

GPS Fees Guide

Version: 1.0

07 September 2021

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Publication number: FEE-1.0-7-Sep-21

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1. About This Document

This guide describes how to set up and manage card fees for your card products on the GPS system. It includes details of the card usage and administration fees that you can create for your card products, and how to view fees and apply fees to cards.

Target Audience

This guide is intended for GPS clients ([Program Managers](#)) who are interested in setting up fees for their card products.

What's Changed?

If you want to find out what's changed since the previous release, see the [Document History](#) section.

1.1. How to use this Guide

If you are new to GPS and want to understand how card usage fees work and some of the available fee options, see the [Overview](#) section.

To find out how to configure fees for your card product, see [How to Set Up Card Fees](#).

For information about options for viewing and managing fees, see [Fee Maintenance](#).

1.2. Related Documents

Refer to the table below for other documents which should be used in conjunction with this guide.

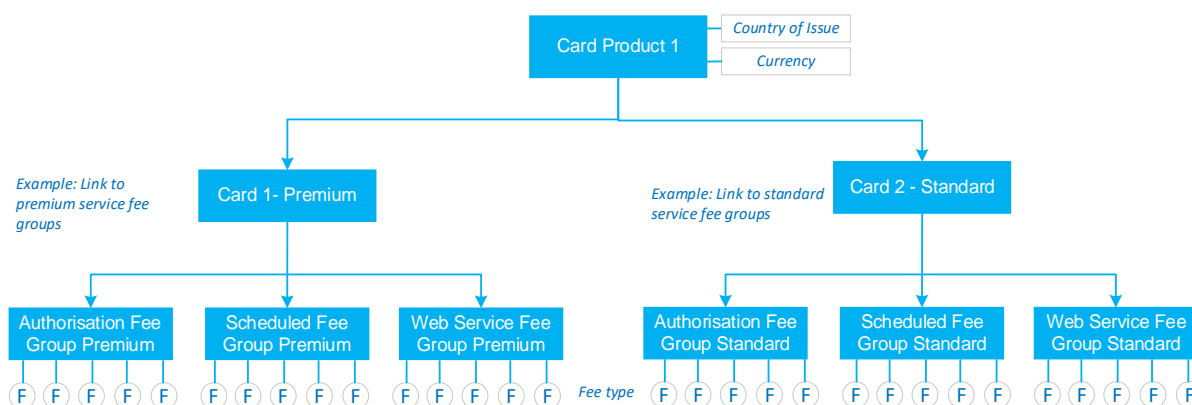
Document	Description
Web Services Guide	Provides details of the GPS Web Services API.
EHI Guide	Provides details of the GPS External Host Interface (EHI).
Smart Client Guide	Describes how to use the GPS Smart Client to manage your account.
Transaction XML Reporting Guide	Provides details of the GPS transaction XML reports GPS sends to customers.

2. Overview

The GPS system provides flexible options for setting up and applying card usage and administration fees to the cards in your program, giving you full control over the type of fees to include. The card fees you charge cardholders must be set up as part of your program agreement with your [issuer](#), who approves in line with the card scheme regulations.

GPS fees are configured for your program using *Fee Groups*. These groups are currency agnostic and you can define the fee currencies that apply to the group. See [Fee Groups](#).

You can specify multiple fee groups for your card program (e.g., to reflect different cardholder product offerings, such as premium, business and standard or different country options) and link each card to a set of fee groups. Each fee group defines the types of fees that are applicable to a card. See [Figure 1](#) below:



When creating a card on the GPS system, you can specify which fee groups to link to the card. Certain fees can be waived at the time the card is created. It is also possible to configure a one-off fee to apply to a specific card; see [Applying Fees to a Card](#).

Card Product and Default Fees

Cards are set up on the GPS system at a *Product* level. A card product is defined as a combination of *country of issue* and *currency*. This means that a different card product is required for each country of issue and currency pair (e.g., France-Euro, or UK-GBP).

While cards are set up at a product level, Fee groups are set up at a [Program Manager](#) level (i.e., per Program Manager) and can be applied to cards belonging to different products or programs (Scheme Masters).

When creating a card using the GPS web services, if you do not specify any fee groups, the card will be linked to the default fees configured for your card product (if defaults have been set up for your card products). In practise, for large programs operating in multiple countries and currencies, it is not practical to set up unique fee groups per product, so in this case, when creating a card you will need to specify the fee groups to link to the card.

Changing Card Fees

You cannot directly change your fee group configuration settings (including the fee amounts) on the GPS system; you will need to raise a change request with your account manager or via JIRA. If you increase any fees that you charge to your cardholder, you must also give them sufficient notice¹.

Note: for your current fee setup information, always refer to the latest signed-off copy of the *Product Setup Form (PSF)*.

Fees and EHI Mode

The option to configure fees using the GPS system is available to customers on all External Host Interface (EHI) modes². However, in EHI modes where you maintain the card balance (Modes 1,4,5), GPS strongly recommends you also manage the fees applied to the card using your own systems.

2.1. Fee Groups

GPS provides three main fee groups:

- Authorisation Fees group
- Scheduled Fees group
- Web Service Fees group

Each of these groups is described in further detail below.

2.1.1. Authorisation Fees Group

The Authorisation Fees group defines fees that are charged to a card on a per transaction basis when the card is used (e.g., at an ATM, website or merchant terminal) or when a payment is made out of the account.

2.1.2. Recurring Fees Group

The Recurring Fees group defines fees that are charged to a card on a recurring basis (e.g., monthly, annually or over a defined period).

2.1.3. Web Service Fees Group

The Web Service Fee group defines a fee that is charged to a card on a per transaction basis for a card transaction via web services (typically reflecting a payment or transfer into the card account or balance enquiry).

¹ For UK/EEA customers, you must provide 60 days' notice. Check with your issuer for notice periods in other regions.

² Please check with your account manager for restrictions, as some fee options may not work some EHI modes.

The Fee Groups are described in detail in the section [Completing your PSF](#).

2.2. Configuring your Program Fees

GPS recommends that you always speak to your card issuer for advice on what fees to apply to your cards. Then talk to your GPS implementation manager about your fee requirements and the options readily available on the GPS system.

The card fees that apply to your program are defined using the [Product Setup Form \(PSF\)](#). Your implementation manager will complete this form and provide you with a copy to review and make any amendments required. Once you have agreed the contents of the PSF, your implementation manager will set up your fees on the GPS system. For details, see [Completing your PSF](#).

If you have already set up fees and require changes or new fee groups, please contact your account manager. Any changes to fees should also first be approved by your issuer.

TIP: Keep your fees simple – overcomplicated fee options can lead to a poor user experience.

Bespoke fees

If you require a bespoke fee configuration, please speak to your account manager. Any changes that require development work require GPS approval and may incur additional charges.

2.2.1. Linking a Card to Fee Groups

Fee groups are set up at a Program Manager (Institution) level. When you create a card, you should specify the fee groups to link to the card. If you do not specify any fee groups, then the default fee groups for the linked card product are applied (if default fee groups have been set up).

2.2.2. Viewing and Updating a Card's Fee Groups

You can use the GPS web services API to query the fee groups linked to a card. The web services API also enables you to change the fee groups linked to a card and to apply any additional one-off fee charges to a card. For details, see [Managing Fee Groups](#).

2.2.3. Viewing a Card's Transaction Fees

Transaction-related fees are listed in your daily transaction XML report. You can also view transaction-related fees in messages sent via the GPS External Host Interface (EHI) and on [Smart Client](#). For details, see [Viewing a Card's Transaction Fees](#).

2.2.4. Negative Balances and Fees

GPS cards provide a balance and a spending limit equal to the available balance; GPS will not deduct a fee if it takes a card into a negative balance. If insufficient funds are available on a card to cover your card transaction and administration fees, GPS can create a pending fee

record³. See [Querying Pending Fees](#). GPS also enable you to specify that a *partial fee* amount is taken if insufficient funds are available to take the full fee.¹ See [Example Partial Fee](#).

2.3. How are fees applied when a card is used?

Figure 2 below shows the typical process for applying fees on a per transaction basis when a card is used (authorisation process).

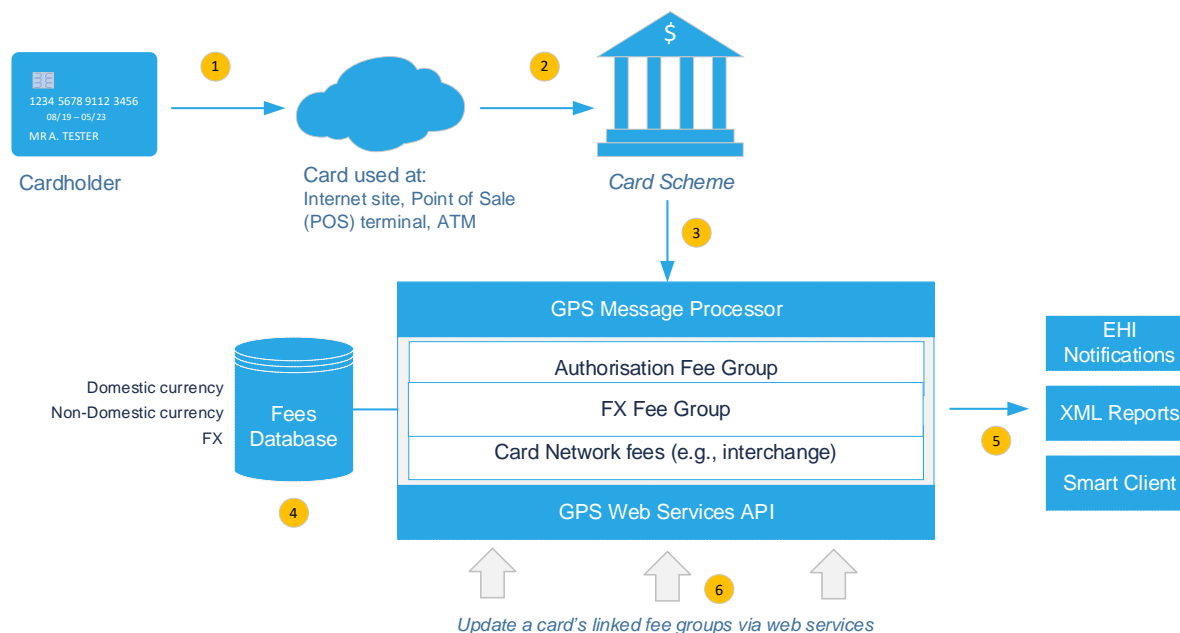


Figure 2: Applying Card Fees

1. The cardholder uses their card at a [Point of Sale \(POS\) Terminal](#), ATM or online merchant website.
2. The merchant website, POS terminal or ATM sends an authorisation request, via their acquirer, to the card scheme.
3. The Card Scheme (Visa/Mastercard) sends the transaction to GPS.
4. The GPS Message Processing System (MPS) processes the transaction. It validates the card, looks up the card's usage group to verify the transaction is permitted and then authorises the transaction (EHI mode 3) or forwards to your systems for authorisation (EHI modes 1,2,4,5). GPS identifies the type of transaction based on the processing code in the message, checks the fee groups linked to the card (each fee group defines the type of fee, fee currency and amount) and calculates the correct card product fees.
5. GPS provides real-time authorisation messages and financial notifications via the External Host Interface (EHI), which include some details of fees applied to cards

³ Pending fee records and partial fees are only implemented if pending fees has been set up for your fee group.

during transactions. The daily XML reports also contain details of fees calculated during transactions. You can view details of fees linked to a specific card or transaction in Smart Client.

