




Social and Transaction API Documentation

Version 1.0.3

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Document Properties

Revision Log

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Updated DateTime->String format;	2012-12-13	1.0.2	Chris Kennedy
Fixed incorrect array formats Update Using A Token	2012-12-18	1.0.3	Chris Kennedy
Update Timestamps to be milliseconds since Unix Epoch (applicable to JSON)	2012-12-19	1.0.4	Chris Kennedy

1.0 API Introduction

1.1 Response Codes

Code	Explanation
200	OK
400	Bad Request
401	Not Authorised
403	Forbidden
405	Method Not Allowed
406	Not Acceptable
408	Timeout

1.2 API Formats

Type	Format	Notes
DateTime	YYYY-MM-DD hh:mm:ss (SOAP) Milliseconds since EPOCH (JSON)	Must always be UTC
DateTime -> String	yyyyMMddhhmmss	Must always be UTC
SocialNetworkType	Facebook Twitter LinkedIn	Enumerator
AddressType	Billing Delivery	Enumerator
StatusType	Init Placed Refunded Rejected Fulfilled Completed Refreshed Payment	Enumerator
ReasonType	System Fraud Complaint Remorse Other	Enumerator

2.0 Authentication API

The Trustev API is secured using Token Authentication. Where an API method requires authentication, a valid token must be provided.

Details of how to retrieve a token are below. Your Username, Password and Application Secret are all available on the Trustev Developer Portal.

2.1 Getting a Token

2.1.1 Format

URL	https://api.trustev.com/v1/Authentication/rest/GetToken
Authentication Required	No
Format	JSON
Method	POST

2.1.2 Request

```
{
  "request":
  {
    "Username" : String,
    "Password" : String,
    "Sha256Hash" : String,
    "Timestamp" : DateTime
  }
}
```

2.1.3 Response

```
{
  "Message" : String,
  "Code" : Int,
  "Token" :
  {
    "Token" : String,
    "ExpireAt" : DateTime
  }
}
```

2.1.4 Creating the Password Hash

The generation of the hashed value required for the Password parameter of the request object is a 2 stage process. This process is as follows:

Stage 1

Create a Sha256Hash of a string in the format of {0}.{1} where {0} is the timestamp being sent in the request (transformed to a string in the specified format), and {1} your password.

Stage 2

Create a Sha256Hash of a string in the format of {0}.{1}, where {0} is the result of Stage 1, and {1} is your Application Secret.

2.1.5 Creating the Request Hash

The generation of the hashed value required for the Sha256Hash parameter of the request object is a 2 stage process. This process is as follows:

Stage 1

Create a Sha256Hash of a string in the format of {0}.{1} where {0} is the timestamp being sent in the request (transformed to a string in the specified format), and {1} your username.

Stage 2

Create a Sha256Hash of a string in the format of {0}.{1}, where {0} is the result of Stage 1, and {1} is your Application Secret.

2.2 Using a Token

Each Token generated is valid for 1 hour from the time of creation. The expiration time of the token is specified in the Token object returned with a succesful GetToken call.

When calling a method or service that requires authenticaiton, you must include both a valid token, and your username in the 'request object'. For example, your reequst, including your authenticated token would be similar to the below:

```
{
  "request" :
  {
    "Token" : String,
    "UserName" : String,
    . . .
    . . .
    . . .
  }
}
```

3.0 Social API

3.1 Add Profile

This API method allows you to share authentication and access information relating to one or more social network accounts. The API will create a new Trustev account for every time is invoked, unless an account already exists for any of the specified social network accounts.

3.1.1 Format

URL	https://api.trustev.com/v1/Social/rest/AddProfile
Authentication Required	Yes
Format	JSON
Method	POST

3.1.2 Request

```
{
  "request" :
  {
    "SocialNetworks":
    [
      {
        "Type" : SocialNetworkType,
        "Id" : String,
        "ShortTermAccessToken" : String,
        "LongTermAccessToken" : String,
        "ShortTermAccessTokenExpiry" : DateTime,
        "LongTermAccessTokenExpiry" : DateTime,
        "Secret" : String
      }
    ]
  }
}
```

