



# **iSpyFraud Detailed Guide**

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## What is iSpyFraud?

Welcome to the detailed user guide for iSpyFraud, a rule-set based fraud management utility that allows merchants to configure extensive filters to aid in the detection of fraud by screening transactions throughout the processing lifecycle. As it operates in real time, iSpyFraud can decline transactions both before and after authorization, which can potentially mitigate high chargeback volume and offer merchants peace of mind when it comes to their own security, as well as that of their customers.

### **Basic Uses**

Though there are countless ways to use iSpyFraud based on varying scenarios merchants might encounter, there are certain uses of the software that could be considered universally relevant, including:

- 1. Monitoring and controlling transactions during a given timeframe by setting rules based on a combination of many parameters, including the following:
  - a. Transaction count
  - b. Transaction amount
  - c. IP address
  - d. User location
  - e. Credit card number
  - f. Credit card brand
- 2. Limiting internal credit card fraud or abuse attempts
- 3. Blocking transactions from specific countries
- 4. Reviewing suspect transactions in order to take action prior to settlement

The following instructions will aid merchants in choosing the settings that will prove most useful for them depending on the specific needs of their business. In addition to this guide, assistance can be accessed through our support team, which can be reached at (888) 261-1288 from 9 am-5pm MST, or at merchantsupport@ecsuite.com.

## **Getting Started**

When a merchant logs into the gateway, iSpyFraud can be found as a link under "Other Services" on the left side of the page. The link will take the merchant to the program's General tab.

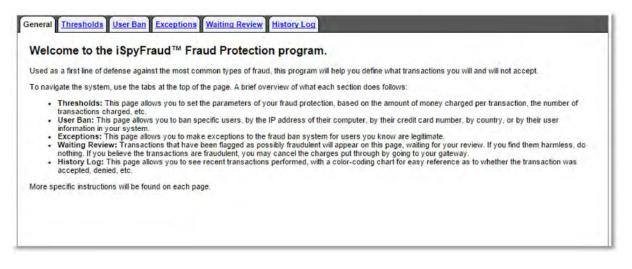
Other than geography bans on transactions from certain countries, there are **no default settings** in place. There are default geography bans on the following countries (as sent in the Country field):

Afghanistan Albania Armenia Azerbaijan Bulgaria Czech Republic India Indonesia Iran (Islamic Republic of) Kazakhstan Kuwait Lithuania Macedonia, the Former Yugoslav Republic of Malaysia Pakistan Romania Russian Federation Turkey Ukraine Viet Nam Yugoslavia

The countries on this list are frequently the origin of fraudulent international transactions. The merchant can remove any of them from the ban list at will (see User Ban tab section for instructions).

## **General Tab**

The General tab gives basic information about what iSpyFraud does and has a brief overview of its contents. Note the tabs at the top of the screen, which browse to different sections within the iSpyFraud console.



## **Thresholds Tab**

The Thresholds tab allows a merchant to set a variety of parameters on attempted or approved transactions, and these rules give the merchant the option to either Flag for Review or Deny Transaction. There are two main sections, titled **Add/Edit Credit Card Rules** and **Add/Edit IP Address Rules**, and the options in each section direct the merchant to set a threshold on a certain aspect of a transaction. These thresholds can be set in a combination of ways to track and/or block certain types of activity that may point to fraud.

For example, there are two rules pertaining to single transaction amount. If the merchant doesn't sell anything under \$20, they can set transactions for anything less than \$20 to be flagged for review or denied. This can help prevent card testing, in which a fraudster might charge small amounts to a large number of credit cards.

In another case, a merchant with a subscription-based business might use the option to limit attempted number of transactions; the merchant can flag for review transactions beyond the initial subscription fee that come from the same IP address within the same day to ensure that they're not fraudulent.

To set thresholds, the merchant simply chooses (if applicable) whether they wish to screen attempted or approved transactions (drop-down), enters the desired values, and then chooses whether the end result of a suspicious transaction should be to flag it for review or deny its approval (dropdown). Once these choices have been made, the merchant clicks "Update." Each rule must be updated individually.