6. You can use the web services to view and change the fee groups linked to a card and to apply additional card fees.

Note: A transaction may incur additional fees, such as Card scheme network interchange fees and FX fees. These are also detailed in the XML reports and EHI messages.

2.4. Other Card Fees

This section describes additional types of fees that may be raised against a transaction. These are external fees that are not created or managed by GPS systems.

2.4.1. Network Fees

The acquirers and card schemes (Visa and Mastercard) charge interchange fees for the processing of transactions over their networks. For example:

- POS transactions – positive interchange fee is paid to the [issuer](#) (the [merchant](#) pays)
- ATM transactions – negative interchange fee is paid to the operator of the ATM
- ATM card capture – fee is paid to the operator of the ATM
- Stolen card fee – interchange fee is paid to the [issuer](#)

These fees are only finalised at the [presentment](#) stage when settlement and transfer of funds occurs. These fees are not charged directly to the cardholder and are reported separately. You should factor your fee structure in line with potential network fees.

2.4.2. Chargeback Fees

Disputed transactions where a [Chargeback](#) is raised may incur additional Chargeback fees, payable to the Card Scheme (Visa/Mastercard) and acquirer/issuer.

It is possible to configure a one-off fee to apply to a card, to reflect any fees incurred as a result of a Chargeback. See [Applying Fees to a Card](#).

For further details on Chargebacks, refer to the [GPS Chargeback Guide](#).

3. How to Set Up Card Fees

Your implementation manager will set up your card usage groups and **fee groups** on the GPS system, based on the details in your *Product Setup Form* (PSF).

Once they have set up your fee groups, you can use the GPS web services API to view the available fee groups, link a card to a relevant fee groups and change the fee groups linked to a card. You can also use the web services to return details of any pending fees on a card and query details of card transaction fees over a defined period.

3.1. Steps in Setting up Card Fees

Below is a high-level summary of the steps in setting up and managing the fees linked to the cards in your program.

3.1.1. Setting up Fee Groups and Linking Cards to Fees

1. Consult with your implementation manager, who will complete your *Product Setup Form* (PSF) with details of the fee groups and fees you want to configure for your program. See [Completing your PSF](#).
2. Your implementation manager sets up your fees on the GPS system.
3. When you create a card using the web services API, you specify a *product code* (**CardDesign**), which links the card to any default usage and fee groups configured for this product (if set up). You can override the default card product fee groups and specify specific fee groups to link to the card. See [Linking Cards to Fee Groups](#).

3.1.2. Viewing and Maintaining Card Fees

1. You can use the GPS web services to:
 - Query the fee groups linked to a specific card. See [Listing Fee Groups](#).
 - Change the fee groups linked to a specific card. See [Changing the Fees Groups linked to a card](#).
 - View pending fees on a specified card. See [Querying Pending Fees](#).
 - Query details of card transaction fees over a defined period. [Querying card transaction fees](#).
2. If you need to change any of the fee options, including fee amounts, that are set up within a fee group, please contact your account manager or raise a JIRA change request. You will need to sign off any changes to your *Product Setup Form* (PSF) *before* these changes can be implemented on the GPS system.
3. Details of fees charged on a per transaction basis are available from the following sources:
 - The daily XML transaction report. See [Viewing Card Fees in the XML Report](#).
 - Authorisation and financial notifications sent via the External Host Interface (EHI). See [Viewing Card Fees on EHI](#).
 - Smart Client enables you to view details of transaction fees charged to a card or for a specific transaction. See [Viewing Card Fees on Smart Client](#).

4. Completing your PSF

The *Product Setup Form (PSF)* provides three tabs where the fee groups for your program are recorded:

- 06. Auth Fees
- 07. Recurring Fees
- 0.8 Web Service Fees

Each of these is described in detail below.

4.1. Authorisation Fee Groups

The Authorisation Fee group enables you to define unique fees for each type of card authorisation transaction. For a list of authorisation fee types, see [Authorisation Fee Types](#).

Below is an example of one of the authorisation fee groups set up on the **Auth Fee Groups** tab. You can have multiple **Authorisation Fee Groups** set up for your program.

AUTHORISATION FEE GROUPS																				
Group Name: XXXX General AF								GPS Code: XXX-AF-001												
Multi FX Fee Group (select Y/N) NO																				
	Domestic - base card currency				Non-Domestic - non base card currency								Various (Applicable to Dom and Non Dom)							
	Fee	Rate (in %)	Min Fee	Cap Fee	Fee	Rate (in %)	Min Fee	Cap Fee	FX Fixed fee	FX Rate in %	FX Min Fee	Cap Fee	Decline Fee (enter amount & complete column AB)	Allow Partial (select Y/N)	Allow Multiple Fees (select Y/N)	Threshold type	Threshold amount	No of free txn/month	No of free txn/Activation	SMS fee
Authorisation Fee (Select from drop down menu)																				
Debits (goods and services) [000000] Both	0.00	0.00%	0.00	0.00	0.50	0.00%	0.00	0.00	0.00	3.00%	0.00	0.00	0.00	NO	NO		0			0.00
Debits (for ATM withdrawals, or for cash disbursements using Maestro cards) [010000] Both	2.00	0.00%	0.00	0.00	3.00	0.00%	0.00	0.00	0.00	3.00%	0.00	0.00	0.00	NO	NO		0			0.00
Balance inquiry service [300000] Both	1.00	0.00%	0.00	0.00	1.50	0.00%	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	NO	NO		0			0.00
PIN change transactions [920000] Mastercard	1.50	0.00%	0.00	0.00	2.00	0.00%	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	NO	NO		0			0.00

Figure 3: Authorisation Fee Group


Authorisation fees are set up as a matrix, enabling you to specify at a detailed level the fees to be applied to each type of authorisation transaction.

The **Group Name** is the unique name of the Authorisation Fee group, to be used when linking a card to an authorisation fee group. This is a description of the fee group and should include the Program Manager name and currency (if applicable). For example: *GPS GBP Low Limits*.

How to use the Authorisation Fee Groups Form

Your implementation manager completes this form:

1. The **Group Name** field displays the unique name of the fee group.
2. The **GPS Code** field displays the internal GPS fee code.
3. The **Authorisation Fee** types are listed in column C, in the row under **Authorisation Fee (select from drop-down menu)**. See [Authorisation Types](#).

Each authorisation type is listed as its own row in column C. The **down**  arrow enables you to view and select additional authorisation fee types if required.

4. For each row, the fees and fee options that apply to this authorisation fee type are shown. See [Authorisation Fee Options](#).

4.1.1. Authorisation Types

Refer to the table below for a list of authorisation types. The code in square brackets (for example [000000]) is the processing code for this transaction type, as provided by the card scheme. This processing code is returned in the transaction XML reports and EHI messages and is used as part of the GPS fee logic to calculate the fee.

You can use the processing code to track the source of any authorisation transaction card fee applied to a card. For a full list, see [Appendix 1: Processing Codes \(\(DE003\)\)](#).

Note: The Authorisation types listed below are relevant to both Mastercard and Visa, unless specified otherwise. Rows highlighted in yellow indicate the main transaction type codes (identified by the *first two digits* of the code. Rows below this are sub-level codes that indicate a variation of the main code.

Authorisation Type	Description
Debit POS payments	
Debits (goods and services) [000000]	Payment in store at a point of sale (POS) terminal.
Purchase with Savings account [001000]	POS payment using a linked savings account.
Purchase with Checking account [002000]	POS payment using a linked checking account.
Purchase with Credit Card account [003000]	POS payment using a linked credit card account.
Purchase with Universal account [004000]	POS payment using a linked universal account.
ATM Payments	
Debits (for ATM withdrawals, or for cash disbursements using Maestro cards) [010000]	Cash withdrawal from an automated teller machine (ATM).
Withdrawal with Savings account [011000]	ATM withdrawal from a savings account.
Withdrawal with Checking account [012000]	ATM withdrawal from a checking account.
Withdrawal with Credit Card account [013000]	ATM withdrawal from a credit card account.
Withdrawal with Universal Account [014000]	ATM withdrawal from a universal account.

Authorisation Type	Description
Cashback Payments	
Debits (goods with cash back) [090000]	Cashback transaction.
Purchase with Cash Back with Checking Account [092000]	Cashback transaction from a checking account.
Account Funding transactions	
Account Funding Transaction (AFT) [100000]	Transaction where funds are pulled from a Visa account and are subsequently used to fund another Visa or non-Visa account. ⁴
Quasi-cash (POS) transactions	
Visa quasi-cash (POS) transactions [110000] Visa	POS transaction where the payment was for a cash service (Visa).
Quasi-Cash Transaction (Credit Card Account) [113000] Visa	Quasi-cash transaction for a credit card account (Visa).
Cash disbursements and cash advances	
Cash Disbursement [120000] Mastercard Clearing	Cash payment (Mastercard).
Debits (for cash advances) [170000] Mastercard	Cash advance (Mastercard).
Debits (for cash advances) [171000] Mastercard	Cash advance (Mastercard).
Cash disbursement [172000] Mastercard	Cash payment (Mastercard).
Cash disbursement with Credit Card Account [173000] Mastercard	Cash payment from a credit card account (Mastercard).
Refunds and credits	
Purchase refunds [200000]	Refund to the cardholder.
Purchase Return/Refund - Checking Account [202000]	Refund from a checking account.
Purchase Return/Refund - Credit Card Account [203000]	Refund from a credit card account.

⁴ Not supported by all issuers. In this case, the AFT is converted to a debit transaction (000000).

