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For the latest technical documentation, see the <u>Developer Portal</u>.

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1 About this Document

This guide explains how to use the GPS Protect portal to help protect your organisation and your cardholders from fraudulent activity. It describes the GPS Protect user interface and explains how to use the system to monitor transactions, raise cases for investigation, configure rules, collect statistics, and run reports.

Target Audience

This guide is aimed at frequent users of GPS Protect.

What's Changed?

To find out what's changed since the previous release (the minor upgrade to v5.1.8 in June 2021), see the Document History section.

1.1 Related Documents

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

Document	Description
Smart Client Guide	How to use Smart Client, which is an administration application that can be used to view and manage cards and transactions in your program.
Cardinal 3D Secure User	Specification and 3D secure configuration rules when using the Cardinal Portal to set up the rules and policies for your program.
GPS Protect Release Notes	Describes the new features and enhancements to existing features available in the latest GPS Protect release.

1.2 How to Use this Guide

If you are new to GPS Protect and want to understand how you can use it to guard against fraudulent activity, begin by reading the following topics: Introduction, Overview of Steps in Using GPS Protect, and Understanding the GPS Protect Display.

If you are an existing user of GPS Protect and want to understand what's changed in this release, see the *GPS Protect Release Notes*.

2 Introduction

This topic introduces GPS Protect, describes its key features, and explains how you can use it in your card payment programmes to help protect your institution and your cardholders from fraudulent transactions.

GPS Protect is a bespoke fraud protection programme designed to guard financial institutions and cardholders from fraudulent activity. The system works in near real-time and is based on transactional data checks and calculations to flag suspicious transactions or events.

Simple to setup and manage, GPS Protect puts you in control of the monitoring, blocking and flagging of live cards, 24 hours a day, 7 days a week. Combined with advice from our team of fraud experts, GPS helps you to configure and control rules designed to protect your card programme.

2.1 How does GPS Protect work?

The following diagram illustrates how GPS Protect works to prevent fraud:



Figure 1: How GPS Protect prevents fraud

Each step is explained in more detail below:

- 1. **Define rules**: GPS works with you to define a bespoke set of rules based on card transactions which can, for example, alert your organisation's fraud team or block cards, and also define configurations beyond that of default parameters.
- 2. **Deploy rules**: All authorisation data from the GPS Apex platform is checked against your organisation's predefined rules and logic to identify patterns of fraudulent card activity in near real time.
- 3. **Alert triggered**: Suspicious activity (as per your organisation's rules) results in an immediate alert with an action, such as block card.
- 4. Action alert: Fraud Analysts/Managers can act manually, or intervention can be automated to block the card.
- 5. **Analyse patterns**: GPS Protect helps to analyse fraud patterns over time (for example, the efficiency of rules such as false positives or confirmed fraud prevention) so your organisation can tailor rules as your programme and cardholder behaviour evolves.

3 Overview of Steps in Using GPS Protect

This topic provides a high-level overview of the steps to help your organisation get up and running with GPS Protect, with pointers to where to find further information.

Step 1 - Access GPS Protect

To access GPS Protect, you use a browser such as Google Chrome or Microsoft Edge. You also require a username and password from GPS to access the system. For more information, see Accessing GPS Protect.

Step 2 - Familiarise yourself with the User Interface

Before you begin, learn how to use the GPS Protect toolbar, menu options and dashboard – see Understanding the GPS Protect Display.

GPS Protect provides powerful transaction monitoring functionality, with the ability to flag suspicious events for further investigation. For more information, see Transaction Monitoring.

What you can see and do in GPS Protect depends on your role and access rights. For more information about user roles and permissions, see User Access Management.

Step 3 - Understand Case Management

GPS Protect allows you to create cases to track suspicious events and transactions requiring further investigation. For more information about using cases to investigate potential fraud, see Managing Cases for Investigation.

Step 4 - Understand GPS Protect Rules

GPS Protect checks all data from the GPS Apex platform against a set of predefined rules and logic to identify patterns of fraudulent card activity. To view the rules through which transaction verification happens, see Using the Rule Manager.

4 Accessing GPS Protect

This topic explains how to access the GPS Protect web-based portal.

4.1 Accessing GPS Protect

GPS will send you an email containing a link (URL) to GPS Protect, together with your user login credentials. Log into GPS Protect using a web browser. Google Chrome, Microsoft Edge or Safari are recommended.

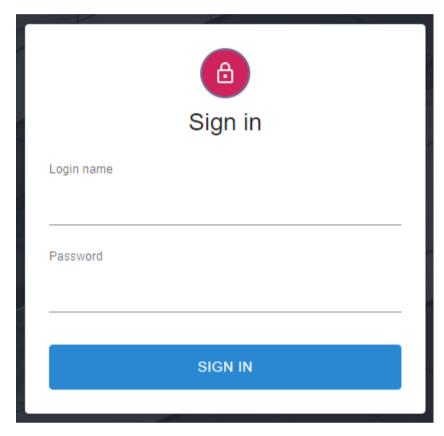


Figure 2: GPS Protect Sign-In Screen

On the Sign in page, enter the username and password received from GPS and click Sign in.

Note: Both the username and password are case sensitive. On the first login, you will be asked to change your password.

Every GPS Protect user must have their own credentials; user credential sharing is not permitted. There is no limit on the number of users in your organisation who can access GPS Protect.

After successful login, the main GPS Protect screen appears (described in the following section).

5 Understanding the GPS Protect Display

This topic describes the main GPS Protect screen and explains how to use the toolbar, menu options and dashboard.

Note: Different levels of user access can be configured on the GPS Protect portal, depending on role. For example, some users may only be able to view information about transactions while others can view transactions, edit rules and run reports. Therefore, if you cannot see a menu option, this may be because you do not have the appropriate permissions. For more information, see User Access Management.

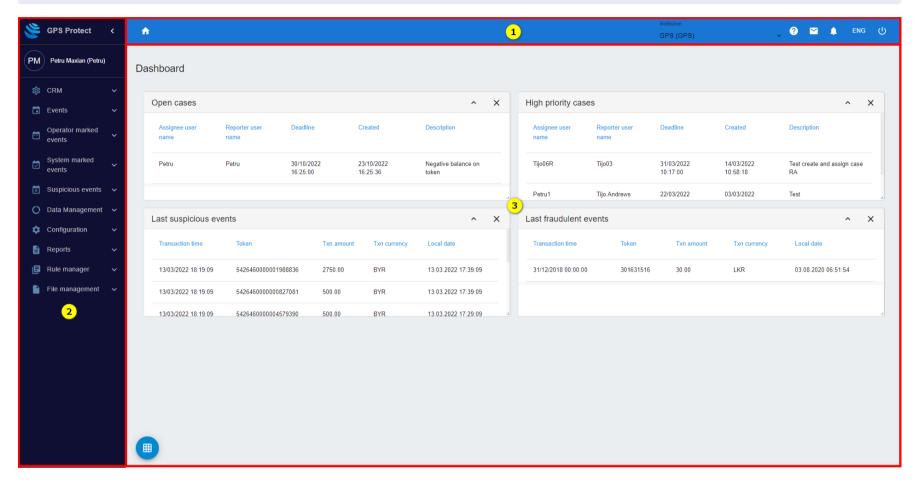


Figure 3: The main GPS Protect screen

The main interface is divided into three main sections:

Key	Command	Description
1	Toolbar	Use the toolbar to navigate quickly to key functions, access help, or sign out. See below for more information.
2	Menus	Use the menus to display user profile details, change the appearance of the screen and access key GPS Protect functions and displays. See below for more information.
3	Dashboard	The dashboard displays various widgets (the elements that appear on screen) showing tables, statistical graphs, cases, events etc. You can tailor your dashboard by choosing the widgets you want to display. See below for more information.

5.1 About the Toolbar

The Toolbar contains several icons you can use to access key screens:

Icon	Command	Description
♠	Home	Click Home in the top-left of the toolbar to return to the dashboard home screen.
	Institution	Click on the institution name to select the default institution
0	Help	Click Help in the top-right of the screen to open the Help interface.
~	Assigned cases	Click Assigned cases to show all the cases currently under investigation.

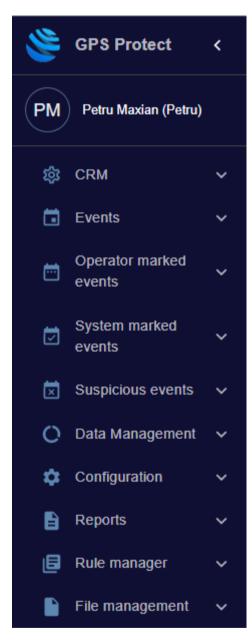
Icon	Command	Description
•	Notifications	Click Notifications to open the System marked Transactions screen to see the latest alerts.
ENG	Language	Click Language to choose from a list of available languages for the interface.
ம	Sign Out	Click Sign Out to exit from GPS Protect.

Tip: Hover your mouse over an icon to view its name.

5.2 About the Menus

The main menu bar on the left-hand-side of the screen enables you to:

- Access your user profile details
- Change the appearance of the display
- · Access key GPS Protect functions and screens



The available menu options are described in more detail below.

About the menu options

On the lower part of the menu bar, you can see all the menu options available to you.

Note: The menu options available to you depend on your role and permissions. If you cannot see a menu option, this may be because you do not have the appropriate permissions. For more information, see User Access Management. If you believe you are missing a menu option or do not have the correct level of access, contact the person responsible for GPS Protect access within your organisation.

See later in this guide for a detailed description of each of the menu options.

Viewing your User Profile

Your user name and initials are shown in the top of the Menu bar.

To view your user profile details, click on your username. The **Profile** screen appears:

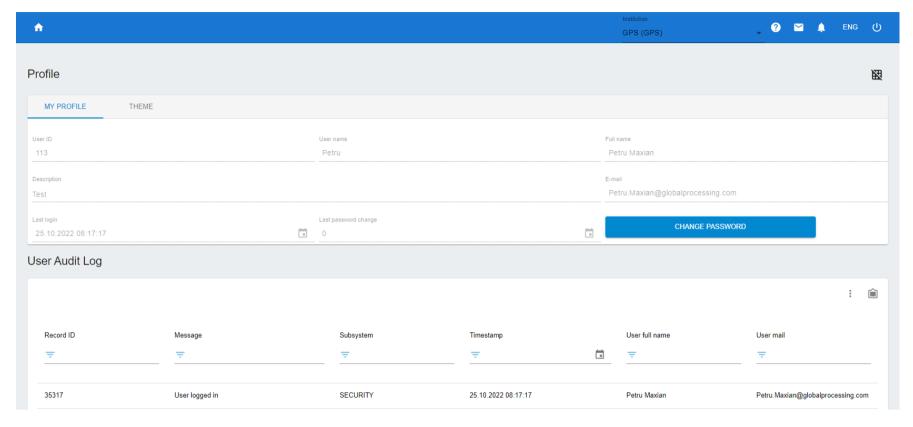


Figure 4: The GPS Protect User Profile screen

This screen has two tabs: **MY PROFILE** (used to view your user details) and **THEME** (used to change the appearance of the screen). These tabs are described below.

MY PROFILE – use this tab to display details related to your profile, such as:

- User ID
- Username
- Full name
- Description (Institution name)
- E-mail (registered email address for the user account)
- Last login (shows the date and time when you last logged into the system)
- Last password change (shows the date and time when you last changed your password)

Also, on the **User Audit Log**, you can see all the logs for any user-related actions such as login times, actions performed while using the system, logout times etc.

Changing or resetting a password

To change your password, click **Change password**. When prompted, enter your current password, your new password twice, and then click **Save password**.

Tip: If you are not currently logged into your GPS Protect account and need to reset your password, use the GPS <u>customer support portal</u> to raise a customer support request, or via email by sending a password reset request to **FraudTeam@globalprocessing.com**.

Changing the display

Use the **THEME** tab to change the appearance of the screen, as shown below:

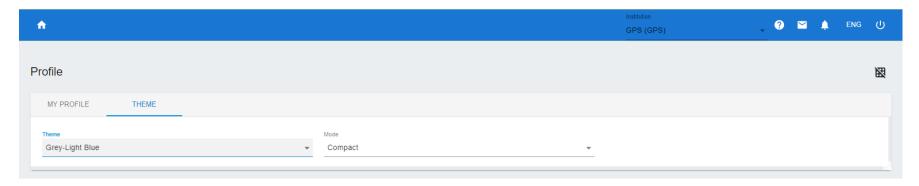
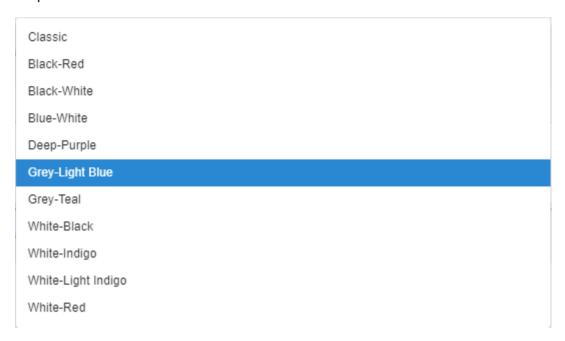


Figure 5: The Theme tab for changing the appearance of the display

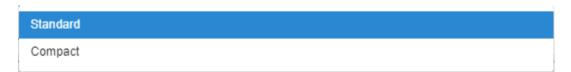
Changing the colour scheme

To change the colour scheme of the display, click on the down arrow vert to **Theme** and choose your preferred option from the dropdown menu:



Changing the size and scale

To change the font size/scale/zoom level of the display, click on the down arrow vert to **Mode** and choose the preferred option from the dropdown menu:



5.3 About the Dashboard

The **Dashboard** consists of UI components known as 'widgets' which you can choose to display or hide, depending on your requirements. For example, you may want to show the **Open cases** widget to see all open unresolved cases.