For a more in-depth look at some possible uses of the Thresholds tab, see Use Cases.

roved transactio	ns.	user can input a different credit card number for			
oose whether to it s in the "View/De "Update" button.	elete Limit Rules" sec	ous transactions, or deny them outright. Click the tion. You may also edit the current rules by cha	e "Update" button to nging the parameters	put your Limit Rule in place. You will find s in the "Add/Edit A Limit Rule" section, a	your current nd then click
d/Edit Credit Ca				1 (2010)	
	nsaction amount		ş	Flag for Review •	Update
If single trai	nsaction amount i	s less than	s	Flag for Review •	Update
If daily	Attempted •	transaction amount for CC exceeds	s	Flag for Review •	Update
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If weekly	Attempted *	transaction amount for CC exceeds	s	Flag for Review •	Update
If weekly	Attempted •	transaction count for CC exceeds		Flag for Review •	Update
If monthly	Attempted •	transaction amount for CC exceeds	s	Flag for Review •	Update
If monthly	Attempted •	transaction count for CC exceeds		Flag for Review •	Update
If yearly	Attempted •	transaction amount for CC exceeds	s	Flag for Review •	Update
If yearly	Attempted V	transaction count for CC exceeds		Flag for Review V	Update
If user chan	iges credit card o	ver times for Attempted V	transactions	Flag for Review •	Update
If first	digits of CO	anatch over Attempted •	transactions	Flag for Review •	Update
d/Edit IP Addres	as Rules				
If daily	Attempted *	transaction amount for IP exceeds	\$	Flag for Review •	Update
If daily	Attempted •	transaction count for IP exceeds		Flag for Review	Update
If weekly	Attempted •	transaction amount for IP exceeds	s	Flag for Review •	Update
If weekly	Attempted •	transaction count for IP exceeds		Flag for Review •	Update
If monthly	Attempted •	transaction amount for IP exceeds	s	Flag for Review •	Update
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If yearly	Attempted *	transaction count for IP exceeds		Flag for Review	Update

## **User Ban Tab**

The bans/flags in this tab are considered static, in the sense that they don't depend on the behavior of the user (the consumer). In each section, the merchant chooses what users or types of users to ban/flag, and any transactions originating with those users will either be banned outright or flagged for review, depending on the merchant's selections. Each section gives the option to View current bans and Add new bans. When the merchant clicks to the "View" screen, they also have the option to Delete any currently banned users.

There are seven sections in the User Ban tab:

#### 1. IP Addresses

- a. Merchants can ban/flag a single IP, multiple IPs from the same block, or a range of IPs
- b. Merchants can specify a timeframe (number of days) in which to ban/flag IPs, or make the ban/flag indefinite

#### 2. Credit Cards

- a. Merchants can ban/flag a single credit card number, multiple credit card numbers, or all credit card numbers with matching BINs
- b. Merchant can specify a timeframe (number of days) in which to ban/flag credit card numbers, or make the ban/flag indefinite

#### 3. Geographical Information

- a. Merchants can ban/flag transactions from any country
- b. Merchants can specify a timeframe (number of days) in which to ban/flag a country, or make the ban/flag indefinite
- c. A ban/flag on a specific country will automatically check for any billing/shipping addresses from that country and ban/flag users based on that information, and the merchant can also choose whether or not to verify IP addresses from that country

#### 4. US/Non-US IP Ban

- a. Merchants can choose three actions (Nothing, Ban, or Flag for Review) for transactions that have a billing country of US but a source IP address outside the US
  - i. Unlike with the other sections in this tab, there is no timeframe specified for this ban
  - ii. Merchants who do not send the Country field with their transactions can set a US Country Default, which will assume (for the purposes of this particular ban) that the Billing Country is the US.

#### 5. User Information

- a. Merchants can ban/flag specific customers based on customer user IDs, which merchants can assign via the use of Customer Vault. User IDs outside of Customer Vault can also be submitted by the merchant via API or by providing the billing email in the transaction
- b. Merchants can specify a timeframe (number of days) in which to ban/flag certain users, or make the ban/flag indefinite

#### 6. Email Address

- a. Merchants can ban/flag customers by email address, or ban/flag any customer using an email address with a particular domain
- b. Merchants can specify a timeframe (number of days) in which to ban/flag certain emails or domains, or make the ban/flag indefinite

#### 7. Batch Ban

a. Merchants can upload up to 5000 entries for a specific ban type at once

- b. Types can be chosen using the radio buttons above the Batch Data Box—merchants can select from IP/Range, Credit Card/Bank, User ID, and Email
  - i. Only one type of data may be uploaded at a time
- c. Merchants can specify a timeframe (number of days) in which to ban/flag certain values, or make the ban/flag indefinite

## Note: For any of the IP Address selections to work, the Merchant must collect the public-facing IP address from the consumer and provide it with the transaction.

