



# CRM JSON API

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## Document Version

Version	Date	Change
1	06/05/2015	Initial draft
2	13/11/2017	Validate Payment method

## Introduction

- RESTful JSON over https.
- UTF-8 encoding.
- Date format: ISO8601 UTC, yyyy-MM-dd'T'HH:mm:ssz e.g. 2015-05-23T00:00:00UTC.
- Amounts must be in the format 0.00 e.g. 1000.00
- API user is created under the General Settings tab -> Staff Management -> Create User. Select API User checkbox.
  - Api Key will automatically be generated.
  - Must have the Client role selected.
  - Enter a password and save.

## Http Post Parameters

Http Request	Description
apikey	Created in staff management in the General Settings tab.  This must be set in the <b>http header request</b> for each call.
password	Created in staff management in the General Settings tab.  This must be set in the <b>http header request</b> for each call.
Http content	Mime Type: application/json  The JSON message in UTF-8 text format.

## Client:

### Add

Post URL:

<https://secure.billdozer.com/api/rest/client/add>

Sample JSON request:

```
{
  "legalEntity": false,
  "accountNumber": "ROB001",
  "title": "Mr",
  "initials": "RJ",
  "firstName": "Robert",
  "lastName": "Pretorius",
  "name": "Robert Pretorius",
  "openBalance": 100.00,
  "openBalanceDate": "2017-08-01T00:00:00UTC",
  "dob": "1975-03-13T00:00:00UTC",
  "occupation": "",
  "gender": "M",
  "identityNumber": "7503135046080",
  "emailAddress": "robert@billdozer.com",
  "companyName": null,
  "tradingAsName": null,
  "vatNumber": null,
  "flag": "",
  "flag2": "",
  "registrationNumber": null,
  "notifyEmail": true,
  "clientTelephones": [
    {
      "type": "MOBILE",
      "number": "0741146632",
      "description": ""
    }
  ],
  "clientAddresses": [
    {
      "type": "STREET",
      "line1": "11 Vondel Road",
      "line2": "",
      "line3": "Edgemead",
      "line4": "",
      "city": "Cape Town",
      "postCode": "7441",
      "country": "ZA",
      "gps": ""
    }
  ],
  "additionalProperties": {
    "updateIfExistingClient": true //Update the client based on
    //provided email address or
    //account number. If more than one
    //client is found on email address
    //the latest client will updated
  },
  "testMode": false
}
```

Sample JSON response:

**Failed:**

```
{
  "id":null,
  "status":"NOK",
  "messages":[
    "Client account number already exists."
  ],
  "additionalProperties":{
    "isTestMode":true
  }
}
```

**Success:**

```
{
  "id":"6301",
  "status":"OK",
  "messages":[]
},
"additionalProperties":{
  "accountNumber":"ROB001",
  "isTestMode":false
}
}

{
  "id":"0",
  "status":"OK",
  "messages":[]
},
"additionalProperties":{
  "accountNumber":"ROB001",
  "isTestMode":true,
  "resultJson":"{ full client object returned in json format }"
}
}
```

## Response Parameter Listing:

Name	Description
id	The id of the object updated or created in the system. If status is NOK then this value will be set to 0.
status	OK or NOK
messages	If status is NOT then a String list will be returned of errors.
additionalProperties	Name value pair list.
↳ accountNumber	String. The account number of the transaction created or updated. If status is NOK then this value will be set to null.
↳ testMode	Boolean. The test mode in the post request.
↳ resultJson	String. Encoded json of the transaction created. Used for debugging. This is only returned if the status is OK and testMode is true.