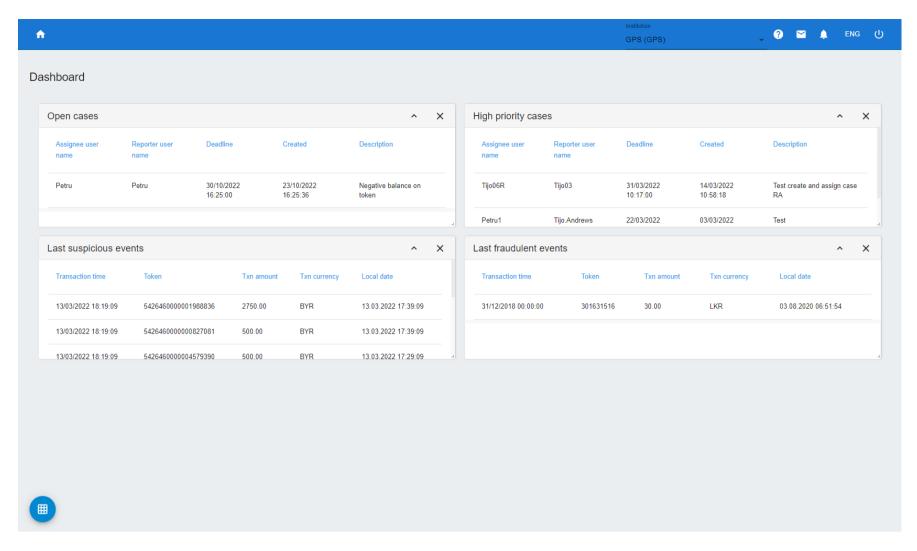


Figure 6: A typical dashboard display

- Open cases shows high-priority investigation cases assigned to a user.
- **High priority cases** shows all open unresolved cases.
- Last suspicious events shows a list of the last events marked as suspicious.
- Last fraudulent events shows a list of the last events marked as fraudulent.

Managing widgets

You can manage widgets using **Add grid** in the lower left corner of the **Dashboard** page. When clicked, the following context-sensitive buttons appear:



The following explains the context-sensitive buttons, clockwise:

Icon	Command	Description	
***	Edit grid	Move and resize widgets. Click Edit grid to turn it red, indicating widget navigation is on. You can now move widgets to the desired location on the Dashboard and resize them. When done, click the Edit grid icon to turn it grey, indicating widget navigation is off and widget cannot be relocated or resized.	
Ī	Expand or collapse all	Expand or collapse widget. Click the icon to turn it red. In this state, you can collapse all the visible widgets on the Dashboard. Click it again to turn it grey, allowing you to expand all the visible widgets.	
+	Show or hide a grid item	Display or hide widgets on the Dashboard. Click the icon to show all the widget options that can be displayed. Select the ones you want to display; uncheck the ones you want to hide. For example: High priority cases Open cases Last suspicious events Last fraudulent events	
C	Reset	Restore all the widgets to their original/default position and size on the Dashboard.	

6 Transaction Monitoring

This section introduces the transaction monitoring screens and explains how to use common functions to customise your display, export information, create custom filters, and display the filters applied to the screen.

6.1 Using the Transaction Functions

All transaction monitoring screens have common functions at the top of the display and page navigation functions at the bottom of the display.

Common Functions

The following common functions are in the top right of the display:

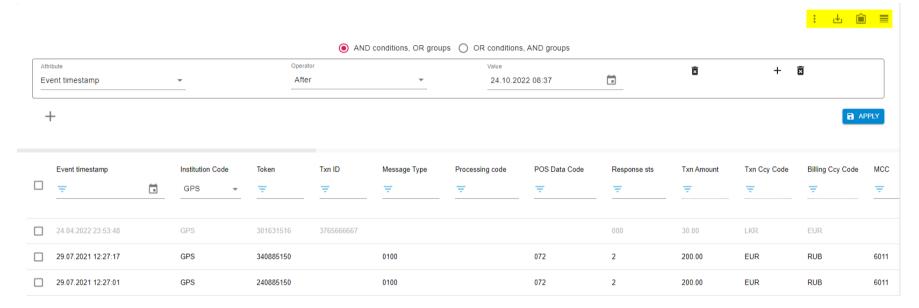


Figure 7: Common functions across the transaction screens. See the following table:

Icon	Command	Description
:	Column customization	Choose which columns/attributes are displayed on-screen. You can tick or untick the necessary columns/attributes and reorder their appearance by dragging and dropping the columns/attributes into the order you prefer.
₩	Export	Enable the export of all displayed on-screen transactions to either a CSV or an XLSX file.
Ê	Custom filter	Save and load frequently used search/data filtering options. Once a certain combination of frequently used filters is present on-screen, you can save this using a meaningful name. After, you can click the same icon to load the saved combination of frequently used filters.
	Filter builder	Display the filters applied to the screen. Using this icon, you can add or remove filters. The default filter for the <i>Event timestamp</i> attribute is mandatory and cannot be removed.

Page Navigation Functions

All transaction monitoring screens allow you to set the number of rows per page displayed on-screen:



Figure 8: Page navigation functions across the transaction screens. See the following table:

You can navigate through the pages either by clicking on the displayed page numbers, or using the page navigation buttons:

Icon	Command	Description
>	Next page	Use to load the next page.
<	Previous page	Use to load the previous page.
>1	Last page	Use to load the last (final) page.
I<	First page	Use to load the first page.

Sorting data

You can sort information in the columns (for example, under **Token**) by hovering on a column header and using the up and down arrows to sort in ascending or descending order.

6.2 About the Context-sensitive Menu

When one or more transactions are selected (by selecting the inline tick box ✓), a context-sensitive menu with icons appears in the top-right corner of the page. The same options appear in a sub-menu when you right-click on a transaction:

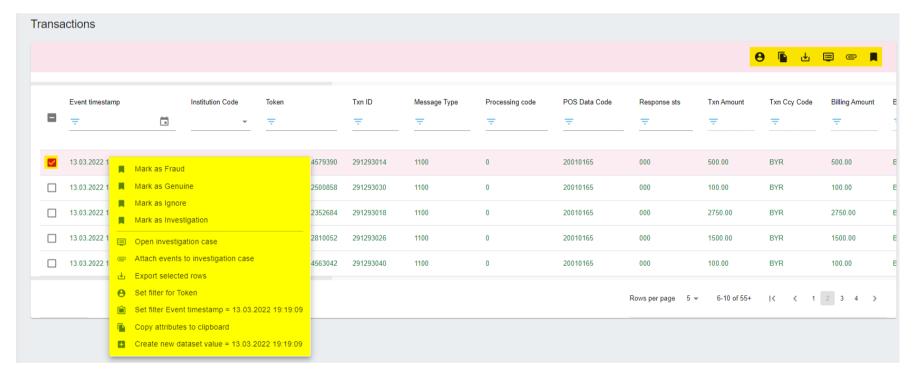


Figure 9: Context-sensitive menu functions in the transaction screens. See the following table:

These functions are explained below:

Icon	Command	Description
	Mark as Fraud	Assign a <i>Fraud</i> status to a transaction.
	Mark as Genuine	Assign a <i>Genuine</i> status to a transaction.
	Mark as Ignore	Assign an <i>Ignore</i> status to a transaction.
	Mark as Investigation	Assign an Investigation status to a transaction.
	Open investigation case	Open a case for the selected event.

Icon	Command	Description
0	Attach events to investigation case	Attach the selected event to an existing case.
	Export selected rows	Export the selected event(s) to a CSV/XLSX format report.
9	Set filter for Token	Set a filter for the selected/related Token number.
Ê	Set filter Event timestamp	Set a filter for the selected/related timestamp.
	Copy attributes to the clipboard	Copy the selected transaction's attributes/values pairs to the clipboard.
+	Create new dataset value	Add the selected value to an existing dataset.

6.3 Filtering the Data

To retrieve transactional data for your institution, click on **Filter builder**, select the date from the default filter and click **Apply** to retrieve the filtered data.

In the following examples, transactions are filtered using:

- Event timestamp after 01.07.2021
- · Merchants for which the Acceptor Country is Ukraine 'UA'
- Acquirer country is Ukraine 'UA'
- Billing amount (in the base currency of the card) is 300

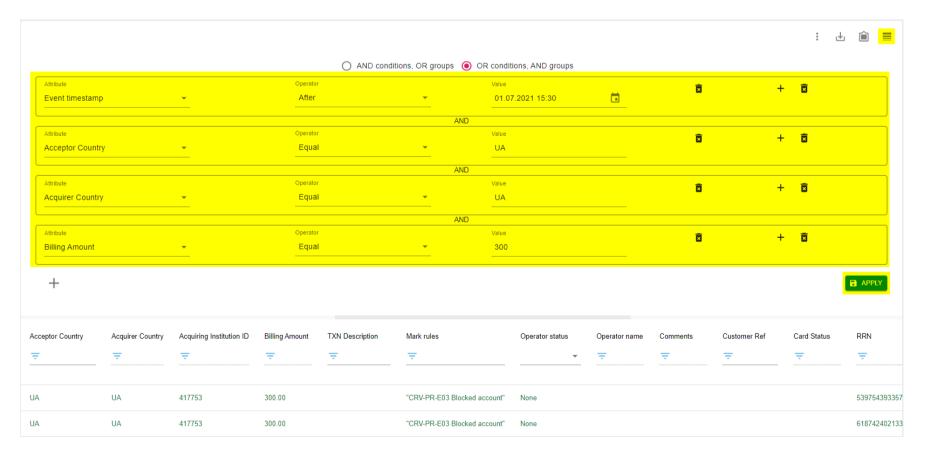


Figure 10: Filtering data in the transaction screens

Further 'on-the-fly' data filtering is possible for some columns/attributes, by inputting a filtering value to the right of the filter list icon (for columns/attributes that display a continuous straight line under the column/attribute header. Note that 'on-the-fly' filtering for columns/attributes that display a dotted line is not available):

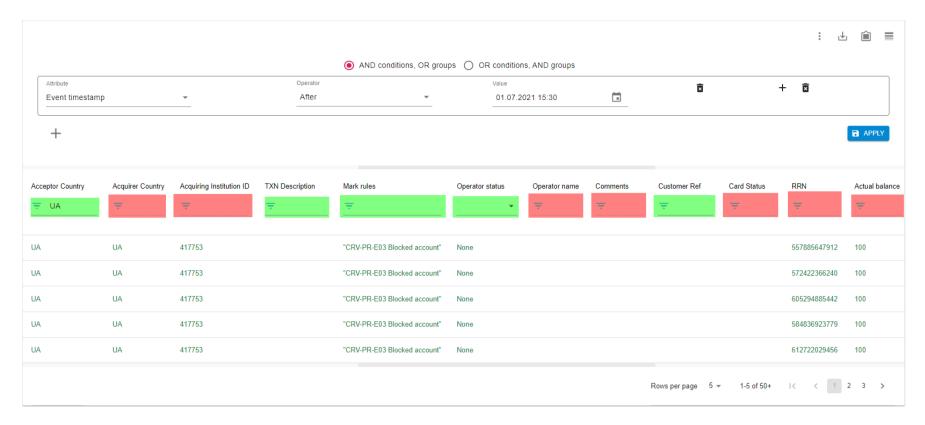


Figure 11: On-the-fly filtering in the transaction screens

6.4 Checking Transaction Details

To check the information available on the system for a particular transaction, click on the transaction to display the details.

The **ATTRIBUTES** tab shows all the transaction-related details that were sent to GPS by the Merchant/Acquirer via the Schemes such as Transaction Amount or Acceptor Country, as well as some GPS proprietary details like the GPS Product ID of the card on which the transaction was performed.

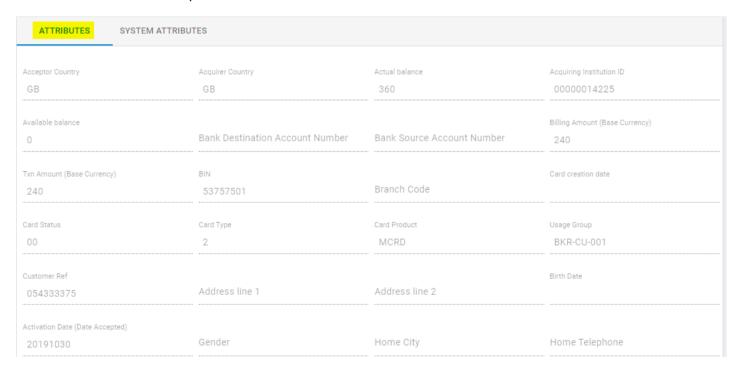


Figure 12: Transaction details

The **SYSTEM ATTRIBUTES** tab shows GPS Protect proprietary details such as the Action (if any) that was performed by the system on this particular transaction, the Institution ID, the Processing Time the system needed to process the transaction, etc.