Authorisation Type	Description
Original Credit [260000] Visa	Payment credit (Visa).
Credits (for Payment Transaction) [280000] Mastercard	Payment credit (Mastercard).
Balance Enquiries (ATM)	
Balance inquiry service [300000]	ATM balance enquiry.
Balance Enquiry with Saving Account [301000]	Balance enquiry on a savings account.
Balance Enquiry with Checking Account [302000]	Balance enquiry on a checking account.
Balance Enquiry with Credit Card Account [303000]	Balance enquiry on a checking account.
Balance Enquiry with Universal Account [304000]	Balance enquiry on a universal account.
PIN Services (ATM)	
PIN change transactions [700000] Visa	Cardholder requests a PIN change (Visa).
PIN unblock transactions [720000] Visa	Cardholder requests a PIN unblock (Visa).
PIN unblock transactions [910000] Mastercard	Cardholder requests a PIN unblock (Mastercard).
PIN change transactions [920000] Mastercard	Cardholder requests a PIN change (Mastercard).

4.1.2. Authorisation Fee Options

Refer to the table below for a list of fees and fee options that can be applied to each of the authorisation fee types listed above.

Fee Option	Description
Domestic and Non-Domestic Card currency	
Fixed fee	Fixed amount to apply to the transaction.
Rate (%) fee	Percentage of the transaction amount to apply.
Minimum fee	Minimum fee to apply.

Fee Option	Description
Cap Fees	Maximum fee to apply.
Foreign Currency Exchange (FX) Fees	
FX Fixed fee	Fixed amount to apply to an FX transaction.
FX Rate (%) fee	Percentage of an FX transaction amount to apply.
FX Minimum fee	Minimum fee to apply.
FX Cap Fees	Maximum fee to apply.
Various Fees	
Decline Fee	<p>Enter the amount and in column AB select the decline Response Codes that will trigger the decline fee. You can select multiple response codes. See Response Codes.</p> <p>Note: if you do not select any response codes, then all the decline response codes can trigger the decline fee.</p>
Allow Partial	Whether to apply a partial fee if the card does not have sufficient funds to cover the full fee. Select YES or NO.
Allow Multiple Fees	<p>Allows you to define different fees for lower-level transactions of the same type (i.e., that have the same first two digits in their processing code). The default is <i>NO</i>. See Allowing Multiple Fees.</p> <p>Note: This option should always be set to <i>NO</i>, unless required for agency banking or to support card processing in your region.</p>
Threshold type	<p>Select the threshold type to trigger the fee:</p> <p>> triggers the fee if the amount is greater than the specified Threshold amount</p> <p>< triggers the fee if the amount is less than the specified Threshold amount</p>
Threshold amount	Specify a transaction threshold amount to trigger the fee. For example: > 1.50. Any authorisation above this amount will trigger the fee.
No of free txn/month	Specify the number of free transactions allowed per month before the fee is triggered.
No of free txn/Activation	Specify the number of free transactions allowed once the card is activated before the fee is triggered.

Fee Option	Description
SMS fee	Specify the fee to be charged for any SMS notification messages sent to the cardholder for this type of transaction.
Currency	Specify the 3-digit ISO currency code. Only applicable for Multi-Wallet setup.

4.1.3. Response Codes

You can configure the **Response Codes** that trigger a Decline fee. The response codes that trigger a decline fee are shown in **Column AB**, in the row beneath **Response Codes**. See the example below. For a list of response codes, see [Appendix 3: Response Codes](#).

Only necessary if DECLINE FEE is a requirement of the programme

Response Codes
<i>Pick from drop down lists below</i>
01 Refer to card issuer
05 Do not honour
06 Unspecified error
08 Honor with identification
10 Partial Approval
12 Invalid Transaction
13 Invalid amount

Figure 4: Example of Response Codes

If you do not select any response codes, then all the decline response codes can trigger the decline fee.

4.1.4. Allowing Multiple Fees

The *Allow Multiple Fees* option enables you to define lower-level transaction fees for transactions of the same type (i.e., that have the same first two digits in their processing code).

- If set to *NO*, then GPS only checks the first two digits of the processing code
- If set to *YES*, then GPS checks the full 6 digits of the processing code, enabling you to apply different fees for each type of lower-level transaction.

Note: The default option is *NO* (disabled) and this setting is recommended. Multiple fees should only be used to support Agency Banking or specific regional use cases.

Example

Payments Out (processing code 160000) can be broken down into separate fees per payment type by enabling multiple fees and configuring separate fees for each of the following:

- Faster Payment out = 161000
- BACS Out = 162000
- Direct Debit out = 163000

Payments In (processing code 290000) can be broken down into separate fees per payment type by enabling multiple fees and configuring separate fees for each of the following:

- Faster Payments In = 291000
- BACS In = 292000

4.2. Recurring Fee Groups

Recurring fees are applied on a recurring basis, based on the frequency you specify (e.g., monthly or annually).

Below is an example of one of the Recurring Fee groups set up on the **Recurring Fee Groups** tab. You can have multiple **Recurring Fee Groups** set up for your program.

RECURRING FEE GROUPS			
Fee Group Name:	XXX General RF	GPS Code:	XXX-RF-001
Enable Pending Fees (select Y/N)	NO		
Recurring Fee (Select from drop down menu)	Amount	Allow Partial (Select Y/N)	<small>If non standard fee please define the exact criteria for how you want the rule to apply as our fees groups are built on a rules engine. If fee is considered non standard it could be chargeable and the development will be considered by our</small>
Yearly Fee- Annual	5.00	NO	Annual fee
Dormancy Fee 6 Months (Repeat 1 Month)	2.00	YES	Dormancy fee charged after 6 months


Figure 5: Recurring Fee Groups

A Recurring Fee group consists of a set of recurring fees configured for that group. For each recurring fee within a Recurring Fee group, you can define:

- The fee **Amount**.
- Whether to allow a **Partial Fee** to be taken if the available balance on the card is less than the full fee.⁵

How to use the Recurring Fee Groups Form

Your implementation manager completes this form:

1. The **Group Name** field displays the unique name of the fee group.
2. The **GPS Code** field displays the internal GPS fee code.
3. The **Enable Pending** field indicates whether pending fees are enabled.⁶
4. The Recurring fee types are listed in column C, in the row under **Recurring Fee (select from drop-down menu)**. See [Recurring Fee Types](#).
5. Each recurring fee type is listed as its own row in column C. The **down**  arrow enables you to view and select additional recurring fee types if required.
6. For each row, the fees and fee options that apply to this recurring fee type are shown.

⁵ GPS fees cannot be taken if they will result in an account going into a negative balance. If you allow partial fees, the available balance on the card will be used to pay off part of the fee charge.

⁶ If a fee cannot be taken due to insufficient funds, GPS creates a Pending fee record.

4.2.1. Recurring Fee Types

Below is a list of recurring fees that you can set up. For more information on the rules around processing of recurring fees, see [Rules for Recurring Fees](#).

Recurring Fee Type	Description
Dormancy Fees	
Dormancy Fee 1 Months (Repeat 1 Month)	Fee applied when a card has not had any transactions during the past month.
Dormancy Fee 2 Months (Repeat 1 Month)	Fee applied when a card has not been loaded with funds or had any transactions during the past 2 months.
Dormancy Fee 3 Months (Repeat 1 Month)	Fee applied when a card has not been loaded with funds or had any transactions during the past 3 months.
Dormancy Fee 6 Months (Repeat 1 Month)	Fee applied when a card has not been loaded with funds or had any transactions during the past 6 months.
Dormancy Fee 12 Months (Repeat 1 Month)	Fee applied when a card has not been loaded with funds or had any transactions during the past 12 months.
Dormancy Fee 13 Months (Repeat 1 Month)	Fee applied when a card has not been loaded with funds or had any transactions during the past 13 months.
Dormancy Fee 24 Months (Repeat 1 Month)	Fee applied when a card has not been loaded with funds or had any transactions during the past 24 months.
Monthly Dormancy Fee - after card expires	Fee applied after a card has expired.
Activation Fees	
Monthly Fee - Activation	Activation fee is applied after the card is activated.
Monthly Fee - Activation Fee Taken 1st (1 Months After)	Activation fee is applied 1 month after the card is activated, on the 1 st of the month.
Monthly Fee - Activation Fee Taken 1st (5 Month After)	Activation fee is applied 5 months after the card is activated, on the 1 st of the month.
Monthly Fee - Activation Fee Taken 1st (6 Months After)	Activation fee is applied 6 months after the card is activated, on the 1 st of the month.

Recurring Fee Type	Description
Monthly Fee - Activation Fee Taken 1st (12 Months After)	Activation fee applied 12 months after the card is activated, on the 1 st of the month.
Load Fees	
Monthly Fee - Following reload	Fee applied following a reload (only triggered once a card is reloaded).
Monthly Fee After Load (1 Month After)	Fee applied one month after a reload.
Monthly Fee After Load (1 Year After)	Fee applied one year after a reload.
Inactivity Fees	
Monthly Fee - No transaction in last 2 days	Fee applied when there have been no transactions on the card during the last 2 days.
Monthly Fee - No transaction in last 90 days	Fee applied when there have been no transactions on the card during the last 90 days.
Monthly Fee - No transaction in last 120 days	Fee applied when there have been no transactions on the card during the last 120 days.
Monthly Fee - No transaction in last 180 days	Fee applied when there have been no transactions on the card during the last 180 days.
Monthly Fee - No transaction in last 365 days	Fee applied when there have been no transactions on the card during the last 365 days.
Monthly Fee - Last Day of Month	Monthly fee, applied on the last day of each month.
Monthly fee 8th of every month	Monthly fee, applied on the 8th day of each month.
Annual Fees	
Yearly Fee- Annual	Annual card management fee.

Note: Monthly fees apply to the main account only, not to sub-accounts.

Dormancy Fees

If configured, dormancy fees apply when a card has not been loaded with funds or had any transactions during the specified period. Certain types of transactions are excluded from the dormancy assessment, such as:

- ATM Balance enquiries
- ATM PIN changes and PIN unblock
- Fee adjustments
- Recurring fees

If one of these types of transactions has occurred during the dormancy period, the dormancy fee will still be applied.

Example of a Partial Fee

A customer using a card with balance £11.00, withdraws £10.00 at an ATM and there is an *ATM Withdrawal* fee for £2.00. The total cost of the transaction will be £12.00 (£10.00 + £2.00). The £10.00 will be withdrawn successfully but only a Fee of £1.00 will be charged.

If set to *NO*, the transaction will be declined for *Insufficient Funds*.

4.2.2. Fees on MVC and Multi-currency Cards

For an MVC or multicurrency cards, where there is a primary card and linked secondary cards, the recurring fee can be set to apply separately to each card/token, or taken from one of the cards. For example, if you have the following links cards:

- MVC primary card token: 123456789 (holds the main account balance)
- Sub-card token: 123456897 (is topped up when required from available funds in the primary card)

You can set up the fee to be deducted from the primary card

4.2.3. Customised Fees

If you want any customised fees, you will need to specify how you want the recurring fee to apply:

- What triggers the fee
- Fee start date
- Fee end date
- Fee period
- How to calculate the day of the month to charge on
- How does the fee stop?
- Does the fee continue after card expiry?