For a more in-depth look at some possible uses of the User Ban tab, see Use Cases.

				Processor D Processor E address, by credit card number, by country, or by user information.
anned users by clicking t	ble to specify the "View" butt	what information on- the number of	you want to f bans will a	ban. Click the "Add" button to ban a user with that information. You'll be able to view your lists of ppear in parenthesis on the "View" button, as well. In each case, you'll be able to specify how not to automatically ban based on this rule, or to flag it for your review.
or IPs, you can ban a sin lass C block by putting in	gle user by th just the first t this is an extr	eir IP address. S hree placeholder reme measure, a	ome scamn s (the numb	hers, though, like to jump their IP around. If you find this to be the case, you can ban their entire ers between the 'dot's). You can also ban an entire Class B block by putting in the first two suil in your banning many innocent users, as well. It would probably be better to use the IP
or credit cards, you can	ban one card I	by entering the en	ntire numbe	r, or ban cards from an entire set by leaving off the last 4 digits.
				er outside the United States.
inally, you may ban a spe				
				ess at once using the batch ban form.
Addresses				
	111 15	5 10	16	(have a start 17)
L.		5 10		(ban a single IP)
omplete Class C:		-	-1.5	255 IPs from the same block)
complete Class B:		.*.* (b	an 65,025 li	Ps from the same block)
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ake Action:	● Ban ● F	Flag for Review		
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S/Non-US IP Ban	ustomar's b20	na country is est	arad as lic	but the source ID Address is outside the LIS. This rule only social 2 the sustainant willing
Take Action: Add View (147) S/Non-US IP Ban	customer's billi US Country D	ing country is ent refault setting only	ered as US applies to	but the source IP Address is outside the US. This rule only applies if the customer's billing US/Non-US IP Ban.
Fake Action:   Add View (147)   S/Non-US IP Ban   Leject transactions if the country is entered as US.	US Country D	ing country is ent refault setting only an O Flag for F	applies to	but the source IP Address is outside the US. This rule only applies if the customer's billing US/Non-US IP Ban.

User Information		
	Les contra des trais constructions	
Number of Days to Ban:	(Leave blank to keep forever)	
Description:		
Take Action:	Ban Plag for Review	
Add View (0)		
Email Address		la ser en
placing a "" in front of you	that you wish to ban from the system. The system will ban that email address specific r email address. For example, if you want to ban a specific email account, you would mail account, you would type in "@emailaddress.com".	cally. You can choose a "global option" for ban by type in 'someuser@emailaddress.com'. If you want
Email Account:		
Number of Days to Ban:	(Leave blank to keep forever)	
Description:		N
Take Action:	Ban Plag for Review	45
	ban values at once. First choose the type of ban you would like to use, and then entry s to ban (or blank for forever), a description, and action type before clicking the Add	
Type.	S IP/Range Credit Card/Bank User ID Email	
Batch Data:		
Number of Days to Ban:	(Leave blank to keep forever)	
	(Leave blank to keep forever)	A
Number of Days to Ban: Description: Take Action:	(Leave blank to keep forever)	

## **Exceptions Tab**

The Exceptions tab goes hand in hand with the User Ban tab, and is considered the "whitelist" to the User Ban's "blacklist." In other words, merchants can use the Exceptions tab to make concessions for certain known users that would otherwise be banned or flagged under the restrictions in the User Ban tab.

Any exception overrules all other rules. For example, if credit card 411111111111111111 is added to exceptions, the domain @gmail.com is banned, and the country Canada is banned, a transaction using "41111111111111111, test@gmail.com, and Canada" will be approved.

Merchants can create exceptions for

- IP Address
- Credit Card
- User ID
- Email Address

Exception values can also be uploaded using the same process as batch bans.