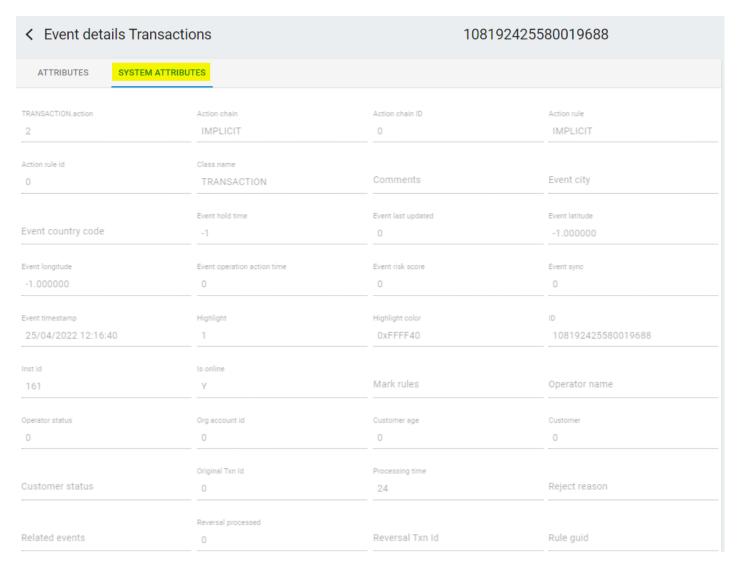


Figure 13: System Attributes details

6.5 Understanding the Monitoring Screens

This topic describes the information shown in the Monitoring Transactions screens and explains how to drill down deeper into the transaction details.

Tip: You can sort information in the columns (for example, under **Token**) by hovering on a column header and using the up and down arrows to sort in ascending or descending order.

Viewing all events/transactions

The **Events** > **Transactions** screen displays in near real-time all the transactions performed on your institution's tokens (this includes all events/transactions, not just the ones marked automatically by the rules, or manually by users).

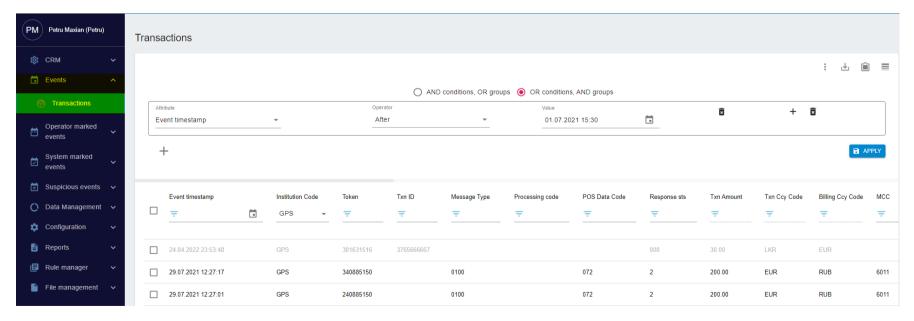


Figure 14: Transactions screen

Viewing system marked events/transactions

The **System marked events > System marked Transactions** screen displays all the transactions marked automatically by the system. For example, if an active rule is triggered that has **Action**: *Highlight* enabled, the highlighted event/transaction appears on this screen because the system has marked the transaction automatically.

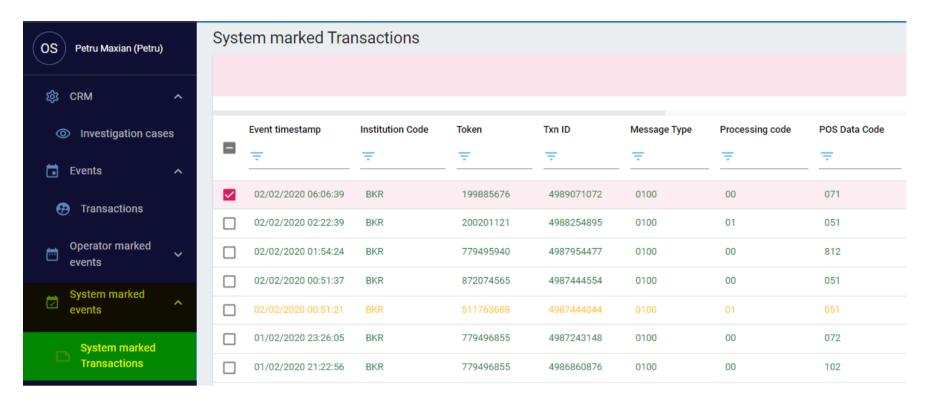


Figure 15: System marked events/System marked Transactions screen

Viewing suspicious events/transactions

The **Suspicious events > Suspicious Transactions** screen displays all the transactions that triggered an existing active rule that has **Action: Marked as suspicious** enabled.

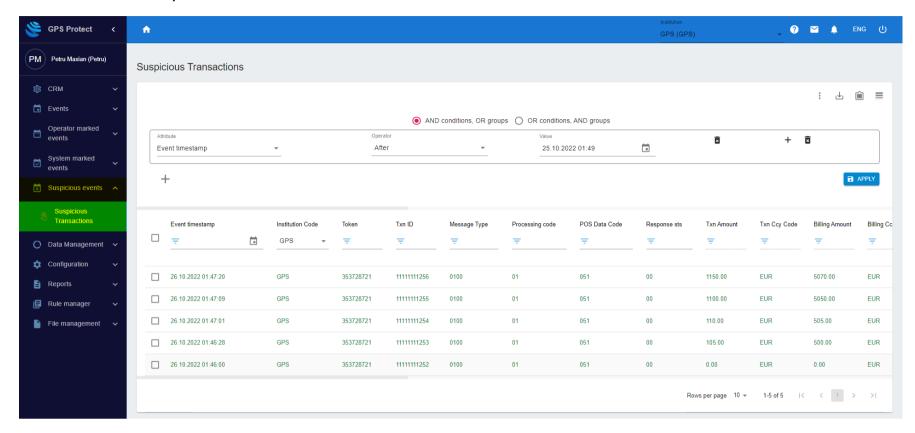


Figure 16: Suspicious events/Suspicious Transactions screen

Because this screen displays all the alerts automatically triggered by the system, GPS Protect users responsible for investigating these alerts will likely spend most of their time using this screen.

Once the investigation of a particular alert is complete, you can mark the alert with a predefined status, as described below.

Viewing operator-marked events/transactions

The **Operator marked events/Transactions** screen displays all the transactions that are manually marked and commented on by a user.

Assigning a status to an alert

You can mark a transaction with one of the following statuses:

- Genuine
- Investigation
- Fraud
- Ignore

To mark a transaction, right-click on the transaction and assign the appropriate status:

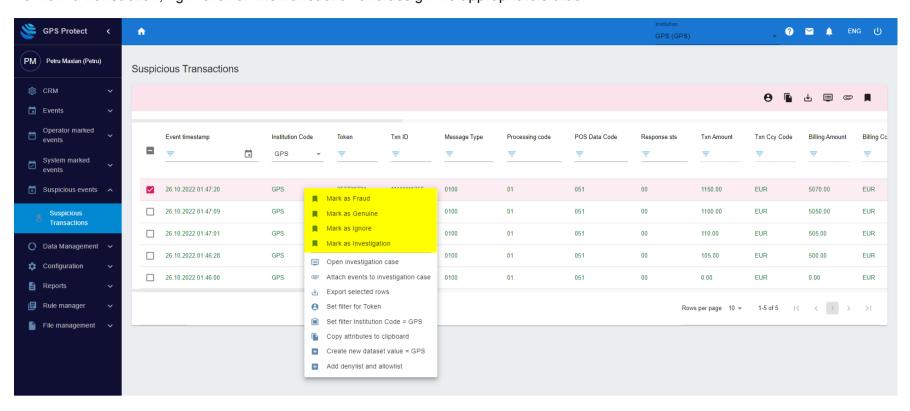


Figure 17: Assigning a status to an alert

By default, new and unmarked transactions are displayed by the system in **Green**. When a transaction is marked, or its default status is changed, the colour of the event/transaction changes, depending on the newly assigned status.

Transaction colour coding

Status	Colour
Default, new and unmarked by users	Green
Genuine	Black
Investigation	Orange
Fraud	Red
Ignore	Grey

When the status changes, the event/transaction is moved from the **Suspicious events > Suspicious Transactions** screen, to the appropriate sub-page of the same name as the newly assigned status (under Operator marked events).

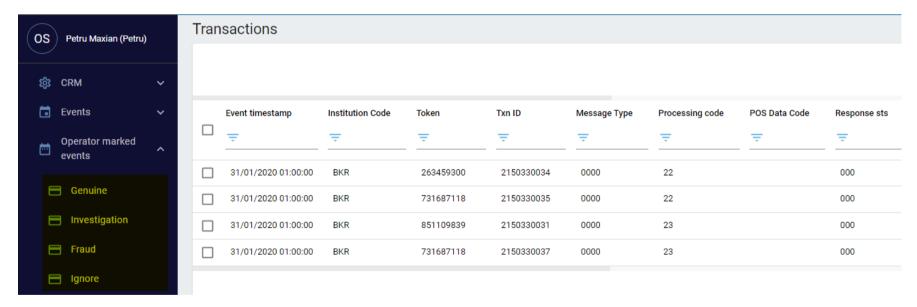


Figure 18: Transactions assigned a status

When you assign a new status to an event/transaction, the alert counter displayed in the top-right corner of the screen also decreases, respectively. This is useful in showing how many alerts remain to be worked.

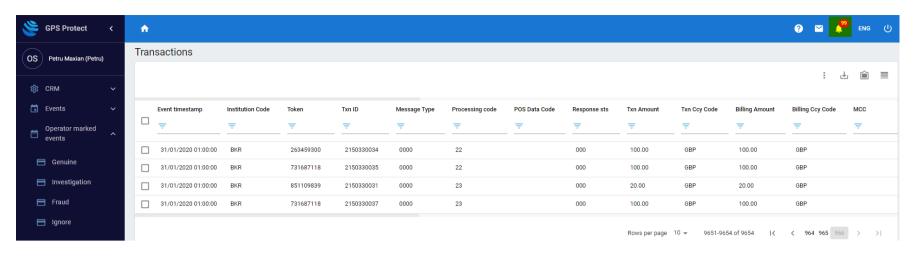


Figure 19: Alert counter

7 Managing Cases for Investigation

This section explains how to open cases that require further investigation, assign these to a user, and set a deadline for completion.

GPS Protect allows the creation and investigation of suspicious events/transaction cases. The case functionality is useful for keeping track of and managing fraud by enabling you to review previous cases and the information attached to these.

A case can have one of five possible statuses:

- New
- Assigned
- Postponed
- Closed
- Deleted

You can open a case if:

- You are unsure if a transaction/set of transactions is fraudulent (and the investigation might require additional actions such as contacting the cardholder)
- Assistance is required from colleagues
- · You need to escalate
- Further action is required on an account (for example, closing the account or raising chargebacks)

Note: Depending on access rights, some functions are available only to users with the correct permissions (for example, the ability to view all open cases and manage cases). See User Access Management for further information.

7.1 Opening a Case

A case can be opened from within any of the event/transaction screens.

To open a case:

1. Select the appropriate events or transactions you want to include and click on Open investigation case in the right-click menu or the context-sensitive button in the top-right corner of the screen. The Main details screen appears.

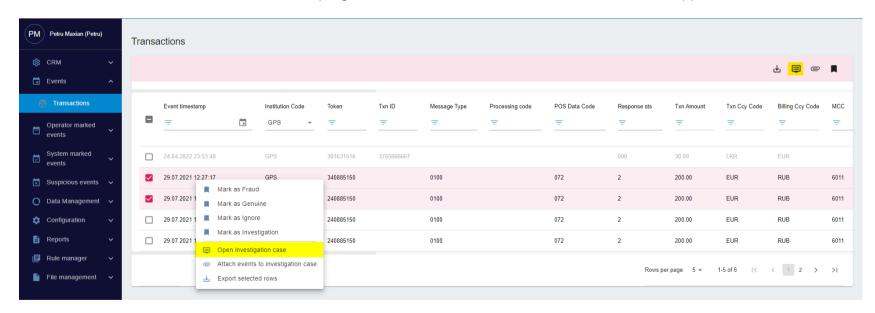
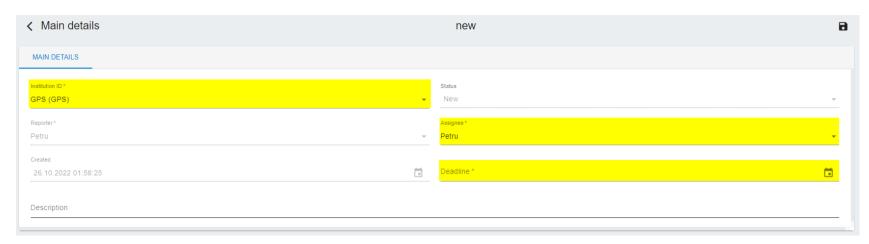


Figure 20: Opening a case for investigation

2. Complete mandatory fields such as Institution ID, Assignee and Deadline.



The following table describes the required fields:

Field name	Description	Field type
Institution ID	The institution the case is opened for	Mandatory
Status	" during the case opening process	Prepopulated
Reporter	The user opening the case	Prepopulated
Assignee	The user the case is assigned to	Mandatory
Created	Prepopulated with the system time when the case is opened	Prepopulated
Deadline	Date when investigation of the case must be completed	Mandatory
Description	Additional comments.	Optional
	Tip! GPS recommends you provide a description of why the case was created	

Once a case deadline is reached, GPS Protect sends an email notification to the Assignee of the case to remind them that a case remains unresolved.