Note: Any development work required to implement any non-standard fee requirements may be chargeable. For details, check with your account manager.

4.3. Web Service Fee Groups

Web Service fees can be applied to a card when specific GPS web services are used.

Examples of use of the web services include card balance enquires, card replacement, card load and bank transfer fees. (For a list of web service fee processing codes, see [Appendix 2: Fee Processing Codes](#).)

Below is an example of one of the web services fee groups set up on the **Web Services Fees** tab. You can have multiple **Web Service Fee Groups** set up for your program.

WEB SERVICE FEE GROUPS

Fee Group Name:	XXX General WF Group	GPS CODE	XXX-WF-001		
Enable Pending Fees (select Y/N)	YES				
	Domestic- base card currency				
Web Service Fee: (Select from drop down menu)	Fee	Rate %	Min Fee	Allow Partial (select Y/N)	SMS Fee
Fees : Standard Web Service (005)	0.00	3.00	0.00	NO	0.00
Fees: Credit Card Payment (062)	0.00	3.00	0.00	NO	0.00
Fees: Bank Transfer (064)	0.50	0.00	0.00	NO	0.00
Fees: Primary Card (068)	4.99	0.00	0.00	NO	0.00
Balance Enquiry Fee 3 - SMS (073)	0.05	0.00	0.00	NO	0.00
Card Closure/Redemption Fee (081)	5.00	0.00	0.00	NO	0.00
Card Replacement Fee (084)	4.99	0.00	0.00	NO	0.00

Figure 6: Web Service Fee Group


The **Group Name** is the unique name of the Web Service Fee group, to be used when linking a card to the fee group. Web Service fees are set up in the card's domestic currency.

You can define the following fees for each web service fee type:

- **Fee** – fixed fee to be applied to that transaction
- **Rate (%) fee** – a percentage of the transaction is charged
- **Minimum fee** – a minimum fee to apply to a transaction if you are using a rate fee.
- **Allow Partial Fee** – whether to allow a partial fee of the required fee to be charged based on the available balance (less than the fee) on the card.
- **SMS Fee** – if the web service triggers an SMS message that is sent to the cardholder.

How to use the Web Service Fee Groups Form

Your implementation manager completes this form:

1. The **Group Name** field displays the unique name of the fee group.
2. The **GPS Code** field displays the internal GPS fee code.
3. The **Enable Pending** field indicates whether pending fees are enabled.⁷
7. Web service fee types are listed in column C, in the row under **Web Service Fee (select from drop-down menu)**. For a list of web service fee processing codes, see [Appendix 2: Fee Processing Codes](#).
8. Each web service fee type is listed as its own row in column C. The **down**  arrow enables you to view and select additional web service types if required.
4. For each row, the fees and fee options that apply to this web service type are shown.

⁷ If a fee cannot be taken due to insufficient funds, GPS creates a Pending fee record.

5. Fee Maintenance

This section describes the options for viewing and maintaining fees for your program. For more information on the web services API described in this section, see the [Web Services Guide](#).

5.1. Managing Fee Groups

You can use the GPS web services API to query and update the fee groups linked to a card and to apply additional fees to a card.

5.1.1. Listing Fee Groups

You can use the List Groups web service ([Ws_list_group](#)) to list the codes and descriptions of all groups of a certain type (e.g. Fee Groups). You can specify one the following [<GroupType>](#) values related to fees:

2 = Authorisation Fee Groups

3 = Recurring/Scheduled Fee Groups

4 = Web Service Fee Groups

See the example below: (only relevant fields are shown)

Request

```
<soapenv:Body>
  <hyp:Ws_List_Group>
    <hyp:WSID>1234</hyp:WSID>
    <hyp:IssCode>ABCD</hyp:IssCode>
    <hyp:GroupType>2</hyp:GroupType>
  </hyp:Ws_List_Group>
</soapenv:Body>
```

2 = Authorisation Fee Group

Response

```
<Ws_List_GroupResult>
  <WSID>1234</WSID>
  <IssCode>ABCD</IssCode>
  <GroupType>1</GroupType>
  <ActionCode>000</ActionCode>
  <GroupInfo>
    <GroupListInfo>
      <GroupCode>GRPAUTH1</GroupCode>
      <GroupDesc>GROUP Auth 1</GroupDesc>
    </GroupListInfo>
    <GroupListInfo>
      <GroupCode>GRPAUTH2</GroupCode>
      <GroupDesc>GROUP Auth 2</GroupDesc>
    </GroupListInfo>
    <GroupListInfo>
      <GroupCode>GRPAUTH3</GroupCode>
      <GroupDesc>GROUP Auth 3</GroupDesc>
    </GroupListInfo>
  </GroupInfo>
</Ws_List_GroupResult>
```

Authorisation Fee
Groups set up on GPS

Note: If you do not specify a [<GroupType>](#) value in the request or request a type that does not exist, this will return an error.

5.1.2. Linking Cards to Fee Groups

When creating a card using the Create Card web service ([Ws_CreateCard](#)), if you do not specify fee groups then the default groups for the card product associated with the card are used. Alternatively, you can link the card to specific fee groups at the time when the card is created.

If the card is being loaded for the first time and you do not want to apply your normal card load fee, you can use the [FeeWaiver](#) parameter to exempt the card from the web services load fee.

See the example below: (only relevant fields are shown)

Request

```
<hyp:Ws_CreateCard>
  <hyp:WSID>1234</hyp:WSID>
  <hyp:IssCode>ABCD</hyp:IssCode>
  .....
  <hyp:LimitsGroup>DF-01</hyp:LimitsGroup>
  <hyp:MCCGroup></hyp:MCCGroup>
  <hyp:PERMSGroup></hyp:PERMSGroup>
  .....
  <hyp:FeeGroup>GROUP1</hyp:FeeGroup>
  <hyp:SchedFeeGroup>GROUP1</hyp:SchedFeeGroup>
  <hyp:WSFeeGroup>GROUP2</hyp:WSFeeGroup>
  <hyp:FxGroup>GROUP4</hyp:FxGroup>
  ...
  <hyp:FeeWaiver></hyp:FeeWaiver>
```

Specifying the fee groups to link to this new card.

Response

```
<Ws_CreateCardResponse xmlns="http://www.globalprocessing.ae/HyperionWeb">
  <Ws_CreateCardResult>
    <WSID>1234</WSID>
    <IssCode>ABCD</IssCode>
    <TxnCode>10</TxnCode>
    <PublicToken>123456789</PublicToken>
    ...
    <LocDate>2021-01-01</LocDate>
    <LocTime>120000</LocTime>
    <ItemID>1234</ItemID>
    <ClientCode>0</ClientCode>
    <SysDate>2021-01-01</SysDate>
    <ActionCode>000</ActionCode>
    <LoadValue>10</LoadValue>
    <IsLive>false</IsLive>
    <ExpDate>03/22</ExpDate>
    <CVV>123</CVV>
    <MaskedPAN>987654*****0123</MaskedPAN>
  </Ws_CreateCardResult>
</Ws_CreateCardResponse>
```

5.1.3. Changing the Fees Groups Linked to a Card

You can use the **Change Card Groups** web service ([Ws_Card_Change_Groups](#)) to change one or more of the usage or fee groups for a specific card.

Note: You must enter the GPS code of an existing a Fee group, as defined in your *Product Setup Form (PSF)*.

See the example below: (only relevant fields are shown)

Request

```
<soapenv:Body>
  <hyp:Ws_Card_Change_Groups>
    <hyp:WSID>1234</hyp:WSID>
    <hyp:IssCode>ABCD</hyp:IssCode>
    <hyp:PAN></hyp:PAN>
    <hyp:PublicToken>123456789</hyp:PublicToken>
    ...
    <hyp:LimitsGroup> </hyp:LimitsGroup>
    <hyp:MCCGroup></hyp:MCCGroup>
    <hyp:PERMSGGroup></hyp:PERMSGGroup>
    <hyp:FeeGroup>GRPAUTH2</hyp:FeeGroup>
    <hyp:SchedFeeGroup></hyp:SchedFeeGroup>
    <hyp:LinkageGroup></hyp:LinkageGroup>
    <hyp:AuthCalendarGroup></hyp:AuthCalendarGroup>
    <hyp:FXGroup></hyp:FXGroup>
    <hyp:PaymentTokenUsageGroup></hyp:PaymentTokenUsageGroup>
  </hyp:Ws_Card_Change_Groups>
</soapenv:Body>
```

Response

```
<soap:Body>
  <Ws_Card_Change_GroupsResponse
xmlns="http://www.globalprocessing.ae/HyperionWeb">
    <Ws_Card_Change_GroupsResult>
      <WSID>1234</WSID>
      <IssCode>ABCD</IssCode>
      <ActionCode>000</ActionCode>
      ...
      <LocDate>2021-01-01</LocDate>
      <LocTime>120000</LocTime>
      <SysDate>2021-01-01</SysDate>
      <PublicToken>123456789</PublicToken>
    </Ws_Card_Change_GroupsResult>
  </Ws_Card_Change_GroupsResponse>
</soap:Body>
```

5.2. Viewing and Applying Card Fees

A number of web services are available for querying and applying fees to a specific card.

5.2.1. Querying Pending Fees

You can use Card List Pending Fees ([Ws_List_Pending_Fees](#)) to return details of pending fees that relate to a specific card. Pending fees are any charges that could not be taken from the card due to an insufficient available balance.

For example, if you charge a card activation fee and the card is activated before funds have been loaded, this will generate a pending fee. The pending fee is taken when the card is loaded (i.e., when sufficient funds are available).

See the example below: (only relevant fields are shown)

Request

```
<hyp:Ws_List_Pending_Fees>
  <hyp:WSID>123456789</hyp:WSID>
  <hyp:IssCode>ABCD</hyp:IssCode>
  <hyp:PublicToken>123456789</hyp:PublicToken>
  <hyp:FeeProcessingCode></hyp:FeeProcessingCode>
</hyp:Ws_List_Pending_Fees>
```

Specify the card you are querying.

