

# Fraud Expert Checklist

Fraud Expert Checklist user guide v.1.0.3



## Table of Contents

|         |  |    |
|---------|--|----|
| 1       | Introduction .....   | 4  |
| 2       | Features .....   | 5  |
| 2.1     | Automatic .....  | 5  |
| 2.2     | Manual review .....  | 5  |
| 3       | Integration .....  | 6  |
| 3.1     | Parameters .....   | 6  |
| 3.2     | Data Controller privacy notice request.....                    | 6  |
| 3.2.1   | Query request .....  | 6  |
| 3.2.1.1 | Request URL.....   | 6  |
| 3.2.1.2 | Request parameter.....   | 7  |
| 3.2.1.3 | Test page .....  | 7  |
| 3.2.2   | Query response .....   | 7  |
| 3.3     | Device fingerprinting.....                                     | 8  |
| 4       | Configuration.....   | 9  |
| 5       | Global Fraud Score decision process.....                       | 10 |
| 5.1     | How it works .....   | 10 |
| 5.2     | Examples .....   | 11 |
| 5.3     | Transaction freeze.....  | 12 |
| 5.4     | Default scoring if Fraud Expert is not available.....          | 12 |
| 6       | Transaction monitoring and review.....                         | 13 |
| 6.1     | General .....  | 13 |
| 6.1.1   | Global fraud score .....                                       | 13 |
| 6.2     | Advanced reviewing: Scoring detail.....                        | 14 |
| 6.2.1   | Transaction data summary .....                                 | 14 |
| 6.2.2   | Details/data .....   | 14 |
| 6.2.3   | Transaction scoring summary .....                              | 15 |
| 6.2.4   | Chargeback / Dispute / False Positives status and action ..... | 16 |
| 6.2.5   | Transaction correlated history summary .....                   | 17 |
| 7       | Appendix: Device fingerprinting via DirectLink.....            | 18 |

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|   |                                 |    |
|---|---------------------------------|----|
| 8 | Appendix: Activity Sectors..... | 19 |
|---|---------------------------------|----|

# 1 Introduction

The Fraud Expert module allows you to receive an additional opinion and refine your fraud detection. This Global Risk Management module allows you to detect fraud at an earlier stage, and to protect your online business from complex fraud attacks, whilst preventing the rejection of valid orders. This is achieved by means of over 100 transaction scoring parameters, and over 20,000 cross-parameter rules, specific to your industry.

Fraud Expert also enables you to save time and resources by outsourcing the manual review of dubious transactions. In addition, you will be able to freeze the most dubious transactions (credit cards and direct debits) that you prefer to review by yourself.

Fraud Expert is to be used in combination with our Advanced Fraud Detection modules; FDMA "Checklist" and "Scoring". Therefore this guide should be read in conjunction with the relevant FDMA guide.

## 2 Features

### 2.1 Automatic

Depending on the [activity sector](#) you defined in your ePDQ Account, various scoring rules and criteria are applied. Based on the transaction analysis through these global and industry specific rules, *Fraud Expert Automatic* generates three possible scorings: Low Risk, Medium Risk, or High Risk.

The transaction score of *Fraud Expert Automatic* is combined with the rating of the FDMA module, to generate a *Global Fraud score* (cf. [Global Fraud Score decision process](#)).

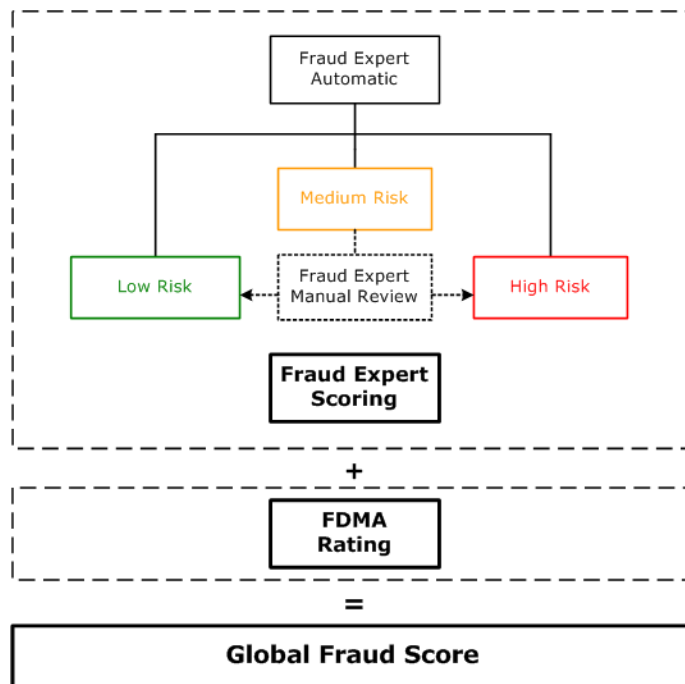
### 2.2 Manual review

Thanks to the *Manual Review* option, Medium Risk transactions may be manually reviewed by our fraud experts. The review is performed within hours, 24/7.

The Fraud Expert Manual Review will refine the Fraud Expert scoring.

The Fraud Expert scoring is combined with the rating of the FDMA module to generate a Global Fraud Score (cf. [Global Fraud Score decision process](#)).

Schematic presentation of how the *Global Fraud Score* is generated:



## 3 Integration

### 3.1 Parameters

In order to have your transactions reviewed in the best way, it is strongly recommended to submit as many parameters as possible.

