

Stripe & Taxamo

Payments integration

↑ netguru

About me



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- What is Stripe & Taxamo?
- Services integration based on my case
- Useful stuff

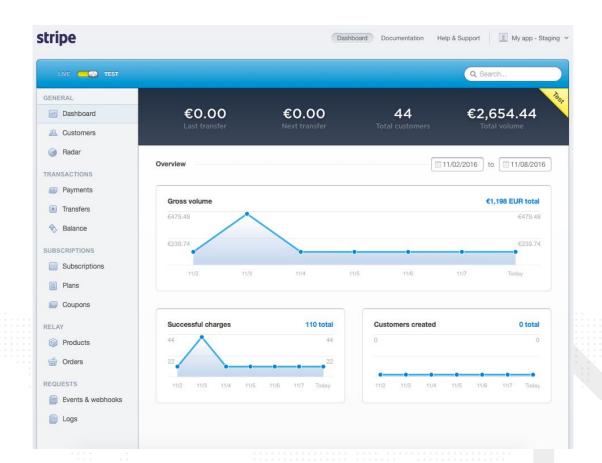
What is Stripe & Taxamo?

Stripe



- Online payments platform
- Developer friendly documentation
- Paid per transaction
- Maintained Ruby client
- 1.4% + 20p for EU cards (2.9% for non-EU)

Stripe

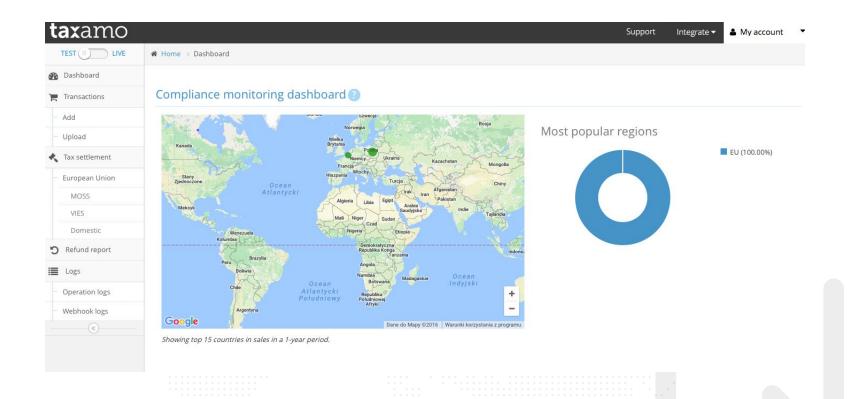


Taxamo



- Global, real-time VAT & tax solution
- Paid monthly/annually
- €25/month or €19/month (up to €10k payments/month)

Taxamo



Case: subscriptions

Subscriptions

- Purchase
- Annulment
- Renewal

Integration - preparing

```
# Gemfile
gem 'stripe'
# config/initializer/stripe.rb
Stripe.api_key = AppConfig.stripe.api_key # secret token
# Examples:
# list charges:
Stripe::Charge.list()
# retrieve single charge
Stripe::Charge.retrieve(
  "ch_123456789",
```

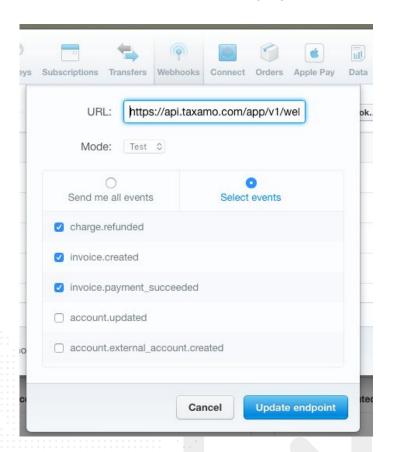
Integration - preparing

```
# Required data
:user
                        # resource owner
:plan
                        # subscription plan type
:tax_percent
                       # tax rate
:stripe_token
                        # stripe transaction key
                        # taxamo transaction key
:taxamo_token
# Required column in User model
create_table "users", force: :cascade do |t|
 t.string "stripe_cid"
end
```

Integration - preparing

URL:

https://api.taxamo.com/app/v1/webhooks/s tripe?public_token=taxamo_public_key

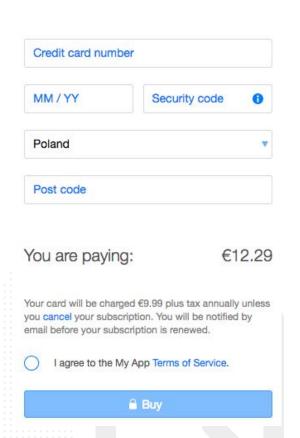


Integration - preparing

For the payment form use **Stripe.js** or **ember-stripe-service**.