All Processors	
he White List is	Processor A Processor B Processor C Processor D Processor E a way to make exceptions to your ban parameters. Known good users (whom you know violate the restrictions, but accept them as a valid user
nyway) can be er	ntered here to bypass your restrictions without review. Users can be entered by User ID, email address, credit card, or IP,
	ou may enter the data of your known user, and click the "Add" button to make an exception for this user's specific information. You'll be able to view d users by clicking the "View" button- the number of bans will appear in parenthesis on the "View" button, as well.
dditionally, you m	ay whitelist many IPs/credit cards/user IDs/email addresses at once using the batch white list form.
Address White	List
Address:	
escription:	
Add View (	2)
Credit Card White	: List
Credit Card:	
Description:	
Add View (	0)
ser White List	
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Add View ( Add View ( Batch White List Here you may ent	ter many whitelist values at once. First choose the type of exception you would like to use, and then enter the values in the text area below, one or a description in the appropriate box before clicking the Add button.
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Batch White List Here you may ent	ter many whitelist values at once. First choose the type of exception you would like to use, and then enter the values in the text area below, one or a description in the appropriate box before clicking the Add button.

## **Waiting Review Tab**

Merchants can view and take action on flagged transactions here; merchants can either void transactions that are in waiting review or allow them to settle by indicating that the review is complete. If no action is taken, transactions awaiting review will settle at the time set in the Merchant's Settlement Schedule.

Merchants will be able to see which rule triggered the review.

All Processors Processor A	rocessor B Processor C Processor D Processor E	
	There are 373 transactions awaiting rev	iew.
	ious transactions. If you find them harmless, do nothing. If you believe th	e transactions are fraudulent, you may cancel the
charges put through by going to your	gateway.	
	to the user ID, the credit card number, and the IP address in order to vie it card, a whole bank sequence, a single IP address, or a whole Class C	
	on, put a checkmark in the 'Review Complete' box. At any time, click 'Cle sactions' button to mark all transactions across all pages as reviewed.	ar Reviewed Transactions' to remove all checked
	Clear Reviewed Transactions	
	Clear All Transactions	
	Sort By: [User ID] [Date] [Credit Card] [Amount] [IP] [Country] [Excees Pages: [View All], [1], [2], [3], [4], [5], [6], [7], [8] Viewing: 1 - 50 of 373	ied Threshold)
		Review Complete
Fransaction ID:	2914110006	
Result:	Approved	
Processor:	ProcessorA	
lime:	12/08/2015 08:25:12 AM UTC	
Credit Card Number:	41111 [History]	
	[Ban Credit Card / Credit Card Group ]	
	[Whitelist Credit Card]	
Amount: P Address:	\$10.00	
Jser Country:		
Threshold Exceeded:	Single Transaction Amount Exceeds Limit	
Show Details for this CC/IP.	Single Hansaction Amount Exceeds Link	
		Review Complete
Transaction ID:	2914109966	
Result:	Approved	
Processor:	ProcessorA	
Jser Identifier:	john@example.com [History] [Whitelist User ID]	
User Email:	john@example.com (History) [Whitelist User Email]	
Time:	12/08/2015 08:25:11 AM UTC	
Credit Card Number:	41111 [History]	
	[Ban Credit Card / Credit Card Group ] [Whitelist Credit Card]	
Amount:	\$10.00	
P Address:		
User Country:	US	
Threshold Exceeded: Show Details for this CC/IP:	Single Transaction Amount Exceeds Limit	

## **History Log Tab**

The History Log offers the merchant a searchable record of all transactions scrubbed by iSpyFraud. This log is useful for a merchant who is trying to assess the risk of potential fraud, or to evaluate known fraud patterns. A drop-down menu allows merchants to limit a search by time/date of transaction, and merchants can search by transaction ID, credit card number, email address, or IP address.

The log is color coded by transaction status: Accepted (green), Review (yellow), Exception (blue), or Denied (red). For statuses of Review and Denied, a magnifying glass next to the response status allows merchants to see which rule was triggered.