Response

```
<Ws_List_Pending_FeesResponse>
  <Ws_List_Pending_FeesResult>
    <WSID>123456789</WSID>
    <ActionCode>000</ActionCode>
    <Fees>
      <Fee>
        <PublicToken>123456789</PublicToken>
        <PostDate>2021-03-14</PostDate>
        <TransDate>2021-03-14</TransDate>
        <ProcCode>84</ProcCode>
        <ActualAmt>4.99</ActualAmt>
        <AmtTaken>4</AmtTaken>
        <RemainingAmt>.99</RemainingAmt>
        <Description>Load fee</Description>
        <PartialAllowed>true</PartialAllowed>
        <Collected>true</Collected>
        <PendingFeesEnabled>true</PendingFeesEnabled>
      </Fee>
      <Fee>
        <PublicToken>123456789</PublicToken>
        <PostDate>2021-03-14</PostDate>
        <TransDate>2021-03-14</TransDate>
        <ProcCode>82</ProcCode>
        <ActualAmt>2</ActualAmt>
        <AmtTaken>0</AmtTaken>
        <RemainingAmt>2</RemainingAmt>
        <Description>Card Issue Fee</Description>
        <PartialAllowed>>false</PartialAllowed>
        <Collected>true</Collected>
        <PendingFeesEnabled>true</PendingFeesEnabled>
      </Fee>
    </Fees>
  </Ws_List_Pending_FeesResult>
</Ws_List_Pending_FeesResponse>
```

5.2.2. Querying Card Transaction Fees

You can use the Card Statement web service `<Ws_Card_Statement>` to query details of card transaction fees over a defined period.

Note: We recommend you use the EHI data feed for viewing details of your fees. Using web services to query card fees may incur additional charges. Please ensure you abide by the GPS *Fair Usage Policy* for web services (refer to your *Letter of Intent* or *Contract*).

See the example below: (only relevant fields are shown)

Request

```
<hyp:Ws_Card_Statement>
  <hyp:WSID>1234</hyp:WSID>
  <hyp:IssCode>ABCD</hyp:IssCode>
  <hyp:TxnCode>5</hyp:TxnCode>
  ...
  <hyp:PublicKey>123456789</hyp:PublicKey>
  ...
  <hyp:TxnFilter>5</hyp:TxnFilter>
  <hyp:StartDate>2020-01-15</hyp:StartDate>
  <hyp:EndDate>2021-01-15</hyp:EndDate>
  <hyp:NumTxn></hyp:NumTxn>
  <hyp:DataSrc>0</hyp:DataSrc>
</hyp:Ws_Card_Statement>
```

Response

```
<Ws_Card_StatementResult>
  <WSID>1234</WSID>
  <IssCode>ABCD</IssCode>
  <TxnCode>5</TxnCode>
  ...
  <PublicKey>123456</PublicKey>
  ...
  <StartBal>10</StartBal>
  <EndBal>0</EndBal>
  <TxnFilter>5</TxnFilter>
  <StartDate>2020-01-15</StartDate>
  <EndDate>2021-01-15</EndDate>
  <NumTxn>2</NumTxn>
  <ItemSrc>2</ItemSrc>
  <CurBill>GBP</CurBill>
  <AvlBal>0</AvlBal>
  <BlkAmt>0</BlkAmt>
  ...
  <Transactions>
    <Transaction1>
      <TxnDate>2021-02-01</TxnDate>
      <PostDate>2021-02-01</PostDate>
      <AmtBill>10</AmtBill>
      <AmtTxn>10</AmtTxn>
      ...
      <Description> Unload: UnLoad</Description>
      ...
      <TransactionType>U</TransactionType>
      <StatusCode>S</StatusCode>
      <StatusDesc> Settled: -</StatusDesc>
      ...
    
```

```

<FeeId>0</FeeId>
<FixedFee>0.05</FixedFee>
<RateFee>0</RateFee>
<FxPdg>0</FxPdg>
...
<ProcCode>230000</ProcCode>
</Transaction1>
<Transaction2>
  <TxnDate>2021-01-15</TxnDate>
  <PostDate>2021-01-15</PostDate>
  <AmtBill>10</AmtBill>
  <AmtTxn>10</AmtTxn>
  <BillConvRate>1</BillConvRate>
  <DebOrCred>1</DebOrCred>
  <TerminalId/>
  <Description> Load: Web services load </Description>
  <RRN/>
  <CurTxn>GBP</CurTxn>
  <ItemId>1233</ItemId>
  <AvlBal>10</AvlBal>
  <BlkAmt>0</BlkAmt>
  <TransactionType>L</TransactionType>
  <StatusCode>S</StatusCode>
  <StatusDesc>Settled : -</StatusDesc>
  ..
  <FeeId>0</FeeId>
  <WSID>1234</WSID>
  <FixedFee>0.05</FixedFee>
  <RateFee>0</RateFee>
  <FxPdg>0</FxPdg>
  ..
  <ProcCode>220000</ProcCode>
</Transaction2>
</Transactions>

```

Fee amount.

You can use the description and processing code (DE003) to determine the source of the fee.

For details of the processing codes, see [Appendix 1: Processing Codes \(DE003\)](#).

5.2.3. Applying Fees to a Card

You can use the Generic Fees web service `<Ws_Generic_Fees>` to apply a one-off fee charge with a comment to a particular card.

You need an associated processing code (`<ProcCode>`) for applying the fee. You can use the default amount configured for the web service fee group or specify an amount using the `<Fee>` parameter and add a comment to clarify the purpose of the fee (e.g., *Administration Fee* or *Chargeback fee*).

Note: We recommend you use processing code 83 (administration fee) when applying ad-hoc fees to a card.

You will first need to configure the details of your Web Service Group in the PSF, and this must then be set up by your implementation manager. See [Web Service Fee Groups](#)

Request

```
<hyp:Ws_Generic_Fees>
  <hyp:WSID>1234</hyp:WSID>
  <hyp:IssCode>ABCD</hyp:IssCode>
  <hyp:PAN></hyp:PAN>
  <hyp:PublicToken>123456789</hyp:PublicToken>
  <hyp:ProcCode>83</hyp:ProcCode>
  <hyp:Comment>Admin fee</hyp:Comment>
  <hyp:LocDate>2013-01-01</hyp:LocDate>
  <hyp:LocTime>120000</hyp:LocTime>
  <hyp:Fee>0.0</hyp:Fee>
</hyp:Ws_Generic_Fees>
```

Enter the two-digit GPS process code and add a description to the fee.

For details of the processing codes, see [Appendix 2: Fee Processing Codes](#).

5.3. Viewing a Card's Transaction Fees

Transaction-related fees are listed in your daily XML transaction report and in real-time EHI messages. Transaction-related fees can also be viewed on Smart Client.

5.3.1. Viewing Card Fees in the XML Report

The daily XML report provides details of any card fees applied to a transaction.

Below is an example of an extract for a typical XML authorisation transaction: (only relevant fields are shown)

```

<CardAuthorisation>
<RecType>ADV</RecType>
<AuthId>101455187</AuthId>
<AuthTxnID>11606448</AuthTxnID>
...
<Card PAN="1234567812345678"product=""programid="
"branchcode=""productID=""> </Card>
<Account no="123456789"type="01"></Account>
<TxnCode direction="debit"Type="pos"Group="pos"></TxnCode>
<TxnAmt value="10.00"currency="826"></TxnAmt>
...
<PaddingAmt value="0.00"currency="826"></Pa
<Rate_Fee value="0.00"></Rate_Fee>
<Fixed_Fee value="0.20"></Fixed_Fee>
<CommissionAmt value="0.00"currency="826"></CommissionAmt>
<Classification MCC="5942"></Classification>
<Response approved="no"actioncode="1"responsecode="21"></Response>
  
```

Authorisation Fee Group charges applied

For more information, see the [XML Reporting Guide](#).

5.3.2. Viewing Card Fees on EHI

EHI messages provide details of any card fees applied during a transaction. Note that the fee type and value are provided, but details of the Fee group used to determine the fee are not provided.

Below is an example of an extract for a typical XML authorisation transaction: (only relevant fields are shown)

```

<GetTransaction xmlns="http://tempuri.org/">
...
    <ActBal>0.08</ActBal>
    <Avl_Bal>-6.95</Avl_Bal>
...
    <Bill_Amt>-6.95</Bill_Amt>
    <Bill_Ccy>826</Bill_Ccy>
    <BlkAmt>-6.95</BlkAmt>
...
    <FX_Pad>0.00</FX_Pad>
    <Fee_Fixed>0.10</Fee_Fixed>
    <Fee_Rate>0.00</Fee_Rate>
...
    <MCC_Code>5812</MCC_Code>
    <MCC_Desc>Eating Places, Restaurants</MCC_Desc>
    <MCC_Pad>0.00</MCC_Pad>
    <Merch_ID_DE42>228284651</Merch_ID_DE42>
    <Merch_Name_DE43>LA FROMAGERIE LIMITED
GBR</Merch_Name_DE43>.....
    <Proc_Code>000000</Proc_Code>
    <Resp_Code_DE39>00</Resp_Code_DE39>
    <Ret_Ref_No_DE37>018210004379</Ret_Ref_No_DE37>
    <Settle_Amt>0.00</Settle_Amt>
    <Settle_Ccy></Settle_Ccy>
    <Status_Code>00</Status_Code>
    <Token>857264992</Token>
    <Trans_link>160113703254012319</Trans_link>
    <Txn_Amt>11.27</Txn_Amt>
    <Txn_CCy>826</Txn_CCy>
    <Txn_Ctry>GBR</Txn_Ctry>
    <Txn_Desc>LA FROMAGERIE LIMITED LONDON GBR</Txn_Desc>
    <Txn_GPS_Date>2016-01-13 14:05:13.747</Txn_GPS_Date>
...
    <Dom_Fee_Fixed>0.10</Dom_Fee_Fixed>
    <Non_Dom_Fee_Fixed>0.0</Non_Dom_Fee_Fixed>
    <Fx_Fee_Fixed>0.00</Fx_Fee_Fixed>
    <Other_Fee_Amt>0.00</Other_Fee_Amt>
    <Fx_Fee_Rate>0.00</Fx_Fee_Rate>
    <Dom_Fee_Rate>0.00</Dom_Fee_Rate>
    <Non_Dom_Fee_Rate>0.01</Non_Dom_Fee_Rate>
...
    <Currency_Code_Fee></Currency_Code_Fee>
    <Currency_Code_Fee_Settlement></Currency_Code_Fee_Settlement>
    <Interchange_Amount_Fee></Interchange_Amount_Fee>
    <Interchange_Amount_Fee_Settlement></Interchange_Amount_Fee_Settlement>
</GetTransaction>
  
```

Authorisation Fee Group charges applied (domestic)

You can use the processing code (DE003) to determine the source of the fee.