## Get

Get URL:

<https://secure.billdozer.com/api/rest/client/get/{id}>

## List

Get URL:

<https://secure.billdozer.com/api/rest/client/list>

Response:

```
{
  "status": "OK", // OK or NOK
  "message": null, // Error message
  "type": "Client",
  "page": 1,
  "perPage": 15,
  "totalResults": 4390,
  "results": [ // Client list
  ]
}
```

## List Clients Filters

Following parameters must be put into the Http Header

Http Header Parameter	Description
page	Integer. Required. The page of results to return.
perPage	Integer. Required. The number of results per page to return. Max 100
fromDateTime	DateTime. Optional. Return all clients created or modified from this date and time UTC.
goodStandingMarker	String. Optional  Values:  <b>IGS</b> (In Good Standing, this includes any clients who have no overdue invoices, including new clients who have only recently been invoiced)  <b>IGSWPI</b> (In Good Standing with paid invoices. This is a subset of the in good standing list, i.e. those with at least 1 successful payment)  <b>IGSWNOPI</b> (In Good Standing with NO paid invoices. This is a subset of the in good standing list, i.e. those who are new)
numberOfDaysAfterDueDate	Numeric. Optional. Default it is set to 5.  This is linked to the goodStandingMarker parameter. It is meaningless if the goodStandingMarker is not set.  Its primary purpose is to reflect payment terms. E.g. you might have an invoice that is due on the 1 <sup>st</sup> of the month. But you wish to give some leeway before excluding them from good standing as the payment terms might be 30 days.

## Parameter Listing:

\*Flag: O = Optional, R = Required

Name	Flag	Availability		Description
id			get	Long. Unique id of this client.
active		update	get	Boolean: Is the client active or not.
legalEntity	R	add/ update	get	Boolean. Is this client a legal entity or a natural person.
accountNumber	O	add/ update	get	String. Unique account number. If no account number is supplied then an automatic account number concatenating the first 3 digits of the clients name and a sequential counter. E.g. clients name Robert Pretorius. Very first account number will be ROB1.
title	O	add/ update	get	String. Title
initials	O	add/ update	get	String. Initials
firstName	O/R	add/ update	get	String. Required if a natural person.
lastName	O/R	add/ update	get	String. Required if a natural person.
name	O/R		get	String. If a natural person then it is the concatenated first and last name. If a legal entity then the companyName.
openBalance			get	Amount. The outstanding balance.
openBalanceDate			get	Date. Date the outstanding balance was calculated
dob	O	add/ update	get	Date. Date of birth. E.g. 1975-03-13T00:00:00UTC
occupation	O	add/ update	get	String
gender	O	add/ update	get	String. M – Male, F – Female.
identityNumber	O	add/ update	get	String. ID number. Will automatically be validated if provided.
emailAddress	O/R	add/ update	get	Required if notifyEmail is true and is a natural person.
companyName	R	add/ update	get	String. Required if legal entity.
tradingAsName	O	add/ update	get	String. Trading as name.
vatNumber	O	add/ update	get	String. Vat registration number.
flag	O	add/ update	get	String. Category grouping.
flag2	O	add/ update	get	String. Category2 grouping.
registrationNumber	O	add/ update	get	String. Company registration number.
notifyEmail	O	add/ update	get	Boolean. If a natural person and want this client to automatically receive invoices, receipts, debit notes and statement notifications via email.
testMode	O	add/ update	get	Boolean. Default false. If set to true then additions and updates are not committed to the database. The transaction id and reference will also not automatically created. “resultJson” property will also be returned in the Response which contains the full json of the transaction object for debugging.
clientTelephones	O	add/ update	get	An array of telephones

Name	Flag	Availability		Description
↳ id			get	The id of the telephone line
↳ type	R	add/ update	get	String. The type of telephone object. Either "LANDLINE", "MOBILE", "FACSIMILE", "ALT"
↳ number	R	add/ update	get	String. Telephone number.
↳ description	O	add/ update	get	String. Description.
clientAddresses	O	add/ update	get	An array of addresses
↳ id	R	add/ update	get	Long. The unique id of the contract to perform a lookup.
↳ type	R	add/ update	get	String. Either: "STREET", "POSTAL", "BILLING", "WORK"
↳ line1	R	add/ update	get	String. Line 1, Required.
↳ line2	O	add/ update	get	String. Line 2
↳ line3	O	add/ update	get	String. Suburb.
↳ line4	O	add/ update	get	String Line 4.
↳ city	O	add/ update	get	String. City.
↳ postCode	O	add/ update	get	String. Zip, Postal Code.
↳ country	O	add/ update	get	String ISO 3166 2 digit country code. <a href="http://27.org/isocountrylist/">http://27.org/isocountrylist/</a> Example. ZA for South Africa.
↳ gps	O	add/ update	get	String. Gps coordinates.
additionalProperties	O	add/ update	get	Name value pair list. Used for future requirements,
↳ updateIfExistingClient	O	add		Updates the client based on the provided email address or account number. If more than one client is found on email address the latest client will be updated
↳ updateIfExistingClient	O		get	This parameter will only be set if the goodStandingMarker has been set in the http header.  This will provide a pipe delimitator list of all the item codes that the client is subscribed to.