After completing the opening of the case, all transactions included within the case will have their status set to Investigation automatically. If the case status is changed to Fraud or Genuine, all transactions from the case are automatically marked to match the case status of the parent.

If one or more transactions need to be marked differently from others in a case, you can change their status manually after the case is closed.

7.2 Managing Cases

This section explains how to view and manage the investigation cases you have access to. Using the options available, you can assign a case to a different user, edit the details of a case, or postpone, reopen, close or delete a case. You can also display all the events or transactions related to a case, the audit log, and comments.

To display investigation cases:

- 1. On the main menu's navigation pane, go to CRM > Investigation cases.
- 2. Select a case record. The **Main details** page appears where you can edit the investigation case using the options displayed in the top-right corner:

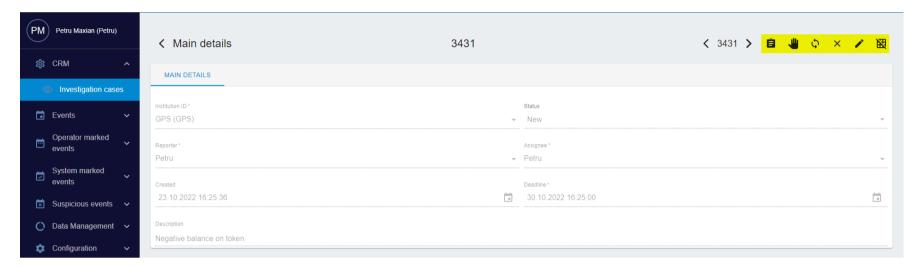


Figure 21: Options available for managing cases. See the following table:

These options are:

Icon	Command	Description
Ê	Assign	Assign the case to a different user or update the case deadline.
4	Postpone	Postpone investigation of the case.
\$	Reopen	Open a previously closed case.
×	Close	Close a case once a resolution has been reached.
♪	Edit	Update case details.
図	Edit layout	Change the layout of case details on-screen.

Tip: Hover your mouse over an icon to view its name.

Use the following additional options at the bottom of the **Main details** page to display events or transactions related to a case, the audit log, and comments:

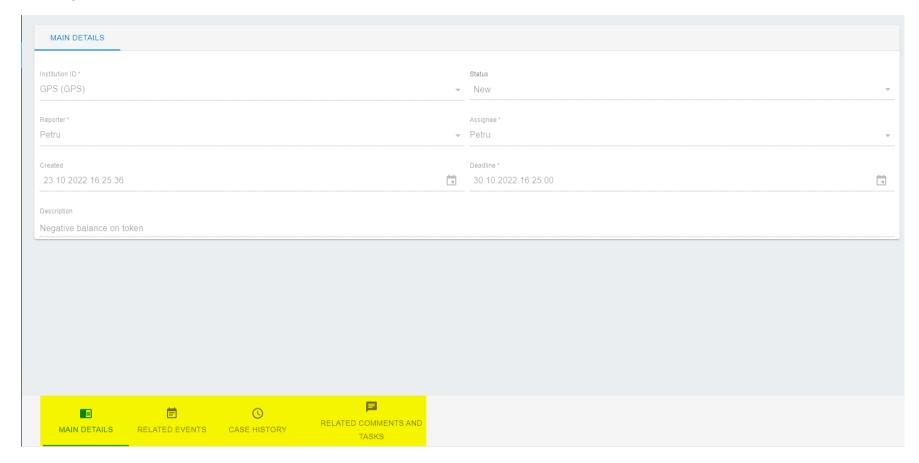


Figure 22: Additional options available for managing cases. See the following table:

Icon	Command	Description
	RELATED EVENTS	Display all the events/transactions that are part of the investigation case.
O	CASE HISTORY	Display the case history audit log.
F	RELATED COMMENTS AND TASKS	Display all the comments added during the case investigation process.

8 Using the Rule Manager

This topic describes the use of rules to guard against fraudulent activity.

All data from the GPS Apex platform is checked against a set of predefined rules and logic designed to identify patterns of fraudulent card activity. Any suspicious transactions or events trigger an immediate alert along with an action, such as the blocking of a card.

The rules are the conditions (described as logical expressions) through which transaction verification happens. Rules are tailored to your particular institution.

8.1 Viewing Rules

To see a list of current rules:

1. On the main menu's navigation pane, go to **Rule manager > Rule manager**.

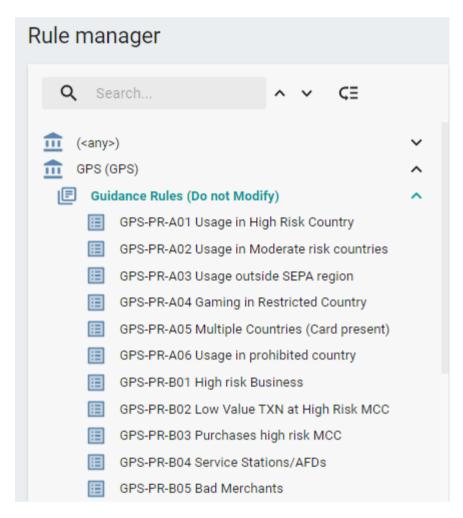


Figure 23: Rule Manager

2. Click on a rule to display more information about it in the right-hand pane:

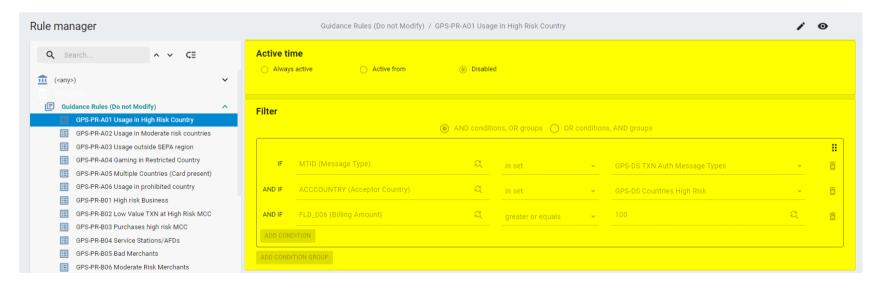


Figure 24: Displaying rule details

8.2 Understanding Rule Conditions and Groups

A rule condition (also called a filter) is a logical expression used by GPS Protect to determine whether transactions meet the eligibility criteria for triggering an action such as an alert or blocking a card.

You define a rule condition by specifying the left and right part of the expression and a chosen operator in the middle. Typically, the left part of the expression specifies transactional attributes such as Acceptor Country, MCC (Merchant Category Code), etc. The right part usually contains values such as constants or lists of values (known as datasets – see Using Datasets).

The rule condition is evaluated using the chosen operator in the middle of the expression. Depending on what operator is selected, GPS Protect checks whether the selected attribute on the left of the expression (e.g. Acceptor Country of incoming transactions) "equals", "not equals", is "in set" (is part of a list/a dataset), is "not in set" (is not part of a certain list/dataset), etc. as per the right side of the condition.

Example rule condition

To define a condition that filters transactions over 100 in value, specify:

- · on the left-hand side, the attribute Billing Amount
- on the right-hand side, the value '100'
- in the middle, the operator "greater than"

If Billing amount greater than 100

This ensures that only incoming transactions over the value of 100 satisfy the condition.

For information about configuring the action that will result when the conditions of the rule are met, see About Rule Actions.

About condition groups

A rule can have one or more conditions. When using multiple conditions, you can form one or multiple *groups of conditions*. For a rule to trigger an action, all the logical expressions/conditions must be satisfied. For example, if a rule has three conditions but only two are satisfied when evaluating an incoming transaction, the rule will not trigger an action.

You can group the conditions associated with rules using AND and OR operators.

You can choose from two options at the top of the **Filter** pane:

 AND conditions, OR groups – between groups of conditions the logical operator OR is applied, but the AND operator is applied between conditions within each conditions group

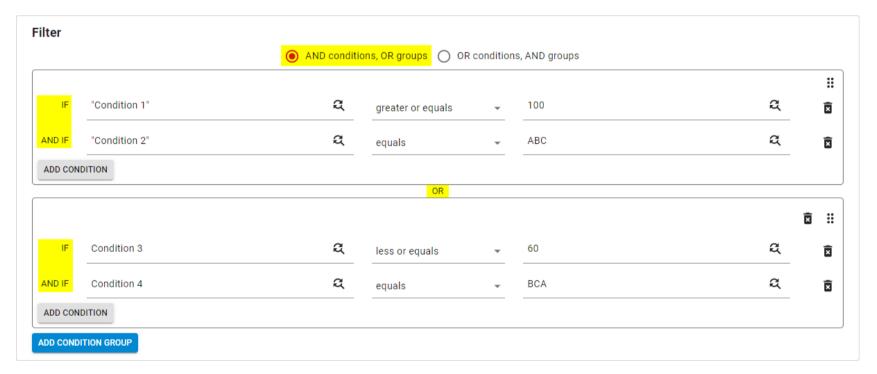


Figure 25: Example showing AND conditions, OR groups

• OR conditions, AND groups – between groups of conditions the logical operator AND is applied, but the OR operator is applied between conditions within each condition group

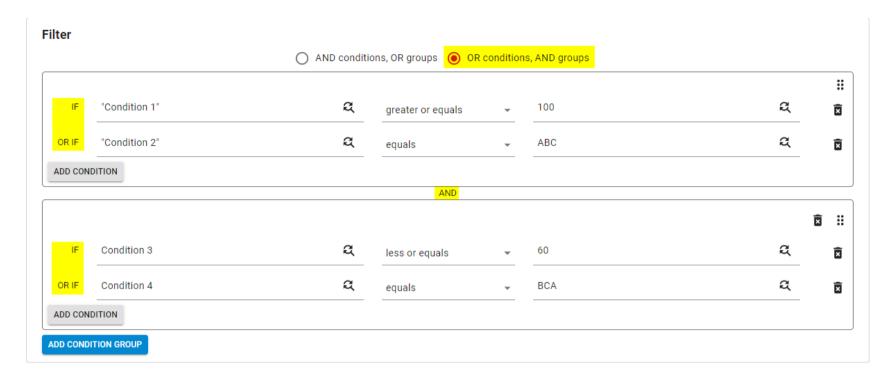


Figure 26: Example showing OR conditions, AND groups

There are no system limitations to the number of groups you can have within a rule. However, GPS recommends you check the performance of each rule regularly.

8.3 Configuring Rules

This section explains how to add a new group of conditions, delete a group and/or conditions, and edit rule conditions.

Note: Only managers with the appropriate access rights can modify rules, groups and conditions. See User Access Management for further information.

Adding a new group of conditions

To add a new group of conditions:

- 1. Click Add Condition Group. The new condition group is displayed.
- 2. To add a condition within the group, click **Add Condition**. By default, a new empty condition is displayed.

Deleting a group and/or condition

To delete a new group of conditions:

1. Click Delete in the right of the Filter pane associated with the appropriate group or condition.

Updating a rule

Changes to existing conditions of rules can be initiated only by managers with the appropriate access rights. To edit a rule:

- 1. Click Edit in the top right of the screen.
- 2. Apply your edits and click Save.

Note: Any changes made to rules appear as change requests on the GPS side. After the change request is captured on GPS JIRA, GPS checks to ensure the requirements of the change match the actual configuration change before publishing the modifications in the production environment.

8.4 About Rule Actions

A rule action is a trigger which is executed immediately after all the conditions of the rule are met. A rule can have a single rule action or multiple rule actions configured. All rule actions are executed in sequential order, as they appear in the **Action** pane. The order can be changed.

The most commonly used rule actions are:

Mark as suspicious: This action marks the event as suspicious and displays it on the Suspicious Transaction Log screen.
 This is the default action configured for all rules.



Figure 27: Mark as suspicious rule action

Events marked as suspicious by the GPS Protect rules are displayed on the **System marked events/System marked Transactions** page in **green**, until the event is reviewed and the status is changed by a user. After a new status is assigned to an event/transaction by a user, the transaction is moved and displayed on the **Operator marked events** pages, depending on the status:

- Operator marked events > Genuine
- Operator marked events > Investigation
- Operator marked events > Fraud
- Operator marked events > Ignore
 Transaction colour coding.
- Highlight: This action highlights an event on the user interface:

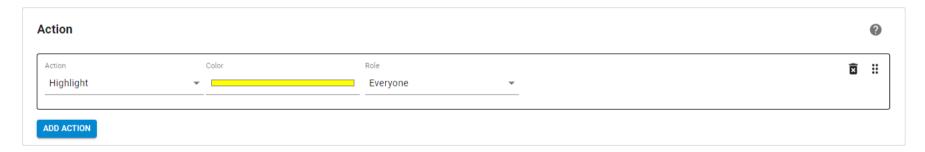


Figure 28: Highlight rule action

You can select the colour of the highlighter from a full RGB pallet. The following example shows the difference between a highlighted and a non-highlighted event (the difference between the highlighted action being triggered or not):

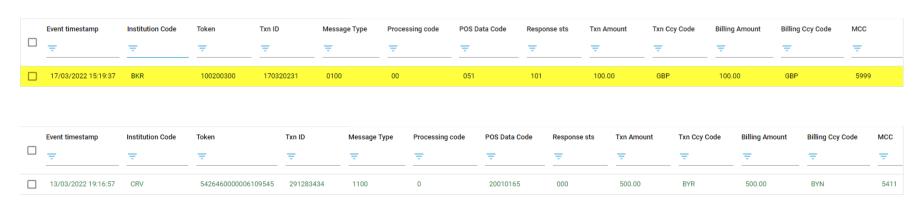


Figure 29: Example of a highlighted event

Notify (E-Mail): This action sends an email notification to selected recipients. You can configure the subject of the email and the message text and include any text and/or event attributes as shown below:



Figure 30: Configuring a notify action

Below is an example of an email alert received from GPS Protect when the Notify (E-Mail) action is triggered:

GPS-PR-C03 Large Cash Withdrawal



Figure 31: Example of an email notification from GPS Protect

Call web service: This action blocks a card by changing its status to 05 (Do not honor), 63 (Security Violation) or GPS specific G5-G8 card statuses. This prevents any further successful transactions on the card.