Authorisation Fee Group charges applied

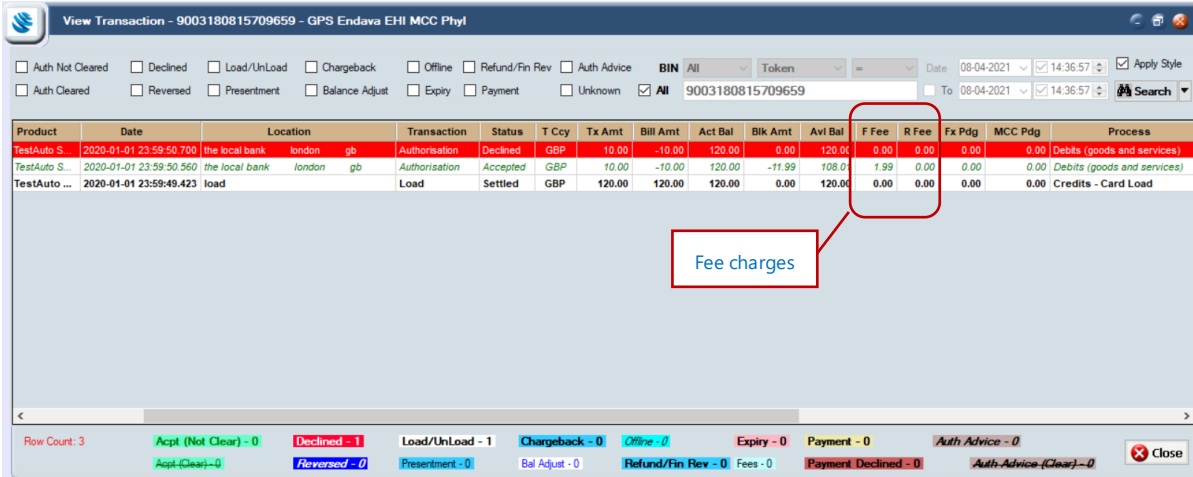
FX Fee Group charges applied

For more information, see the [External Host Interface \(EHI\) Guide](#).

5.3.3. Viewing Card Fees on Smart Client

You can view details of fees charges for a transaction in Smart Client, on the **View Transaction** and **Transaction Details** screens:

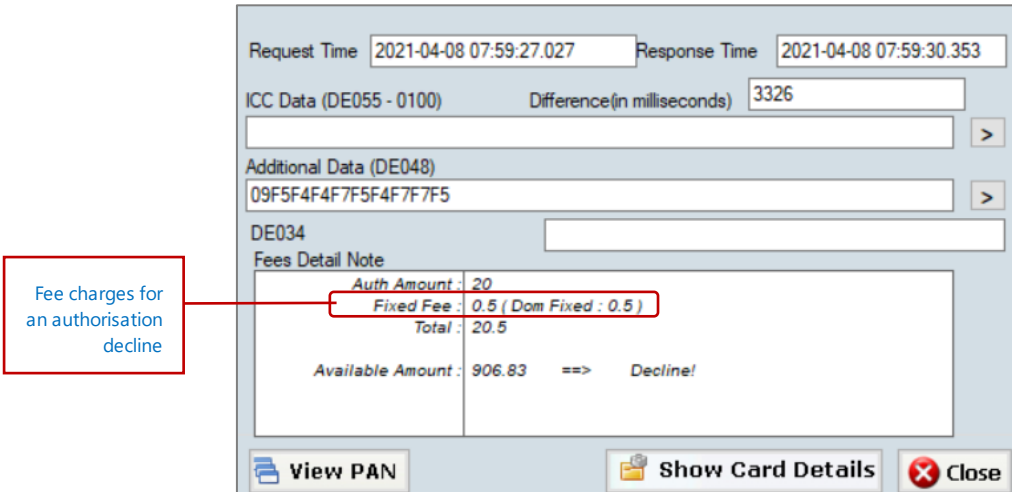
1. Log in to Smart Client and select **Card Activity > Transactions**.
The **View Transactions** screen shows a list of transactions held on the GPS system for your program.
2. Double-click the transaction row you are interested in.
This opens the **View Transaction** screen, listing the transaction and any linked transactions. Details of fees applied are also displayed:



Product	Date	Location	Transaction	Status	T Ccy	Tx Amt	Bill Amt	Act Bal	Blk Amt	Avl Bal	F Fee	R Fee	Fx Pdg	MCC Pdg	Process
TestAuto S...	2020-01-01 23:59:50.700	the local bank london	Authorisation	Declined	GBP	10.00	-10.00	120.00	0.00	120.00	0.00	0.00	0.00	0.00	Debits (goods and services)
TestAuto S...	2020-01-01 23:59:50.560	the local bank london	Authorisation	Accepted	GBP	10.00	-10.00	120.00	-11.99	108.01	1.99	0.00	0.00	0.00	Debits (goods and services)
TestAuto ...	2020-01-01 23:59:49.423	load	Load	Settled	GBP	120.00	120.00	120.00	0.00	120.00	0.00	0.00	0.00	0.00	Credits - Card Load

Figure 7: View Transactions Screen

3. To view fee details, double-click the transaction row.
This opens the **Transaction Details** screen.
4. Scroll down to the **Fee Detail Note** section on this screen, as shown in the example below:



Request Time: 2021-04-08 07:59:27.027 Response Time: 2021-04-08 07:59:30.353

ICC Data (DE055 - 0100) Difference (in milliseconds) 3326

Additional Data (DE048) 09F5F4F4F7F5F4F7F5

DE034

Fees Detail Note

Auth Amount: 20
 Fixed Fee: 0.5 (Dom Fixed: 0.5)
 Total: 20.5

Available Amount: 906.83 ==> Decline!

View PAN Show Card Details Close

Figure 8: Fee Detail Note on the Transaction Details screen

For more information, see the [Smart Client Guide](#).

6. Appendix 1: Processing Codes (DE003)

Refer to the table below for a list of Card scheme authorisation type processing codes. These codes use the DE003 messages for Mastercard or Visa transactions. GPS also use this field to supply a processing code for GPS-generated transactions. The codes are listed in the **Processing Code** screen on [Smart.Client](#).

Note: To ensure you are using the latest processing codes, we recommend you always check the Processing codes listed in the [Web Services Guide](#).

Code	Description
Authorisation processing codes	
000000	Debits (goods and services)
001000	Purchase with Savings account
002000	Purchase with Checking account
003000	Purchase with Credit Card account
003900	Purchase - Corporate account
004000	Purchase with Universal Account
006000	Purchase - Stored value account
010000	Debits (for ATM withdrawals, or for cash disbursements using Maestro cards)
011000	Withdrawal with Savings account
012000	Withdrawal with Checking account
013900	Withdrawal - Corporate account
014000	Withdrawal with Universal Account
016000	Withdrawal - Stored value account
013000	Withdrawal with Credit Card account
020000	Adjustment Credits
021000	Adjustment Credits
022999	PayPoint Load Fee
Web Service codes	

Code	Description
006999	Fees : Agent
007999	Fees : Head Office
008999	Fees : Call Centre
009999	Fees : Customer Web site
011999	Fees : Customer kiosk
012999	Fees : Customer mobile app
017999	Fees : Corporate
018999	Fees : epay
019999	Fees : HOCA Verifiable
023999	Fees : POS Reload
034999	Fees : Unload to Repatriate
047999	Fees : Unload
048999	Fees : Balance Transfer
049999	Fees : Sofort Banking
052999	Fee: Load1

Note: Legacy fee codes and fee codes that are reserved for specific GPS customers are not listed above.

7. Appendix 2: Fee Processing Codes

Refer to the table below for a list of GPS fee processing codes which are used in some web services and displayed in Smart Client. You can use these codes to define the fees you want to apply to specific web services. See [Web Service Fee Groups](#).

Note: To ensure you are using the latest processing codes, we recommend you always check the Fee Processing codes listed in the [Web Services Guide](#).

Code	Description
001	Fees : POS Standard
002	Fees : GPS Kiosk
003	Fees : GPS Web Site
004	Fees : Card Processor
005	Fees : Standard Web Service
006	Fees : Agent
007	Fees : Head Office
008	Fees : Call Centre
009	Fees : Customer Web site
011	Fees : Customer kiosk
012	Fees : Customer mobile app
017	Fees : Corporate
018	Fees : epay
019	Fees : HOCA Verifiable
020	Fees : Post Office
021	Fees : HOCA Non Verifiable
022	Fees : Paypoint
023	Fees : POS Relaod
034	Fees : Unload to Repatriate
035	Fees : Loan Repayment

Code	Description
047	Fees : Unload Fee Test
048	Fees : Balance Transfer Fee Test
049	Fees : Sofort Banking
056	Fees : Sofort Bank Transfer Load
057	Debit Card Load fee
058	PIN Control
060	Fees : Post Office and Paypoint
061	Fees : Credit Limit
062	Fees : Credit Card Payment
063	Fees : Ukash Payment
064	Fees : Bank Transfer
065	Fees : Giropay
066	Fees : Sofortüberweisung
067	Fees : Debit Card
068	Fees : Primary Card
069	Monthly Service Fee
070	Balance Enquiry Fee 0 – Call Centre
071	Balance Enquiry Fee 1 – Website
072	Balance Enquiry Fee 2 – IVR
073	Balance Enquiry Fee 3 – SMS
074	Fees : Master Virtual Card
075	Fees : Micropayment
076	Fees : MVC Load
077	Fees : iMVC Load
078	Fees : P2P Transfer

Code	Description
079	Fees : Auto-transfer from Primary Card
080	Card Upgrade Fee
081	Card Closure/Redemption Fee
082	Card Issue Fee (Physical)
083	Administration Fee
084	Card Replacement Fee
085	Card Issue Fee (Virtual)
086	Secondary Card Issue Fee
087	Primary Card Activation Fee
088	Secondary Card Activation Fee
089	Lost & Stolen Card Fee
090	Monthly Service Fee Virtual
091	Fees : Incoming SEPA Transfers
092	Fees : Incoming Direct Debit
093	Fees : Outgoing Sepa Transfers
094	Fees : Outgoing Direct Debit
095	Fees : Voucher
096	Fees : Cash Incentive Rewards
097	Fees : Entercash
098	Fees : Payvision
100	Fees : La banque Postale
101	Fees : La Banque Postale
102	Fees : Loyalty Programme
103	Fees : KYC Upgrade_Grp Chng
106	Fees : First Load from MVC

Code	Description
107	Fees : Cash Deposit
108	Fees : International Bank Transfer
109	Fees : Balance Transfer – Mtel
110	Fees : Balance Transfer – Phyre
111	Fees : Balance Transfer – CashTerminal
112	Fees : Balance Transfer – Payoo

Note: Legacy fee codes and fee codes that are reserved for specific GPS customers are not listed above.

8. Appendix 3: Response Decline Codes

Refer to the table below for a list of response codes returned for a declined transaction. You can use these codes to define the fees you want to apply to specific authorisation declines.

See [Authorisation Fee Groups](#).

