entered after the upgrade.

Preserve your PaylinX database information

The upgrade process updates your database information and revises the PaylinX database schema. Before upgrading to PaylinX V3.1, preserve the information in your PaylinX database, by either backing up the database or exporting the database information. However, before you back up the database and install PaylinX V3.1, you must settle all outstanding transactions.

Ensure recertification with the financial processor

When upgrading to PaylinX V3.1, you will need to recertify with your financial processor or at the very least you will run test transactions with your financial processor after you have successfully upgraded to PaylinX V3.1. Please anticipate the time needed to set up and test the PaylinX Server with the financial processor. Contact PaylinX Product Support and your financial processor for more information.

If you are upgrading from PaylinX V2.5 for Paymentech, you will be required by Paymentech to recertify after successfully upgrading to PaylinX V3.1. PaylinX implemented a new Paymentech specification in PaylinX V3.0.X and newer. If you are upgrading from PaylinX V3.0.X and newer, you may not need to recertify with Paymentech.

During certification, consider using another PaylinX Server or a backup PaylinX Server to take over transaction processing.

Changes in transaction types

Beginning in PaylinX V2.6.X, the names of the transaction types changed in the PaylinX interface. If you launch the PaylinX Client for Windows, set up or modify the Security settings with the Server properties within the PaylinX Administration Client, or run reports, you'll notice that the transaction names have changed. The new transactions work as the previous transactions worked. The changes began in PaylinX V2.6. The Void transaction was added in PaylinX V3.0.2 SP2. A new transaction type, the Void transaction, removes a specific transaction prior to settlement by PaylinX sequence number from the PaylinX database and does not require financial processor interaction.

PaylinX V2.5 Transaction Types	PaylinX 2.6.5 Transaction Types	PaylinX 3.0.2 SPI and SP2 Transaction Types	PaylinX V3.I Transaction Types
Active Purchase	Authorization and Capture	Authorization and Capture	Authorization and Capture
Active Reversal	Active Reversal		
Adjust Draft	Adjust Draft		
Authorization	Authorization	Authorization	Authorization
Lookup	Lookup	Lookup	Lookup
Manual Authorization	Manual Authorization	Manual Authorization	Manual Authorization
Offline Purchase	Capture	Capture	Capture
Predial	Predial	Predial	Predial
Return	Return	Return	Return
Reversal	Reversal	Reversal	Reversal
		Void (added in V3.0.2 SP2)	Void
Begin Session (for logging in)	Begin Session (for logging in)	Begin Session (for logging in)	Begin Session (for logging in)
End Session (for logging out)	End Session (for logging out)	End Session (for logging out)	End Session (for logging out)

Table I-I: PaylinX transaction types as they correspond to PaylinX V3.1 transactions

Upgrade Considerations

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What happens to the PaylinX software settings during upgrade to V3.1

All general settings are brought forward from the previous install of PaylinX except as noted here. If noted, you will be required to enter information that was not a part of the prior PaylinX installation or the information could not migrate to PaylinX V3.1. These settings are noted for you before the actual installation and upgrade procedure so that you can have the information ready prior to the upgrade process.

If upgrading from PaylinX V2.5 to V3.I PaylinX 2.5 for Paymentech

PaylinX V2.5 for Paymentech involves unique issues in upgrading.

- PaylinX V3.1 uses a newer Paymentech communication specification requiring recertification with Paymentech.
- You may need to employ different strategies when upgrading to PaylinX V3.1 for Paymentech depending on your business requirements and how you have integrated PaylinX V2.5 for Paymentech into your POS.

If you have multiple PaylinX Servers V2.5 for Paymentech in your setup, you can perform an upgrade of one PaylinX Server to V3.1 and certify with that installation while the other PaylinX Servers running PaylinX V2.5 for Paymentech continue transaction processing. Once you have certified with Paymentech, you can upgrade your remaining PaylinX V2.5 Servers to V3.1.

Contact Paymentech and obtain new Authorization and Settlement ports for both your test and production environment. Let Paymentech know that you will be upgrading to PaylinX V3.I software. Paylinx V3.I communicates to the Paymentech 3.0 specification. Paymentech requires recertification before accepting live data.

PaylinX V2.5 for POS-port

POS-port is offered in PaylinX V2.5 only. An upgrade path from PaylinX V2.5 for POS-port to PaylinX V3.1 is under development at the time of this publication. PaylinX is developing a connection to Vital modem that will be the direct upgrade path to V3.1 for V2.5 POS-port users.

PaylinX V3.1 does offer other connection options to Visa – Vital in the form of Vital ISDN and Vital VirtualNet SSL/IP. Contact PaylinX Product Support for more information.

PaylinX V2.5 Transaction API upgrade issues

The PaylinX APIs V2.5 may be compatible with the PaylinX Server V3.1, depending on the changes we've made to the Server. We've indicated in the table below which PaylinX APIs were available with PaylinX V2.5 and which PaylinX APIs are available with PaylinX V3.1. If you have developed an integration, you may have to re-program the integration if the API is no longer available or to take advantage of the newer capabilities of PaylinX Transaction API for PaylinX V3.1.

In many instances, your financial processor's communication connection may determine whether or not you can continue using your existing Transaction API or programming library. For example, the PaylinX V2.5 Transaction APIs/programming libraries are compatible provided you are using a Visa or Paymentech LPC. Contact PaylinX Product Support for information regarding the PaylinX APIs and their compatibility with PaylinX V3.1.

PaylinX APIs V2.5	PaylinX APIs V3.1
ActiveX VB and ASP	ActiveX VB and ASP
Batch	
Command Line Interface (CLI)	
Common Gateway Interface (CGI)	
C Unix	C Unix
C Win32	C Win32
Java	Java

Table 2-I: PaylinX APIs for V2.5 to V3.1

Merchant identification number and store number in V2.5

This issue applies to PaylinX V2.5 for Paymentech.

PaylinX V2.5 corresponds your financial processor merchant account with a 12-digit merchant number. Multiple stores can be set up under each merchant number. A four-digit store number would be set up under a 12-digit merchant number in PaylinX V2.5.

When upgrading from PaylinX V2.5, the upgrade process concatenates the existing 12-digit merchant number with each four-digit store number, creating 16-digit Merchant Identification (Merchant ID) numbers. Thus, for each store number that existed for the PaylinX Server V2.5, you now have a merchant identification number on the PaylinX Server V3.1.

This change from merchant number and store number to merchant identification (Merchant ID) is reflected in the PaylinX database and Windows Registry. If your payment system uses our PaylinX Client for Windows or implements our PaylinX client APIs for transactions, the merchant identification numbers are called from the Windows Registry as were the merchant number and store number. However, if your payment system runs on a platform other than Windows or implements an API that does not access the Windows Registry, you'll need to update these clients manually with the merchant identification numbers in addition to environment and operational parameters.

Store name

The store name setting was established in PaylinX V2.5. This setting allowed you to name the store or merchant within the PaylinX Administration Client. This setting no longer exists in PaylinX V3.1. During the upgrade process, any store name you set up is not brought forward in the PaylinX Administration Client for V3.1. Therefore, you must identify merchants through the merchant identification number.

PaylinX V2.5	PaylinX Upgrade combines	PaylinX V3.I
Merchant Number (2 digits)	M 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M 1 15
Store Number (4 digits)	Merchant ID (16 digit)	Merchant ID (32 alphanumeric characters)

Table 2-2: PaylinX V2.5 Merchants tab settings

For assistance, call PaylinX Product Support. Refer elsewhere in this *PaylinX Upgrade Guide* for information on PaylinX client API compatibility with the PaylinX Server V3.1.

If upgrading from V2.6.5 to PaylinX V3.I PaylinX V2.6.5

The Merchant ID and communication connection information is brought forward from PaylinX V2.6.5 to PaylinX 3.1 provided you are upgrading to the same payment option that you have with your current PaylinX V2.6.5 installation. Also, depending on the payment solution you are upgrading from in PaylinX V2.6.5, the merchant account information may be brought forward.

PaylinX V2.6.5 Payment Option	PaylinX V3.I Payment Option
FDC Generic Modem	FDC Generic Modem
FDC ISDN	FDC ISDN
FDC NIP	FDC NIP
Visa ISDN	Vital ISDN

Table 2-3: PaylinX V2.6.5 to PaylinX V3.1 direct upgrade path

PaylinX V2.6.5 Transaction API upgrade issues

The PaylinX APIs V2.6.5 may be compatible with the PaylinX Server V3.1, depending on the changes we've made to the Server. We've indicated in the table below which PaylinX APIs were available with PaylinX V2.6.5 and which PaylinX APIs are available with PaylinX V3.1. If you have developed an integration, you may have to re-program the integration to take advantage of the newer capabilities of PaylinX Transaction API for PaylinX V3.1. Contact PaylinX Product Support for information regarding the PaylinX APIs and their compatibility with PaylinX V3.1.

PaylinX APIs V2.6.5	PaylinX APIs V3.1
ActiveX VB and ASP	ActiveX VB and ASP
C Unix	C Unix
C Win32	C Win32
Java	Java

Table 2-4: PaylinX APIs for V2.6.5 to V3.1

Merchant ID and store number in V2.6.5

PaylinX V2.6.5 relates your financial processor merchant account to a 12-digit merchant identification (Merchant ID) number. Stores are set up under each Merchant ID using a four-digit store number under the Merchant ID.

When upgrading from PaylinX V2.6.5, the merchant identification number is retained; however, the store information is lost. Any outstanding transactions under that Merchant ID, no matter the store, is grouped under that Merchant ID in PaylinX 3.1.

This change from Merchant ID and store number to Merchant ID only is reflected in the PaylinX database and Windows Registry. If your payment system uses the PaylinX Client for Windows or implements our PaylinX client APIs for transactions, the Merchant ID numbers continue to be called from the Windows Registry. However, if your payment system runs on a platform other than Windows or implements an API that does not access the Windows Registry, you'll need to update these clients manually with the Merchant ID numbers and any outstanding transactions.

Store name

Established in PaylinX V2.5 and continued in V2.6.5, store name is a setting that allows you to name the store or merchant within the PaylinX Administration Client. This setting no longer exists in PaylinX V3.1. During the upgrade process, any store name you set is not brought forward in the PaylinX Administration Client for V3.1. Therefore, you must now identify merchants through the merchant identification number.

PaylinX V2.6.5	PaylinX Upgrade	PaylinX V3.I
Merchant D (2 digits)	Merchant ID (12 digits)	Merchant D (32 alphanumeric characters)
Store Number (4 digits)		

Table 2-5: PaylinX V2.6.5 Merchants tab settings

For assistance, call PaylinX Product Support. Refer elsewhere in this PaylinX $Upgrade\ Guide$ for information on PaylinX client API compatibility with the PaylinX Server V3.1.

If upgrading from V3.0.2 SPI and SP2 to PaylinX V3.1

The financial processor and communication options are defined as Loadable Payment Cartridges (LPCs) in PaylinX V3.0.2. All LPCs in PaylinX V3.0.2 exist in PaylinX V3.1. All settings are brought forward. However, settings that are specific to PaylinX V3.1 must be entered. For example, you will be required to check or complete new fields within the LPC Settings and the LPC Instances tab for each merchant. Refer elsewhere in this *PaylinX Upgrade Guide* or refer to the *PaylinX Administration Client Guide* for more information.

PaylinX V3.0.2 Payment Option	PaylinX V3.1 Payment Option
Discover/Novus	Discover/Novus
FDC Frame Relay	FDC Frame Relay
FDC NIP	FDC NIP
Chase Lease	FDMS South
Paymentech Frame Relay	Paymentech Frame Relay
Vital VirtualNet SSL/IP (added in V3.0.2 SP2)	Vital VirtualNet SSL/IP

Table 2-6: PaylinX V3.0.2 to PaylinX V3.1 direct upgrade path

PaylinX V3.0.2 SPI and SP2 Transaction API upgrade issues

The PaylinX APIs V3.0.2 SPI and SP2 may be compatible with the PaylinX Server V3.1, depending on the changes we've made to the Server. We've indicated in the table below which PaylinX APIs were available with PaylinX V3.0.2 SPI and SP2 and which PaylinX APIs are available with PaylinX V3.1. If you have developed an integration, you may have to re-program the integration to take advantage of the newer capabilities of PaylinX Transaction API for PaylinX V3.1. Contact PaylinX Product Support for information regarding the PaylinX APIs and their compatibility with PaylinX V3.1.