## Portal User:

### Get

A Portal User is a user account that is given to a consumer / customer in order to access the client zone. The client zone enables consumers to view and download their invoices.

This function returns the registration key for a Portal User so they can be signed into the client zone. The user is identified by their email address

Get URL:

<https://secure.billdozer.com/api/rest/portaluser/registrationkey/{email Address}>

Sample JSON response:

Failed:

```
{
  "id":null,
  "status":"NOK",
  "messages":["Cannot find any Active Portal users with email address
zzz@billdozer.com"],
  "additionalProperties":{}}
}
```

Success:

```
{
  "id":
  "d":"f6f8d740-4fe8-461a-b740-bfd1d321da35",
  "status":"OK",
  "messages":["Registration key for toby@billdozer.com"],
  "additionalProperties":{}}
}
```

### Redirect user to Portal

Once you have the registration key you can re-direct the user the Billdozer clientzone:

<https://secure.billdozer.com/portal/pages/secure/view?registrationKey=0c5ae7e9-d29d-4074-9d0f-45388d1151a6>

## Contact:

### Add

Post URL:

<https://secure.billdozer.com/api/rest/contact/add>

Sample JSON request:

```
{
  "client":{
    "id":6301
  },
  "title":"Mr",
  "jobTitle":"IT Architect",
  "initials":"RJ",
  "firstName":"Bobby",
  "lastName":"Pretorius",
  "name":"Bobby Pretorius",
  "dob":"1975-03-13T00:00:00UTC",
  "gender":"M",
  "occupation":"Consultant",
  "idNumber":"7503135046080",
  "relationship":"",
  "companyName":"Spartan IT Services",
  "emailAddress":"bobbypretorius@gmail.com",
  "landline":"0215581234",
  "fax":"",
  "mobile":"0741146632",
  "line1":"11 Vondel Road",
  "line2":"",
  "town":"Edgemead",
  "city":"Cape Town",
  "state":"Western Cape",
  "postCode":"7441",
  "country":"ZA",
  "notifyEmail":true,
  "testMode":false,
  "additionalProperties":{
  }
}
```

Sample JSON response:

### Failed:

```
{
  "id":null,
  "status":"NOK",
  "messages":[
    "Please enter the contacts first name."
  ]
}
```

```
    ],  
    "additionalProperties":{  
        "isTestMode":true  
    }  
}
```

Success:

```
{  
    "id":"59063",  
    "status":"OK",  
    "messages": [  
  
    ],  
    "additionalProperties":{  
        "isTestMode":false  
    }  
}  
  
{  
    "id":"0",  
    "status":"OK",  
    "messages": [  
  
    ],  
    "additionalProperties":{  
        "isTestMode":true,  
        "resultJson":"{ full client contact object returned in json  
format }"  
    }  
}
```

Response Parameter Listing:

Name	Description
id	The id of the object updated or created in the system. If status is NOK then this value will be set to 0.
status	OK or NOK
messages	If status is NOT then a String list will be returned of errors.
additionalProperties	Name value pair list.
↳ testMode	Boolean. The test mode in the post request.
↳ resultJson	String. Encoded json of the transaction created. Used for debugging. This is only returned if the status is OK and testMode is true.