In any case, we strongly recommend you to submit at least the following parameters:

| Parameter                     | Format  | Explanation              | Example           |
|-------------------------------|---------|--------------------------|-------------------|
| EMAIL                         | AN (50) | Customer's email address | John.Doe@test.com |
| OWNERTELNO                    | AN (30) | Customer's phone number  | +32123456789      |
| OWNERCTY                      | AN (2)  | Customer's country (ISO) | BE                |
| REMOTE_ADDR (via DirectLink*) | AN      | Customer's IP address    | 212.23.45.96      |

\* not for e-Commerce integrations

If you work with travel data, it is important to send the travel data with the relevant travel parameters (cf. FDMA documentation for more information).

If you work with delivery data, it is important to send the delivery data with the relevant delivery ("ECOM\_SHIPTO...") parameters.

**Important**  
 For the best reviewing, please make sure to always send the correct data with the relevant parameters. E.g. ECOM\_SHIPTO\_POSTAL\_NAME\_LAST should contain the customer's last name, the ECOM\_SHIPTO\_POSTAL\_NAME\_FIRST his first name.

*More information about these fields can be found in your ePDQ account. Just log in and go to: Support > Integration & user manuals > Technical guides > Parameter Cookbook.*

### 3.2 Data Controller privacy notice request

Based on GDPR article 12, 13 & 14, a Data Controller has the obligation to inform its end-customers about the future processing of their personal data. Such information should be made specific based on the type of personal data to be filled-in for a specific transaction (e.g.: selected payment method, controller/processor, acquirer, fraud). The result should be available and visible at the moment of the data collection and the cardholder should be offered with a printable and downloadable version of it.

Per the GDPR policy, you need to display the information to your customer before they validate their transaction. This information should ideally be displayed on the same page as where your customer fills in their card/account credentials.

The below privacy policy request allows you to retrieve all the information you need to display to your customer about our services in order to be compliant with the GDPR regulation.

#### 3.2.1 Query request

##### 3.2.1.1 Request URL

- The request URL in the TEST environment is <https://mdepayments.epdq.co.uk/ncol/test/privacy-policy.asp>
- The request URL in the PRODUCTION environment is <https://payments.epdq.co.uk/ncol/prod/privacy-policy.asp>

### 3.2.1.2 Request parameter

The following table contains the mandatory request parameters to be sent to your customer regarding the usage of their privacy information:

| Field    | Format                                | Description  |
|----------|---------------------------------------|--|
| USERID   | String                                | Your API-user  |
| PSWD     | String                                | Your API-user password   |
| PSPID    | String                                | Your account PSPID   |
| BRAND    | String (e.g. Visa)                    | Optional: Payment method brand<br>You can send this field multiple times to get the result of several brands at once. <ul style="list-style-type: none"> <li>• Sending no brand is the same as sending all your active brands.</li> <li>• Empty/wrong formatted brands are ignored.</li> </ul> |
| LANGUAGE | ISO 639-1: Two-letter codes (e.g. FR) | Optional: The language in which you want to retrieve the text.<br>If not provided, the text will be returned into the merchant configured language.  |

### 3.2.1.3 Test page

You can test direct query requests here: <https://mdepayments.epdq.co.uk/ncol/test/privacy-policy.asp>

### 3.2.2 Query response

The following is a list of XML elements and the returned XML responses examples for different outcomes.

| Name   | Format   | Description   |
|--|--|---|
| Response   | Complex  | Root node, always present   |
| Response.Status  | String, possible values : Success, SuccessWithWarnings, Error  | Always present  |
| Response.Body  | Complex  | Present only when Response.Status = Success or SuccessWithWarnings                          |
| Response.Body.Html   | String / html  | Empty if Response.Status = SuccessWithWarnings & Response.Warnings.Warning.Code = NoContent |
| Response.Errors  | Complex  | Present only when Response.Status = Error   |
| Response.Errors.Error  | Complex  | Can occur multiple times inside an <Errors> node  |
| Response.Warnings  | Complex  | Present only when Response.Status = SuccessWithWarnings or Error                            |
| Response.Warnings.Warning  | Complex  | Occurs multiple times inside a <Warnings> node  |
| Response.Errors.Error.Code<br>Response.Warnings.Warning.Code       | String, possible values :<br>Inside an <Error> node : Unauthorized, InternalServerError<br>Inside a <Warning> node : NoContent | Always present in an <Error> or <Warning> node  |
| Response.Errors.Error.Message<br>Response.Warnings.Warning.Message | String   | Optional  |

If you face `Response.Status=Error`, please refer to the `Response.Errors.Error` to fix it.

The following are two successful examples:

1. Example of an XML response for success with warnings. This example displays if no privacy information needs to be disclosed to the customer.

```
<?xml version="1.0" encoding="utf-8"?>
<Response>
<Status>SuccessWithWarnings</Status>
<Warnings>
<Warning>
<Code>NoContent</Code>
</Warning>
</Warnings>
<Body>
<Html/>
</Body>
</Response>
```

2. Example of an XML response for success with content. The example shows a 2 section display.

```
<?xml version="1.0" encoding="utf-8"?>
<Response>
<Status>Success</Status>
<Body>
<Html><![CDATA[<ul><li><h2>Title 1</h2><p>Content 1</p></li><li><h2>Title 2 (VISA,
</Body>
</Response>
```

### 3.3 Device fingerprinting

*Device fingerprinting* is a technology that enables us to uniquely identify a device, so that if a fraudster uses the same device twice, for different transactions, it can be detected by our system. The parameter `DEVICEID` is used to identify the device that the fraudster uses.