Code	Description
01	Refer to card issuer
03	Invalid merchant
05	Do not honour
12	Invalid transaction
13	Invalid amount
14	Invalid card number (no such number)
15	No such Issuer
17	Customer cancellation
30	Format error
46	Closed account
51	Insufficient funds
54	Expired card
55	Invalid PIN
57	Transaction not permitted to cardholder
58	Transaction not permitted to terminal
61	Exceeds withdrawal amount limit
62	Restricted card (Card is not active)
63	Security violation
64	Original amount incorrect
65	Exceeds withdrawal frequency limit
66	Card acceptor call acquirer's security
68	Response received too late
69	Verification data failed (Invalid or missing data to verify card, cardholder or other)
70	Cardholder to contact issuer
71	PIN not changed

Code	Description
75	Allowable number of PIN tries exceeded
76	Wrong PIN, allowable number of PIN
77	Issuer does not participate in the service
78	Account balance unavailable
79	Unacceptable PIN
80	Network error
81	Foreign network failure
82	Timeout at IEM
83	Card destroyed
86	PIN validation not possible
87	Purchase amount only, no cash back
88	Cryptographic failure
89	Unacceptable PIN
91	Issuer or switch is inoperative
92	Unable to route to Issuer
93	Violation of law
94	Duplicate transaction
95	Reconcile error
96	System malfunction
98	Refund given to customer
99	Card voided
C0	Requires Strong Customer Authentication (SCA), Card
C1	Requires Strong Customer Authentication (SCA), non-card
N0	Force STIP
N7	Decline for CVV2 failure
P5	PIN change/Unblock request declined
P6	Unsafe PIN

9. Appendix 4: Applying a Fee to an Event

You can apply a fee to an event where a web service is used to trigger that event. Below is a list of events that are initiated using web services, which you can configure to trigger fees. For details of how to configure the fee in the GPS system, see [Web Service Fee Groups](#).

Proc Code	Event	Web Service that triggers the fee
058	PIN Control	WS_PinControl
070	Balance Enquiry Fee 0 – Call Centre	Ws_Card_BalEnq Ws_Balance_Enquiry(_V2)
071	Balance Enquiry Fee 1 – Website	Ws_Balance_Enquiry(_V2)
072	Balance Enquiry Fee 2 - IVR	Ws_Balance_Enquiry(_V2), Ws_Card_BalEnq
073	Balance Enquiry Fee 3 - SMS	Ws_Balance_Enquiry(_V2), Ws_Card_BalEnq
080	Card Upgrade Fee	Ws_Convert_Card
081	Card Closure/Redemption Fee	Ws_StatusChange
082	Card Issue Fee (Physical)	Ws_CreateCard
084	Card Replacement Fee	Ws_Renew_Card
085	Card Issue Fee (Virtual)	Ws_CreateCard
086	Secondary Card Issue Fee	Ws_link_cards Ws_CreateCard
087	Primary Card Activation Fee	Ws_Activate_Load Ws_CreateCard
088	Secondary Card Activation Fee	Ws_Activate_Load Ws_CreateCard
089	Lost & Stolen Card Fee	Ws_Regenerate Ws_RegenerateWallet

10. Appendix 5: Fee Processing Flows

This section provides examples of how card fees are processed on the GPS system.

10.1. Authorisation Fee Processing Flow

Figure 9 below describes the steps in processing an authorisation fee on the GPS system. The transaction processing code (**Proc_Code**) returned from Visa/Mastercard is used to determine which fee to charge, based on the Authorisation Fee Group linked to the card record.

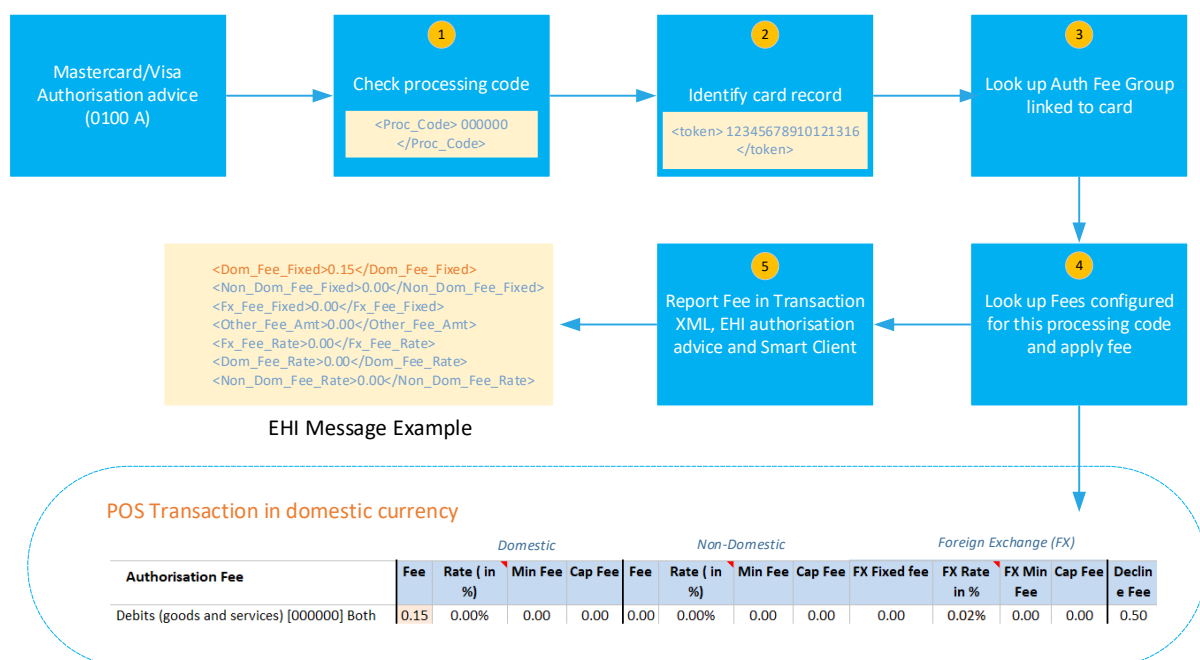


Figure 9: Authorisation Fee Processing Flow

For details of how to configure your Authorisation fee groups, see [Authorisation Fee Groups](#).

10.2. Web Service Fee Processing Flow

Web service fees are triggered in one of two scenarios:

- **Automatically triggered** - when a web service is used, a fee is triggered automatically if a fee for this web service has been set up in a Web Services Fee group.
- **Manually applied** - when you apply an ad-hoc fee using the **Generic Fees** (*Ws_Generic_Fees*) web service (e.g., one-off Administration Fee). See [Applying Fees to a Card](#).

Figure 10 below describes the steps in processing a web service fee on the GPS system, where the fee is automatically triggered via a fee group. GPS use the transaction processing code (*Proc_Code*) to determine which fee to charge, based on the Web Service Fee Group linked to the card record.

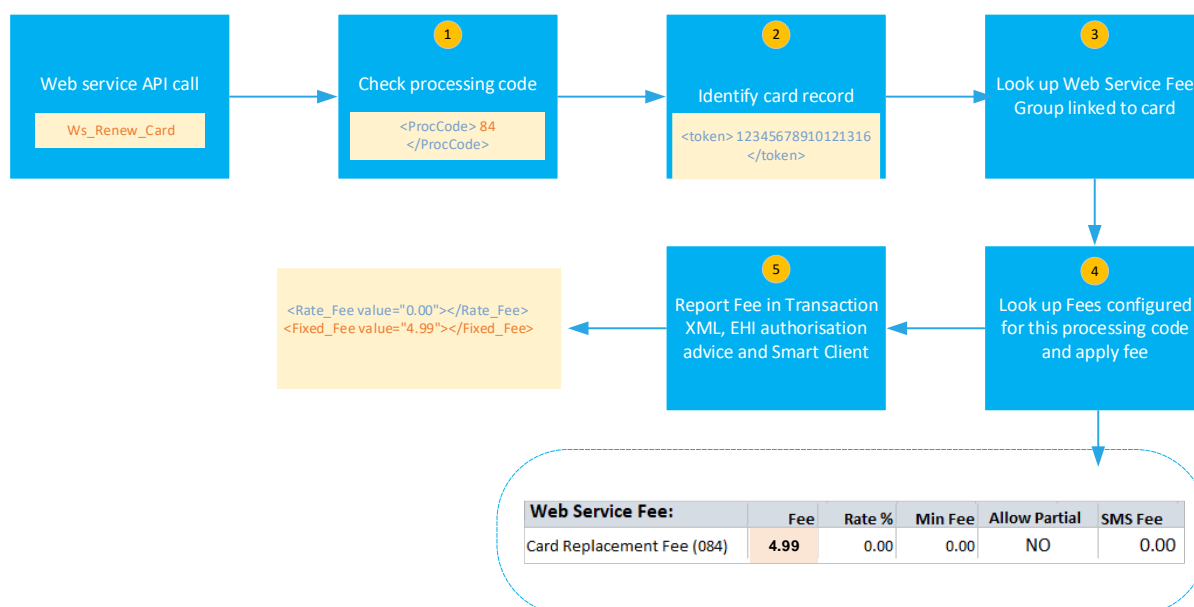


Figure 10: Web Service Fee Processing Flow

For details of how to configure your Web Service fee groups, see [Web Service Fee Groups](#).

10.3. Recurring Fee Processing Flow

Figure 11 below describes the steps in processing a Recurring fee on the GPS system. The fee is triggered when a daily scheduled job that is run on the card's database identifies a recurring fee is due on a card. GPS use the Recurring Fee Group linked to the card record to determine when to apply a fee and which fee to charge.