## Parameter Listing:

\*Flag: O = Optional, R = Required

Name	Flag	Availability		Description
id			get	Long. Unique id of this contact.
client	R	add	get	Client object that this contact belongs to.
↳ id	R	add/ update	get	Long. Client id number.
title	O	add/ update	get	String. Title.
jobTitle				String. Job Title.
initials	O	add/ update	get	String. Initials.
firstName	R	add/ update	get	String. First Name.
lastName	R	add/ update	get	String. Last Name.
name			get	String. Concatenated first and last name.
dob	O	add/ update	get	Date. Date of birth. E.g. 1975-03-13T00:00:00UTC
occupation	O	add/ update	get	String. Contacts occupation.
gender	O	add/ update	get	String. M – Male, F – Female.
idNumber	O	add/ update	get	String. Contacts ID Number.
relationship	O	add/ update	get	String. Relationship to client.
companyName	R	add/ update	get	String. Company contact works for.
emailAddress	O/R	add/ update	get	Required if notifyEmail is true and is a natural person.
landline	O	add/ update	get	String. Telephone landline.
fax	O	add/ update	get	String. Fax number.
mobile	O	add/ update	get	String. Mobile number.
line1	O	add/ update	get	String. Address line 1.
line2	O	add/ update	get	String. Address line 2.
town	O	add/ update	get	String. Address Town/Suburb.
city	O	add/ update	get	String. Address City.
state	O	add/ update	get	String. Address State/Province.
postCode	O	add/	get	String. Address post/zip code.

Name	Flag	Availability		Description
		update		
country	O	add/ update	get	String ISO 3166 2 digit country code. <a href="http://27.org/isocountrylist/">http://27.org/isocountrylist/</a> Example. ZA for South Africa.
notifyEmail	O	add/ update	get	Boolean. If a natural person and want this client to automatically receive invoices, receipts, debit notes and statement notifications via email.
testMode	O	add/ update	get	Boolean. Default false. If set to true then additions and updates are not committed to the database. The transaction id and reference will also not automatically created. "resultJson" property will also be returned in the Response which contains the full json of the transaction object for debugging.
additionalProperties	O	add/ update	get	Name value pair list. Used for future requirements,

## Payment Method:

### Validate

Post URL:

<https://secure.billdozer.com/api/rest/paymentMethod/validate>

Sample JSON request for **CREDIT CARD**:

```
{
  "type": "CREDIT CARD",
  "bankName": "",
  "bankSortCode": "",
  "bankAccountNumber": "",
  "bankAccountName": "",
  "accountType": "",
  "cardNumber": "4242424242424242",
  "cardName": "RJ Pretorius",
  "cardExpiryMonth": 7,
  "cardExpiryYear": 2018,
  "cardExpired": false,
  "cardType": "VISA",
}
```

Sample JSON response:

**Failed:**

```
{ "id": null,
  "status": "NOK",
  "messages": [ "Please enter the Card Number." ],
  "additionalProperties": { "isTestMode": true }
}
```

**Success:**

```
{ "id": null,
  "status": "OK",
  "messages": [ ],
  "additionalProperties": { "isTestMode": false }
}
```

Sample JSON request for **BANK ACCOUNT**:

```
{
  "type": "BANK ACCOUNT",
  "bankName": "FIRST NATIONAL BANK",
  "bankSortCode": "250655",
  "bankAccountNumber": "62401258274",
  "bankAccountName": "Spartan IT Services",
  "accountType": "1",
  "cardNumber": "",
  "cardName": "",
  "cardExpiryMonth": "",
  "cardExpiryYear": "",
  "cardExpired": false,
  "cardType": ""
}
```

Sample JSON response:

**Failed:**

```
{ "id":null,
  "status":"NOK",
  "messages":["Account number failed check digit validation"],
  "additionalProperties":{"isTestMode":false}
}
```