3.1.3 Response

```
{
  "Message" : string,
  "Code" : int
}
```


3.2 Update Profile

This API method allows you to update an existing Trustev account with additional social networking accounts. This method requires that a Trustev account exists at least one of the specified social network accounts already attached

3.2.1 Format

URL	https://api.trustev.com/v1/Social/rest/UpdateProfile
Authentication Required	Yes
Format	JSON
Method	POST

3.2.2 Request

```
{
  "request" :
  {
    "Type" : SocialNetworkType,
    "Id" : String,
    "SocialNetworks":
    [
      {
        "Type" : SocialNetworkType,
        "Id" : String,
        "ShortTermAccessToken" : String,
        "LongTermAccessToken" : String,
        "ShortTermAccessTokenExpiry" : DateTime,
        "LongTermAccessTokenExpiry" : DateTime,
        "Secret" : String
      }
    ]
  }
}
```

3.2.3 Response

```
{
  "Message" : string,
  "Code" : int
}
```

3.3 Delete Profile

This API method allows you delete one or many social profile accounts from a Trustev account. This will delete the social network authentication data that has been shared with Trustev, and remove any data relevant to the social profile from Trustev's systems.

3.3.1 Format

URL	https://api.trustev.com/v1/Social/rest/DeleteProfile
Authentication Required	Yes
Format	JSON
Method	POST

3.3.2 Request

```
{
  "request" :
  {
    [
      "SocialNetwork":
      {
        "Type" : SocialNetworkType,
        "Id" : String
      }
    ]
  }
}
```

3.3.3 Response

```
{
  "Message" : string,
  "Code" : int
}
```

4.0 Transaction API

4.1 Add Transaction

This API method allows you to create a transaction. The transaction can be created at any point during the checkout process, and will return a Trustev Profile as a return type. The request object for this API method must contain a Trustev Session Id, which is generated and exposed by Trustev.js. Details of how to obtain this SessionId are details in the Trustev.js Integration Document, or on trustev.com.

4.1.1 Format

URL	https://api.trustev.com/v1/Transaction/rest/AddTransaction
Authentication Required	Yes
Format	JSON
Method	POST

4.1.2 Request

```
{
  "request" :
  {
    "SocialNetwork":
    {
      "Type" : Facebook OR Twitter OR LinkedIn,
      "Id" : String
    },
    "Transaction" :
    {
      "TransactionNumber" : String,
      "Currency" : String,
      "TotalDelivery" : Decimal,
      "TotalBeforeTax" : Decimal,
      "TotalDiscount" : Decimal,
      "TotalTax" : Decimal,
      "Timestamp" : DateTime,
      "Addresses" :
      [
        {
          "Type" : AddressType,
          "FirstName" : String,
          "LastName" : String,
          "Address1" : String,
          "Address2" : String,
          "Address3" : String,
          "City" : String,
          "State" : String,
          "PostalCode" : String,
          "CountryIsoA2Code" : String
        }
      ]
    }
  },
}
```

```
    "Items" :  
    [  
      {  
        "Name" : String,  
        "Url" : String,  
        "ImageUrl" : String,  
        "Quantity" : Int,  
        "TotalBeforeTax" : Decimal,  
        "TotalDiscount" : Decimal,  
        "TotalTax" : Decimal  
      }  
    ],  
    "SessionId" : Guid  
  }  
}
```

4.1.3 Response

```
{  
  "Message" : String,  
  "Code" : Int,  
  "TrustProfile" :  
  {  
    "OverallScore" : Decimal,  
    "BillingAddressScore" : Decimal,  
    "DeliveryAddressScore" : Decimal,  
  }  
}
```

4.2 Add Transaction Status

This API method allows you to update the current status of the specified transaction. A newly created transaction is set to an initialised status. Upon a change in status (ie. succesful completion of order, failed payment, refund of order etc.) the transaction must be updated with the equivalent Trustev status.

4.2.1 Format

URL	https://api.trustev.com/v1/Transaction/rest/AddStatus
Authentication Required	Yes
Format	JSON
Method	POST

4.2.2 Request

```
{
  "request" :
  {
    "TransactionNumber" : String,
    "Status" : StatusType,
    "Reason" : ReasonType,
    "Comment" : String
  }
}
```

4.2.3 Response

```
{
  "Message" : string,
  "Code" : int
}
```

5.0 Sample Integration