The technology is integrated in the ePDQ payment page by means of a Java Script. If you're using `DirectLink` and/or `Alias Gateway` you need to integrate the Java Script yourself. (See [Appendix: Device fingerprinting via DirectLink](#))

Note: The Device Fingerprinting functionality applies only when a Fraud Expert scoring category (Green, Orange or Red) is successfully returned by Fraud Expert



## 4 Configuration

The aforementioned Fraud Expert features can be activated and configured per payment method. This can be done by selecting "Fraud detection" under "Advanced" in the back-office menu:

### Fraud detection

#### Fraud detection activation and configuration

Your activity sector: Ticketing  — Configure "Your activity sector" and activate Fraud Expert Automatic and Manual

Clicking the "Edit" button for "Your activity sector" will allow you to change your activity sector, and to enable *Fraud Expert Automatic* and *Fraud Expert Manual Review* per payment method:

| Payment methods   | FDMAc                               | Fraud Expert Automatic              | Fraud Expert Manual Review          |
|-------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| <b>CreditCard</b> |                                     |                                     |                                     |
| MasterCard        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| VISA              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Clicking the "Edit" button for a payment method will allow you to configure FDMA and Fraud Expert for that specific payment method. This is thoroughly explained in the [next chapter](#).

| Payment methods   | FDMAc | Fraud Expert Automatic | Fraud Expert Manual Review |                                     |
|-------------------|-------|------------------------|----------------------------|-------------------------------------|
| <b>CreditCard</b> |       |                        |                            |                                     |
| MasterCard        | Yes   | Yes                    | No                         | <input type="button" value="Edit"/> |
| VISA              | Yes   | Yes                    | Yes                        | <input type="button" value="Edit"/> |

— Configure FDMA and Fraud Expert settings per payment method

## 5 Global Fraud Score decision process

The Global Fraud Score you will see in your transaction reports will be the combination of your own rating (FDMAc) and the Fraud Expert scoring in accordance with the settings in the matrix that you can configure in your back office via Fraud detection > Fraud detection activation and configuration > Payment method > "Edit":

**Fraud Expert configuration**

Receive a second expert opinion and refine your fraud detection with Fraud Expert. This Global Risk Management module allows you to detect fraud earlier, protect yourself from complex fraud attacks whilst preventing the rejection of valid orders, by means of over 100 transaction scoring parameters and over 20,000 cross-parameter rules based on your specific industry. This module also enables you to save time and resources by outsourcing the manual review of dubious transactions. In addition, you will be able to freeze the most dubious transactions that you want to review yourself.

**Fraud Expert Automatic Risk Scoring**

Not active  
 Active

**Your activity sector**

Other (Test only for FEX) ▼

**Fraud Expert additional Manual Review of Medium Risk transactions**

Not active  Active

**Global Fraud Score (combined results of FDMA/Fraud Expert modules)**

The Global Fraud Score you will see in your transaction reports will be the combination of your own Scoring (FDMA) and the Fraud Expert Scoring in accordance with the settings in the table below.  
**Price: Free of charge. Included in FDMA Module**

Used to select 20.000+ predefined rules corresponding to your activity sector

Review performed within hours. See technical user guide on how you will be notified of the Manual Review result.

Colour in the table will replace colour of the FDMA Scoring result in the report.

| FDMA scoring result | Launch fraud Expert                 | Fraud Expert scoring |                     |                     |
|---------------------|-------------------------------------|----------------------|---------------------|---------------------|
|                     |                                     | Low-Risk             | MediumRisk          | High-Risk           |
| Green "white list"  | <input checked="" type="checkbox"/> |                      |                     |                     |
| Green               | <input checked="" type="checkbox"/> |                      | Merchant review * ▼ | Merchant review * ▼ |
| Orange              | <input checked="" type="checkbox"/> | Merchant review * ▼  | Merchant review * ▼ | Merchant review * ▼ |
| Red                 | <input checked="" type="checkbox"/> | Block ▼              | Block ▼             | Block ▼             |
| Red "black list"    | <input checked="" type="checkbox"/> |                      |                     |                     |

If all FDMA rule actions are set to "none", fraud expert's result will determine the outcome of the transaction:

- If fraud expert output is 'low risk' the transaction will be sent further to authorization.
- If fraud expert output is 'medium risk' the transaction will be sent further to authorization.
- If fraud expert output is 'high risk' the transaction will be blocked and status 2 - authorization declined will be displayed.

### 5.1 How it works

You can configure the Global Fraud Score matrix for each payment method. It allows you to define the outcome of each transaction, based on the combined result of the FDMA rating and the Fraud Expert scoring.

The combination of the FDMA rating and the Fraud expert scoring will result in a predefined action:

- A. OK: Pass (green)
  - B. Merchant Review: Transaction freeze in status 50 and to be manually approved by the merchant (orange) \*
- OR
- C. Expert Manual Review: Transaction freeze in status 50 and expert review to be awaited (orange / only if Manual Review is active) \*
  - D. BLOCK: Refuse (red)

(\*actions B and C only apply when the transaction freeze option is enabled. If not, the the transactions will pass. In all cases, the transactions are identified labeled Orange.)

## 5.2 Examples

Hereunder you find concrete configuration examples of the FDMA rating/Expert scoring matrix.