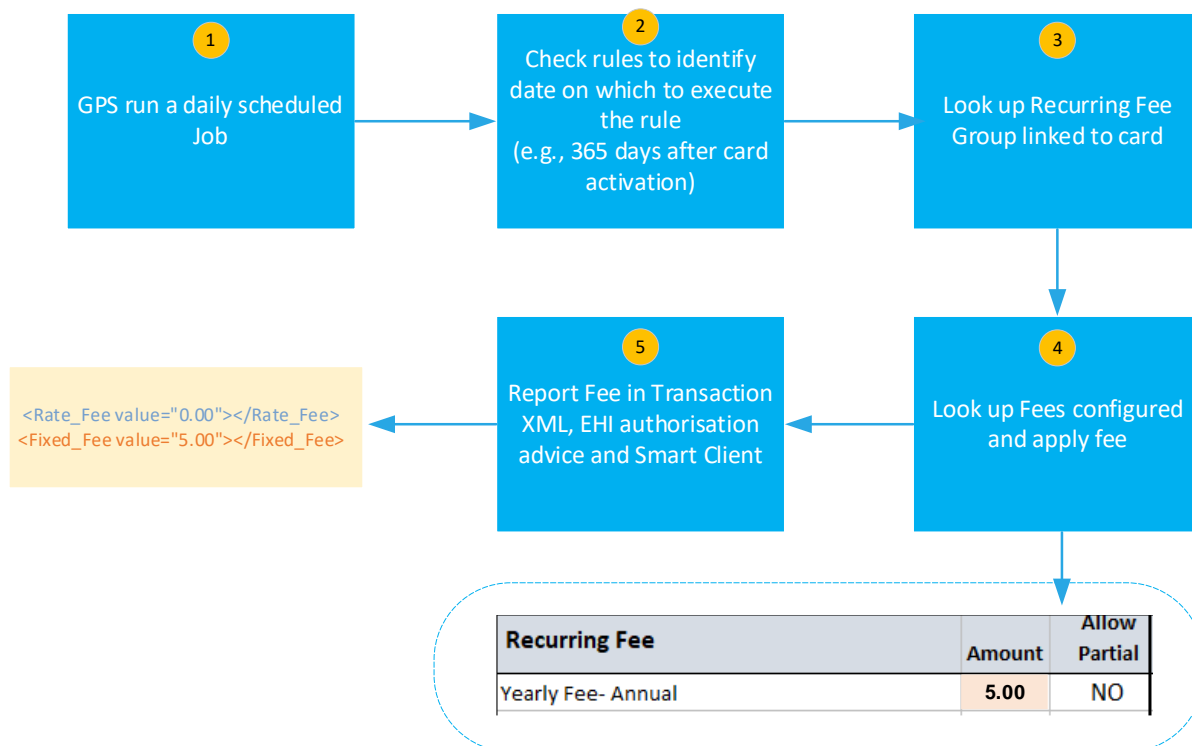


Figure 11: Recurring Fee Processing Flow

For details of how to configure your Recurring Fee groups, see [Recurring Fee Groups](#).

10.4. Rules for Recurring Fees

Refer to the table below for rules around the processing of recurring fees.

10.4.1.Monthly Fees

The following fees can be applied on a monthly basis.

Recurring Fee Name	Trigger	When does the fee start?	When is the fee applied?	How does fee end?
Monthly Fee - Activation	Activation - Monthly Activation Fee (cards activated after 15th of previous month up to 15 of current month, and fee will only take on Last day of current month)	End of current month or end of next month	If the card is activated before 15th of a month then the fee is taken on that month. If the card is activated after 15th of the month, then the fee is taken on the next month.	No balance, Card Expiry
Monthly fee - activation fee taken on 5th	Activation	5th day of every month	When card is activated, 5th day of every month.	No balance, Card Expiry
Monthly fee after load	First load	Day after 1st Load	Day after 1st Load and on same day each month thereafter.	No balance, Card Expiry
Monthly Fee - Following reload	Reload	Day after the reload	Day after the reload and on same day each month thereafter.	No balance, Card Expiry
Monthly service fee	Activation	1st day of month or 5th day of month	When card is activated, fee taken is on 1st day or 5th day of every month.	No balance, Card Expiry
Monthly fee 8th of every month	8th DAY of every month	8th day of every month	8th day of every month.	No balance, Card Expiry
Monthly fee	Last day of current month	Last day of current month	Last day of every month.	No balance, Card Expiry

10.4.2.Annual Fee

The following fee can be applied on an annual basis.

Recurring Fee Name	Trigger	When does the fee start?	When is the fee applied?	How does fee end?
Annual Fee	Annual	Activation	365 days after the card activation.	Every 365 days after activation.

10.4.3.Card Expiry Fee

The following fee can be applied to expired cards.

Recurring Fee Name	Trigger	When does the fee start?	When is the fee applied?	How does fee end?
Card Expiry	Monthly dormancy Fee - After Card Expires	Card Expiry	3 days (It can be configured) after Card Expires.	3 days after Card Expires and on same day each month thereafter.

10.4.4.Dormancy Fees

The following fees can be applied to dormant accounts.

Recurring Fee Name	Trigger	When does the fee start?	When is the recurring fee applied?	How does fee end?
Dormancy fee 2 months	2 months after last transaction	2 months after the date of the last balance changing transaction	On same day each month	When a balance changing transaction occurs (includes loads) No Balance Card Expiry
Dormancy fee 3 months	No transaction in 3 months	3 months after the date of the last balance changing transaction	On same day each month	When a balance changing transaction occurs (includes loads) No Balance Card Expiry
Dormancy fee 6 months	No transaction in 6 months	6 months after the date of the last balance changing transaction	On same day each month	When a balance changing transaction occurs (includes loads) No Balance Card Expiry
Dormancy 12 months	No transaction in 12 months	12 months after the date of the last balance changing transaction	On same day each month	When a balance changing transaction occurs (includes loads) No Balance Card Expiry
Monthly Fee - No transaction in last 90 days	No transactions in last 90 days	90 days after last balance changing transaction	Every 90 days	When a balance changing transaction occurs (includes loads) No Balance Card Expiry
Dormancy 90	No transactions in last 90 days	90 days after last balance changing transaction	Every 90 days	When a balance changing transaction occurs (includes loads) No Balance Card Expiry
Inactivity fee - no transaction in last 90 days	No transactions in last 90 days on inactive card	Issue date = NOT Null; Activation date = NULL No balance changing transactions after 90 days after Issue Date	Every month	Activation date = NOT Null No Balance Card Expiry
No transaction in last 120 days	No transactions in last 120 days	120 days after last balance changing transaction	Every 120 days	When a balance changing transaction occurs (includes loads) No Balance Card Expiry

11. FAQs

This section provides answers to frequently asked questions.

11.1. Fee Setup

Q. Do I need to set up my card fees on the GPS system?

If you are using EHI modes where you maintain a register of the balance on the card for authorisation purposes, we recommend you use your own systems to charge fees to cardholders.

Where GPS manages your transaction authorisation and maintains the card balance ledger, you can use GPS to apply your service fees to the card.

Q. Can I set up default fees to apply to all my cards?

Yes. You can set up default fee groups, to apply to all cards within a card product. When creating a card using the Create Card web service ([Ws_CreateCard](#)), if no fee is specified, then the default fee groups for the card product are used.

Q. How do I set up the fees for a specific card?

When setting up your card program, you must set up your fee groups on your *Product Setup Form*. See [Completing your PSF](#).

When creating a card using the Create Card web service ([Ws_CreateCard](#)), you can specify the fee groups to apply to the card. See [Applying Fees to a Card](#).

Q. Can I set up recurring fees?

Yes. You can apply a recurring account fee, deducted on a repeat basis (e.g., monthly or annually). You can also apply separate recurring fees for dormant accounts (i.e., where the card has not been used for a period). See [Recurring Fee Groups](#).

11.2. Applying Fees

Q. Can I apply a one-off fee?

Yes. You can use the Generic Fees web service [<Ws_Generic_Fees>](#) to apply a one-off fee to the card (for example, to reflect a chargeback cost). See [Applying Fees to a Card](#).

Q. What happens if there are insufficient funds available to apply a fee?

If you have enabled *Partial Fees*, GPS will deduct a part of the fee amount and create a Pending Fee Record. See [Example of a Partial Fee](#).

If you have not enabled *Partial Fees*, the transaction will be declined.

11.3. Fee Maintenance

Q. Can I change the Fee groups linked to a card?

Yes. When creating a card using the Create Card web service ([Ws_CreateCard](#)), you specify the fee groups to apply to the card. You can use the **Change Card Groups** web service ([Ws_Card_Change_Groups](#)) to change one or more of the usage or fee groups for a specific card.

Q. Do you provide a web service to allow me to change the fee settings or amounts?

No. The implementation team manage the fee configuration on the GPS systems. You will need to raise a JIRA request to change the fee settings, including any fee amounts.

You can use the **Change Card Groups** web service ([Ws_Card_Change_Groups](#)) to change one or more of the usage or fee groups for a specific card.

11.4. Viewing Fees

Q. Where are transaction Fee details provided?

Transaction fee details are provided in the daily XML reports, EHI data feeds and on Smart Client. See [Viewing a Card's Transaction Fees](#).

Q. How can I find out how a transaction Fee was calculated?

First identify the type of transaction and the processing code linked to the transaction. Fees triggered by an authorisation or a web service are based on the processing code. The description field for the transaction may provide additional information about the fee. See [Viewing a Card's Transaction Fees](#).

Once you have identified the type of transaction and the processing code, check in your *Product Setup Form (PSF)* for the Fee group linked to that transaction type and processing code.

Example: Transaction type is an authorisation, with processing code: 000000. In your PSF, under the **Authorisation** tab, find the authorisation fee type row listed for 000000. The fees and fee options are listed on this row.

12. Glossary

This section explains terms used in this document.

Term	Description
Chargeback	Where a cardholder disputes a transaction on their account and is unable to resolve directly with the merchant, they can raise a chargeback with their card issuer. The chargeback must be for a legitimate reason, such as goods and services not received, faulty goods, or a fraudulent transaction.
EHI	External Host Interface. This is a GPS product providing clients either a real time feed or the ability to be involved in authorisations.
Fee Group	Groups which control the card transaction authorisation fees, and other fees, such as recurring fees and GPS web service API fees.
Fee Type	A card usage fee type that defines the fees that are applied to a specific type of transaction, such as a debit card payment or an ATM withdrawal. A Fee Group will consist of one or more fee types.
Issuer	The card issuer, typically a financial organisation authorised to issue cards. The issuer has a direct relationship with the relevant card scheme.
Merchant	The shop or store providing a product or service that the cardholder is purchasing. A merchant must have a merchant account, provided by their acquirer, in order to trade. Physical stores use a terminal or card reader to request authorisation for transactions. Online sites provide an online shopping basket and use a payment service provider to process their payments.
PAN	The card's 16-digit permanent account number (PAN) that is typically embossed on a physical card.
Point Of Sale (POS) Terminal	A hardware device for processing card payments at retail stores. The device has embedded software that is used to read the card's magnetic strip data.
Presentment	Stage in a transaction where the funds authorised on a card are captured (deducted from the cardholder's account). See also Clearing. Also referred to as the First presentment. For more information, see the External Host Interface Guide.

Term	Description
Product Setup Form (PSF)	A spreadsheet that provides details of your GPS account setup. The details are used to configure your GPS account.
Program Manager	A GPS customer who manages a card program. The program manager can create branded cards, load funds and provide other card or banking services to their end customers.
Public Token	The GPS 9-digit token is a unique reference for the PAN. This is used between GPS and clients to remove the need for GPS clients to hold actual PANs.
Smart Client	Smart Client is GPS's user interface for managing your account on the GPS Apex system. It is also called Smart Processor GPS. Smart Client is installed as a desktop application and requires a VPN connection to GPS systems in order to be able to access your account.

Document History

Version	Date	Revised by	Description
1.0	24 May 2021	W.Singer	First version