**Success:**

```
{ "id": null,
  "status":"OK",
  "messages":[ ],
  "additionalProperties":{" isTestMode":false }
}
```

### Parameter Listing:

\*Flag: O = Optional, R = Required

Name	Flag	Description
type	R	String. Either “BANK ACCOUNT” or “CREDIT CARD”
bankName	O/R	String. Required if type = “BANK ACCOUNT”. Bank name code combination: 'ABSA BANK' 'FIRST NATIONAL BANK SOUTH AFRICA' 'NEDBANK SOUTH AFRICA' 'STANDARD BANK SOUTH AFRICA' 'CAPITEC BANK' 'AFRICAN BANK' 'INVESTEC BANK' 'MTN BANKING' 'POSTBANK' 'MEEG BANK'
bankSortCode	O/R	String. Required if type = “BANK ACCOUNT”. See above.
branchName	O	String. Required if type = “BANK ACCOUNT”. Branch Name.
bankAccountNumber	O/R	String. Required if type = “BANK ACCOUNT”. Bank account number.
bankAccountName	O/R	String. Required if type = “BANK ACCOUNT”. Bank account name. <b>The field cannot contain special characters only A-Za-z.</b>
accountType	O/R	String. Required if type = “BANK ACCOUNT”. Values: 1 = Current / Checking 2 = Savings 3 = Transmission
cardNumber	O/R	String. Required if type = “CREDIT CARD”. Credit card number.
cardName	O/R	String. Required if type = “CREDIT CARD”. <b>Name on the card. Cannot contain any special characters.</b>
cardExpiryMonth	O/R	Integer. Required if type = “CREDIT CARD”. Card expiry month.
cardExpiryYear	O/R	Integer. Required if type = “CREDIT CARD”. Card expiry year.
cardType	R	MASTERCARD, VISA, AMEX, DINERS



## Add

Post URL:

<https://secure.billdozer.com/api/rest/paymentMethod/add>

Sample JSON request:

```
{
  "client":{
    "id":6301
  },
  "type":"CREDIT CARD",
  "bankName":"FIRST NATIONAL BANK SOUTH AFRICA",
  "bankSortCode":"250655",
  "branchName":"",
  "bankAccountNumber":"62401258274",
  "bankAccountName":"Spartan IT Services",
  "accountType":"1",
  "cardNumber":"5223630001065071",
  "cardName":"T Hewlett",
  "cardCvv":"041",
  "cardExpiryMonth":4,
  "cardExpiryYear":2019,
  "cardExpired":false,
  "cardType":"MASTERCARD",
  "dateValidated":"2014-07-29T15:10:33UTC",
  "dateVerified":"2014-07-29T15:10:33UTC",
  "verify":false }
}
```

Sample JSON response:

### Failed:

```
{
  "id":null,
  "status":"NOK",
  "messages":[
    "Please enter the Card Number."
  ],
  "additionalProperties":{
    "isTestMode":true
  }
}
```

### Success:

```
{
  "id":" 59064",
  "status":"OK",
  "messages":[]
},
  "additionalProperties":{
    "isTestMode":false
  }
}

{
  "id":"0",
  "status":"OK",
  "messages":[]
}
```

```

    },
    "additionalProperties":{
        "isTestMode":true,
        "resultJson":"{ full client object returned in json format }"
    }
}

```

Response Parameter Listing:

Name	Description
id	The id of the object updated or created in the system. If status is NOK then this value will be set to 0.
status	OK or NOK
messages	If status is NOT then a String list will be returned of errors.
additionalProperties	Name value pair list.
↳ testMode	Boolean. The test mode in the post request.
↳ resultJson	String. Encoded json of the transaction created. Used for debugging. This is only returned if the status is OK and testMode is true.

## Parameter Listing:

\*Flag: O = Optional, R = Required

Name	Flag	Availability		Description
id			get	Long. Unique id of this payment method.
client	R	add	get	Client object that this contact belongs to.
↳ id	R	add/ update	get	Long. Client id number.
type	R	add/ update	get	String. Either “BANK ACCOUNT” or “CREDIT CARD”
bankName	O/R	add/ update	get	String. Required if type = “BANK ACCOUNT”. Bank name code combination: 'ABSA BANK' code '632005' 'FIRST NATIONAL BANK SOUTH AFRICA' code '250655' 'NEDBANK SOUTH AFRICA' branch/sort code '198765' 'STANDARD BANK SOUTH AFRICA' code '051001' 'CAPITEC BANK' code '470010' 'AFRICAN BANK' code '430000' 'INVESTEC BANK' code '580105' 'MTN BANKING' code '490991' 'POSTBANK' code '460005' 'MEEG BANK' code '470010'
bankSortCode	O/R	add/ update	get	String. Required if type = “BANK ACCOUNT”. See above.
branchName	O	add/ update	get	String. Required if type = “BANK ACCOUNT”. Branch Name.
bankAccountNumber	O/R	add/ update	get	String. Required if type = “BANK ACCOUNT”. Bank account number.
bankAccountName	O/R	add/ update	get	String. Required if type = “BANK ACCOUNT”. Bank account name. The name of the account holder for the homing bank account. This will in most cases be the same as the “Account Name” field. This will be different in some situations e.g.: Your client wants? you to debit/credit his business account instead of his personal account, thus, the Bank Account Name will be his business name. <b>The field cannot contain special characters only A-Za-z.</b>
accountType	O/R	add/ update	get	String. Required if type = “BANK ACCOUNT”. Values: 1 = Current / Checking 2 = Savings 3 = Transmission
cardNumber	O/R	add/	get	String. Required if type = “CREDIT CARD”.