### Default configuration

In the default configuration, Global Fraud Score colour is equivalent to your FDMA colour, except when Fraud Expert has flagged a risk as Medium or High, and your FDMA rating didn't give any risk. In this case, transactions will be put in orange "to review", to ensure suspicious behaviour is flagged and you can identify it.

| FDMA scoring result | Launch fraud Expert                 | Fraud Expert scoring |                   |                   |
|---------------------|-------------------------------------|----------------------|-------------------|-------------------|
|                     |                                     | Low-Risk             | MediumRisk        | High-Risk         |
| Green "white list"  | <input checked="" type="checkbox"/> |                      |                   |                   |
| Green               | <input checked="" type="checkbox"/> |                      | Merchant review * | Merchant review * |
| Orange              | <input checked="" type="checkbox"/> | Merchant review *    | Merchant review * | Merchant review * |
| Red                 | <input checked="" type="checkbox"/> | Block                | Block             | Block             |
| Red "black list"    | <input checked="" type="checkbox"/> |                      |                   |                   |

- You can set this configuration if you already have an extended set of rules configured in the FDMA and you want to ensure minimising fraud thanks to Fraud Expert's second layer of protection.

### Expert as second opinion with no impact on the transaction status

In this configuration, the Global Fraud Score colour is always equivalent to your FDMA colour. This induces that whatever the Fraud Expert risk feedback is, it will not influence your transaction status.

| FDMA scoring result | Launch fraud Expert                 | Fraud Expert scoring |                   |                   |
|---------------------|-------------------------------------|----------------------|-------------------|-------------------|
|                     |                                     | Low-Risk             | MediumRisk        | High-Risk         |
| Green "white list"  | <input checked="" type="checkbox"/> |                      |                   |                   |
| Green               | <input checked="" type="checkbox"/> |                      | OK                | OK                |
| Orange              | <input checked="" type="checkbox"/> | Merchant review *    | Merchant review * | Merchant review * |
| Red                 | <input checked="" type="checkbox"/> | Block                | Block             | Block             |
| Red "black list"    | <input checked="" type="checkbox"/> |                      |                   |                   |

- You can set this configuration if you want to use Fraud Expert as feedback to review suspicious transactions and adjust your own rules.

### Fully outsource complexity & risk scoring to Expert

In this configuration, the Global Fraud Score colour is equivalent to the Fraud Expert colour. This induces that rejection and acceptance of criteria will be determined by Fraud Expert scoring.

| FDMA scoring result | Launch fraud Expert                 | Fraud Expert scoring |                   |           |
|---------------------|-------------------------------------|----------------------|-------------------|-----------|
|                     |                                     | Low-Risk             | MediumRisk        | High-Risk |
| Green "white list"  | <input checked="" type="checkbox"/> |                      |                   |           |
| Green               | <input checked="" type="checkbox"/> |                      | Merchant review * | Block     |
| Orange              | <input checked="" type="checkbox"/> | OK                   | Merchant review * | Block     |
| Red                 | <input checked="" type="checkbox"/> | OK                   | Merchant review * | Block     |
| Red "black list"    | <input checked="" type="checkbox"/> |                      |                   |           |

- You can set this configuration if you don't have internal expertise or resources to do the operational follow-up of your transactions.

### Optimise acceptance rate with high review rate

In this configuration, whenever the FDMA and Fraud Expert colours are not similar, the transactions are considered as suspicious (Orange) and can then be reviewed by our team of Experts and your own experts.

| FDMA scoring result | Launch fraud Expert                 | Fraud Expert scoring |                   |                   |
|---------------------|-------------------------------------|----------------------|-------------------|-------------------|
|                     |                                     | Low-Risk             | MediumRisk        | High-Risk         |
| Green "white list"  | <input checked="" type="checkbox"/> |                      |                   |                   |
| Green               | <input checked="" type="checkbox"/> |                      | Merchant review * | Merchant review * |
| Orange              | <input checked="" type="checkbox"/> | Merchant review *    | Merchant review * | Merchant review * |
| Red                 | <input checked="" type="checkbox"/> | Merchant review *    | Merchant review * | Merchant review * |
| Red "black list"    | <input checked="" type="checkbox"/> |                      |                   |                   |

• You can set this configuration if you have enough internal resources to review transactions.

The "safe way" configuration

This configuration is very similar to the default configuration. The only difference is when Fraud Expert returns "High Risk". In that case, transactions' Global Fraud Score is Red, which induces transactions are blocked.

| FDMA scoring result | Launch fraud Expert                 | Fraud Expert scoring |                   |           |
|---------------------|-------------------------------------|----------------------|-------------------|-----------|
|                     |                                     | Low-Risk             | MediumRisk        | High-Risk |
| Green "white list"  | <input checked="" type="checkbox"/> |                      |                   |           |
| Green               | <input checked="" type="checkbox"/> |                      | Merchant review * | Block     |
| Orange              | <input checked="" type="checkbox"/> | Merchant review *    | Merchant review * | Block     |
| Red                 | <input checked="" type="checkbox"/> | Block                | Block             | Block     |
| Red "black list"    | <input checked="" type="checkbox"/> |                      |                   |           |

• You can set this configuration if you want to minimise the fraud rate and if your own FDMA rules are not too strict.

### 5.3 Transaction freeze

For all orange transactions, the Transaction freeze feature allows you to put the relevant transactions (authorised by the acquirer) on hold during a certain number of days, until you have reviewed them. Once this freeze period is over, if no action has been taken, the data capture and payment will automatically be processed, as usual.