PaylinX APIs V3.0.2 SP1 and SP2	PaylinX APIs V3.1
ActiveX VB and ASP	ActiveX VB and ASP
C Unix	C Unix
C Win32	C Win32
Java	Java

Table 2-7: PaylinX APIs for V3.0.2 SPI and SP2 to V3.I

Merchant ID in PaylinX V3.0.X

PaylinX V3.0.X uses the same Merchant ID as PaylinX V3.1 uses. Store Name and Store Number settings are not used in PaylinX V3.X.X and newer. Please look elsewhere in this guide for information on PaylinX client API compatibility with the PaylinX V3.1 Server.

For all PaylinX versions

For the PaylinX Server and the PaylinX Administration Client Security settings

If you are upgrading from V2.5 and V2.6.5, review the background information elsewhere in this document because the merchant identification information within the PaylinX settings changes from V2.5 and V2.6.5 to V3.1. Record the security settings contained within the Security tab of the PaylinX Server properties for each Merchant Number in V2.5 and each Merchant ID in V2.6.5 and V3.0.2. These settings relate to the Windows NT Group names.

After installing the PaylinX software and before processing any transactions with the upgraded PaylinX Server, review the security settings under the Security tab to verify that all Merchants and all options have been checked and recorded. These settings do not migrate and must be reconfigured after the installation of PaylinX V3.1 and before any transaction processing begins.

If you are upgrading from V2.5, note that the transaction names have changed. However, transaction names are the same from V2.6.5 and newer. Look elsewhere in this document for the mapping of transaction terms from the prior versions to PaylinX V3.1.

Other settings

The general PaylinX Administration Client settings contained with the Database tab, the Storage tab, the Server tab will be brought forward.

PaylinX V2.5 and PaylinX V2.6.5 use a tab indicating the connection type to the financial processor. In PaylinX V2.5, only POS-port and Paymentech were offered as communication connections to a financial processor. However in PaylinX V2.6.5, additional financial processor and connection types were added. The processor was First Data Corporation (FDC). The connection types were ISDN, Modem, NIP (Frame Relay). The information in these tabs are grouped into the LPC Instances tab in PaylinX V3.1.

If you are upgrading from PaylinX V3.0.X, the Server properties tabs are the same.

For the PaylinX Client for Windows

The general settings for the PaylinX Client for Windows are stored in the Windows Registry. These settings are brought forward from all versions.

For the PaylinX Client Configuration Editor (Store Editor in V2.5 and V2.6.5)

Our testing indicates that these client settings migrate forward from all versions. Please refer elsewhere in this guide for a discussion of merchant identification, store name, and store number when upgrading from V2.5 and V2.6.5.

For the PaylinX Database Utility

The PaylinX Database Utility contains the database export and purge settings of the database information. Only within the PaylinX Database Utility can you specify the target directory and file to which the exported database information is written.

For PaylinX Reports

All settings and custom reports are preserved in the overlay upgrade. However, PaylinX Reports for V2.5 and V2.6.5 use a different table in the database for storing merchants and other settings. During the upgrade process, you will lose this information. Therefore, you must run all reports before proceeding with the upgrade.

Run reports after you have completed and settled transactions the first time. You will need to reconfigure the merchants for reporting purposes. Also, you will need to rebuild your custom reports because the PaylinX V3.1 database schema changed from all prior versions.

Duplicate transaction sequence numbers in the PaylinX Database

PaylinX V3.1 checks for duplicate sequence numbers when running the PaylinX Database Utility database update. If your existing database contains duplicate sequence numbers when running the PaylinX Database Utility update routine the process halts. Then, the PaylinX Database Utility warns you the database has encountered duplicate sequence numbers. The database cannot be updated and generates error messages. If your PaylinX database contains duplicate sequence numbers, contact PaylinX Product Support.

Upgrade Preparation

Before starting the upgrade process, read the background information below relevant to your current PaylinX version. All settings are brought forward during the upgrade unless noted elsewhere in this guide. In many cases, you're required to enter new information for the payment settings even though your PaylinX Server maintains the financial processor and communication option or Loadable Payment Cartridge (LPC) from the previous version. For PaylinX Security settings under the Security tab within the PaylinX Administration Client, you'll need to record the current settings before you begin the upgrade process. These settings need to be reentered after the upgrade and prior to transaction processing.

PaylinX V3.1 now uses modular software components containing all the financial processor settings. These modules are called Loadable Payment Cartridges (LPCs). Each LPC has two components. The first component is the LPC Settings that contain the merchant account information. The second component is the LPC Instance. This component contains the networking information the PaylinX Server uses to exchange transaction information with the financial processor.

When upgrading from a PaylinX version using a specific communication payment option, you'll need to enter additional information. You can obtain this information before the upgrade process by calling your financial processor. When you contact your financial processor, have the *PaylinX Installation Reference Card* for the LPC available so you can fill out the card with all financial processor merchant account and networking information needed to complete the upgrade process.

You'll enter this information through the PaylinX Administration Client for the PaylinX Server properties. All financial processor merchant account information is stored in the LPC Settings within the Merchant tab. The communications connectivity information is stored in the LPC Instances tab.

If upgrading from POS-port V2.5 SPI to Vital Modem V3.1

At the present time, the Vital Modem LPC for PaylinX V3.1 is not available. If you require the Vital financial processor and modem capabilities, please call PaylinX Product Support for information on the LPC.

If upgrading from Paymentech V2.5 SPI to Paymentech V3.1

All settings are brought forward. However, PaylinX V3.1 uses a new Paymentech processor specification. This specification change requires you to recertify the PaylinX Server transaction capabilities with Paymentech.

Before beginning the upgrade process, contact Paymentech and obtain new Authorization and Settlement ports for both your test and production environment. Let Paymentech know that you are upgrading your PaylinX software and that PaylinX V3.1 conforms to their 3.0 specification. Coordinate with Paymentech on the upgrade and recertification procedure.

If upgrading from VISA ISDN 2.6.5 SPI V2.6.5 to Vital ISDN V3.1

Two new fields have been added since the V2.6.5 implementation. These fields are the Merchant Name and Card Holder Service Number. Two fields have changed. These fields are the Currency Code and the Country Code.

PaylinX V3.I New Fields	PaylinX V3.1 Changed Fields
Merchant Name	Currency Code
Card Holder Service Number	Country Code

Table 2-8: PaylinX V3.1 New Fields and Changed Fields

PaylinX V2.6.5 indicates these values by the nationality names of the currency processed and the country name where you are conducting business. In PaylinX V3.1, the Currency Code and Country Code are values provided by Vital. The default for US currency and the US Country are both 840. For other country and currency codes, contact Vital.

If upgrading from FDC ISDN 2.6.5 SPI to FDC ISDN V3.1

For FDC ISDN, you'll need to enter the Vendor ID under the LPC Settings. You can obtain this number from FDC.

If upgrading from FDC Modem V3.1

In PaylinX V3.1 for the FDC Modem payment option, only one telephone number is used for authorization and settlement. Contact FDC for this information.

If upgrading from FDC NIP V2.6.5 to FDC NIP V3.1

All settings are brought forward. However, you should record the Vendor ID within the Payment Pipes tab of the PaylinX V2.6.5 Server Properties. This Vendor ID within PaylinX V2.6.5 becomes the Source ID within PaylinX V3.1. Enter this value in the Source ID field of the FDC NIP LPC Instance within the LPC Instances tab of the PaylinX V3.1 Server properties.

If your installation of PaylinX V2.6.5 for FDC NIP included more than one Merchant, contact PaylinX Product Support for assistance.

If upgrading from Paymentech Frame Relay V3.0.2 to Paymentech Frame Relay V3.1

When upgrading from PaylinX V3.0.2 SPI and SP2 merchant settings, LPC Settings, and LPC Instances are brought forward.

If upgrading from FDC Frame Relay V3.0.2 to FDC Frame Relay V3.1

When upgrading from PaylinX V3.0.2 SPI and SP2 merchant settings, LPC Settings, and LPC Instances are brought forward.

If upgrading from FDMS South V3.1

PaylinX V3.0.2 SPI and SP2 referred to the FDMS South LPC as the Chase Lease LPC.

For V3.0.2 SPI

When upgrading from PaylinX V3.0.2 SPI, you will need to add a few settings. The job card file location and the ftp username and password will need to be re-entered by the user within the LPC Settings. A unique job card file must be created for each unique merchant using a unique merchant account to FDMS South. Select Enable Foreign Currency if you will be processing transactions in values other than United States dollars and cents.

If you have a merchant account with Carte Blanche, as of PaylinX V3.1, you may now enter your merchant number to process Carte Blanche transactions through FDMS South.

Within the LPC Instances tab, select three post settlement times and how long to keep the settlement files on the hard drive.

For V3.0.2 SP2

Within the LPC Instances tab, select the three post settlement times and how long to keep the settlement files on the hard drive.

If upgrading from FTB V3.0.2 to FTB V3.1

For V3.0.2 SPI and SP2

When upgrading from any version of PaylinX V3.0.2 SP1 or SP2 for First Tennessee Bank (FTB), you will need to select the Merchant Number from within the LPC Settings of any merchant using the First Tennessee LPC. This is a new field.

If upgrading from Discover/Novus INIP V3.0.2 to Discover/Novus INIP V3.1

When upgrading from PaylinX V3.0.2 SPI or SP2, you will need to select the US state or Canadian province within the LPC Settings for any merchant using the Discover/Novus LPC. In V3.0.2 SPI and SP2, you entered the abbreviation for the US state or Canadian province.

If upgrading from Vital VirtualNet SSL/IP V3.0.2 to Vital VirtualNet SSL/IP V3.1

When upgrading from PaylinX V3.0.2 SPI and SP2 to PaylinX V3.1, a batch number needs to be added to the LPC Instance. Please contact Vital for this information.

Upgrade Instructions

Warning

Upgrading to PaylinX V3.1

This procedure is for upgrading from PaylinX V2.5, V2.6.5, V3.0.2 SP1, and V3.0.2 SP2 to PaylinX V3.1.

Review all background information in this document for your current version of PaylinX prior to performing this upgrade process. Failure to review this information may cause you to improperly apply this upgrade, resulting in loss of transaction or merchant information. Follow the upgrade process below to bring the current settings forward to the PaylinX V3.1 install automatically except as noted elsewhere in this guide.

If your particular point-of-sale integration requires interaction with the public or other purchasing group, you will need to use another PaylinX Server or backup PaylinX Server to take over transaction processing during the upgrade process. If at anytime you are unable to process transaction requests, you may want to indicate at your point of sale that you are unable to process transaction requests.

If you are required to reprogram to the PaylinX V3.1 Transaction API, you may do so at any time after you have disabled transaction processing on the old PaylinX installation yet prior to accepting transactions through your integration. Refer to the *PaylinX API Reference Guide* and PaylinX Product Support for more information.

This upgrade process takes into consideration all prior versions and all payment and communication options or Loadable Payment Cartridges (LPCs) in the PaylinX versions included in the PaylinX V3.1 migration plan.

End transaction processing on current PaylinX Installation

- I. On the Desktop, select *Start*, *Programs*, *PaylinX* 2.5, 2.6, or 3.0, and then *PaylinX Administration Client*.
- If not already connected to the PaylinX Server, from the Server menu select Connect.
- **3.** Enter the IP address, Username, and Password of the PaylinX Server you are going to perform the overlay upgrade.

If the PaylinX Server is running on the same computer from which you are running the PaylinX Administration Client, enter localhost.

If the PaylinX Server is configured to connect to the PaylinX Administration Client through an IP Port other than 28882, enter the Port number. The default is 28882.

Note. The version of the PaylinX Administration Client must be the same as the PaylinX Server to which it will connect and administer.

- **4.** In the PaylinX Administration Client screen, select the PaylinX Server you wish to disable in preparation for upgrade.
- **5.** From the *Server* menu, select *Properties*.
- 6. Select the Security tab.
- 7. Record the settings listed below:
 - Required User Authentication whether or not the setting is checked
 - Group Name –

Open the Group Name by selecting a group, then click Configure. Within the group record the transaction limits by Amount, Return Amount, and Timeout. Record the Merchants that are checked within that Group.

Finally, record the transaction types the selected Group can perform.

Note. You will re-enter the recorded settings into the Security tab of the PaylinX V3.1 Server properties. The transaction names have changed if you are upgrading from V2.5. The transaction names are the same from V2.6.5 and newer but new transaction types have been added. Look elsewhere in this document for the mapping of transaction terms from the prior versions to V3.1.

8. From the *Server* menu, select *Stop Accepting Transactions*. This step effects all merchants on a PaylinX Server, preventing the Server from accepting transactions.