Name	Flag	Availability		Description
		update		Credit card number.
cardLast4Digits	O/R	add/ update	get	This is the last 4 digits of the card number.
reference	O/R	add/ update	get	This is the token received from the Payment Gateway.
cardName	O/R	add/ update	get	String. Required if type = "CREDIT CARD". <b>Name on the card. Cannot contain any special characters.</b>
cardCvv	O	add/ update	get	Integer. Optional. Card cvv number.
cardExpiryMonth	O/R	add/ update	get	Integer. Required if type = "CREDIT CARD". Card expiry month.
cardExpiryYear	O/R	add/ update	get	Integer. Required if type = "CREDIT CARD". Card expiry year.
cardExpired			get	Boolean. Is the card expired.
cardMaskDigits			get	String. Required if type = "CREDIT CARD". Masked card digits after token is created.
cardType	R	add		MASTERCARD, VISA, AMEX, DINERS
verify	O	add/ update	get	Boolean. True if the bank account must be verified.
dateValidated			get	Date. The date the bank account was validated.
dateVerified			get	Date. The date the bank account was verified.
testMode	O	add/ update	get	Boolean. Default false. If set to true then additions and updates are not committed to the database. The transaction id and reference will also not automatically created. "resultJson" property will also be returned in the Response which contains the full json of the transaction object for debugging.

## Mark for Debit Order

This function will set the collect on contract marker to true on the repeating invoices for the customer.

URL: <https://secure.billdozer.com/api/rest/client/markDebitOrder>

Method: POST

Sample request:

```
{
  "client": {
    "id" : 316451,
    "accountNumber" : null
  },
  "markForDebitOrderFlag": true,
  "debitOrderDay": "12",
  "batchUnpaid": true,
  "daysOverdue": 30,
  "testMode": false,
  "ipAddress" : "127.0.0.1",
  "userAgent" : "Mozilla",
  "agreedBy" : "Toby Hewlett"
}
```

Sample success response:

```
{
  "id": 1,
  "status": "OK",
  "messages": [],
  "additionalProperties": {
    "isTestMode": false
  }
}
```

Sample failure response:

```
{
  "id": 2,
  "status": "NOK",
  "messages": [
    "No client found for id: 2"
  ],
  "additionalProperties": {
    "isTestMode": false
  }
}
```



## Contract:

### Add

Post URL:

<https://secure.billdozer.com/api/rest/contract/add>

Sample JSON request:

```
{
  "client":{
    "id":6301
  },
  "contractNumber":"ROB001",
  "mandate":{
    "paymentMethod":{
      "id":55062
    },
    "debitDay1":"1",
    "daySaturday":6,
    "daySunday":6
  },
  "startDate":null,
  "endDate":null,
  "description":null,
  "currency":"ZAR",
  "active":true,
  "testMode":false,
  "additionalProperties":{
  }
}
```

Sample JSON response:

### Failed:

```
{
  "id":null,
  "status":"NOK",
  "messages":[
    "Please enter a Contract Number."
  ],
  "additionalProperties":{
    "isTestMode":true
  }
}
```

