



THE PCI-WALLET API

NACHA FILES

<https://pciwallet.simnang.com/>

API SAMPLE

Fork NACHA Files — <https://plnkr.co/edit/gb2fiz>

CAUTIONARY NOTE

The provided API samples store API credentials in the browser

Use the API samples to explore the API and not as your integration

WHY PCI-WALLET API

PCI-Wallet maintains all of the transactional history

Easiest and most efficient way to get NACHA files

All other methods require you to generate the NACHA files yourself

GRABBING LIST OF NACHA PROCESSORS

GET <https://easypay.simnang.com/api/processors/nacha>

Response

```
[
  {
    "id": 37,
    "name": "Sample NACHA account",
    "cutoff_time": 12,
    "bank_routing": "123456789",
    "tax_id": "999999999",
    "bank_name": "The Bank",
    "company_name": "Demo",
    "discretionary_data": ""
  },
  ...
]
```

CREATING A NACHA FILE

Use the NACHA Processor ID from the NACHA Processor List to send a
POST Request

```
POST https://easypay.simnnag.com/api/nacha
```

```
{  
  "processor":37  
}
```

Server will respond OK, but the file won't be ready yet

CHECKING THE STATUS

POST https://easypay.simnang.com/api/search/nacha_export

```
{
  "search":
  {
    "query":
    {
      "filtered":
      {
        "filter":
        {
          "bool":
          {
            "must":
            [
              {
                "range":
                {
                  "created":
                  {
                    "gte": "2017-05-01 00:00:00",
                    "lte": "2017-05-01 23:59:59"
                  }
                }
              }
            ]
          }
        }
      }
    }
  }
}
```

ELASTICSEARCH QUERY

PCI-Wallet uses the **ElasticSearch query language**

- Use **bool** to encapsulate the query
- Use **must** to encapsulate what's required
- Use **should** to encapsulate "at least one"
- Use **not** to encapsulate "I don't want this"

BOOL OBJECT

bool is used to represent that the child object will return *true* or *false*

```
"bool":{  
  "must":[  
    {  
      ...  
    }  
  ]  
}
```

Either *true* or *false* will be returned

MUST OBJECT

must states that all children objects must be true

- (think of it as an AND gate)

```
"must": [  
  {  
    "match": {  
      ...  
    }  
  },  
  {  
    "nested": {  
      "match": {  
        ...  
      }  
    }  
  }  
]
```

Both the entity *and* the nested entity need to match

SHOULD OBJECT

should states that at least one child object must be true

- (think of it as an OR gate)

```
"should": [  
  {  
    "match": {  
      ...  
    }  
  },  
  {  
    "nested": {  
      "match": {  
        ...  
      }  
    }  
  }  
]
```

Either the entity *or* the nested entity need to match

NOT OBJECT

not states that the child must be false in order to return true

- (think of it as an NOT gate)

```
"not":{  
  "must":[  
    {  
      "match":{  
        ...  
      }  
    }  
  ]  
}
```

The entity should *not* match

MORE RESOURCES

The query language is rather complex, allowing exact matches, query strings, regex, etc.

For a full list of options in LoanPro, see the article [API Query objects](#)

STATUS RESPONSE

The list of exports will look similar to the following:

```
{
  "result": {
    "took": 1,
    "timed_out": false,
    "_shards": {
      "total": 5,
      "successful": 5,
      "failed": 0
    },
    "hits": {
      "total": 1,
      "max_score": 1,
      "hits": [
        {
          "_index": "46",
          "_type": "nacha_export",
          "_id": "130",
          "_score": 1,
          "_source": {
            "key": "easypay-nacha-export/production/46/2017-05-05/NACHA-export-Nacha1-201",
            "created": "2017-05-05",
            "name": "Nacha1"
          }
        }
      ]
    }
  }
}
```

We are mainly concerned with the **uuid** values, so keep track of those

DOWNLOADING THE NACHA FILE

To download the NACHA file, send a GET request to the following:

`https://easypay.simnang.com/api/nacha/report/<uuid here>`

Replace **<uuid here>** with your uuid.

Our example would look like:

`https://easypay.simnang.com/api/nacha/report/1379c40e-3f31-4f29-a573-b6c3550e2c60`

QUESTIONS?

Feel free to ask in our [Forums](#)

Or, email us at support@simnang.com