Settle all open drafts

 From the Server menu, select Settle Now. This step forces all merchants on the PaylinX Server to settle.

You may wait more than an hour before all transaction batches have settled. The time it takes for batches to be sent until the batches have been processed and returned can vary due to the financial processor's transaction volume, network activity, and speed of the computer on which PaylinX is running.

2. From the *Server* menu, select *Error Log*.

If any batch processing errors have occurred during settlement, contact PaylinX Product Support for assistance.

Depending on what financial processor you are using, you will need to contact the Help Desk of that financial processor in settling lost batches.

3. Confirm all transactions are settled. Have the PaylinX Database Administrator check the settlement table to confirm all transactions settled properly using the following SQL Scripts:

If upgrading from PaylinX V2.5:

```
select * from PX_TRANSACTION where (BATCH_ID = '' OR
BATCH_ID IS NULL) AND PRESENTATION_RESPONSE_CODE =
'00' AND (( TRANSACTION_CODE = '20' AND
AUTHORIZATION_RESPONSE_CODE = '00') OR
TRANSACTION_CODE = '25' OR TRANSACTION_CODE = '26')
AND SERVER_ID = 'X'
```

Where X is the appropriate ID of your server.

If upgrading from PaylinX V2.6.5:

```
select * from PX_TRANSACTION where BATCH_ID = '' AND
PRESENTATION_RESPONSE_CODE = '00' AND ((
TRANSACTION_CODE = '20' AND
AUTHORIZATION_RESPONSE_CODE = '00' ) OR
TRANSACTION_CODE = '25' OR TRANSACTION_CODE = '26' )
AND SERVER_ID = 'X'
```

Where X is the appropriate ID of your server.

If upgrading from PaylinX V3.02 SPI and SP2:

```
select count(*) as TOTAL_DRAFTS from CC_TRANSACTION
where ((BATCH_ID IS NULL or BATCH_ID = '') AND
(DRAFT_ID IS NULL or DRAFT_ID = '')) AND
((TRANSACTION_CODE = '104' AND AUTH_RESP_CODE = 'A')
OR ((TRANSACTION_CODE = '102' OR TRANSACTION_CODE =
'103') AND LCC_RETURN_CODE = '0')) AND
TRANSACTION_STATE <> 'V' AND TRANS_DATE_TIME < {ts
'yyyy-mm-dd hh:mm:ss'}
Replace yyyy-mm-dd hh:mm:ss with the current date and time.</pre>
```

- **4.** Once all batches have settled, run PaylinX Reports. On the Desktop, select *Start*, *Programs*, *PaylinX 2.5*, *2.6*, or *3.0*, and then *PaylinX Reports*.
 - **Note.** If you use a reporting tool other PaylinX Reports in generating transaction reports from your PaylinX database, perform comprehensive reporting on all transaction information contained in the database for your business model.
- 5. Run the Failed to Settle Report. If any transaction failed to settle
- 6. When complete, close PaylinX Reports.

Stop the PaylinX Server service

- Within the PaylinX Administration Client and from the Server menu, select Stop Service.
- **2.** Wait several minutes. The selected PaylinX Server status indicates the service has stopped.
- 3. Exit from the PaylinX Administration Client.

Backup the database

In this procedure, you will back up your database containing the PaylinX transaction information. Consult your database documentation for information on backing up your database if you do not have an established procedure. We suggest you make at least two copies of the database on separate computers. Should the PaylinX database schema update fail, the database can be restored from the back and the upgrade can be tried again. Through the PaylinX Database Utility, you can export the database entries to a .PXD flat file prior to the upgrade. If the upgrade should fail, you can re-import the information in the .PXD file to the PaylinX database using the same version of the PaylinX Database Utility that generated the .PXD file. Refer to PaylinX documentation should you wish to perform this procedure. A coherent recurring database back up procedure is strongly recommended.

Optional Step

Purge the PaylinX database of transaction information

To avoid the duplicate sequence numbers issue, purge the PaylinX database of all transaction information using the PaylinX Database Utility. Perform this procedure after you have confirmed all transactions have settled and after you have backed up the database. When the transaction information is removed, the time required to update the PaylinX database schema is reduced as well as the chance of any errors occurring. Merchant information and other non-transaction information will not be deleted. This operation does not affect the PaylinX Reports table.

Note. Before performing this step, the PaylinX Server service must be stopped or database corruption will result.

- I. On the Desktop, select *Start*, *Programs*, *PaylinX 2.5*, *2.6*, or *3.0*, and then *PaylinX Database Utility*.
- 2. From the Connect to Database dialog, enter the User Name, Password for the selected Datasource name. The PaylinX Database Utility opens.
- 3. Click Purge.
- 4. Within the Purge Start Date field, select Oldest Transaction.
- 5. Within the Purge End Date, select Newest Transaction. A warning indicates you are about to permanently remove information from the PaylinX Database. Be sure you have backed up your PaylinX database.
- **6.** Click OK. A progress bar indicates the deletion of the transaction information.
- 7. When complete, close the PaylinX Database Utility.

Backup the PaylinX Windows NT Registry settings

The Windows NT Registry keys will be backed up in this procedure. This backup is done in case problems occur during the upgrade. The Windows NT Registry settings can then be restored and the upgrade can be performed again.

- I. On the Desktop, from the *Start* menu, select *Run*.
- 2. In the Open field, enter regedit. Select OK. The Windows Registry Editor opens.
- 3. Navigate to /HKEY_CURRENT_USER/SOFTWARE/PAYLINX/.
- 4. Select, but do not open, the /PAYLINX/ key.
- **5.** From the *Registry* menu, select *Export Registry File*.
- 6. Within the Export Registry window, name the file CURRENT USER REGISTRY SETTINGS. Add the PaylinX version number to the end. Example: CURRENT USER REGISTRY SETTINGS 25.

Note. To find what version of PaylinX you are running on your current install, with the PaylinX Administration Client, from the *Help* menu, select *About PaylinX Administration Client*.

- **7.** Navigate to a directory and click Save.
- Within the Windows Registry Editor, navigate to /HKEY_LOCAL_MACHINE/ SOFTWARE/PAYLINX/.
- **9.** Select, but do not open, the /PAYLINX/ key.
- **10.** From the *Registry* menu, select *Export Registry File*.
- **II.** Within the Export Registry window, name the file LOCAL MACHINE REGISTRY SETTINGS. Add the PaylinX version number to the end. Example: LOCAL MACHINE REGISTRY SETTINGS 25.
- **12.** Navigate to a directory to save the registry file. Click Save. You will want to save these Windows Registry keys to another computer. Make at least two back up copies.
- 13. Exit out of the Windows Registry Editor.

You will now install PaylinX V3.1. Have the PaylinX V3.1 documentation available.

Install PaylinX V3.1

In order to install PaylinX V3.1, you will need to have the following items:

- The PaylinX V3.1 Installation CD-ROM or install image.
- The PaylinX License key enabling the features you have ordered. Contact your PaylinX Sales Account Representative for a new license key.
- The PaylinX database Encryption Key File and the Key Serial Number if you ordered this feature.
- The SSL Certificate if you want to use 128-bit SSL encryption for transactions passed from the PaylinX SSL enabled APIs to the PaylinX Server.
 - If you are upgrading from PaylinX V3.0.2 SPI, when PaylinX introduced this product enhancement, the overlay upgrade will bring the SSL Certificate forward. You may or may not need to upgrade you APIs. Refer elsewhere in this document for more information on API compatibility.
 - If you are upgrading from PaylinX V2.5, V2.6.5, you will generate the SSL Certificate request after the installation of PaylinX V3.1

Note. V2.X.X of the PaylinX Server uses a twelve digit sequence number. If you continue using the database with data written by any PaylinX V2.X.X, you must select this option within the Server tab of the PaylinX V3.I Server properties. Contact PaylinX Product Support for assistance.

Refer to these procedures in the *PaylinX Administration Client Guide* for PaylinX V3.1:

- Installation and setup procedures
- Updating the database schema with the PaylinX Database Utility
- The database encryption procedure
- The SSL certificate request procedure
- Configuring the merchant information and the communication option in the LPCs
- Re-enter the Security information that you recorded from the prior installation of PaylinX.

After the installation and before processing transactions

The PaylinX Security information needs to be re-entered with the recorded security settings from your prior PaylinX installation. Depending on the version from which you upgraded, there may be changes in the available merchant names.

The PaylinX V3.I Server is designed to be backwards compatible with all PaylinX transaction APIs beginning with the PaylinX V2.5 API. You will need to test this functionality in your integration. Use of legacy PaylinX APIs prevents your integration from taking advantage of the newest features available in the PaylinX V3.I transaction API and the PaylinX V3.I Server. The PaylinX V3.I API, for example, offers improved security and integration convenience. Any of our SSL enabled transaction API programming libraries can communicate to the PaylinX V3.I Server using I28-bit SSL 3.0 encryption. Further, the PaylinX V3.I API and the PaylinX V3.I Server are compatible with Level III purchase cards. Contact PaylinX the Sales Group for more information.

If you continue using the PaylinX V2.5 and V2.6.5 APIs, you do not need to modify the configuration files for the APIs. The transaction port on the PaylinX Server automatically concatenates the merchant and store identifiers to the PaylinX V3.1 Merchant format. If you set up additional merchants on the PaylinX Server, you will need to establish a PaylinX Merchant ID on the PaylinX Server. When modifying the configuration files, use the V2.5 and V2.6.5 merchant/store identifiers. Refer to the PaylinX API Reference Guide for more information on setting up the configuration files.

Review the PaylinX documentation completely before modifying settings on the PaylinX Server or any of the components within the PaylinX System. PaylinX V3.I includes many improvements and feature enhancements for superior transaction processing performance over all prior versions of PaylinX.

Performing a clean installation

An optional upgrade method to PaylinX V3.1 is to perform a new installation on a new Windows NT 4.0 Server with a new database running on a new computer of its own. Configure the PaylinX Server settings as needed. Finally, set the new Windows NT Server running PaylinX V3.1 to take over the transaction processing of the PaylinX Server.

At the time you installed the prior version of PaylinX, your hardware may have been current. PaylinX 3.I requires more hard drive space, a faster processor, and more available RAM than prior PaylinX versions. A new install on a new Windows NT Server affords an extra measure of system stability.

These benefits also apply to upgrading your database software and the computer running your database. Refer to and review your database documentation and supporting literature for database upgrade information.

Database schema update

PaylinX database schema update mapping

The PaylinX database schema has changed reflecting the enhanced PaylinX V3.1 features and functionality. The comparisons included here are of the PaylinX database schema from a given legacy version with the PaylinX V3.1 database schema. As part of the PaylinX V3.1 migration plan, the legacy database schema information includes PaylinX V2.5, V2.6.3, V2.6.5, V3.0.2 SP1, and V3.0.2 SP2 in comparison with the PaylinX V3.1 database schema. The PaylinX V2.4 database schema information is added for background. PaylinX V2.4 is not included in the PaylinX V3.1 migration plan.

In some upgrade instances, depending on the PaylinX version you are upgrading from, table and field names have changed. Where applicable, the remapping of fields as part of the PaylinX V3.1 migration plan is discussed.

Within each table, the legacy version field names are ordered alphabetically for quick field location of a specific fields in a table.

Please refer to PaylinX documentation for a description of the database schema for your legacy PaylinX version and PaylinX V3.1 documentation for a complete description of the PaylinX V3.1 database schema.

The PaylinX Database Utility application creates the primary PaylinX schema. The PaylinX Reports application creates the STORE_LIST, RPT_MERCHANT_LIST, and the MERCHANT_LIST in the PaylinX database.

The procedure to update your legacy PaylinX database schema to V3.1 is elsewhere in this guide.

Please contact PaylinX Product Support for more information.

Upgrading from PaylinX V2.5 to V3.1

In PaylinX Version 2.4 and 2.5, the primary table containing transaction data is PX_TRANSACTION. In PaylinX V3.1, the table is renamed CC_TRANSACTION.

When running the PaylinX Database Utility V3.1 to update your PaylinX V2.5 database to the PaylinX V3.1 database schema, the fields MERCHANT_NUMBER and STORE_NUMBER are concatenated to the PaylinX V3.1 MERCHANT_ID. All transaction information is migrated under the new PaylinX V3.1 Merchant ID.