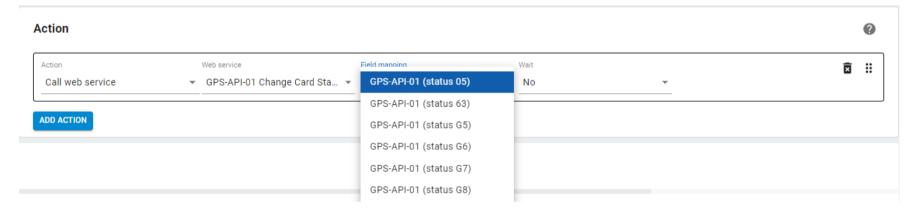


Figure 32: Configuring a Call web service action

- Add to rule allowlist: This action adds an attribute to a rule's allowlist for a specific time period. In the example below, the
 Attribute Token will be allowed (in other words, excluded from the rule triggering) for a period of 60 seconds, as defined in the
 Expiration time (seconds) field.
- Add to dataset: This action adds an attribute to an existing dataset for a specific time period. In the example below, the Value
 of the attribute "Card Acceptor Terminal ID" will be added to any selected dataset for a period of 60 seconds, as defined in the
 Expiration time (seconds) field.

8.5 Creating an Allowlist for Specific Rules

For each rule, a list of exceptions can be defined for any transaction attributes. Transactions that contain the value defined in the exception list will be ignored by the rule. The allowlist is defined by the transaction attribute value and the **Expiration date and time** of the allowed attribute/record.

To add an attribute to a specific rule's allowlist:

1. Click on Add new item on the Allowlist pane. The input form appears. The number of records that can be added to the rule allowlist is unlimited.

Optionally, to delete a record from the list, select it in the list and click **Delete items**.

2. After making your changes, click Save. The allowlist is saved together with the rule. When the selected expiration date and time is reached, the card (or any other selected attribute for allowlisting) is automatically removed from the allowlist.

*While every endeavour will be employed to check the rule operates successfully, GPS cannot and does not take responsibility for any losses incurred as a result of incorrectly configured rules (rules configured with erroneous parameters) or rules not operating as expected.

Notes

- In some scenarios, a rule may be triggered although transactions are genuine
- To stop a rule from triggering, you can add a cardholder to the allowlist. The rule will then be ignored
- Only managers with the appropriate access rights can make changes to the rules and allowlists (see User Access Management for all available user access types)
- Over 50 different elements can be allowlisted. The most common ones are: Token, MCC, and Country
- You can only add or modify rules that belong to your institution
- You can make changes to rules under your institution. GPS will review* the changes before publishing them in the Production environment
- If you're unsure how to build a rule for a specific scenario, use GPS <u>customer support portal</u> to raise a customer support request.

9 Using Datasets

This topic describes datasets and explains how to use them in GPS Protect rules. It describes how to create a new dataset or update the values in an existing dataset.

A dataset is a list/collection of data points or values that GPS Protect can use to check against the attributes of incoming events/transactions. A data set can be used multiple times in different rules. For example, consider the following scenario:

Use case scenario: dataset of high-risk countries

You want to create a rule in GPS Protect that will check all transactions performed in countries deemed to be high-risk. As part of this, you create a dataset containing a list of ISO-2 values for these high-risk countries and use this dataset in the rule. The system will check the ISO-2 values in the dataset against the attribute *Acceptor Country* for incoming events/transactions.

Tip: For a list of ISO country codes, see: ISO - ISO 3166 - Country Codes.

9.1 Creating a Dataset

To create a new dataset:

1. Go to Data Management > Datasets and click on + Add new item on the bottom-left of the screen.

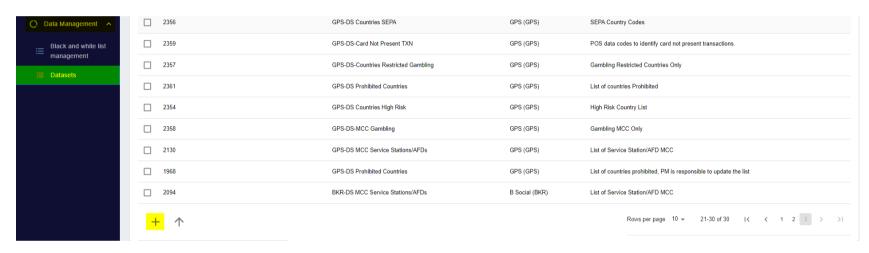


Figure 33: Creating a dataset

- 2. In Dataset details, enter the Institution ID, Dataset name and Dataset description.
- 3. To complete the dataset creation process, click Save in the top-right corner of the screen.

9.2 Updating an Existing Dataset

This topic explains how to edit and delete values in an existing dataset, including how to import values into a dataset. To edit an existing dataset:

1. Go to **Data Management > Datasets** and select the dataset you want to edit. The existing values are displayed:

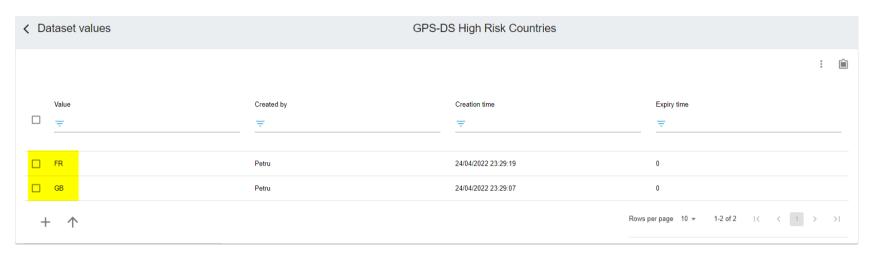


Figure 34: Editing an existing dataset

- 2. To **add values** to a dataset, click on + Add new item at the bottom of the pane (dataset values can also be imported by clicking on Import):
- 3. Input the new Value (and, optionally, an Expiry time for the new value) and click Save in the top-right corner to complete the process:
- 4. To edit or delete values from a dataset, select the values and either right-click and choose an action or click on Edit item or Delete items:

Notes:

- Note: You can add new Countries, MCCs, Tokens or other types of data codes so these can be used by the rules you have set up for your institution
- Note: Only managers with the appropriate access rights can make changes to datasets (see User Access Management for all available user access types)

10 Configuring Statistical Parameters

This section explains how to display and configure the statistical parameters used by GPS Protect.

GPS Protect helps to analyse fraud patterns over time so that you can tailor rules as your programme and cardholder behaviour evolves. As part of this, GPS Protect collects statistical data about transactions for specific time periods, as defined by certain parameters. GPS Protect then uses the values calculated from this data in the logic building of rules.

Note: You can only add or modify statistics belonging to your institution so they can be used by the rules you have set-up. All user types can view statistical parameters but only managers with appropriate access rights can make changes to them (see User Access Management for a list of available user access types).

10.1 Displaying Statistical Parameters

To view statistical parameters:

Navigate to **Configuration** > **Statistics manager**. All existing statistical parameters are displayed for the institution(s) you have access to.

10.2 Creating Statistical Parameters

1. To create a new statistical parameter, click + Add new item on the bottom-left of the screen.

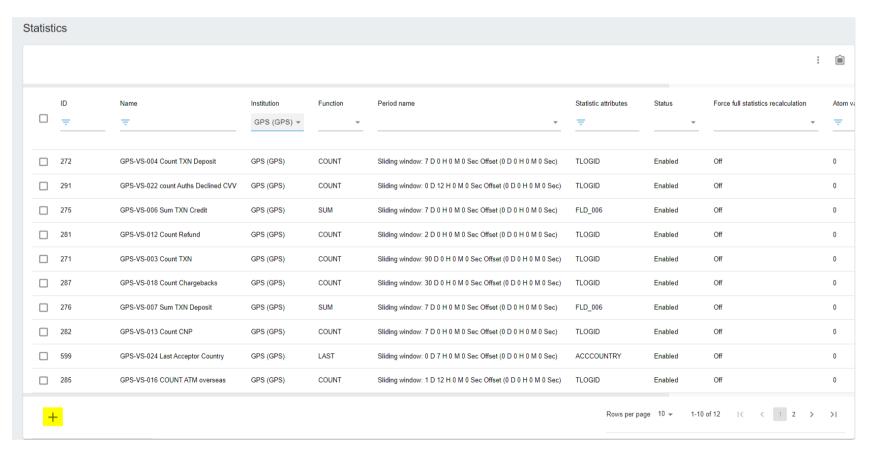


Figure 35: Creating a new statistical parameter

- 2. Enter a Name for the parameter.
- 3. Choose the **Institution** the parameter should be bound to.
- 4. In Function, select the main function of the parameter:
 - SUM sum. For example, Billing Amount on a Card (total spent) for the last X days/weeks.
 - AVERAGE average value. For example, Billing Amount on a Card (average per transaction) for the last X days/months
 etc.
 - COUNT quantity of transactions on a Card (velocity) for the last X hour/days etc.
 - MIN minimal value. For example, Billing Amount on a Card (highest ticket) for the last X weeks/months etc.
 - MAX maximum value. For example, Billing Amount on a Card (highest ticket) for the last X days/months etc.

- LAST last value. For example, Acceptor Country where a transaction took place
- DESCENDING descending values.
- SAMEVAL identical value.
- **DISTINCT** distinct value.
- 5. Select the **Statistic** and **Instance attributes**.
- 6. Select the **Period** of time the parameter will use in its calculations.

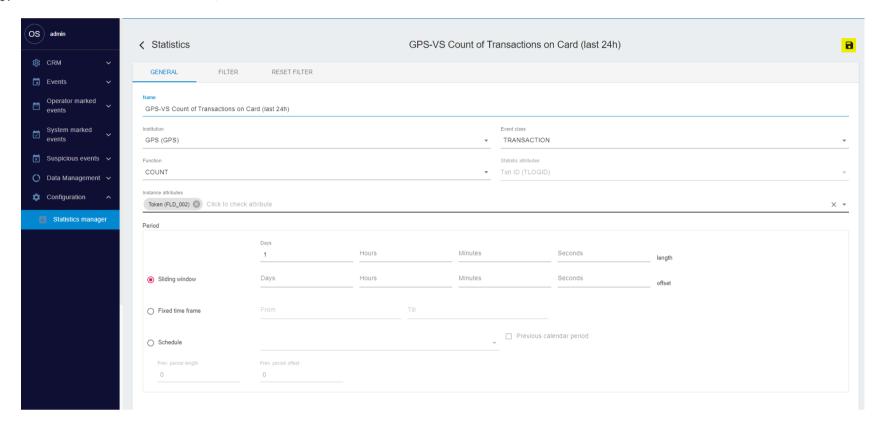


Figure 36: Configuring a statistical parameter

7. To complete parameter creation, click Save (top-right corner).

10.3 Updating Statistical Parameters

This section explains how to edit and delete statistical parameters.

1. To edit a statistical parameter, select it and either right-click and choose the option or click Edit statistics item:



Figure 37: Editing a statistical parameter

2. To **delete** a statistical parameter, select it and either right-click and choose the option or click **Delete items**:



Figure 38: Deleting a statistical parameter

11 Generating Reports

This section provides details about the reports available in GPS Protect and explains how to generate a report and view its results.

Note: Only managers with the appropriate access rights can view and generate reports (see User Access Management for more information).

Assigning a status to an alert.

11.1 Displaying Available Reports

To see a list of the reports available in GPS Protect:

1. On the main menu, go to **Reports > Reports list**.

The Reports screen appears showing a list of available reports.