If you do not activate the Transaction freeze feature, transactions will be processed automatically, as usual.

Be aware that acquirers have distinct authorisation period limits. We therefore recommend you to check per payment method what your acquirer's limit is, and configure the Transaction freeze module accordingly.

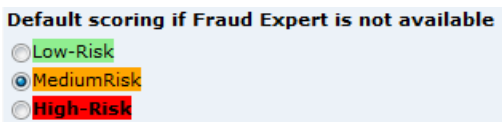
**Note**

Your acquirer can provide you more information about the expiration of an authorisation.

### 5.4 Default scoring if Fraud Expert is not available

It may happen that Fraud Expert is temporarily unavailable or doesn't provide an answer in a timely manner.

In the rare occasions this happens you can define a default scoring in the Fraud Expert configuration screen of the payment method.



If you haven't changed the configuration, the default value is "Medium Risk".

## 6 Transaction monitoring and review

### 6.1 General

In your ePDQ back office, via View transactions, on the transaction overview page, you can find three columns for fraud detection:

- FDMAc rating: Dark Green (DG), Green (G), Orange (O), Red (R), Dark Red (DR)
- Fraud Expert scoring: Low Risk, Medium Risk, High Risk (scoring is expressed in a percentage depending on the risk level. The higher the percentage, the higher the risk of fraud)
- Global Fraud Score: the result based on the combination of FDMAc rating and Fraud Expert scoring as configured in the Global Fraud Score matrix: G/O/R

Example:

| Pay ID    | Merch ref     | Orders              | Status <sup>?</sup>                   | Authorisation | Total      | Global Fraud Score | FDMAc rating | Fraud Expert scoring |
|-----------|---------------|---------------------|---------------------------------------|---------------|------------|--------------------|--------------|----------------------|
| 100747608 | 20129271805   | 2012-09-27 18:00:10 | 2-Authorisation declined              |               | 23.45 EUR  | (G)                | (G)          | n/a                  |
| 100747609 | 201292718027  | 2012-09-27 18:00:40 | 50-Authorized waiting external result | test123       | 23.45 EUR  |                    | (G)          | (41%)                |
| 100747610 |               | 2012-09-27 18:02:13 | 5-Authorised                          | test123       | 11.00 EUR  | (G)                | (G)          | (0%)                 |
| 100747656 |               | 2012-09-28 10:40:03 | 50-Authorized waiting external result | test123       | 651.00 EUR |                    | (G)          | (61%)                |
| 100745270 | 2012911123336 | 2012-09-11 12:33:37 | 5-Authorised                          | test123       | 23.45 EUR  | (G)                | (O)          | (41%)                |
| 100745272 | 2012911123432 | 2012-09-11 12:34:32 | 5-Authorised                          | test123       | 77.77 EUR  | (G)                | (O)          | (61%)                |
| 100745273 | 2012911123528 | 2012-09-11 12:35:29 | 5-Authorised                          | test123       | 12.34 EUR  | (G)                | (WL)         | (0%)                 |

Tip

In the "Advanced selection criteria" of the "View transactions" menu, you can filter results with the Global Fraud Score (Green/Orange/Red), and the Fraud Expert Manual Review (All/Green/Pending/Red).

#### 6.1.1 Global fraud score

The result of the Global Fraud Score will be Green (pass), Red (blocked), or Orange.

When the Transaction freeze option is activated and the the result is Orange, either a hand or a sandglass icon will be displayed:

Hand: Waiting merchant review

Sandglass: Waiting expert manual review

| Pay ID    | Merch ref     | Orders              | Status <sup>?</sup>                   | Authorisation | Payments | Total     | Global Fraud Score | FDMAc rating | Fraud Expert scoring | Name       | Method |
|-----------|---------------|---------------------|---------------------------------------|---------------|----------|-----------|--------------------|--------------|----------------------|------------|--------|
| 100744373 | 2012910104322 | 2012-09-10 10:43:21 | 50-Authorized waiting external result | test123       |          | 12.34 EUR |                    | (O)          | (0%)                 | Jane Doe   | VISA   |
| 100744375 | 2012910104419 | 2012-09-10 10:44:18 | 50-Authorized waiting external result | test123       |          | 23.45 EUR |                    | (O)          | (21%)                | S. Peeters | VISA   |

In both cases the status of the transaction is "50-Authorised waiting external result" (if the *Transaction freeze* option is enabled).

In the case of *Merchant review*, you only have to either delete the authorisation or confirm the order.

With the *Fraud Expert Review* option activated, you have to wait until the fraud expert has given his scoring: low or high risk. Based on the matrix configuration, a new global fraud score will be calculated.

You can bypass the Expert review by doing the review yourself, following the same process as Merchant review.

| Pay ID      | Merch ref     | Status                                | Authorisation | Payment date        | Total       | File / line | NCID | Error | Action            | Accept in | Charg Meth | Card/ACC no      |
|-------------|---------------|---------------------------------------|---------------|---------------------|-------------|-------------|------|-------|-------------------|-----------|------------|------------------|
| 100744373/0 | 2012910104322 | 50-Authorized waiting external result | test123       | 2012-09-10 10:43:27 | 12.34 EUR / |             |      | 0     | RES-Authorisation |           | VISA       | XXXXXXXXXXXX1111 |

Back  
Current Selection  
Accept Order:100744373/0  
Delete authorisation : 100744373/0

If the Transaction freeze option is activated, you can change the transaction status on the Scoring details page (cf. [Advanced reviewing: Scoring detail](#)).