PaylinX V2.4 and V2.5 PX_TRANSACTION		PaylinX V3.1 CC_TRANSACTION	
Field Name	Character Format	Field Name	Character Format
ACCOUNT_DATA_SOURCE	l (alphanumeric)	ACCT_DATA_SOURCE	(alphanumeric)
ACCOUNT_NUMBER	28 (alphanumeric)	ACCOUNT_NUMBER	28 (alphanumeric)
ADDRESS_VERIFICATION_FIELD	29 (alphanumeric)		
ADDRESS_VERIFICATION_RESULT	(alphanumeric)		
APPROVAL_CODE	6 (alphanumeric)	APPROVAL_CODE	9 (alphanumeric)
AUTHORIZATION_RESPONSE_CODE	2 (alphanumeric)	PROC_AUTH_RSP_CODE	4 (alphanumeric)
AUTHORIZATION_RESPONSE_MSG	6 (a phanumeric)	AUTH_RESPONSE_MSG	20 (alphanumeric)
AUTHORIZATION_SOURCE_CODE	(alphanumeric)	AUTH_SOURCE_CODE	(alphanumeric)
BAD_DATA_FIELD	7 (a phanumeric)	BAD_FIELD_DATA	30 (alphanumeric)
BAD_DATA_FIELD_NUMBER	2 (alphanumeric)	BAD_FIELD_CODE	3 (alphanumeric)
BATCH_ID	4 (alphanumeric)	BATCH_ID	2 (alphanumeric)
CARD_HOLDER_ID_CODE	(alphanumeric)	CARDHOLDER_ID_CODE	(alphanumeric)
CARD_HOLDER_NAME	26 (alphanumeric)	CUSTOMER_NAME	26 (alphanumeric)
CARD_TYPE	4 (alphanumeric)	CARD_TYPE	4 (alphanumeric)
DRAFT_ID	6 (alphanumeric)	DRAFT_ID	8 (alphanumeric)
EXPIRATION_DATE	4 (alphanumeric)	EXPIRATION_DATE	4 (alphanumeric)
GROUP_ID	4 (alphanumeric)		
MERCHANT_ID_SELECTOR	3 (alphanumeric)		
MERCHANT_NUMBER	2 (a phanumeric)	MERCHANT_ID	32 (alphanumeric)
MULTIPLE_CLEARING_SEQ_COUNT	2 (alphanumeric)	RECUR_TRANS_COUNT	2 (alphanumeric)
MULTIPLE_CLEARING_SEQ_NUMBER	2 (alphanumeric)	RECUR_TRANS_NUMBER	2 (alphanumeric)
NO_SHOW_SPECIAL_PROGRAM	(alphanumeric)		
OPTIONAL_AMOUNT	2,2 (numeric)	TAX_AMOUNT	6 (numeric)

Table 4-1: PaylinX V2.4 and V2.5 PX_TRANSACTION fields mapped to PaylinX V3.1 CC_TRANSACTION fields

PaylinX V2.4 and V2.5 PX_TRANSACTION		PaylinX V3.1 CC_TRANSACTION	
Field Name	Character Format	Field Name	Character Format
OPTIONAL_AMOUNT_ID	(a phanumeric)		
PARENT_SEQUENCE_NUMBER	2 (alphanumeric)	PARENT_SEQ_NUMBER	5 (alphanumeric)
PAYLINX_SEQUENCE_NUMBER	2 (alphanumeric)	SEQUENCE_NUMBER	5 (alphanumeric)
POSPORT_ID	3 (alphanumeric)		
PRESENTATION_RESPONSE_CODE	2 (alphanumeric)	LCC_RETURN_CODE	4 (alphanumeric)
PURCHASE_AMOUNT	12,2 (numeric)	AMOUNT	6 (numeric)
PURCHASE_IDENTIFIER	25 (alphanumeric)	ORDER_NUMBER	25 (alphanumeric)
PURCHASE_IDENTIFIER_FORMAT	(a phanumeric)		
requested_aci	(a phanumeric)	REQUESTED_ACI	(alphanumeric)
RETRIEVAL_REFERENCE_NUMBER	2 (alphanumeric)	RET_REFERENCE_NUM	2 (alphanumeric)
RETURN_STATUS	4 (alphanumeric)		
RETURNED_ACI	(alphanumeric)	RETURNED_ACI	(alphanumeric)
SERVER_ID	3 (alphanumeric)	SERVER_ID	4 (alphanumeric)
SOURCE_IP_ADDRESS	5 (alphanumeric)	SOURCE_IP_ADDRESS	5 (alphanumeric)
STORE_NUMBER	4 (alphanumeric)		
SUB_ACCOUNT_NUMBER	6 (alphanumeric)	P_CARD_ORDER_NUM	6 (alphanumeric)
TOTAL_PURCHASE_AMOUNT	12,2 (numeric)		
TRANSACTION_CODE	2 (alphanumeric)	TRANSACTION_CODE	3 (alphanumeric)
TRANSACTION_DATE_TIME	Date/Time	TRANS_DATE_TIME	Date/Time
TRANSACTION_ID	5 (alphanumeric)	TRANSACTION_ID	15 (alphanumeric)
TRANSACTION_TYPE	2 (alphanumeric)		
USER_DEFINED_I	20 (alphanumeric)	USER_DEFINED_I	50 (alphanumeric)
USER_DEFINED_2	20 (alphanumeric)	USER_DEFINED_2	50 (alphanumeric)
USER_NAME	3 (alphanumeric)	USER_SOURCE_NAME	3 (alphanumeric)
USER_SEQUENCE_NUMBER	20 (alphanumeric)	USER_SEQUENCE_NUM	50 (alphanumeric)
VALID_TRANSACTION	(a phanumeric)		
VALIDATION_CODE	4 (alphanumeric)	VALIDATION_CODE	4 (alphanumeric)
		ACCOUNT_EXTENSION	80 (alphanumeric)
		ADDRESS_MATCH	(alphanumeric)
		ALT_TAX_AMOUNT	20 (alphanumeric)

Table 4-1: PaylinX V2.4 and V2.5 PX_TRANSACTION fields mapped to PaylinX V3.1 CC_TRANSACTION fields

PaylinX V2.4 and V2.5 PX_TRANSACTION		PaylinX V3.1 CC_TRANSACTION	
Field Name Character Format		Field Name	Character Format
		ALT_TAX_ID	20 (alphanumeric)
		AUTH_COUNTRY	3 (alphanumeric)
		AUTH_CURRENCY	3 (alphanumeric)
		AUTH_RESP_CODE	(alphanumeric)
		CARD_PRESENT_FLAG	(alphanumeric)
		CLEAR_COUNTRY	3 (alphanumeric)
		CLEAR_CURRENCY	3 (alphanumeric)
		COM_CARD_TYPE	2 (alphanumeric)
		CURRENT_AMOUNT	6 (numeric)
		CURRENT_TAX_AMOUNT	6 (numeric)
		CUST_PRESENT_FLAG	(alphanumeric)
		CUSTOMER_CITY	20 (alphanumeric)
		CUSTOMER_EMAIL	50 (alphanumeric)
		CUSTOMER_IP_ADDR	30 (alphanumeric)
		CUSTOMER_PHONE	4 (alphanumeric)
		CUSTOMER_STATE	2 (alphanumeric)
		CUSTOMER_STREET	20 (alphanumeric)
		CUSTOMER_ZIP	9 (alphanumeric)
		CVV_RESPONSE_CODE	4 (alphanumeric)
		DISCOUNT_AMOUNT	20 (alphanumeric)
		DUTY_AMOUNT	20 (alphanumeric)
		E_COMMERCE_TYPE	2 (alphanumeric)
		FRAUD_REASON_CODE	6 (alphanumeric)
		FRAUD_RESP_CODE	255 (alphanumeric)
		FRAUD_SCORE	4 (alphanumeric)
		FREIGHT_AMOUNT	20 (alphanumeric)
		LCC_RETURN_MSG	40 (alphanumeric)
		LINE_ITEM_COUNT	4 (alphanumeric)
		LOCAL_DATE_TIME	Date/Time
		LPC_TYPE	4 (alphanumeric)

Table 4-I: PaylinX V2.4 and V2.5 PX_TRANSACTION fields mapped to PaylinX V3.I CC_TRANSACTION fields

PaylinX V2.4 and V2.5 PX_TRANSACTION		PaylinX V3.1 CC_TRANSACTION	
Field Name Character Format		Field Name	Character Format
		MARKET_SPEC_IND	2 (alphanumeric)
		MERCH_BILL_LOC	3 (alphanumeric)
		MERCH_BILL_NAME	25 (alphanumeric)
		MERCH_BILL_STATE	2 (alphanumeric)
		ORIGINAL_AMOUNT	6 (numeric)
		POS_ENTRY_MODE	(alphanumeric)
		POS_MODE_CODE	2 (alphanumeric)
		PROC_AVS_RESULT	3 (alphanumeric)
		RESERVED_I	50 (alphanumeric)
		RESERVED_2	50 (alphanumeric)
		response_indicator	2 (alphanumeric)
		SETTLE_COUNTRY	3 (alphanumeric)
		SETTLE_CURRENCY	3 (alphanumeric)
		SHIP_FROM_ZIP_CODE	9 (alphanumeric)
		SHIP_TO_ADDRESS_I	20 (alphanumeric)
		SHIP_TO_ADDRESS_2	20 (alphanumeric)
		SHIP_TO_CITY	20 (alphanumeric)
		SHIP_TO_PHONE	4 (alphanumeric)
		SHIP_TO_STATE	2 (alphanumeric)
		SHIP_TO_ZIP_CODE	9 (alphanumeric)
		TERM_CAPABILITY	(alphanumeric)
		TERMINAL_TYPE	(alphanumeric)
		TRANS_ATTRIBUTE	2 (alphanumeric)
		TRANSACTION_STATE	(alphanumeric)
		USER_DEFINED_3	50 (alphanumeric)
		USER_DEFINED_4	50 (alphanumeric)
		USER_DEFINED_5	50 (alphanumeric)
		VAT_TAX_AMOUNT	20 (alphanumeric)
		VAT_TAX_RATE	20 (alphanumeric)
		ZIP_MATCH	(alphanumeric)

Table 4-1: PaylinX V2.4 and V2.5 PX_TRANSACTION fields mapped to PaylinX V3.1 CC_TRANSACTION fields

PaylinX V2.4 and \	/2.5 SETTLEMENT	PaylinX V3.1 C0	C_SETTLEMENT
Field Name	Character Format	Field Name	Character Format
BATCH_ID	4 (alphanumeric)	BATCH_ID	2 (numeric)
CDC_BATCH_ID	3 (alphanumeric)		
CDC_RESPONSE_CODE	2 (alphanumeric)		
CDC_RESPONSE_MESSAGE	30 (alphanumeric)	BATCH_RESPONSE_MSG	30 (alphanumeric)
MERCHANT_NUM	2 (alphanumeric)	MERCHANT_ID	32 (alphanumeric)
OPEN_DATE_TIME	Date/Time		
POSPORT_ID	3 (alphanumeric)		
RESPONSE_CODE	2 (alphanumeric)	BATCH_STATUS	4 (alphanumeric)
SERVER_ID	3 (alphanumeric)	SERVER_ID	4 (numeric)
SETTLE_DATE_TIME	Date/Time	SETT LE_DATE_TIME	Date/Time
SUMMARIZED	(alphanumeric)		
		CURRENCY_CODE	3 (alphanumeric)
		LPC_TYPE	4 (alphanumeric)
		PROCESSOR_BATCH_ID	2 (alphanumeric)

Table 4-2: PaylinX V2.4 and V2.5 SETTLEMENT fields mapped to PaylinX V3.1 CC_SETTLEMENT fields

PaylinX V2.4 and V2.5 PX_MESSAGE		PaylinX V3.1 PX_MESSAGE	
Field Name	Character Format	Field Name	Character Format
CODE	5 (alphanumeric)	CODE	5 (numeric)
DATE_TIME	Date/Time	DATE_TIME	Date/Time
LOCATION	80 (alphanumeric)		
MESSAG E	200 (alphanumeric)	MESSAGE	200 (alphanumeric)
SERVER_ID	3 (numeric)	SERVER_ID	4 (numeric)

Table 4-3: PaylinX V2.4 and V2.5 PX_MESSAGE fields mapped to PaylinX V3.1 PX_MESSAGE fields

PaylinX V2.4 and V2.5 DB_STATUS		PaylinX V3.I DB_STATUS	
Field Name	Character Format	Field Name	Character Format
OLDEST_TRANSACTION	8 (numeric)	OLDEST_TRANSACTION	8 (numeric)
TOTAL_TRANSACTIONS	8 (numeric)	TOTAL_TRANSACTIONS	8 (numeric)

Table 4-4: PaylinX V2.4 and V2.5 DB_STATUS fields mapped to PaylinX V3.1 DB_STATUS fields

PaylinX V2.4 and V2.5 RPT_MERCHANT_LIST		PaylinX V3.I MERCHANT_LIST	
Field Name	Character Format	Field Name	Character Format
MERCHANT_ID	2 (numeric)	MERCHANT_INDEX	5 (numeric)
MERCHANT_NAME	50 (alphanumeric)	MERCHANT_NAME	50 (alphanumeric)
MERCHANT_NUMBER	2 (a phanumeric)	MERCHANT_ID	32 (alphanumeric)

Table 4-5: PaylinX V2.4 and V2.5 RPT_MERCHANT_LIST fields mapped to PaylinX V3.1 MERCHANT_LIST fields

PaylinX V2.4 and V2.5 STORE_LIST — Discontinued in PaylinX V3.1			
Field Name Character Format			
MERCHANT_ID	numeric		
STORE_ID	numeric		
STORE_NUMBER	4 (alphanumeric)		
STORE_NAME	50 (alphanumeric)		

Table 4-6: PaylinX V2.4 and V2.5 STORE_LIST

Upgrading from PaylinX V2.6.3 and V2.6.5 to V3.1

In PaylinX Version 2.6.3 and 2.6.5, the primary table containing transaction data is PX_TRANSACTION. In PaylinX V3.1, the table is renamed CC_TRANSACTION.