Examples of good confirmation data:

- Credit card's country & IP address
- Billing country & IP address
- Billing country & credit card's country



Subscriptions

- Purchase
- Annulment
- Renewal

```
# create_transaction

# delete_other_subscriptions if previous_subscriptions?

# grant_plan
```



```
# create_transaction
## update_card if user.stripe_cid.present?
customer = Stripe::Customer.retrieve(user.stripe_cid)
customer.source = options[:stripe_token]
customer.save
## confirm_transaction
HTTParty.post(
  "https://api.taxamo.com/api/v1/transactions/#{options[:taxamo_token]}/confirm",
 { query: { private_token: AppConfig.taxamo.private_token }
```



```
# create_transaction
## create_subscription
Stripe::Subscription.create(
  customer: user.stripe_cid,
  plan: plan,
  metadata: {
    taxamo_transaction_key: options[:taxamo_token]
  },
  tax_percent: options[:tax_percent]
### if we don't have customer ID
customer_id = Stripe::Customer.create(source: options[:stripe_token], email: user.email).id
user.update(stripe_cid: customer_id)
```



```
# create_transaction

# delete_other_subscriptions if previous_subscriptions?

# grant_plan
```



```
# delete other subscriptions if previous subscriptions?
subscriptions = Stripe::Customer.retrieve(user.stripe cid).subscriptions
subscriptions.to a.drop(1).present?
other subscriptions ids.map do |sub id|
  Stripe::Subscription.retrieve(sub_id).delete
end
# grant plan
account_plan = { plan: plan, currency: currency }
SubscriptionServices::SubscriptionGrantor.new(user: user, new_plan: account_plan).call
```

Subscriptions

- Purchase
- Annulment
- Renewal



Subscription - annulment

```
def cancel subscription
  stripe subscription = Stripe::Subscription.retrieve(subscription id)
  stripe_subscription.delete(at_period_end: true)
 user.active_subscription.update(is_cancelled: true)
end
def subscription id
  customer = Stripe::Customer.retrieve(user.stripe_cid)
 customer.subscriptions.first.id
```

Subscriptions

- Purchase
- Annulment
- Renewal

Subscription - renewal



Add a new webhook with URL:

https://myapp.com/api/v1/subscriptions/events?access_token=your_token

for customer.subscription.updated event

- Handle it in the endpoint
- Don't forget about authorization

Subscription - renewal

```
def call
 user.subscriptions.last.update(end_date: end_date)
end
private
def json_object
 @json_object ||= event_json['data']['object']
end
def user
 customer_id = json_object['customer']
 User.find_by!(stripe_cid: customer_id)
def end_date
  date = json_object['current_period_end']
  Time.at(date)
end
```

Useful stuff

stripe_event

```
gem 'stripe_event'
# config/routes.rb
mount StripeEvent::Engine, at: '/my-chosen-path' # provide a custom path
# config/initializers/stripe.rb
Stripe.api_key = ENV['STRIPE_SECRET_KEY'] # e.g. sk_live_1234
StripeEvent.configure do |events|
  events.subscribe 'charge.failed' do |event|
   # Define subscriber behavior based on the event object
   event.class #=> Stripe::Event
   event.type #=> "charge.failed"
   event.data.object #=> #<Stripe::Charge:0x3fcb34c115f8>
 events.all do |event|
  events.all BillingEventLogger.new(Rails.logger)
  events.subscribe 'customer.created', CustomerCreated.new
 end
end
```

stripe-ruby-mock

```
gem 'stripe-ruby-mock', '~> 2.3.1', require: 'stripe mock'
require 'stripe mock'
describe MyApp do
 let(:stripe helper) { StripeMock.create test helper }
 before { StripeMock.start }
 after { StripeMock.stop }
 it "creates a stripe customer" do
  # This doesn't touch stripe's servers nor the internet!
  # Specify :source in place of :card (with same value) to return customer with source data
  customer = Stripe::Customer.create({
    email: 'johnny@appleseed.com',
    card: stripe_helper.generate_card_token
  })
  expect(customer.email).to eq('johnny@appleseed.com')
 end
end
```

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stripe-ruby-mock

```
stripe_helper.create_plan(my_plan_params)
stripe_helper.delete_plan(my_plan_params)
stripe_helper.generate_card_token(my_card_params)
let(:customer) do
  Stripe::Util.convert_to_stripe_object(
      object: 'customer',
      source: 'source',
      subscriptions: subscriptions_array
let(:stripe_subscription) do
  Stripe::Util.convert_to_stripe_object({ object: 'subscription', id: '1' }, {})
end
```

Links

- Stripe API reference: https://stripe.com/docs/api/ruby
- Taxamo API reference: https://www.taxamo.com/apidocs/
- Stripe-ruby: https://github.com/stripe/stripe-ruby
- Stripe-ruby-mock: https://github.com/rebelidealist/stripe-ruby-mock
- Stripe_event: https://github.com/integrallis/stripe_event
- Taxamo-ruby: https://github.com/taxamo/taxamo-ruby
- Stripe JS reference: https://stripe.com/docs/stripe.js
- Ember-stripe-service: https://github.com/code-corps/ember-stripe-service





Ruby on Rails Development Team

- ~ 80 developers including
 - o ~ 20 seniors
 - o ~10 team leaders



Ruby on Rails Developer must-haves:

- Have a hands-on knowledge of Ruby on Rails, HAML/SASS
- Have knowledge of at least one of JavaScript frameworks (AngularJS/Ember.js, React, jQuery)
- You know how to deal efficiently with databases and various queries
- You have very good command of written and spoken English (minimum
 B2)
- You have experience in direct communication with clients



Juniors are more than welcome! You just need to:

- Have some basic knowledge in Ruby and Ruby on Rails
- Have at least one Rails app on your GitHub account
- Be fluent in English at least B2 level, spoken and written
- Be ready to work at least 35 hours/week, from Monday till
 Friday



How to join our awesome team?

- Step one check our career path and see what level you are netguru.co/career/paths
- Step two apply for the proper position <u>netguru.co/career</u>
- **Step three** take part in our recruitment process solve the task and join us for the remote interview and pair programming
- Step four welcome onboard!



Don't hesitate and join our team!

Any questions regarding recruitment process?

Drop us a line at jobs@netguru.co

Thanks!