All Processors	Processo	A	Processor	B Proc	essor C F	rocessor D Pro	cessor E	a contract		town and	-
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Accepted Review	V Denied Ex	cepti	on								
ou may also sea	arch by Tran	sacti	on ID. User	ID. credit o	ard number	, email address, IP	address or	by date and time.			
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					Search	1					
Date (UTC)	Trans. I			Email		Credit Card	Amount	IP Address	Country	Response	Last Action
12/08/15 23:23	29149631	50	john@exam	ple.com (b	an)	41111 (ban)	5.25	209.37.68.130 (ban)		Approved	Approved
12/08/15 23:23	29149629	96	john@exam	ple.com (b	an)	41111 (ban)	1.25	209.37.68.130 (ban)		Approved	Attempted
12/08/15 23:23	29149628	<u>62</u>				41111 (ban)	0.25	209.37.68.130 (ban)		Approved	Attempted
12/08/15 23:22	29149625	35				41111 (ban)	0.25	209.37.68.130 (ban)		Approved	Attempted
12/08/15 21:15	29148328	90	john@exam	ple.com (b	an)	41111 (ban)	55.00	50.76.64.234 (ban)	US	Review	Approved
12/08/15 21:10	29148272	95				41111 (ban)	26.35	50.76.64.234 (ban)	US	Approved	Approved
12/08/15 21:05	29148225	46				41111 (ban)	15.00	50.76.64.234 (ban)	US	Denied	Attempted
12/08/15 21:04	29148217	65				41111 (ban)	10.00	50.76.64.234 (ban)	US	Denied	Attempted
12/08/15 17:00	29145527	09				41111 (ban)	1.00	50.76.64.234 (ban)	US	Denied 🖳	Attempted
12/08/15 16:47	29145350	18				51111 (ban)	1.00	50.76.64.234 (ban)	US	Denied 🖳	Attempted
12/08/15 16:21	29144999	74	iohn@exam	ple.com (b	an)	41111 (ban)	20.00	209.37.68.130 (ban)	-	Approved	Approved
12/08/15 15:59	29144676	39	iohn@ex.am	ple.com (b	an)	41111 (ban)	10.00	209.37.68.130 (ban)		Approved	Approved
12/08/15 15:46	29144510	34				41111 (ban)	10.00	50.76.64.234 (ban)		Denied 🖳	Attempted
12/08/15 08:25	29141101	52				41111 (ban)	1.00		US	Approved	Approved
12/08/15 08:25	29141101	36				40002 (ban)	15.00			Denied 🖳	Attempted
12/08/15 08:25	29141100	87				40002 (ban)	10.00	_		Review 🖳	Approved
12/08/15 08:25	29141100	44				41111 (ban)	10.00	-		Review 🖳	Approved
12/08/15 08:25	29141100	06				41111 (ban)	10.00			Review B	Approved
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12/08/15 08:25	29141099	29				51111 (ban)	5,00	<b>H</b>	US	Approved	Approved
12/08/15 08:25	29141098	31	iohn@exam	ple.com (b	an)	41111 (ban)	1.00		US	Approved	Approved
12/08/15 08:25	29141097	26	iohn@exam	ple.com (b	ani	41111 (ban)	0.01		US	Review 🖳	Attempted
12/08/15 08:25	29141097	02				41111 (ban)	19.99			Denied	Attempted
12/08/15 08:25	29141096	-				41111 (ban)	19.99	1		Denied	Attempted
12/08/15 08:24	29141096	39				31009 (ban)	5.00		US	Approved	Approved
					201 - 2	25 of 397 Record 134679111		16			[Next

## **Frequently Asked Questions**

#### Q: What types of merchants need iSpyFraud?

A: Though all merchants can benefit from the reassurance a fraud scrubbing utility offers, it's true that some merchants are more likely to be targeted by fraudsters than others. For example, merchants who process international transactions are considered higher risk, as are those in certain verticals, such as online gambling, online dating, membership-only websites with adult content, or even unexpected ones like consumer electronics. Non-profits that accept donations are also at risk and can benefit from iSpyFraud, as they are often used by fraudsters for card testing/spinning schemes.

It's also anticipated that as EMV cards become standard in card present transactions, there will be a rise in card not present fraud, meaning more e-commerce merchants will be at risk. iSpyFraud is an ideal solution to combat the predicted spike in online credit card fraud.

#### **Q:** Does iSpyFraud work in card present transactions?

A: Although iSpyFraud was originally designed for e-commerce, it works equally well for card present transactions. The software's thresholds and rules do not discriminate between retail and keyed transactions, nor is the utility's scrubbing ability restricted by transaction origin (API, Virtual Terminal, Batch Upload, etc.).

#### Q: Can iSpyFraud block someone from coming to my website?

A: No, iSpyFraud can only take action on transactions sent to the Gateway. It cannot block activity happening on a website prior to data being sent to the gateway. Merchants can speak to their hosting provider or web developer if they need to block an individual from accessing their website entirely.

## Q: I'd like to use iSpyFraud on my website, but I don't want to use the Gateway to process. Is this possible?

A: No, iSpyFraud is an additional service that can be added onto a gateway account to scrub transactions processing through it. It cannot be used as a standalone service. Merchants must be processing through the gateway to take advantage of the iSpyFraud scrubbing service.