When running the PaylinX Database Utility V3.I to update your PaylinX V2.6.X database to the PaylinX V3.I database schema, the STORE_NUMBER field is dropped. PaylinX V3.I does not use a Store Number. All relevant transaction data for all Store Numbers under PaylinX V2.6.X Merchant ID are associated with that specific PaylinX V2.6.X Merchant ID. The PaylinX V2.6.X Merchant ID will become the PaylinX V3.I Merchant ID.

PaylinX V2.6.3 and V2.6.5 PX_TRANSACTION		PaylinX V3.1 CC_TRANSACTION	
Field Name	Character Format	Field Name	Character Format
ACCOUNT_DATA_SOURCE	(alphanumeric)	ACCT_DATA_SOURCE	∣ (a phanumeric)
ACCOUNT_NUMBER	28 (alphanumeric)	ACCOUNT_NUMBER	28 (alphanumeric)
ADDRESS_FIELD	20 (alphanumeric)	CUSTOMER_STREET	20 (alphanumeric)
ADDRESS_MATCH	(a phanumeric)	ADDRESS_MATCH	(a phanumeric)
ADDRESS_VERIFICATION_FIELD	29 (alphanumeric)		
ADDRESS_VERIFICATION_RESULT	(a phanumeric)		
APPROVAL_CODE	6 (alphanumeric)	APPROVAL_CODE	9 (alphanumeric)
AUTHORIZATION_RESPONSE_CODE	2 (alphanumeric)	PROC_AUTH_RSP_CODE	4 (alphanumeric)
AUTHORIZATION_RESPONSE_MSG	6 (alphanumeric)	AUTH_RESPONSE_MSG	20 (alphanumeric)
AUTHORIZATION_SOURCE_CODE	(a phanumeric)	AUTH_SOURCE_CODE	(alphanumeric)
BAD_DATA_FIELD	7 (alphanumeric)	BAD_FIELD_DATA	30 (alphanumeric)
BAD_DATA_FIELD_NUMBER	2 (alphanumeric)	BAD_FIELD_CODE	3 (alphanumeric)
BATCH_ID	4 (alphanumeric)	BAT CH_ID	2 (alphanumeric)
CARD_HOLDER_ID_CODE	(a phanumeric)	CARDHOLDER_ID_CODE	(a phanumeric)
CARD_HOLDER_NAME	26 (alphanumeric)	CUSTOMER_NAME	26 (alphanumeric)
CARD_PRESENT_FLAG	(a phanumeric)	CARD_PRESENT_FLAG	(a phanumeric)
CARD_TYPE	4 (alphanumeric)	CARD_TYPE	4 (alphanumeric)
COMMERCIAL_CARD_TYPE	2 (alphanumeric)	COM_CARD_TYPE	2 (alphanumeric)
CUSTOMER_PRESENT_FLAG	(a phanumeric)	CUST_PRESENT_FLAG	(a phanumeric)
DRAFT_ID	6 (alphanumeric)	DRAFT_ID	8 (alphanumeric)
E_COMMERCE_TYPE	2 (alphanumeric)	E_COMMERCE_TYPE	2 (alphanumeric)
EXPIRATION_DATE	4 (alphanumeric)	EXPIRATION_DATE	4 (alphanumeric)
GROUP_ID	4 (alphanumeric)		

Table 4-7: PaylinX V2.6.3 and V2.6.5 PX_TRANSACTION fields mapped to PaylinX V3.1 CC_TRANSACTION fields

PaylinX V2.6.3 and V2.6.5 PX_TRANSACTION		PaylinX V3.1 CC	TRANSACTION
Field Name	Character Format	Field Name	Character Format
MARKET_SPECIFIC_INDICATOR	2 (alphanumeric)	MARKET_SPEC_IND	2 (alphanumeric)
MERCHANT_ID_SELECTOR	3 (alphanumeric)		
MERCHANT_NUMBER	2 (alphanumeric)	MERCHANT_ID	32 (alphanumeric)
MULTIPLE_CLEARING_SEQ_COUNT	2 (alphanumeric)	RECUR_TRANS_COUNT	2 (alphanumeric)
MULTIPLE_CLEARING_SEQ_NUMBER	2 (alphanumeric)	RECUR_TRANS_NUMBER	2 (alphanumeric)
NO_SHOW_SPECIAL_PROGRAM	(alphanumeric)		
OPTIONAL_AMOUNT	12,2 (numeric)	TAX_AMOUNT	l 6 (numeric)
OPTIONAL_AMOUNT_ID	(alphanumeric)		
PARENT_SEQUENCE_NUMBER	2 (alphanumeric)	PARENT_SEQ_NUMBER	5 (alphanumeric)
PAYLINX_RESERVED_I	30 (alphanumeric)	RESERVED_I	50 (alphanumeric)
PAYLINX_RESERVED_2	30 (alphanumeric)	RESERVED_2	50 (alphanumeric)
PAYLINX_SEQUENCE_NUMBER	2 (alphanumeric)	SEQUENCE_NUMBER	5 (alphanumeric)
PLX_AUTH_RESPONSE_CODE	(alphanumeric)	AUTH_RESP_CODE	l (alphanumeric)
POS_ENTRY_MODE	(alphanumeric)	POS_ENTRY_MODE	(alphanumeric)
POS_MODE_CODE	2 (alphanumeric)	POS_MODE_CODE	2 (alphanumeric)
POSPORT_ID	3 (alphanumeric)		
PRESENTATION_RESPONSE_CODE	2 (alphanumeric)	LCC_RETURN_CODE	4 (alphanumeric)
PURCHASE_AMOUNT	12,2 (numeric)	AMOUNT	6 (numeric)
PURCHASE_IDENTIFIER	25 (alphanumeric)	ORDER_NUMBER	25 (alphanumeric)
PURCHASE_IDENTIFIER_FORMAT	(alphanumeric)		
REQUESTED_ACI	(alphanumeric)	REQUESTED_ACI	l (alphanumeric)
response_indicator	2 (alphanumeric)	RESPONSE_INDICATOR	2 (alphanumeric)
RETRIEVAL_REFERENCE_NUMBER	2 (alphanumeric)	RET_REFERENCE_NUM	2 (alphanumeric)
RETURN_STATUS	4 (alphanumeric)		
RETURNED_ACI	(alphanumeric)	RETURNED_ACI	(alphanumeric)
SERVER_ID	3 (alphanumeric)	SERVER_ID	4 (alphanumeric)
SHIP_TO_ZIP_CODE	9 (alphanumeric)	SHIP_TO_ZIP_CODE	9 (alphanumeric)
SOURCE_IP_ADDRESS	5 (alphanumeric)	SOURCE_IP_ADDRESS	15 (alphanumeric)
STORE_NUMBER	4 (alphanumeric)		
SUB_ACCOUNT_NUMBER	6 (alphanumeric)	P_CARD_ORDER_NUM	6 (alphanumeric)

Table 4-7: PaylinX V2.6.3 and V2.6.5 PX_TRANSACTION fields mapped to PaylinX V3.1 CC_TRANSACTION fields

PaylinX V2.6.3 and V2.6.5 PX_TRANSACTION		PaylinX V3.1 CC_TRANSACTION	
Field Name	Character Format	Field Name	Character Format
TERMINAL_CAPABILITY	(a phanumeric)	TERM_CAPABILITY	(alphanumeric)
TERMINAL_TYPE	(a phanumeric)	TERMINAL_TYPE	(alphanumeric)
TOTAL_PURCHASE_AMOUNT	2,2 (numeric)		
TRANSACTION_CODE	2 (alphanumeric)	TRANSACTION_CODE	3 (alphanumeric)
TRANSACTION_DATE_TIME	Date/Time	TRANS_DATE_TIME	Date/Time
TRANSACTION_ID	5 (a phanumeric)	TRANSACTION_ID	5 (alphanumeric)
TRANSACTION_TYPE	2 (alphanumeric)		
USER_DEFINED_I	20 (alphanumeric)	USER_DEFINED_I	50 (alphanumeric)
USER_DEFINED_2	20 (alphanumeric)	USER_DEFINED_2	50 (alphanumeric)
USER_DEFINED_3	20 (alphanumeric)	USER_DEFINED_3	50 (alphanumeric)
USER_DEFINED_4	20 (alphanumeric)	USER_DEFINED_4	50 (alphanumeric)
USER_DEFINED_5	20 (alphanumeric)	USER_DEFINED_5	50 (alphanumeric)
USER_NAME	3 (alphanumeric)	USER_SOURCE_NAME	3 (alphanumeric)
USER_SEQUENCE_NUMBER	20 (alphanumeric)	USER_SEQUENCE_NUM	50 (alphanumeric)
valid_transaction	(a phanumeric)		
VALIDATION_CODE	4 (alphanumeric)	VALIDATION_CODE	4 (alphanumeric)
ZIP_FIELD	9 (alphanumeric)	CUSTOMER_ZIP	9 (alphanumeric)
ZIP_MATCH	(alphanumeric)	ZIP_MATCH	(a phanumeric)
		ACCOUNT_EXTENSION	80 (alphanumeric)
		ALT_TAX_AMOUNT	20 (alphanumeric)
		ALT_TAX_ID	20 (alphanumeric)
		AUTH_COUNTRY	3 (alphanumeric)
		AUTH_CURRENCY	3 (alphanumeric)
		CLEAR_COUNTRY	3 (alphanumeric)
		CLEAR_CURRENCY	3 (alphanumeric)
		CURRENT_AMOUNT	6 (numeric)
		CURRENT_TAX_AMOUNT	6 (numeric)
		CUSTOMER_CITY	20 (alphanumeric)
		CUSTOMER_EMAIL	50 (alphanumeric)
		CUSTOMER_IP_ADDR	30 (alphanumeric)

Table 4-7: PaylinX V2.6.3 and V2.6.5 PX_TRANSACTION fields mapped to PaylinX V3.1 CC_TRANSACTION fields

PaylinX V2.6.3 and V2.6.5 PX_TRANSACTION		PaylinX V3.1 CC_TRANSACTION	
Field Name	Character Format	Field Name	Character Format
		CUSTOMER_PHONE	4 (alphanumeric)
		CUSTOMER_STATE	2 (alphanumeric)
		CVV_RESPONSE_CODE	4 (alphanumeric)
		DISCOUNT_AMOUNT	20 (alphanumeric)
		DUTY_AMOUNT	20 (alphanumeric)
		FRAUD_REASON_CODE	6 (alphanumeric)
		FRAUD_RESP_CODE	255 (alphanumeric)
		FRAUD_SCORE	4 (alphanumeric)
		FREIGHT_AMOUNT	20 (alphanumeric)
		LCC_RETURN_MSG	40 (alphanumeric)
		LINE_ITEM_COUNT	4 (alphanumeric)
		LOCAL_DATE_TIME	Date Time
		LPC_TYPE	4 (alphanumeric)
		MERCH_BILL_LOC	3 (alphanumeric)
		MERCH_BILL_NAME	25 (alphanumeric)
		MERCH_BILL_STATE	2 (alphanumeric)
		ORIGINAL_AMOUNT	6 (numeric)
		PROC_AVS_RESULT	3 (alphanumeric)
		SETTLE_COUNTRY	3 (alphanumeric)
		SETTLE_CURRENCY	3 (alphanumeric)
		SHIP_FROM_ZIP_CODE	9 (alphanumeric)
		SHIP_TO_ADDRESS_I	20 (alphanumeric)
		SHIP_TO_ADDRESS_2	20 (alphanumeric)
		SHIP_TO_CITY	20 (alphanumeric)
		SHIP_TO_PHONE	4 (alphanumeric)
		SHIP_TO_STATE	2 (alphanumeric)
		TRANS_ATTRIBUTE	2 (alphanumeric)
		TRANSACTION_STATE	(alphanumeric)
		VAT_TAX_AMOUNT	20 (alphanumeric)
		VAT_TAX_RATE	20 (alphanumeric)