## 6.2 Advanced reviewing: Scoring detail

To obtain a detailed overview of the transaction scoring (*Scoring detail*), you can select "View scoring details" in the "Financial" overview of a transaction, or directly in the transaction results after you made a search via *View transactions*.

### 6.2.1 Transaction data summary

The first overview you will see is the Transaction data summary, which shows general transaction data relevant to the scoring.

#### Scoring detail

**Transaction data summary**

|  |  |
|--|--|
| <p><b>Pay ID :</b> 321789456/0<br/> <b>Merch ref :</b> Order_1234<br/> <b>Total charge :</b> 10.00 EUR</p> | <p><b>Order date :</b> 2013-01-30 17:00:46<br/> <b>Status :</b> 9-Payment requested<br/> <b>Payment methods :</b> MasterCard</p> |
|--|--|

**Cardholder has been successfully identified!**

**Card verification code :** OK  
**Card country :** FR (FRANCE)  
**IP address country :** FR (FRANCE)  
**Received IP address :** 85.201.111.100

Show details

### 6.2.2 Details/data

In the *Transaction data summary* you can select "Show details" to get more specific data about a transaction:

| Data  |  |
|---|--|
| <b>Pay ID</b> : 321789456/0                     | <b>Merch ref</b> : Order_1234                        |
| <b>Action</b> : SAS-                            | <b>Order date</b> : 2013-01-30 17:00:46              |
| <b>Status</b> : 9-Payment requested             | <b>Description</b> :                                 |
| <b>Authorized amount</b> : 10.00 EUR            | <b>Authoriz. Number</b> : 395367                     |
| <b>Authorisation date</b> : 2013-01-30 17:02:28 | <b>Payment date</b> : 2013-01-31 16:06:37            |
| <b>Order amount</b> : 0.00 EUR                  | <b>Net with discount/premium</b> : 10.00 EUR         |
| <b>Total charge</b> : 10.00 EUR                 | <b>Card/Account number</b> : XXXXXXXXXXXX0638 :09/15 |
| <b>Payment methods</b> : MasterCard             | <b>Cardholder's name</b> : J. Cash                   |
| <b>Structured communication</b> : 032178945663  | <b>Payment file</b> : /                              |
| <b>Authorisation code</b> : 395367              | <b>AUMODE</b> : ONLINE                               |
| <b>NCMODE</b> : STD                             | <b>NC ID</b> : 955815532                             |
| <b>Transaction date</b> : 2013-01-31 16:06:37   | <b>TID</b> : 45678654                                |
| <b>UID</b> : 1234567                            | <b>encoded by</b> : ../PSPID                         |
| <b>Invoicing customer</b> : J. Cash             | <b>Reference</b> :                                   |
| <b>Request's IP address</b> : 88.200.100.100    | <b>VAT number</b> :                                  |
| <b>? NC ST/ER</b> : 0/0                         | <b>Invoicing customer</b> : J. Cash                  |
| <b>E-mail</b> : jcash@mail.com                  |  |
| <b>Company name</b> :                           |  |
| <b>Delivery customer</b> :                      |  |
| <b>encoded by</b> : ../PSPID                    |  |

[Hide details](#)

### 6.2.3 Transaction scoring summary

The *Transaction scoring summary* shows exactly which criteria were met to obtain the final transaction score:

| Transaction scoring summary |        |  |
|-----------------------------|--------|--|
| Criteria                    | Weight | Comment  |
| <b>FDMA</b>                 | 70     | <b>Category: Green (G)</b>   |
| <b>Fraud Expert Scoring</b> | 70     | <b>High Risk</b><br>Ogone expert manual review status : reviewed on the: 2013-01-30 16:27:17<br><b>Result: Rejected</b><br><b>Comment: Research process, Same customer(s) has attempted to make the payment by using various country cards</b> |
| <b>Global Fraud Score</b>   | Orange | <input type="checkbox"/> Change score to green<br><input type="checkbox"/> Change score to red<br>Reviewer comment:<br><div style="border: 1px solid #ccc; height: 20px; width: 100%;"></div> <input type="button" value="Submit"/>            |

[Show details](#)

You can change the the colour of the Global Fraud Score if the colour is Orange. If the Transaction freeze option is activated, that will automatically change the transaction status.

If the score becomes Green, then the transaction is authorised and then captured.

If the score becomes Red, then the transaction gets the "Authorised and cancelled" status.

Clicking the "Show details" button will again give more scoring information:

| Transaction scoring summary                 |               |  |
|---|---------------|--|
| Criteria                                    | Weight        | Comment  |
| 3-D Secure                                  | -             | No : ECI : 5   |
| CUI whitelist identification                | -             | No : Customer Identification : jcash@mail.com  |
| Card on greylist                            | -             | No : Card number / Account number : XXXXXXXXXXXX0638   |
| IP address on greylist                      | -             | No : Received IP address : [REDACTED]  |
| E-mail on greylist                          | -             | No : Customer e-mail : jcash@mail.com  |
| Cardholder name on name greylist            | -             | No : Cardholder name : J. Cash   |
| Card country                                | -             | No : Card country : FR / FRANCE  |
| IP country                                  | -             | No : IP country : FR / FRANCE  |
| IP cty differs from CC cty                  | -             | No : Card country / IP country : FR / FR   |
| Free e-mail                                 | -             | No : Customer e-mail : jcash@mail.com  |
| Max utilisation / card                      | -             | No : number of utilisations for the card : 1   |
| Max IP utilization all statuses             | -             | No : number of utilisations for the IP add. : 1  |
| Max e-mail utilisation                      | -             | No : number of utilisations for the e-mail address : 1   |
| Card verification code check                | -             | No   |
| Time of order                               | -             | No : Order date: 2013-01-30  |
| <b>FDMA</b>                                 |               | <b>Category: Green (G)</b>   |
| Rule20067                                   |               | Device Transaction Count exceeded thershold in LP  |
| Rule20123                                   |               | Device Card Country Count exceeded threshold 1   |
| Rule20181                                   |               | Device Email count exceeded threshold 2  |
| Rule20027                                   |               | Numbers in Billing Name  |
| Rule20299                                   |               | 3D secure authenticated succesfully  |
| <b>Fraud Expert Scoring</b>                 | <b>70</b>     | <b>High Risk</b><br>Ogone expert manual review status : reviewed on the: 2013-01-30 16:27:17<br>Result: Rejected<br>Comment: Research process, Same customer(s) has attempted to make the payment by using various country cards |
| <b>Global Fraud Score</b>                   | <b>Orange</b> | <input type="checkbox"/> Change score to green<br><input type="checkbox"/> Change score to red<br>Reviewer comment:<br><input type="text"/><br><input type="button" value="Submit"/>   |
| <input type="button" value="Hide details"/> |               |  |

### 6.2.4 Chargeback / Dispute / False Positives status and action

In the *Chargeback / Dispute / False Positives status and action* section you can choose to:

- Flag transactions as dispute, and select data to put in the blacklists/greylists
- Fill whitelists, with data such as IP addresses

**Tip**  
If your acquirer informs you of a fraud case, don't forget to mark the related transaction(s) as "Actual fraud". This allows you to get better prevention with Fraud Expert.

**Chargeback / Dispute / False Positives status and action**

Dispute:

## Dispute

**Ref.:** 321789456  
**Order reference:** Order\_1234  
**Total charge:** 10 EUR  
**Status:** 9  
**Order date :** 2013-01-30 17:00:46

| Data                | Value            | Comment | Add to the blacklist                | Add to the greylists                |
|---------------------|------------------|---------|-------------------------------------|-------------------------------------|
| Card/Account number | XXXXXXXXXXXX0638 |         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| IP address          | [REDACTED]       |         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| customer e-mail     | jcash@mail.com   |         | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Cardholder name     | J. Cash          |         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

- Commercial dispute  
 Actual fraud



Fill whitelists:

### Fill Whitelists

**Ref.:** 321789456  
**Order reference:** Order\_1234  
**Total charge:** 10 EUR  
**Status:** 9  
**Order date :** 2013-01-30 17:00:46

| Data       | Value          | Comment | Add to the whitelist     |
|------------|----------------|---------|--------------------------|
| IP address | 85.200.211.200 |         | <input type="checkbox"/> |
| CUI        | jcash@mail.com |         | <input type="checkbox"/> |

### 6.2.5 Transaction correlated history summary

The *Transaction correlated history summary* enables you to look up and browse through transactions that are similar to the one you are checking.

You can select different criteria to refine the resulting transactions:

| Transaction correlated history summary                        |                                  |
|---|----------------------------------|
| Search similar transactions from the last 30 days with        |                                  |
| <input checked="" type="checkbox"/> Same Cardholder name      | J. Cash                          |
| <input checked="" type="checkbox"/> Same E-mail               | jcash@mail.com                   |
| <input checked="" type="checkbox"/> Same IP address           | 85.200.211.200                   |
| <input type="checkbox"/> Same IP country                      | FRANCE (FR)                      |
| <input type="checkbox"/> Same CC country                      | FRANCE (FR)                      |
| <input checked="" type="checkbox"/> Same Card number          | XXXXXXXXXXXX0638                 |
| <input checked="" type="checkbox"/> Same Device ID            | 9fcd95604kl47e324226b20c11029683 |
| <input checked="" type="checkbox"/> Same Pay ID               | 321789456                        |
| <input type="radio"/> AND <input checked="" type="radio"/> OR |                                  |
| <input type="button" value="Start lookup 1"/>                 |                                  |

Transaction overview after lookup 1:

| Ref.        | Total charge | Payment date        | Status | NCERROR   | Global Fraud Score | FDMAC rating | Fraud Expert scoring | 3dSecure | Owner   | E-mail              | IP address     | Device ID     | Card no. | Expert Profile Category | IPCTY | CCCTY | Order reference |
|-------------|--------------|---------------------|--------|---|--------------------|--------------|----------------------|----------|---------|---------------------|----------------|---------------|----------|-------------------------|-------|-------|-----------------|
| 321789456/0 | 10.00 EUR    | 2013-01-30 17:09:26 | 5      |   | (G)                | G            | 70 %                 | 3        | J. Cash | jcash@mail.com      | 85.200.211.200 | ...0c11029683 | ...X0638 | n/a                     | FR    | FR    | Order_1234      |
| 321799654/0 | 10.00 EUR    | 2013-01-30 22:47:13 | 5      |   | (G)                | G            | n/a                  | 3        | J. Cash | jcash@mail.com      | 85.200.211.200 | ...0c11029683 | ...X0638 | n/a                     | FR    | FR    | Order_2163      |
| 331432651/0 | 10.00 EUR    | 2013-01-31 12:20:42 | 2      | 30341005 - Suspicion of fraud (Expert)                    | (R)                | G            | 100 %                |          | J. Cash | jcash@mail.com      | 85.200.211.200 | ...0c11029683 | ...X0638 | n/a                     | FR    | FR    | Order_3113      |
| 331439523/0 | 10.00 EUR    | 2013-01-31 12:31:05 | 2      | 40001134 - Authentication failed. Please retry or cancel. | -                  | G            | n/a                  |          | J. Cash | psp321456@yahoo.com | 85.200.211.200 | n/a           | ...X0638 | n/a                     | FR    | FR    | Order_3193      |