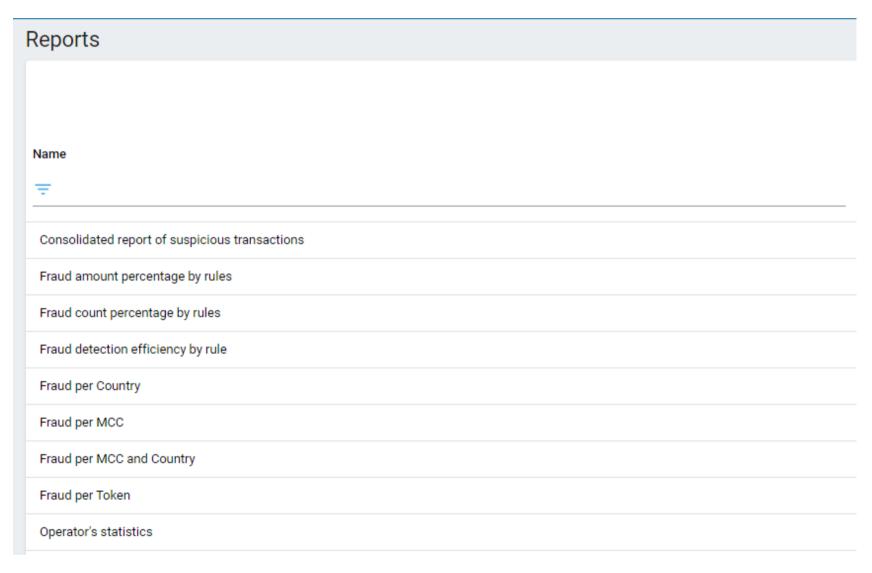


Figure 39: List of available reports

11.2 Running a Report

1. Click on a report to display information about its parameters and execution results. For example, the **Consolidated report of suspicious transactions**:

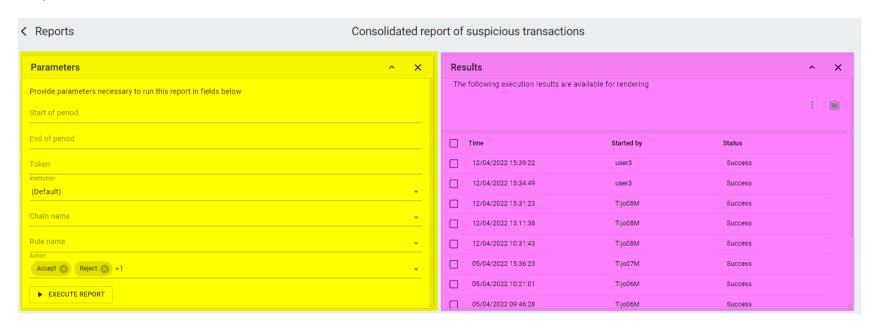


Figure 40: Report parameters and results

- 2. In **Parameters**, specify any required fields and filters, such as the reporting period (maximum 90 days between "Start of period" and "End of period"). Note that the report parameters change depending on the report you selected.
- 3. To execute the report, click on **Execute Report** on the bottom-left. The report runs and the results appear in the **Results** pane on the right-hand side.

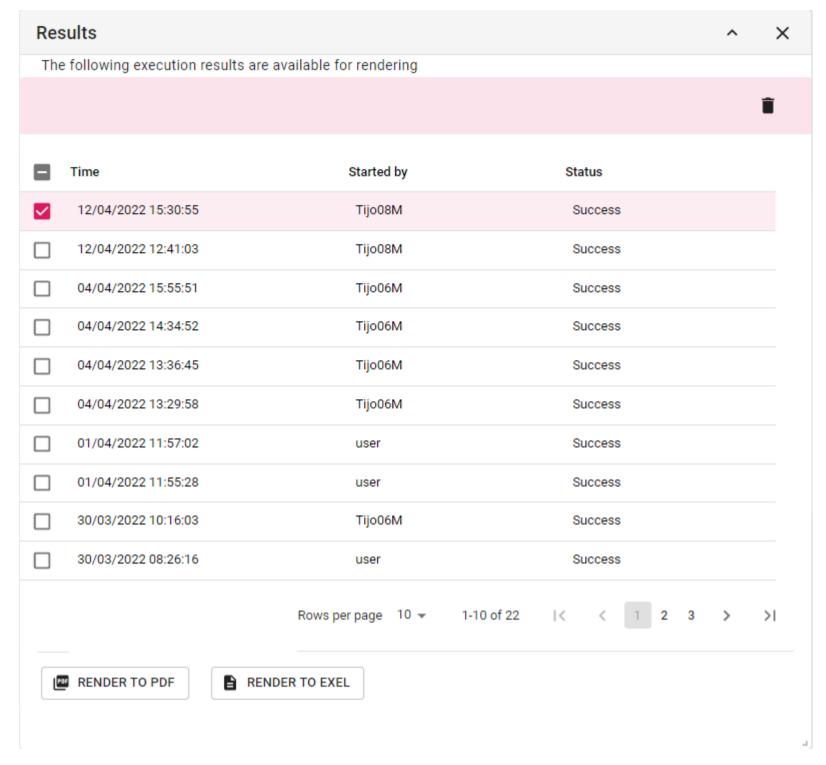


Figure 41: Report results

Note: Reports that contains a large amount of data may take a long time to generate.

Saving a Report

You can save the results of a report locally in either Adobe PDF or Microsoft Excel file format.

1. To save a report, select the report in the *Results* pane and click on **Render to PDF** or **Render to EXCEL** depending on the format you want.

The system saves the report to your local drive where you can open it.

Scheduling a Report

Reports can be generated on a scheduled basis. For example, you might choose to schedule the *Consolidated report of suspicious transactions* to run on the first day of every month, and send an email notification to a group of recipients.

To schedule a report:

- 1. In the Schedule pane, click on + Add new item.
- 2. In the General tab, specify the report execution frequency. Choose from Once, Daily, Weekly or Monthly.
- 3. To receive an email notification about successfully completed scheduled report generations, select **Send notification on job completion**, and provide one or more email addresses. To specify that the report should be sent as an attachment, select **Attach rendered report to notification e-mail as**, and specify either **PDF** or **XLS** format.

Note: there is a 25Mb file size limit, in line with many email systems. GENERAL Provide parameters necessary to run this report in fields below month year 01 → January ▼ 2022 End of period month year 31 ▼ 2022 Token GPS (GPS) Chain name Rule name Accept
Reject
+1 clickToCheck $\bigcirc \ \, \mathsf{Once} \ \, \bigcirc \ \, \mathsf{Daily} \ \, \bigcirc \ \, \mathsf{Weekly} \ \, \bigcirc \ \, \mathsf{Monthly}$ Send notification on job completion Recipients ADD RECIPIENT example@mydomain.com Attach rendered report to notification e-mail as PDF
 XLS

Figure 42: Send a notification

<u>GPS.Protect@globalprocessing.com</u> to the registered email address(es). Ensure you add this email address to your email system's 'allowed list' so that notifications do not end up in your Spam folder.

12 User Access Management

This topic describes user access to GPS Protect and how to raise a request for access or to change permissions.

Different levels of user access can be configured on the GPS Protect portal, depending on role. For example, some users may only be able to view information about transactions and rules while others can view transactions, edit rules and run reports.

In GPS Protect, there are three *Default User Access Types* based on role:

- Manager
- Analyst
- · View Only

The following table shows the *Default User Access Types* with additional access permissions highlighted in green:

GPS Protect Default User Access Types View Only Risk Analyst Manager Report Manager Report Manager Report Manager Report Manager Report Scheduler **Transactions Transactions** Transactions **View all Transactions View all Transactions View all Transactions View all Suspicious Transactions View all Suspicious Transactions View all Suspicious Transactions** View all Operator marked events View all Operator marked events View all Operator marked events View all System marked events View all System marked events View all System marked events Export data to CSV Export data to CSV Export data to CSV Review/Mark Transaction Review/Mark Transactions File management File management File management Access to all files Access to all files Access to all files Denylist and allowlist management Denylist and allowlist management Denylist and allowlist management View all records View all records Add/delete/edit records Rules Rules Rules View rules View rules View rules **Edit Rules Edit Datasets Edit Statitical Parameters** Cases Cases Cases Open/Manage Cases Open/Manage Cases

Figure 43: GPS Protect Default User Access Types

12.1 Requesting Changes to User Access

GPS Protect user management is carried out by GPS. To create a new user or request a change to permissions, the person responsible for user access permissions in your organisation needs to use the GPS <u>customer support portal</u> to raise a customer support request.

For a user creation request, the person responsible for user access permissions in your organisation needs to provide the following information to GPS:

- First name
- Surname
- Email address
- Required Access Type: Manager / Risk Analyst / View only

Note: An institution can have a maximum of two Managers and an unlimited number of Analysts and View Only access type accounts.

Appendix A – Common Codes

This section describes codes commonly used in the GPS Protect system.

Tip: For a full list of all codes, see the **Smart Client Guide**.

Message type (MTID)

- 0100 = Authorisation
- 1240 = Presentment

Processing code (Txn code)

Status	Description
00	Debits (goods and services)
01	Debits (for ATM withdrawals or for cash disbursements)
02	Adjustment credits
09	Debits (goods with cash back)
11	Visa quasi-cash (POS) transactions
12	Cash disbursement
16	Payment Out
17	Debits (for cash advance)
18	Unique Transaction (requiers unique MCC)
19	Adjustment debits (goods and services with cash back)
20	Credits for refund
21	Credits (for deposit
22	Credits - Card load
23	Credits - Card unload
28	Credits (for Payment Transaction)
59	Blocked Amount Posting
90	PIN Unblock Transactions
30	Balance Enquiry
92	PIN Change Transactions

Response status

Status	Description		
00	All good (Transaction was accepted)		
01	Txn declined		
03	Invalid merchant		
04	Capture card		