Table 4-7: PaylinX V2.6.3 and V2.6.5 PX_TRANSACTION fields mapped to PaylinX V3.1 CC_TRANSACTION fields

PaylinX V2.6.3 and V2.6.5 SETTLEMENT		PaylinX V3.1 CC_SETTLEMENT	
Field Name	Character Format	Field Name	Character Format
BATCH_ID	4 (alphanumeric)	BATCH_ID	2 (numeric)
CDC_BATCH_ID	3 (alphanumeric)		
CDC_RESPONSE_CODE	2 (alphanumeric)		
CDC_RESPONSE_MESSAGE	30 (alphanumeric)	BATCH_RESPONSE_MSG	30 (alphanumeric)
MERCHANT_NUM	2 (alphanumeric)	MERCHANT_ID	32 (alphanumeric)
OPEN_DATE_TIME	Date/Time		
POSPORT_ID	3 (alphanumeric)		
RESPONSE_CODE	2 (alphanumeric)	BATCH_STATUS	4 (alphanumeric)
SERVER_ID	3 (alphanumeric)	SERVER_ID	4 (numeric)
SETTLE_DATE_TIME	Date/Time	SETT LE_DATE_TIME	Date/Time
SUMMARIZED	(alphanumeric)		
		CURRENCY_CODE	3 (alphanumeric)
		LPC_TYPE	4 (alphanumeric)
		PROCESSOR_BATCH_ID	2 (alphanumeric)

Table 4-8: PaylinX V2.6.3 and V2.6.5 SETTLEMENT fields mapped to PaylinX V3.1 CC_SETTLEMENT fields

PaylinX V2.6.3 and V2.6.5 PX_MESSAGE		PaylinX V3.1 PX_MESSAGE	
Field Name	Character Format	Field Name	Character Format
CODE	5 (alphanumeric)	CODE	5 (numeric)
DATE_TIME	Date/Time	DATE_TIME	Date/Time
LOCATION	80 (alphanumeric)		
MESSAG E	200 (alphanumeric)	MESSAGE	200 (alphanumeric)
SERVER_ID	3 (numeric)	SERVER_ID	4 (numeric)

Table 4-9: PaylinX V2.6.3 and V2.6.5 PX_MESSAGE fields mapped to PaylinX V3.1 PX_MESSAGE fields

PaylinX V2.6.3 and V2.6.5 DB_STATUS		PaylinX V3.I DB_STATUS	
Field Name	Character Format	Field Name	Character Format
OLDEST_TRANSACTION	8 (numeric)	OLDEST_TRANSACTION	8 (numeric)
TOTAL_TRANSACTIONS	8 (numeric)	TOTAL_TRANSACTIONS	8 (numeric)

Table 4-10: PaylinX V2.6.3 and V2.6.5 DB_STATUS fields mapped to PaylinX V3.1 DB_STATUS fields

PaylinX V2.6.3 and V2.6.5 RPT_MERCHANT_LIST		PaylinX V3.I MERCHANT_LIST	
Field Name	Character Format	Field Name	Character Format
MERCHANT_ID	2 (numeric)	MERCHANT_INDEX	5 (numeric)
MERCHANT_NAME	50 (alphanumeric)	MERCHANT_NAME	50 (alphanumeric)
MERCHANT_NUMBER	2 (alphanumeric)	MERCHANT_ID	32 (alphanumeric)

Table 4-II: PaylinX V2.6.3 and V2.6.5 RPT_MERCHANT_LIST fields mapped to PaylinX V3.I MERCHANT_LIST fields

PaylinX V2.6.3 and V2.6.5 STORE_LIST — Discontinued in PaylinX V3.1			
Field Name Character Format			
MERCHANT_ID	numeric		
STORE_ID	numeric		
STORE_NUMBER	4 (alphanumeric)		
STORE_NAME	50 (alphanumeric)		

Table 4-12: PaylinX V2.6.3 and V2.6.5 STORE_LIST fields

Upgrading from PaylinX **V3.0.2 SPI to** V3.1

In PaylinX Version 3.0.2 SPI, the primary table containing transaction data is CC_TRANSACTION. In PaylinX V3.1, the table is also named CC_TRANSACTION.

PaylinX V3.0.2 SP1 CC_TRANSACTION		PaylinX V3.1 C	C_TRANSACTION
Field Name	Character Format	Field Name	Character Format
ACCOUNT_NUMBER	28 (alphanumeric)	ACCOUNT_NUMBER	28 (alphanumeric)
ACCT_DATA_SOURCE	(alphanumeric)	ACCT_DATA_SOURCE	(alphanumeric)
ADDRESS_MATCH	(alphanumeric)	ADDRESS_MATCH	(alphanumeric)
AMOUNT	2,2 (numeric)	AMOUNT	6 (numeric)
APPROVAL_CODE	9 (alphanumeric)	APPROVAL_CODE	9 (alphanumeric)
AUTH_RESP_CODE	(alphanumeric)	AUTH_RESP_CODE	(alphanumeric)
AUTH_RESPONSE_MSG	20 (alphanumeric)	AUTH_RESPONSE_MSG	20 (alphanumeric)
AUTH_SOURCE_CODE	(alphanumeric)	AUTH_SOURCE_CODE	(alphanumeric)
BAD_FIELD_CODE	3 (alphanumeric)	BAD_FIELD_CODE	3 (alphanumeric)
BAD_FIELD_DATA	30 (alphanumeric)	BAD_FIELD_DATA	30 (alphanumeric)
BATCH_ID	8 (alphanumeric)	BATCH_ID	2 (alphanumeric)
CARD_PRESENT_FLAG	(alphanumeric)	CARD_PRESENT_FLAG	(alphanumeric)
CARD_TYPE	4 (alphanumeric)	CARD_TYPE	4 (alphanumeric)
CARDHOLDER_ID_CODE	(alphanumeric)	CARDHOLDER_ID_CODE	(alphanumeric)
COM_CARD_TYPE	2 (alphanumeric)	COM_CARD_TYPE	2 (alphanumeric)
CURRENCY_CODE	3 (alphanumeric)		
CURRENT_AMOUNT	2,2 (numeric)	CURRENT_AMOUNT	6 (numeric)
CUST_PRESENT_FLAG	(alphanumeric)	CUST_PRESENT_FLAG	(alphanumeric)
CUSTOMER_CITY	20 (alphanumeric)	CUSTOMER_CITY	20 (alphanumeric)
CUSTOMER_NAME	26 (alphanumeric)	CUSTOMER_NAME	26 (alphanumeric)
CUSTOMER_PHONE	4 (alphanumeric)	CUSTOMER_PHONE	4 (alphanumeric)
CUSTOMER_STATE	2 (alphanumeric)	CUSTOMER_STATE	2 (alphanumeric)
CUSTOMER_STREET	20 (alphanumeric)	CUSTOMER_STREET	20 (alphanumeric)
CUSTOMER_ZIP	9 (alphanumeric)	CUSTOMER_ZIP	9 (alphanumeric)
CVV_RESPONSE_CODE	4 (alphanumeric)	CVV_RESPONSE_CODE	4 (alphanumeric)
DRAFT_ID	8 (alphanumeric)	DRAFT_ID	8 (alphanumeric)

Table 4-13: PaylinX V3.0.2 SPI CC_TRANSACTION fields mapped to PaylinX V3.1 CC_TRANSACTION fields

PaylinX V3.0.2 SP1 CC_TRANSACTION		PaylinX V3.1 C	PaylinX V3.I CC_TRANSACTION	
Field Name	Character Format	Field Name	Character Format	
E_COMMERCE_TYPE	2 (alphanumeric)	E_COMMERCE_TYPE	2 (alphanumeric)	
EXPIRATION_DATE	4 (alphanumeric)	EXPIRATION_DATE	4 (alphanumeric)	
LCC_RETURN_CODE	4 (alphanumeric)	LCC_RETURN_CODE	4 (alphanumeric)	
LCC_RETURN_MSG	40 (alphanumeric)	LCC_RETURN_MSG	40 (alphanumeric)	
LOCAL_DATE_TIME	Date/Time	LOCAL_DATE_TIME	Date/Time	
LPC_TYPE	4 (alphanumeric)	LPC_TYPE	4 (alphanumeric)	
MARKET_SPEC_IND	2 (alphanumeric)	MARKET_SPEC_IND	2 (alphanumeric)	
MERCH_BILL_LOC	3 (alphanumeric)	MERCH_BILL_LOC	3 (alphanumeric)	
MERCH_BILL_NAME	25 (alphanumeric)	MERCH_BILL_NAME	25 (alphanumeric)	
MERCH_BILL_STATE	2 (alphanumeric)	MERCH_BILL_STATE	2 (alphanumeric)	
MERCHANT_ID	2 (a phanumeric)	MERCHANT_ID	32 (alphanumeric)	
ORDER_NUMBER	25 (alphanumeric)	ORDER_NUMBER	25 (alphanumeric)	
ORIGINAL_AMOUNT	12,2 (numeric)	ORIGINAL_AMOUNT	l 6 (numeric)	
P_CARD_ORDER_NUM	6 (a phanumeric)	P_CARD_ORDER_NUM	6 (alphanumeric)	
PARENT_SEQ_NUMBER	5 (a phanumeric)	PARENT_SEQ_NUMBER	5 (alphanumeric)	
POS_ENTRY_MODE	(alphanumeric)	POS_ENTRY_MODE	(alphanumeric)	
POS_MODE_CODE	2 (alphanumeric)	POS_MODE_CODE	2 (alphanumeric)	
PROC_AUTH_RSP_CODE	4 (a phanumeric)	PROC_AUTH_RSP_CODE	4 (alphanumeric)	
PROC_AVS_RESULT	3 (alphanumeric)	PROC_AVS_RESULT	3 (alphanumeric)	
RECUR_TRANS_COUNT	2 (alphanumeric)	RECUR_TRANS_COUNT	2 (alphanumeric)	
RECUR_TRANS_NUMBER	2 (alphanumeric)	RECUR_TRANS_NUMBER	2 (alphanumeric)	
REQUESTED_ACI	(a phanumeric)	REQUESTED_ACI	(alphanumeric)	
RESERVED_	50 (alphanumeric)	RESERVED_I	50 (alphanumeric)	
RESERVED_2	50 (alphanumeric)	RESERVED_2	50 (alphanumeric)	
response_indicator	2 (alphanumeric)	RESPONSE_INDICATOR	2 (alphanumeric)	
RET_REFERENCE_NUM	2 (alphanumeric)	RET_REFERENCE_NUM	2 (alphanumeric)	
RETURNED_ACI	(alphanumeric)	RETURNED_ACI	(alphanumeric)	
SEQUENCE_NUMBER	5 (alphanumeric)	SEQUENCE_NUMBER	5 (alphanumeric)	
SERVER_ID	4 (alphanumeric)	SERVER_ID	4 (alphanumeric)	
SHIP_TO_ZIP_CODE	9 (alphanumeric)	SHIP_TO_ZIP_CODE	9 (alphanumeric)	

Table 4-13: PaylinX V3.0.2 SP1 CC_TRANSACTION fields mapped to PaylinX V3.1 CC_TRANSACTION fields