Clicking the "Ref." (PAYID) button will give the scoring details of that specific transaction.

Within the page that shows the results of "lookup 1", you can "Start lookup 2" to check the newly found correlated transactions' data. The same goes for 'lookup 3' etc.

## 7 Appendix: Device fingerprinting via DirectLink

The below information is for merchants that want to make use of the [Device fingerprinting](#) in their DirectLink integration.

A tracking code in HTML, consisting of CSS, JavaScript and flash, must be sent. The code must be inserted into the header of a webpage which will be loaded when the customer's machine visits the site. The page should ideally only be loaded once during a user session, and be a page where the user remains for 5 seconds or more; most probably this will be the page where the user enters his payment details.

This HTML code is associated with a unique temporary and random session identifier (sid), which is generated by you in the way as described in the table below.

| Parameter | Explanation  | Example                                 |
|-----------|--|---|
| sid       | <p>The Unique Identifier of a user session.</p> <p>The concatenation of the values of respectively the PSPID and ORDERID are calculated in the MD5 format, resulting a 32-digit hexadecimal hash string.</p> | <i>ec4dfe7e880e374071e2728c3711c3a8</i> |
| aid       | <p>The ID of Tracker Application Account.</p> <p>This is always the same (fixed) value: 10376</p>  |   |

Below is an example of what the code snippet will look like. You will need to update the "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX" in the sample below with a unique user session identifier in MD5 format.

```
<script type="text/javascript" async="true" src="https://elistva.com/api/script.js?
aid=10376&sid=XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"></script >
<noscript ><p style="background: url(//elistva.com/api/assets/clear.png?
aid=10376&sid=XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX)"></p></noscript >
<object type="application/x-shockwave-flash" data="//elistva.com/api/udid.swf?
aid=10376&sid=XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX" width="1" height="1">
  <param name="movie" value="//elistva.com/api/udid.swf?
aid=10376&sid=XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX" />
</object >
```

## 8 Appendix: Activity Sectors

In the list below you find the full list of sectors/industries that you can select in the configuration for Fraud Expert Automatic review. Based on the sector name you select, various pre-defined scoring rules and criteria are applied.

| Sector description   | Example   |
|--|---|
| <p><b>Travel &amp; Tourism</b><br/>The business or industry of providing information, accommodations, transportation and other services to tourists.</p> | A very wide industry. It includes Government tourism departments, immigration and customs services, travel agencies, tour operators including airlines & hotel bookings, etc. |
| <p><b>Ticketing</b><br/>Any or all of the processes involved in collecting fares and issuing tickets for any form of transportation and/or event.</p>    | This involves public transport like bus and train industries, movies, events, trade shows, etc.   |
| <p><b>Shopping</b><br/>The process whereby consumers directly buy goods or services from a seller in real-time.</p>                                      | All e-commerce websites and portals selling electronic products like PC, laptops, mobile phones, garments, etc.   |
| <p><b>Gifting</b><br/>A voluntary transfer of property or of a property interest from one individual to another, made gratuitously to the recipient.</p> | Quite common to shopping websites, but involves some specific products like chocolates, cakes, flowers, etc.  |
| <p><b>Web Services</b><br/>Online services delivered from a website.</p>   | Hosting services, application development, shopping cart, domain registration, web design and development.  |
| <p><b>High Risk</b><br/>High-risk segments is a kind of category that is more inclined to encounter fraud.</p>   | N.G.O, charities, donations, etc.   |
| <p><b>Recharge</b><br/>Business that is involved in any recharge of business activities.</p>   | Postpaid/Prepaid mobile recharge, DTH recharge, etc.  |
| <p><b>Regular Service</b><br/>Any organisation providing services to the general public, although it may be privately owned.</p>                         | This includes electricity, gas, telephone, water, television cable systems, health care, consultancy services, etc.   |
| <p><b>Call Centre</b><br/>Is a centralised office used for the purpose of receiving or transmitting a large volume of requests by telephone.</p>         | Tele-shopping/Marketing bookings.   |
| <p><b>Air tickets</b><br/>Business that involves flight ticket booking.</p>  | Direct airlines, associates and booking agents.   |
| <p><b>Hotels &amp; Resorts</b><br/>Popular method of booking rooms.</p>  | Hotels & Resorts accommodations, GDS services and agents.   |

| Sector description   | Example   |
|--|---|
| <p>High-Risk Shopping</p> <p>This category of products are easily resalable.</p> | <p>Luxury/precious items like gold &amp; silver jewellery.</p>                        |
| <p>IT Services</p> <p>Online services that are delivered over the internet.</p>  | <p>Computer support &amp; services, anti-virus updates and downloadable software.</p> |