05 Do not honour 06 Unspecified Error 08 Honour with identification 10 Partial Approval 12 Invalid transaction 13 Invalid amount 14 Invalid card number (no such number) 15 Unable to route at IEM 17 Customer Cancellation 30 Format error 32 Completed Partially 33 Restricted card 37 Card acceptor call acquirer security 38 Allowable PIN tries exceeded 41 Lost card (Capture) 51 Insufficient funds 54 Expired card 55 Incorrect PIN 57 Transaction not permitted to cardholder 61 Exceeds withdrawal amount limit 62 Restricted card 63 Security violation 64 Original amount incorrect 65 Exceeds withdrawal frequency limit 66 Card acceptor call acquirer's 67 Card to be picked up at ATM <th>Status</th> <th>Description</th>	Status	Description	
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10 Partial Approval 12 Invalid transaction 13 Invalid amount 14 Invalid card number (no such number) 15 Unable to route at IEM 17 Customer Cancellation 30 Format error 32 Completed Partially 33 Restricted card 37 Card acceptor call acquirer security 38 Allowable PIN tries exceeded 41 Lost card (Capture) 43 Stolen card (Capture) 51 Insufficient funds 54 Expired card 55 Incorrect PIN 57 Transaction not permitted to cardholder 61 Exceeds withdrawal amount limit 62 Restricted card 63 Security violation 64 Original amount incorrect 65 Exceeds withdrawal frequency limit 66 Card acceptor call acquirer's 67 Card to be picked up at ATM 68 Response to contact issuer 71 PIN not changed 75 Allowable number of PIN tries exceeded 76 Wrong PIN, allowable number of PIN tried exceeded 77 Issuer does not participate in the service 78 Unacceptable PIN- Transaction declined 80 Network error 81 Foreign network failure 82 Timeout at IEM 83 Card destroyed	06	Unspecified Error	
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51 Insufficient funds 54 Expired card 55 Incorrect PIN 57 Transaction not permitted to cardholder 61 Exceeds withdrawal amount limit 62 Restricted card 63 Security violation 64 Original amount incorrect 65 Exceeds withdrawal frequency limit 66 Card acceptor call acquirer's 67 Card to be picked up at ATM 68 Response to contact issuer 71 PIN not changed 75 Allowable number of PIN tries exceeded 76 Wrong PIN, allowable number of PIN tried exceeded 77 Issuer does not participate in the service 78 Unacceptable PIN- Transaction declined 80 Network error 81 Foreign network failure 82 Timeout at IEM 83 Card destroyed	41	Lost card (Capture)	
54 Expired card 55 Incorrect PIN 57 Transaction not permitted to cardholder 61 Exceeds withdrawal amount limit 62 Restricted card 63 Security violation 64 Original amount incorrect 65 Exceeds withdrawal frequency limit 66 Card acceptor call acquirer's 67 Card to be picked up at ATM 68 Response to contact issuer 71 PIN not changed 75 Allowable number of PIN tries exceeded 76 Wrong PIN, allowable number of PIN tried exceeded 77 Issuer does not participate in the service 78 Unacceptable PIN- Transaction declined 80 Network error 81 Foreign network failure 82 Timeout at IEM 83 Card destroyed	43	Stolen card (Capture)	
55 Incorrect PIN 57 Transaction not permitted to cardholder 61 Exceeds withdrawal amount limit 62 Restricted card 63 Security violation 64 Original amount incorrect 65 Exceeds withdrawal frequency limit 66 Card acceptor call acquirer's 67 Card to be picked up at ATM 68 Response to contact issuer 71 PIN not changed 75 Allowable number of PIN tries exceeded 76 Wrong PIN, allowable number of PIN tried exceeded 77 Issuer does not participate in the service 78 Unacceptable PIN- Transaction declined 80 Network error 81 Foreign network failure 82 Timeout at IEM 83 Card destroyed	51	Insufficient funds	
57 Transaction not permitted to cardholder 61 Exceeds withdrawal amount limit 62 Restricted card 63 Security violation 64 Original amount incorrect 65 Exceeds withdrawal frequency limit 66 Card acceptor call acquirer's 67 Card to be picked up at ATM 68 Response to contact issuer 71 PIN not changed 75 Allowable number of PIN tries exceeded 76 Wrong PIN, allowable number of PIN tried exceeded 77 Issuer does not participate in the service 78 Unacceptable PIN- Transaction declined 80 Network error 81 Foreign network failure 82 Timeout at IEM 83 Card destroyed	54	Expired card	
61 Exceeds withdrawal amount limit 62 Restricted card 63 Security violation 64 Original amount incorrect 65 Exceeds withdrawal frequency limit 66 Card acceptor call acquirer's 67 Card to be picked up at ATM 68 Response to contact issuer 71 PIN not changed 75 Allowable number of PIN tries exceeded 76 Wrong PIN, allowable number of PIN tried exceeded 77 Issuer does not participate in the service 78 Unacceptable PIN- Transaction declined 80 Network error 81 Foreign network failure 82 Timeout at IEM 83 Card destroyed	55	Incorrect PIN	
62 Restricted card 63 Security violation 64 Original amount incorrect 65 Exceeds withdrawal frequency limit 66 Card acceptor call acquirer's 67 Card to be picked up at ATM 68 Response to contact issuer 71 PIN not changed 75 Allowable number of PIN tries exceeded 76 Wrong PIN, allowable number of PIN tried exceeded 77 Issuer does not participate in the service 78 Unacceptable PIN- Transaction declined 80 Network error 81 Foreign network failure 82 Timeout at IEM 83 Card destroyed	57	Transaction not permitted to cardholder	
63 Security violation 64 Original amount incorrect 65 Exceeds withdrawal frequency limit 66 Card acceptor call acquirer's 67 Card to be picked up at ATM 68 Response to contact issuer 71 PIN not changed 75 Allowable number of PIN tries exceeded 76 Wrong PIN, allowable number of PIN tried exceeded 77 Issuer does not participate in the service 78 Unacceptable PIN- Transaction declined 80 Network error 81 Foreign network failure 82 Timeout at IEM 83 Card destroyed	61	Exceeds withdrawal amount limit	
64 Original amount incorrect 65 Exceeds withdrawal frequency limit 66 Card acceptor call acquirer's 67 Card to be picked up at ATM 68 Response to contact issuer 71 PIN not changed 75 Allowable number of PIN tries exceeded 76 Wrong PIN, allowable number of PIN tried exceeded 77 Issuer does not participate in the service 78 Unacceptable PIN- Transaction declined 80 Network error 81 Foreign network failure 82 Timeout at IEM 83 Card destroyed	62	Restricted card	
Exceeds withdrawal frequency limit Card acceptor call acquirer's Card to be picked up at ATM Response to contact issuer PIN not changed Allowable number of PIN tries exceeded Wrong PIN, allowable number of PIN tried exceeded Issuer does not participate in the service Unacceptable PIN- Transaction declined Network error Foreign network failure Timeout at IEM Card destroyed	63	Security violation	
66 Card acceptor call acquirer's 67 Card to be picked up at ATM 68 Response to contact issuer 71 PIN not changed 75 Allowable number of PIN tries exceeded 76 Wrong PIN, allowable number of PIN tried exceeded 77 Issuer does not participate in the service 78 Unacceptable PIN- Transaction declined 80 Network error 81 Foreign network failure 82 Timeout at IEM 83 Card destroyed	64	Original amount incorrect	
Card to be picked up at ATM Response to contact issuer PIN not changed Allowable number of PIN tries exceeded Wrong PIN, allowable number of PIN tried exceeded Issuer does not participate in the service Unacceptable PIN- Transaction declined Network error Foreign network failure Timeout at IEM Card destroyed	65	Exceeds withdrawal frequency limit	
Response to contact issuer PIN not changed Allowable number of PIN tries exceeded Wrong PIN, allowable number of PIN tried exceeded Issuer does not participate in the service Unacceptable PIN- Transaction declined Network error Foreign network failure Timeout at IEM Card destroyed	66	Card acceptor call acquirer's	
71 PIN not changed 75 Allowable number of PIN tries exceeded 76 Wrong PIN, allowable number of PIN tried exceeded 77 Issuer does not participate in the service 78 Unacceptable PIN- Transaction declined 80 Network error 81 Foreign network failure 82 Timeout at IEM 83 Card destroyed	67	Card to be picked up at ATM	
75 Allowable number of PIN tries exceeded 76 Wrong PIN, allowable number of PIN tried exceeded 77 Issuer does not participate in the service 78 Unacceptable PIN- Transaction declined 80 Network error 81 Foreign network failure 82 Timeout at IEM 83 Card destroyed	68	Response to contact issuer	
76 Wrong PIN, allowable number of PIN tried exceeded 77 Issuer does not participate in the service 78 Unacceptable PIN- Transaction declined 80 Network error 81 Foreign network failure 82 Timeout at IEM 83 Card destroyed	71	PIN not changed	
77 Issuer does not participate in the service 78 Unacceptable PIN- Transaction declined 80 Network error 81 Foreign network failure 82 Timeout at IEM 83 Card destroyed	75	Allowable number of PIN tries exceeded	
78 Unacceptable PIN- Transaction declined 80 Network error 81 Foreign network failure 82 Timeout at IEM 83 Card destroyed	76	Wrong PIN, allowable number of PIN tried exceeded	
80 Network error 81 Foreign network failure 82 Timeout at IEM 83 Card destroyed	77	Issuer does not participate in the service	
81 Foreign network failure 82 Timeout at IEM 83 Card destroyed	78	Unacceptable PIN- Transaction declined	
82 Timeout at IEM 83 Card destroyed	80	Network error	
83 Card destroyed	81	Foreign network failure	
,	82	Timeout at IEM	
85 Pin Unblock request	83	Card destroyed	
	85	Pin Unblock request	

Status	Description
85	PIN validation not possible
87	Purchase Amount Only. No Cash Back Amount
88	Cryptographic failure
89	Authentication failure
91	Issuer or switch is inoperative
92	Unable to route at AEM
94	Duplicate Transmission
95	Reconcile error
96	System malfunction
98	Refund given to Customer
99	Card Voided
N7	Incorrect CVV (VISA Only)
P5	PIN Change/Unblock request declined
P6	Unsafe PIN

POS (Point of Sale) data code starting with

Status	Description
00	Unknown
01	Manual entry
02	Magstripe
03	Barcode reader
04	Optical Character Reader (OCR)
05	Chip Transaction
06	Chip PayPass Mapping Service application
07	Contactless
80	Magstripe
81	Ecommerce
90	Magstripe
91	Contactless magnetic stripe
92	Contactless input
95	Visa only

These can have subfields:

0 = Unspecified or unknown

- 1 = Terminal has PIN entry capability
- 2 = Terminal does not have PIN entry capability
- 8 = Terminal has PIN entry capability but PIN pad is not currently operative

Example:

- 050(0) = PAN auto-entry via integrated circuit card (ICC)- Unspecified or unknown
- 051(0) = PAN auto-entry via integrated circuit card (ICC) Terminal has PIN entry capability
- 052(0) = PAN auto-entry via integrated circuit card (ICC)-Terminal does not have PIN entry capability

Card status code

Status	Description
05	Do not honour
14	Invalid Card Number
41	Lost card
43	Stolen card
54	Expired card
62	Restricted card
63	Security Violation
70	Cardholder to contact issuer
83	Card Destroyed
99	Card Voided

FAQs and Troubleshooting

This section provides answers to frequently asked questions and common troubleshooting issues.

Setup

Cannot log into GPS Protect

- Check your credentials are correct. Both the username and password are case sensitive.
- If you forget your username or password, contact GPS by raising a GPS JIRA to request your username or a password reset.

Note: After 3 failed login attempts, your account will be locked for 15 minutes after which you can try again. If you are unable to log in, contact GPS to unlock your account and send you a password reminder.

How do I reset my password?

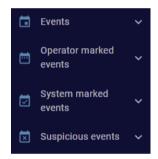
Changing or resetting a password.

GPS JIRA or via email by sending a password reset request to FraudTeam@globalprocessing.com

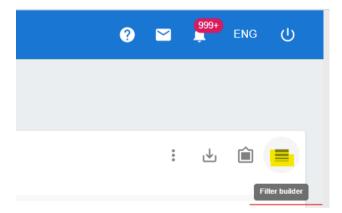
Monitoring

How do I filter data on transactional pages?

On any transactional page/sub-page (Events, Operator marked events, System marked events or Suspicious events):

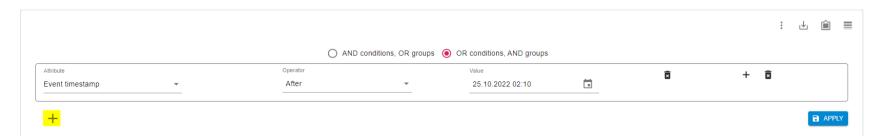


1. Click on Filter builder in the top-right of the page:



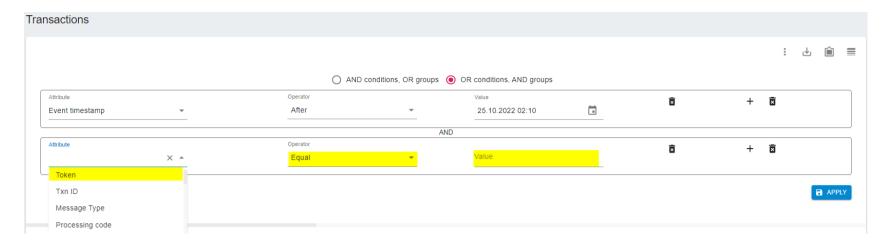
The filter area appears. The following filter appears with the default filter *Event timestamp* attribute (this filter is always present and cannot be removed).

2. Click + Add new item to add an additional filter if needed.



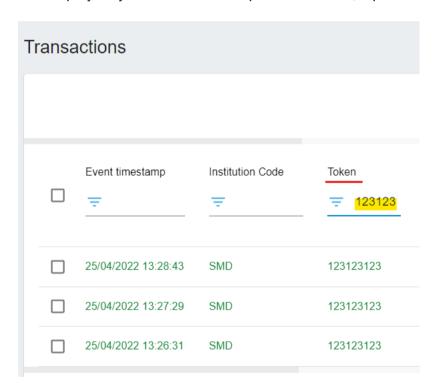
The default options appear.

3. From the dropdown, select the filtering "Attribute" (for example, Token), choose an operator (for example, Equals), provide the actual value of the attribute (for example, the token number) and click on APPLY to filter the data.

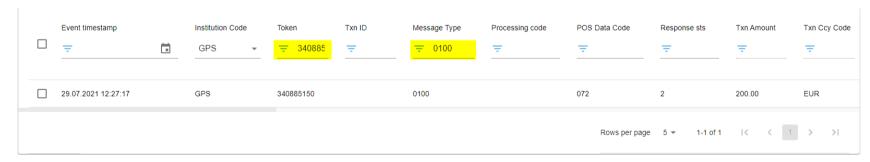


How can I quickly filter transactional data?

1. On any transactional page, at the top of each column, type or copy/paste the values you want to filter on. For example, to filter and display only transactions for a particular token, input its value to the right of

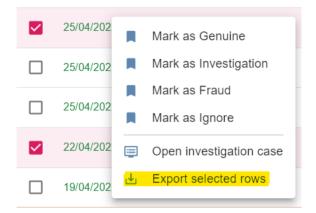


2. Multiple quick filter options can be used simultaneously by inputting values to the right of in the columns that display a continuous line (for example, Token = 340885150 AND Message Type = 0100):



How do I export transactional data?

1. To export a *selection of transactions*, select your transactions then right-click and select **Export selected rows** or click **Export selected rows** in the top-right corner:

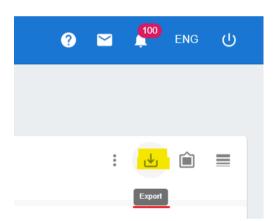


A window appears in which you can select the **Export format** such as XLSX or CSV.

2. Click **SUBMIT** to save the file on your local computer.

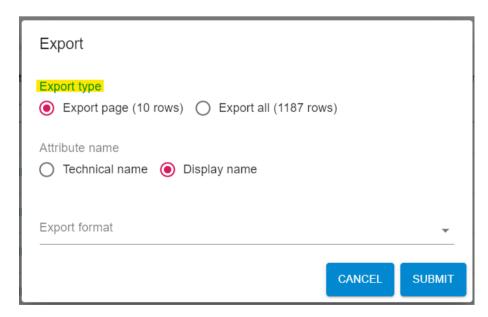


3. To export all transactions on a page (no specific transactions are selected), click Export in the top-right corner:



A window appears in which you can select the **Export format** such XLSX or CSV.

4. Click **SUBMIT** to save the file on your local computer.



How do I mark transactions after investigating them?

There are two methods which are described below.

Note: With both methods, multiple transactions can be selected simultaneously so that you can bulk mark multiple transactions with the same status.

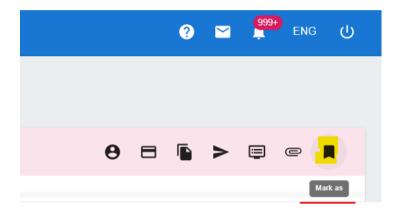
Method 1

After finalising the investigation, select the checkbox next to the transaction, then right-click and assign a status:



Method 2

After finalising the investigation, select the checkbox next to the transaction, then click — Mark as and select the option to assign a status:

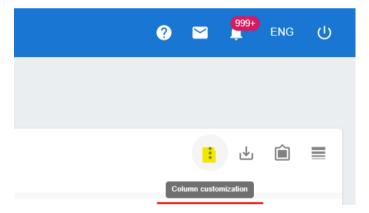


How do I customise the displayed data on transactional pages?