PaylinX V3.0.2 SP1 CC_TRANSACTION		PaylinX V3.1 CC_TRANSACTION	
Field Name	Character Format	Field Name	Character Format
SOURCE_IP_ADDRESS	5 (alphanumeric)	SOURCE_IP_ADDRESS	5 (alphanumeric)
TAX_AMOUNT	12,2 (numeric)	TAX_AMOUNT	6 (numeric)
TERM_CAPABILITY	(alphanumeric)	TERM_CAPABILITY	(alphanumeric)
TERMINAL_TYPE	(alphanumeric)	TERMINAL_TYPE	(alphanumeric)
TRANS_ATTRIBUTE	2 (alphanumeric)	TRANS_ATTRIBUTE	2 (alphanumeric)
TRANS_DATE_TIME	Date Time	TRANS_DATE_TIME	Date Time
TRANSACTION_CODE	3 (alphanumeric)	TRANSACTION_CODE	3 (alphanumeric)
TRANSACTION_ID		TRANSACTION_ID	5 (alphanumeric)
TRANSACTION_STATE	(alphanumeric)	TRANSACTION_STATE	(alphanumeric)
USER_DEFINED_I	50 (alphanumeric)	USER_DEFINED_I	50 (alphanumeric)
USER_DEFINED_2	50 (alphanumeric)	USER_DEFINED_2	50 (alphanumeric)
USER_DEFINED_3	50 (alphanumeric)	USER_DEFINED_3	50 (alphanumeric)
USER_DEFINED_4	50 (alphanumeric)	USER_DEFINED_4	50 (alphanumeric)
USER_DEFINED_5	50 (alphanumeric)	USER_DEFINED_5	50 (alphanumeric)
USER_NAME	3 (alphanumeric)	USER_SOURCE_NAME	3 (alphanumeric)
USER_SEQUENCE_NUM	50 (alphanumeric)	USER_SEQUENCE_NUM	50 (alphanumeric)
VALIDATION_CODE	4 (alphanumeric)	VALIDATION_CODE	4 (alphanumeric)
ZIP_MATCH	(alphanumeric)	ZIP_MATCH	(alphanumeric)
		ACCOUNT_EXTENSION	80 (alphanumeric)
		ALT_TAX_AMOUNT	20 (alphanumeric)
		ALT_TAX_ID	20 (alphanumeric)
		AUTH_COUNTRY	3 (alphanumeric)
		AUTH_CURRENCY	3 (alphanumeric)
		CLEAR_COUNTRY	3 (alphanumeric)
		CLEAR_CURRENCY	3 (alphanumeric)
		CURRENT_TAX_AMOUNT	6 (numeric)
		CUSTOMER_EMAIL	50 (alphanumeric)
		CUSTOMER_IP_ADDR	30 (alphanumeric)
		DISCOUNT_AMOUNT	20 (alphanumeric)
		DUTY_AMOUNT	20 (alphanumeric)

Table 4-13: PaylinX V3.0.2 SP1 CC_TRANSACTION fields mapped to PaylinX V3.1 CC_TRANSACTION fields

PaylinX V3.0.2 SP1 CC_TRANSACTION		PaylinX V3.1 CC_TRANSACTION	
Field Name	Character Format	Field Name	Character Format
		FRAUD_REASON_CODE	6 (alphanumeric)
		FRAUD_RESP_CODE	255 (alphanumeric)
		FRAUD_SCORE	4 (alphanumeric)
		FREIGHT_AMOUNT	20 (alphanumeric)
		LINE_ITEM_COUNT	4 (alphanumeric)
		SETTLE_COUNTRY	3 (alphanumeric)
		SETTLE_CURRENCY	3 (alphanumeric)
		SHIP_FROM_ZIP_CODE	9 (alphanumeric)
		SHIP_TO_ADDRESS_I	20 (alphanumeric)
		SHIP_TO_ADDRESS_2	20 (alphanumeric)
		SHIP_TO_CITY	20 (alphanumeric)
		SHIP_TO_PHONE	4 (alphanumeric)
		SHIP_TO_STATE	2 (alphanumeric)
		VAT_TAX_AMOUNT	20 (alphanumeric)
		VAT_TAX_RATE	20 (alphanumeric)

Table 4-13: PaylinX V3.0.2 SPI CC_TRANSACTION fields mapped to PaylinX V3.1 CC_TRANSACTION fields

PaylinX V3.0.2 SP1 CC_SETTLEMENT		PaylinX V3.1 CC_SETTLEMENT	
Field Name	Character Format	Field Name	Character Format
BATCH_ID	8 (numeric)	BATCH_ID	2 (numeric)
BATCH_RESPONSE_MSG	30 (alphanumeric)	BATCH_RESPONSE_MSG	30 (alphanumeric)
BATCH_STATUS	4 (alphanumeric)	BATCH_STATUS	4 (alphanumeric)
CURRENCY_CODE	3 (alphanumeric)	CURRENCY_CODE	3 (alphanumeric)
LPC_TYPE	4 (alphanumeric)	LPC_TYPE	4 (alphanumeric)
MERCHANT_ID	2 (a phanumeric)	MERCHANT_ID	32 (alphanumeric)
SERVER_ID	4 (alphanumeric)	SERVER_ID	4 (numeric)
SETTLE_DATE_TIME	Date/Time	SETTLE_DATE_TIME	Date/Time
		PROCESSOR_BATCH_ID	2 (alphanumeric)

Table 4-14: PaylinX V3.0.2 SPI CC_SETTLEMENT fields mapped to PaylinX V3.1 CC_SETTLEMENT fields

PaylinX V3.0.2 SP1 CC_SETTLEMENT_LOCK		PaylinX V3.1 CC_SETTLEMENT_LOCK	
Field Name	Character Format	Field Name	Character Format
BATCH_ID	8 (alphanumeric)	BATCH_ID	2 (numeric)
DATE_TIME	Date/Time	DATE_TIME	Date/Time
LPC_TYPE	4 (alphanumeric)	LPC_TYPE	4 (alphanumeric)
MERCHANT_ID	2 (alphanumeric)	MERCHANT_ID	32 (alphanumeric)
SERVER_ID	4 (numeric)	SERVER_ID	4 (numeric)

Table 4-15: PaylinX V3.0.2 SPI CC_SETTLEMENT_LOCK fields mapped to PaylinX V3.1 CC_SETTLEMENT_LOCK fields

PaylinX V3.0.2 SPI PX_MESSAGE		PaylinX V3.1 PX_MESSAGE	
Field Name	Character Format	Field Name	Character Format
CODE	5 (alphanumeric)	CODE	5 (numeric)
DATE_TIME	Date/Time	DATE_TIME	Date/Time
MESSAGE	200 (alphanumeric)	MESSAGE	200 (alphanumeric)
SERVER_ID	4 (numeric)	SERVER_ID	4 (numeric)

Table 4-16: PaylinX V3.0.2 SPI PX_MESSAGES fields mapped to PaylinX V3.1 PX_MESSAGES fields

PaylinX V3.0.2 SPI DB_STATUS		PaylinX V3.1 DB_STATUS	
Field Name	Character Format	Field Name	Character Format
OLDEST_TRANSACTION	8 (numeric)	OLDEST_TRANSACTION	8 (numeric)
TOTAL_TRANSACTIONS	8 (numeric)	TOTAL_TRANSACTIONS	8 (numeric)

Table 4-17: PaylinX V3.0.2 SPI DB_STATUS fields mapped to PaylinX V3.1 DB_STATUS fields

PaylinX V3.0.2 SP1 RPT_MERCHANT_LIST		PaylinX V3.I MERCHANT_LIST	
Field Name	Character Format	Field Name	Character Format
MERCHANT_ID	2 (numeric)	MERCHANT_INDEX	5 (numeric)

Table 4-18: PaylinX V3.0.2 SPI RPT_MERCHANT_LIST fields mapped to PaylinX V3.1 RPT_MERCHANT_LIST fields

PaylinX V3.0.2 SP1 RPT_MERCHANT_LIST		PaylinX V3.I MERCHANT_LIST	
Field Name	Character Format	Field Name	Character Format
MERCHANT_NAME	50 (alphanumeric)	MERCHANT_NAME	50 (alphanumeric)
MERCHANT_NUMBER	2 (a phanumeric)	MERCHANT_ID	32 (alphanumeric)

Table 4-18: PaylinX V3.0.2 SPI RPT_MERCHANT_LIST fields mapped to PaylinX V3.1 RPT_MERCHANT_LIST fields

Upgrading from PaylinX V3.0.2 SP2 to V3.1

In PaylinX Version 3.0.2 SP2, the primary table containing transaction data is CC_TRANSACTION. In PaylinX V3.1, the table is also named CC_TRANSACTION.

PaylinX V3.0.2 SP2 CC_TRANSACTION		PaylinX V3.I CC_TRANSACTION	
Field Name	Character Format	Field Name	Character Format
ACCOUNT_NUMBER	28 (alphanumeric)	ACCOUNT_NUMBER	28 (alphanumeric)
ACCT_DATA_SOURCE	(alphanumeric)	ACCT_DATA_SOURCE	(alphanumeric)
ADDRESS_MATCH	(alphanumeric)	ADDRESS_MATCH	(alphanumeric)
AMOUNT	2,2 (numeric)	AMOUNT	6 (numeric)
APPROVAL_CODE	9 (alphanumeric)	APPROVAL_CODE	9 (alphanumeric)
AUTH_RESP_CODE	l (alphanumeric)	AUTH_RESP_CODE	(alphanumeric)
AUTH_RESPONSE_MSG	20 (alphanumeric)	AUTH_RESPONSE_MSG	20 (alphanumeric)
AUTH_SOURCE_CODE	(alphanumeric)	AUTH_SOURCE_CODE	(alphanumeric)
BAD_FIELD_CODE	3 (alphanumeric)	BAD_FIELD_CODE	3 (alphanumeric)
BAD_FIELD_DATA	30 (alphanumeric)	BAD_FIELD_DATA	30 (alphanumeric)
BATCH_ID	8 (alphanumeric)	BATCH_ID	2 (alphanumeric)
CARD_PRESENT_FLAG	(alphanumeric)	CARD_PRESENT_FLAG	(alphanumeric)
CARD_TYPE	4 (alphanumeric)	CARD_TYPE	4 (alphanumeric)
CARDHOLDER_ID_CODE	(alphanumeric)	CARDHOLDER_ID_CODE	(alphanumeric)
COM_CARD_TYPE	2 (alphanumeric)	COM_CARD_TYPE	2 (alphanumeric)
CURRENCY_CODE	3 (alphanumeric)		
CURRENT_AMOUNT	12,2 (numeric)	CURRENT_AMOUNT	6 (numeric)
CUST_PRESENT_FLAG	l (alphanumeric)	CUST_PRESENT_FLAG	(alphanumeric)
CUSTOMER_CITY	20 (alphanumeric)	CUSTOMER_CITY	20 (alphanumeric)
CUSTOMER_EMAIL	50 (alphanumeric)	CUSTOMER_EMAIL	50 (alphanumeric)
CUSTOMER_IP_ADDR	30 (alphanumeric)	CUSTOMER_IP_ADDR	30 (alphanumeric)
CUSTOMER_NAME	26 (alphanumeric)	CUSTOMER_NAME	26 (alphanumeric)
CUSTOMER_PHONE	4 (alphanumeric)	CUSTOMER_PHONE	4 (alphanumeric)
CUSTOMER_STATE	2 (alphanumeric)	CUSTOMER_STATE	2 (alphanumeric)
CUSTOMER_STREET	20 (alphanumeric)	CUSTOMER_STREET	20 (alphanumeric)
CUSTOMER_ZIP	9 (alphanumeric)	CUSTOMER_ZIP	9 (alphanumeric)

Table 4-19: PaylinX V3.0.2 SP2 CC_TRANSACTION fields mapped to PaylinX V3.1 CC_TRANSACTION fields