### Success:

```
{
  "id":"59102",
  "status":"OK",
}
```

```
"messages": [
],
"additionalProperties":{
  "contractNumber":"ROB001",
  "isTestMode":false
}
}
{
  "id":"0",
  "status":"OK",
  "messages": [
],
"additionalProperties":{
  "contractNumber":"ROB001",
  "isTestMode":true,
  "resultJson":"{ full contract object returned in json format
}"
}
}
```



Response Parameter Listing:

Name	Description
id	The id of the object updated or created in the system. If status is NOK then this value will be set to 0.
status	OK or NOK
messages	If status is NOT then a String list will be returned of errors.
additionalProperties	Name value pair list.
↳ contractNumber	String. The contract number of the transaction created or updated. If status is NOK then this value will be set to null.
↳ testMode	Boolean. The test mode in the post request.
↳ resultJson	String. Encoded json of the transaction created. Used for debugging. This is only returned if the status is OK and testMode is true.

## Parameter Listing:

\*Flag: O = Optional, R = Required

Name	Flag	Availability		Description
id			get	Long. Unique id of this payment method.
client	R	add	get	Client object that this contact belongs to.
↳ id	R	add	get	Long. Client id that this contract must be created for.
contractNumber	O	add/ update	get	String. Unique contract number. If a contract number is not supplied then the client's accountNumber will be used.
mandate	O	add/ update	get	Mandate object
↳ paymentMethod	O/R	add	get	Payment Method object. Required if the mandate debitDay1 has a value.
↳↳ id	R	add	get	Long. The id of the payment method to be assigned to this contract.
↳ debitDay1	O	add/ update	get	String. The day of the month the debit order must be collected. Values: 1 – 30 or Last day
↳ daySaturday	O	add/ update	get	Integer. Values: 6 = Friday, 2 = Monday. If debit order collection day falls on a Saturday, then collect either on the Friday or Monday.
↳ daySunday	O	add/ update	get	Integer. Values: 6 = Friday, 2 = Monday. If debit order collection day falls on a Sunday or public holiday, then collect either on the Friday/Preceding day or Monday.
startDate	O	add/ update	get	Date. Start date of the contract.
endDate	O	add/ update	get	Date. End date of the contract.
description	O	add/ update	get	String. Description.
currency	R	add/ update	get	String. Currency in ISO 4217 format charged in. e.g. ZAR. If not supplied will default to the default currency set in the General Settings tab.
active	R	add/ update	get	Boolean. Contract active. When a new contract is added the default is True.
testMode	O	add/ update	get	Boolean. Default false. If set to true then additions and updates are not committed to the database. The transaction id and reference will also not automatically created. "resultJson" property will also be returned in the Response which contains the full json of the transaction object for debugging.
additionalProperties	O	add/ update	get	Name value pair list. Used for future requirements,

## Sample Java code:

```
public void testAddClient() {
    DefaultHttpClient httpClient = new DefaultHttpClient();
    try {
        URI url = new URIBuilder().setPath("https://secure.billdozer.-
com/api/rest/client/add").build();

        HttpPost httpPost = new HttpPost(url);

        httpPost.setHeader("apikey", "xyz");
        httpPost.setHeader("password", "xyz");

        StringEntity input = new StringEntity("{json formatted re-
quest}");
        input.setContentType(MediaType.TEXT_PLAIN);
        httpPost.setEntity(input);

        HttpResponse httpResponse = httpClient.execute(httpPost);
        if (httpResponse.getStatusLine().getStatusCode() != 200) {
            result = httpResponse.getStatusLine().getStatusCode() +
" " + httpResponse.getStatusLine().getReasonPhrase();
            HttpEntity httpEntity = httpResponse.getEntity();
            result = result + ": " + EntityUtils.toString(httpEn-
tity);
        }
        return;
    }

    HttpEntity httpEntity = httpResponse.getEntity();
    result = EntityUtils.toString(httpEntity);

    ObjectMapper objectMapper = new ObjectMapper();
    com.billdozer.model.api.Response response = objectMapper.read-
Value(result, com.billdozer.model.api.Response.class);

    System.out.println(response.toString());

} catch (Exception e) {
    e.printStackTrace();
} finally {
    httpClient.getConnectionManager().shutdown();
}
}
```