1. To display specific columns on-screen, hide columns or reorder columns so they better reflect how you use the data, on any

transactional page/sub-page (*Events*, *Operator marked events*, *System marked events* or *Suspicious events*) click

Column customization on the top right:



2. After the list of displayed columns appears, select or deselect a column to add or remove it from the screen. To reorder columns, drag and drop them up and down:



How do I save and use frequently-used filters on transactional pages?

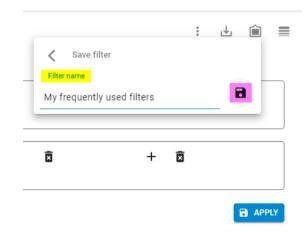
1. Make sure all frequently used filters/conditions are configured and contain the desired values. In the example below, two filters/conditions are defined:



2. To save these for later use, click **Custom filter** in the top-right corner:



3. A pop-up appears. Click + Save.



To use a saved filter, on the transactional page click **Custom filter** in the top-right corner, and select your filter:



All the conditions/groups will be automatically populated and can be used to filter the data on the selected page.

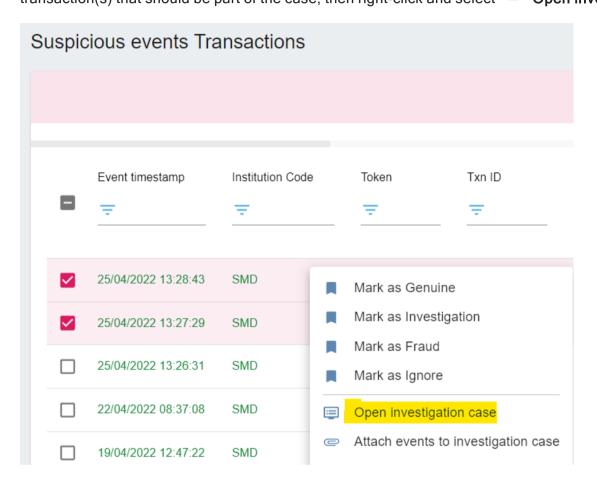
Investigating

How do I open an investigation case?

You can use several methods to create an investigation case:

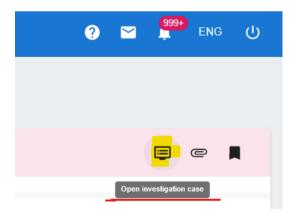
Method 1

On any transactional page/sub-page (*Events*, *Operator marked events*, *System marked events* or *Suspicious events*) select the transaction(s) that should be part of the case, then right-click and select Open investigation case from the context menu:



Method 2

After selecting transactions, click Open investigation case in the top-right corner:



Method 3

Navigate to CRM > Investigation cases and click + Add new item to create a new case.



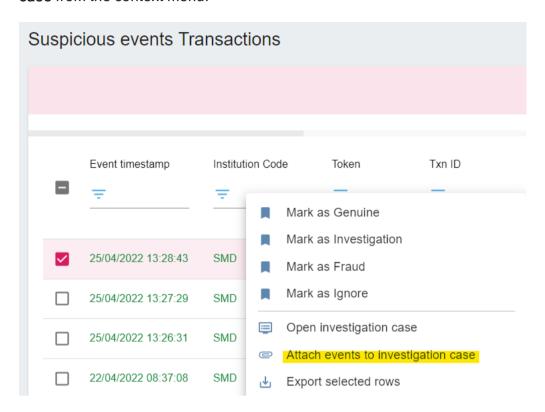
Transactions can be added later to an existing case, as described in the following topic.

How do I add transactions to an existing case?

You can use two methods to add transactions to an existing investigation case.

Method 1

1. Select the transaction(s) you want to add to an existing case, then right-click and select Attach events to investigation case from the context menu:



Method 2

1. After selecting transactions, click Attach events to investigation case in the top-right corner:



Regardless of the method used, you will be prompted to provide the *Investigation case ID* for the case the transactions are to be added to. Click **SUBMIT** to commit the addition:



How do I find specific investigation cases?

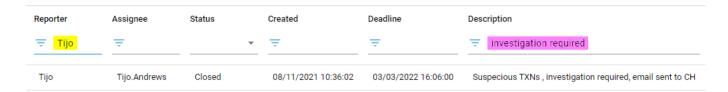
1. On the CRM > Investigation case page, at the top of each column, type or copy/paste the values you want to find.

For example, if you know the Case ID you are looking for, input its value to the right of =:



Multiple quick filter options can be used simultaneously by inputting the appropriate values to the right of in the corresponding columns.

For example, if you do not know the Case ID number but you remember you opened the case (you were the reporter) and you mentioned in the description that further investigation is required (for example, *Case ID* = 3355 AND *Description* = %investigation required%):

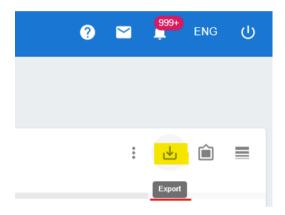


How do I export cases?

1. Using the **CRM > Investigation case** page, you can export all cases (the default) or select particular cases to export. For example, to export only closed cases, you can apply a filter or a quick filter *Status* = closed.



2. After the cases that meet your requirements appear, click **Export** in the top-right corner:



3. A pop-up appears. Select the Export format (XLSX or CSV) and click SUBMIT:



The selected file format containing all the cases is exported and saved to your workstation/local drive.

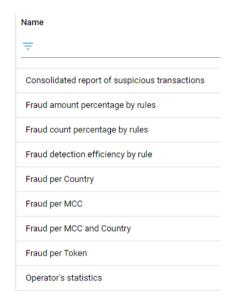
Reporting

How do I generate reports?

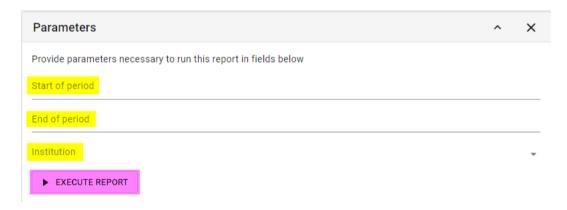
1. Navigate to **Reports > Reports list** (note that only users with *Manager* access can generate reports):



2. Select a report from the list:

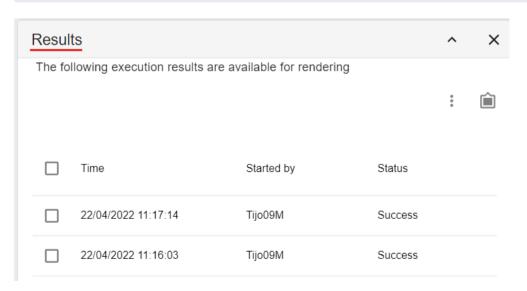


3. Input all the requested parameters (Start of period, End of period, Institution etc.) and click EXECUTE REPORT:

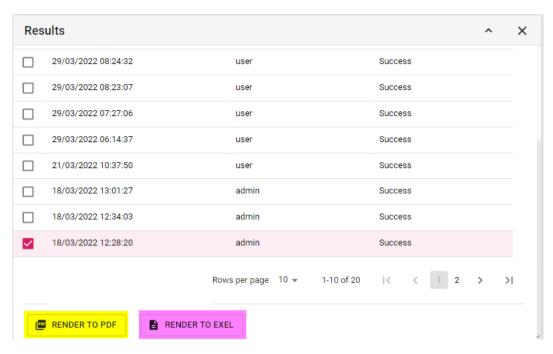


After the report is generated, you can view it on the **Results** pane.

Tip: If the report takes time to generate, try refreshing your browser page.



4. Choose the generated report by selecting the checkbox next to it and, depending on the exported format, click either RENDER TO PDF or RENDER TO EXCEL:

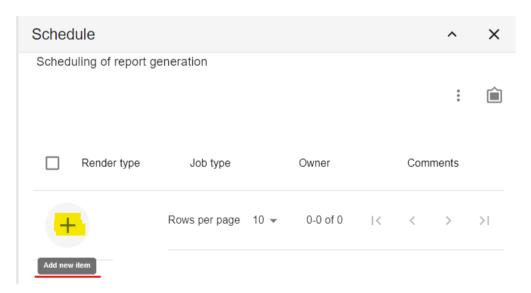


The selected file format containing the report is exported and saved to your workstation/local drive.

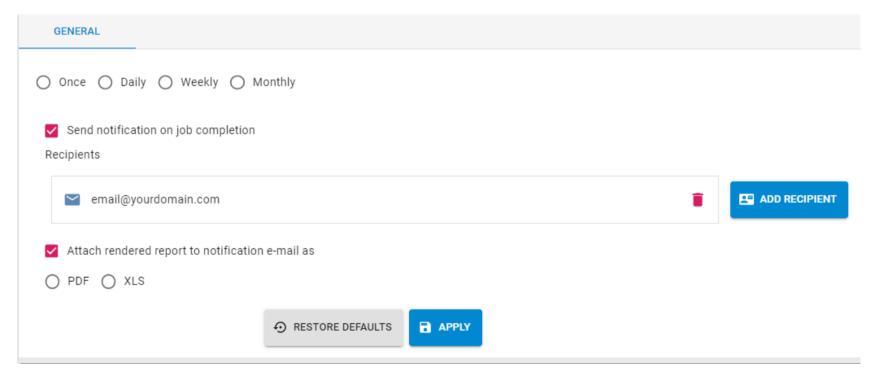
How do I generate reports on a scheduled basis?

Reports can be generated automatically by the system with a predefined frequency.

- 1. Navigate to Reports > Reports list (note that only users with *Manager* access can generate reports) and click on a report.
- 2. On the **Schedule** pane, click + Add new item:



3. In the window that appears, input the requested information:



- Choose the frequency: Once, Daily, Weekly, or Monthly
- Send notification on job completion (if selected, an email confirmation is sent to the provided recipient(s) to notify them the report has been generated as scheduled)

- Recipients: input the email address(es) of the recipient(s)
- Attach rendered report to notification e-mail as (if selected, the report is attached to the email sent to the recipient(s))

4. Click **APPLY** to save the scheduled report generation job.

Glossary

This page provides a list of glossary terms used in this guide.



Acquirer

The merchant acquirer or bank that offers the merchant a trading account, to enable the merchant to take payments in store or online from card-holders.

Authorisation

Stage where a merchant requests approval for a card payment by sending a request to the card issuer to check that the card is valid, and that the requested authorisation amount is available on the card. At this stage the funds are not deducted from the card.



Card Scheme

Card network, such as MasterCard or Visa, responsible for managing transactions over the network and for arbitration of any disputes.



Filter

See Rule condition



GPS Apex platform

A comprehensive, robust and reliable solution for card payment processing which is integrated within the global payment network.

GPS Protect

A bespoke fraud protection programme designed to guard financial institutions and cardholders from fraudulent activity.



Issuer

The card issuer, typically a financial organisation authorised to issue cards. The issuer has a direct relationship with the relevant card scheme.



MCC

Merchant Category Code

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.



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.



Rule

Conditions (described as logical expressions) through which transaction verification happens. Rules are tailored to your institution.

Rule condition

A rule condition (also called a filter) is a logical expression used by GPS Protect to determine whether transactions meet the eligibility criteria for triggering an action such as an alert.



sFTP

Secure File Transfer Protocol. File Transfer Protocol FTP) is a popular unencrypted method of transferring files between two remote systems. SFTP (SSH File Transfer Protocol, or Secure File Transfer Protocol) is a separate protocol packaged with SSH that works in a similar way but over a secure connection.

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.

SSL Certification

An SSL certificate displays important information for verifying the owner of a website and encrypting web traffic with SSL/TLS, including the public key, the issuer of the certificate, and the associated subdomains.

Stand In Processing (STIP)

The card network (Visa and Mastercard) may perform approve or decline a transaction authorisation request on behalf of the card issuer. Depending on your GPS mode, GPS may also provide STIP on your behalf, where your systems are unavailable.



Token

Tokenisation is a security technology which replaces the sensitive 16-digit permanent account number (PAN) that is typically embossed on a physical card with a unique payment token (a digital PAN or DPAN) that can be used in payments and prevents the need to expose or store actual card details.



Widgets

Ul components that appear on screen showing tables, statistical graphs, cases, events etc. You can tailor your dashboard by choosing the widgets you want to display.

Document History

This section provides details of what has changed since the previous document release.

Version	Date	Description	Revised by
2.2	01/12/2022	Updated the Copyright Statement.	MW
2.1	01/11/2022 11/11/2022	New guide layout and HTML version now available. Updates to screenshots for latest release, Updates to table layouts in Appendix A.	PC, PM, AL &
2.0	30/05/2022	Major upgrade to v6.0.8 for a new Web interface	PM & AL
1.6	15/06/2021	Sub-chapter on Rule Actions added. Other minor updates throughout the text	РМ
1.5	11/05/2020	Major upgrade to v5.1.7 with a redesigned interface	РМ
1.4	04/04/2019	Updates to the server IP address and other minor updates/revisions	РМ
1.3	01/02/2019	Wording changes	РМ
1.2	27/09/2018	Re-wording, additional diagrams and explanation of terms	РМ

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