PaylinX V3.0.2 SP2 CC_TRANSACTION		PaylinX V3.1 CC_TRANSACTION	
Field Name	Character Format	Field Name	Character Format
CVV_RESPONSE_CODE	4 (alphanumeric)	CVV_RESPONSE_CODE	4 (alphanumeric)
DRAFT_ID	8 (alphanumeric)	DRAFT_ID	8 (alphanumeric)
E_COMMERCE_TYPE	2 (alphanumeric)	E_COMMERCE_TYPE	2 (alphanumeric)
EXPIRATION_DATE	4 (alphanumeric)	EXPIRATION_DATE	4 Date (MMYY)
LCC_RETURN_CODE	4 (alphanumeric)	LCC_RETURN_CODE	4 (alphanumeric)
LCC_RETURN_MSG	40 (alphanumeric)	LCC_RETURN_MSG	40 (alphanumeric)
LOCAL_DATE_TIME	Date/Time	LOCAL_DATE_TIME	Date/Time
LPC_TYPE	4 (alphanumeric)	LPC_TYPE	4 (alphanumeric)
MARKET_SPEC_IND	2 (alphanumeric)	MARKET_SPEC_IND	2 (alphanumeric)
MERCH_BILL_LOC	3 (alphanumeric)	MERCH_BILL_LOC	3 (alphanumeric)
MERCH_BILL_NAME	25 (alphanumeric)	MERCH_BILL_NAME	25 (alphanumeric)
MERCH_BILL_STATE	2 (alphanumeric)	MERCH_BILL_STATE	2 (alphanumeric)
MERCHANT_ID	32 (alphanumeric)	MERCHANT_ID	32 (alphanumeric)
ORDER_NUMBER	25 (alphanumeric)	ORDER_NUMBER	25 (alphanumeric)
ORIGINAL_AMOUNT	12,2 (numeric)	ORIGINAL_AMOUNT	6 (numeric)
P_CARD_ORDER_NUM	6 (a phanumeric)	P_CARD_ORDER_NUM	6 (alphanumeric)
PA RENT_SEQ_NUMBER	5 (a phanumeric)	PARENT_SEQ_NUMBER	5 (alphanumeric)
POS_ENTRY_MODE	(alphanumeric)	POS_ENTRY_MODE	(alphanumeric)
POS_MODE_CODE	2 (alphanumeric)	POS_MODE_CODE	2 (alphanumeric)
PROC_AUTH_RSP_CODE	4 (alphanumeric)	PROC_AUTH_RSP_CODE	4 (alphanumeric)
PROC_AVS_RESULT	3 (alphanumeric)	PROC_AVS_RESULT	3 (alphanumeric)
RECUR_TRANS_COUNT	2 (alphanumeric)	RECUR_TRANS_COUNT	2 (alphanumeric)
RECUR_TRANS_NUMBER	2 (alphanumeric)	RECUR_TRANS_NUMBER	2 (alphanumeric)
REQUESTED_ACI	(alphanumeric)	REQUESTED_ACI	(alphanumeric)
RESERVED_I	50 (alphanumeric)	RESERVED_I	50 (alphanumeric)
RESERVED_2	50 (alphanumeric)	RESERVED_2	50 (alphanumeric)
response_indicator	2 (alphanumeric)	RESPONSE_INDICATOR	2 (alphanumeric)
RET_REFERENCE_NUM	2 (alphanumeric)	RET_REFERENCE_NUM	2 (alphanumeric)
RETURNED_AC	(alphanumeric)	RETURNED_ACI	(alphanumeric)
SEQUENCE_NUMBER	5 (a phanumeric)	SEQUENCE_NUMBER	5 (alphanumeric)

Table 4-19: PaylinX V3.0.2 SP2 CC_TRANSACTION fields mapped to PaylinX V3.1 CC_TRANSACTION fields

PaylinX V3.0.2 SP2 CC_TRANSACTION		PaylinX V3.1 CC_TRANSACTION	
Field Name	Character Format	Field Name	Character Format
SERVER_ID	4 (alphanumeric)	SERVER_ID	4 (alphanumeric)
SHIP_TO_ZIP_CODE	9 (alphanumeric)	SHIP_TO_ZIP_CODE	9 (alphanumeric)
SOURCE_IP_ADDRESS	5 (alphanumeric)	SOURCE_IP_ADDRESS	5 (alphanumeric)
TAX_AMOUNT	12,2 (numeric)	TAX_AMOUNT	6 (numeric)
TERM_CAPABILITY	(alphanumeric)	TERM_CAPABILITY	(alphanumeric)
TERMINAL_TYPE	(alphanumeric)	TERMINAL_TYPE	(alphanumeric)
TRANS_ATTRIBUTE	2 (alphanumeric)	TRANS_ATTRIBUTE	2 (alphanumeric)
TRANS_DATE_TIME	Date/Time	TRANS_DATE_TIME	Date/Time
TRANSACTION_CODE	3 (alphanumeric)	TRANSACTION_CODE	3 (alphanumeric)
TRANSACTION_ID	5 (alphanumeric)	TRANSACTION_ID	5 (alphanumeric)
TRANSACTION_STATE	(alphanumeric)	TRANSACTION_STATE	(alphanumeric)
USER_DEFINED_I	50 (alphanumeric)	USER_DEFINED_I	50 (alphanumeric)
USER_DEFINED_2	50 (alphanumeric)	USER_DEFINED_2	50 (alphanumeric)
USER_DEFINED_3	50 (alphanumeric)	USER_DEFINED_3	50 (alphanumeric)
USER_DEFINED_4	50 (alphanumeric)	USER_DEFINED_4	50 (alphanumeric)
USER_DEFINED_5	50 (alphanumeric)	USER_DEFINED_5	50 (alphanumeric)
USER_NAME	31 (alphanumeric)	USER_SOURCE_NAME	3 (alphanumeric)
USER_SEQUENCE_NUM	50 (alphanumeric)	USER_SEQUENCE_NUM	50 (alphanumeric)
VALIDATION_CODE	4 (alphanumeric)	VALIDATION_CODE	4 (alphanumeric)
ZIP_MATCH	(alphanumeric)	ZIP_MATCH	(alphanumeric)
		ACCOUNT_EXTENSION	80 (alphanumeric)
		ALT_TAX_AMOUNT	20 (alphanumeric)
		ALT_TAX_ID	20 (alphanumeric)
		AUTH_COUNTRY	3 (alphanumeric)
		AUTH_CURRENCY	3 (alphanumeric)
		CLEAR_COUNTRY	3 (alphanumeric)
		CLEAR_CURRENCY	3 (alphanumeric)
		CURRENT_TAX_AMOUNT	6 (numeric)
		DISCOUNT_AMOUNT	20 (alphanumeric)
		DUTY_AMOUNT	20 (alphanumeric)

Table 4-19: PaylinX V3.0.2 SP2 CC_TRANSACTION fields mapped to PaylinX V3.1 CC_TRANSACTION fields

PaylinX V3.0.2 SP2 CC_TRANSACTION		PaylinX V3.1 CC_TRANSACTION	
Field Name	Character Format	Field Name	Character Format
		FRAUD_REASON_CODE	6 (alphanumeric)
		FRAUD_RESP_CODE	255 (alphanumeric)
		FRAUD_SCORE	4 (alphanumeric)
		FREIGHT_AMOUNT	20 (alphanumeric)
		LINE_ITEM_COUNT	4 (alphanumeric)
		SETTLE_COUNTRY	3 (alphanumeric)
		SETTLE_CURRENCY	3 (alphanumeric)
		SHIP_FROM_ZIP_CODE	9 (alphanumeric)
		SHIP_TO_ADDRESS_I	20 (alphanumeric)
		SHIP_TO_ADDRESS_2	20 (alphanumeric)
		SHIP_TO_CITY	20 (alphanumeric)
		SHIP_TO_PHONE	4 (alphanumeric)
		SHIP_TO_STATE	2 (alphanumeric)
		VAT_TAX_AMOUNT	20 (alphanumeric)
		VAT_TAX_RATE	20 (alphanumeric)

Table 4-19: PaylinX V3.0.2 SP2 CC_TRANSACTION fields mapped to PaylinX V3.1 CC_TRANSACTION fields

PaylinX V3.0.2 SP2 CC_SETTLEMENT		PaylinX V3.I CC_SETTLEMENT	
Field Name	Character Format	Field Name	Character Format
BATCH_ID	8 (alphanumeric)	BATCH_ID	2 (numeric)
BATCH_RESPONSE_MSG	30 (alphanumeric)	BATCH_RESPONSE_MSG	30 (alphanumeric)
BATCH_STATUS	4 (alphanumeric)	BATCH_STATUS	4 (alphanumeric)
CURRENCY_CODE	3 (alphanumeric)	CURRENCY_CODE	3 (alphanumeric)
LPC_TYPE	4 (alphanumeric)	LPC_TYPE	4 (alphanumeric)
MERCHANT_ID	32 (alphanumeric)	MERCHANT_ID	32 (alphanumeric)
SERVER_ID	4 (alphanumeric)	SERVER_ID	4 (numeric)
SETTLE_DATE_TIME	Date/Time	SETTLE_DATE_TIME	Date/Time
		PROCESSOR_BATCH_ID	2 (a phanumeric)

Table 4-20: PaylinX V3.0.2 SP2 CC_SETTLEMENT fields mapped to PaylinX V3.1 CC_SETTLEMENT fields

PaylinX V3.0.2 SP2 CC_SETTLEMENT_LOCK		PaylinX V3.I CC_SETTLEMENT_LOCK	
Field Name	Character Format	Field Name	Character Format
BATCH_ID	8 (alphanumeric)	BATCH_ID	2 (numeric)
DATE_TIME	Date/Time	DATE_TIME	Date/Time
LPC_TYPE	4 (alphanumeric)	LPC_TYPE	4 (alphanumeric)
MERCHANT_ID	32 (alphanumeric)	MERCHANT_ID	32 (alphanumeric)
SERVER_ID	4 (numeric)	SERVER_ID	4 (numeric)

Table 4-21: PaylinX V3.0.2 SP2 CC_SETTLEMENT_LOCK fields mapped to PaylinX V3.1 CC_SETTLEMENT_LOCK fields

PaylinX V3.0.2 SP2 DB_STATUS		PaylinX V3.1 DB_STATUS	
Field Name	Character Format	Field Name	Character Format
OLDEST_TRANSACTION	8 (numeric)	OLDEST_TRANSACTION	8 (numeric)
TOTAL_TRANSACTIONS	8 (numeric)	TOTAL_TRANSACTIONS	8 (numeric)

Table 4-22: PaylinX V3.0.2 SP2 DB_STATUS fields mapped to PaylinX V3.1DB_STATUS fields

PaylinX V3.0.2 SP2 PX_MESSAGE		PaylinX V3.1 PX_MESSAGE	
Field Name	Character Format	Field Name	Character Format
CODE	5 (alphanumeric)	CODE	5 (numeric)
DAT E_TIME	Date/Time	DATE_TIME	Date/Time
MESSAGE	200 (alphanumeric)	MESSAGE	200 (alphanumeric)
SERVER_ID	4 (numeric)	SERVER_ID	4 (numeric)

Table 4-23: PaylinX V3.0.2 SP2 PX_MESSAGES fields mapped to PaylinX V3.1 PX_MESSAGES fields

PaylinX V3.0.2 SP2 RPT_MERCHANT_LIST		PaylinX V3.I MERCHANT_LIST	
Field Name	Character Format	Field Name	Character Format
MERCHANT_ID	32 (numeric)	MERCHANT_INDEX	5 (numeric)
MERCHANT_NAME	50 (alphanumeric)	MERCHANT_NAME	50 (alphanumeric)
MERCHANT_NUMBER	2 (alphanumeric)	MERCHANT_ID	32 (alphanumeric)

Table 4-24: PaylinX V3.0.2 SPI RPT_MERCHANT_LIST fields mapped to PaylinX V3.1 RPT_MERCHANT_LIST fields

PaylinX V3.1 unique tables

These tables are unique to PaylinX V3.1.

PaylinX V3.1 PX_SESSION			
Field Name	Character Format		
AMOUNT_LIMIT	6 (numeric)		
BITMASK	2 (alphanumeric)		
IP_ADDRESS	15 (alphanumeric)		
MERCHANT_ID	32 (alphanumeric)		
RETURN_LIMIT	16 (numeric)		
SESSION_ID	12 (alphanumeric)		
SESSION_TIMEOUT	12 (alphanumeric)		
VALID_DATE_TIME	Date/Time		

Table 4-25: PaylinX V3.I PX_SESSION

PaylinX V3.1 CC_LINEITEM_DETAIL			
Field Name	Character Format		
COMMODITY_CODE	2 (alphanumeric)		
DESCRIPTION	35 (alphanumeric)		
DISCOUNT_AMOUNT	20 (alphanumeric)		
DISCOUNT_INDICATOR	(alphanumeric)		
LINE_ITEM_NUMBER	4 (alphanumeric)		
PRODUCT_CODE	2 (alphanumeric)		
QUANTITY	2 (alphanumeric)		
SEQUENCE_NUMBER	5 (alphanumeric)		
TAX_AMOUNT	20 (alphanumeric)		
TAX_APPLIED	(alphanumeric)		
TAX_EXEMPT	(alphanumeric)		
TAX_RATE	20 (alphanumeric)		
TAX_TYPE_APPLIED	4 (alphanumeric)		

Table 4-26: PaylinX V3.I CC_LINEITEM_DETAILS

PaylinX V3.1 CC_LINEITEM_DETAIL			
Field Name	Character Format		
TOTAL_AMOUNT	20 (alphanumeric)		
UNIT_COST	20 (alphanumeric)		
UNIT_OF_MEASURE	2 (alphanumeric)		

Table 4-26: PaylinX V3.1 CC_LINEITEM_DETAILS