

REST Process Transaction .NET SDK Guide

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Overview

This documents is a brief outline of how to use the REST Process Transaction .NET SDK.

Prerequisite

A Beanstream test account

Visual Studio 2008 and up (.NET Framework 3.5 and up)

Libraries Required

```
using Beanstream;  
using Newtonsoft.Json;
```

Usage and Operations

Purchase

Credit Card

```
Beanstream.MerchantId = 276790000;
Beanstream.Passcode = "6EF5C0Db8E89410E8835433A54f169c2";

var payment = new
{
    order_number = "ABC1234567890",
    amount = 100.00,
    payment_method = "card",
    card = new
    {
        name = "John Doe",
        number = "51000000010001004",
        expiry_month = "12",
        expiry_year = "18",
        cvd = "123"
    },
    billing = new
    {
        name = "John Doe",
        address_line1 = "2659 Douglas Street",
        address_line2 = "302",
        city = "Victoria",
        province = "BC",
        country = "CA",
        postal_code = "V8T4M3",
        phone_number = "2501231234",
        email_address = "johndoe@beanstream.com"
    },
    shipping = new
    {
        name = "John Doe",
        address_line1 = "2659 Douglas Street",
        address_line2 = "302",
        city = "Victoria",
        province = "BC",
        country = "CA",
        postal_code = "V8T4M3",
        phone_number = "2501231234",
        email_address = "johndoe@beanstream.com"
    },
    comments= "create a payment"
};

try
{
    var result = Beanstream.Payments.Create(payment);
}
catch...
```

Payment Profile

```
Beanstream.MerchantId = 276790000;
Beanstream.Passcode = "6EF5C0Db8E89410E8835433A54f169c2";

var payment = new
{
    order_number = "ABC1234567890",
    amount = 100.00,
    payment_method = "payment_profile",
    payment_profile = new
    {
        card_id = 1,
        customer_code = "D675855E81b448a7bF0dD682DF74e613"
    },
    comments= "create a payment"
};

try
{
    var result = Beanstream.Payments.Create(payment);
}
catch...
```

Token (using a token from Legato)

```

Beanstream.MerchantId = 276790000;
Beanstream.Passcode = "6EF5C0Db8E89410E8835433A54f169c2";

var payment = new
{
    order_number = "ABC1234567890",
    amount = 100.00,
    payment_method = "token",
    token = new
    {
        name = "John Doe",
        code = "aaa-91ced41c-a2c0-4b1b-a838-cf62bbfdda02"
    },
    billing = new
    {
        name = "John Doe",
        address_line1 = "2659 Douglas Street",
        address_line2 = "302",
        city = "Victoria",
        province = "BC",
        country = "CA",
        postal_code = "V8T4M3",
        phone_number = "2501231234",
        email_address = "johndoe@beanstream.com"
    },
    shipping = new
    {
        name = "John Doe",
        address_line1 = "2659 Douglas Street",
        address_line2 = "302",
        city = "Victoria",
        province = "BC",
        country = "CA",
        postal_code = "V8T4M3",
        phone_number = "2501231234",
        email_address = "johndoe@beanstream.com"
    },
    comments= "create a payment"
};

try
{
    var result = Beanstream.Payments.Create(payment);
}
catch...
```

Cash

```
Beanstream.MerchantId = 276790000;
Beanstream.Passcode = "6EF5C0Db8E89410E8835433A54f169c2";

var payment = new
{
    order_number = "ABC1234567890",
    amount = 100.00,
    payment_method = "cash",
    comments= "create a payment"
};

try
{
    var result = Beanstream.Payments.Create(payment);
}
catch...
```

Cheque

```
Beanstream.MerchantId = 276790000;
Beanstream.Passcode = "6EF5C0Db8E89410E8835433A54f169c2";

var payment = new
{
    order_number = "ABC1234567890",
    amount = 100.00,
    payment_method = "cheque",
    comments= "create a payment"
};

try
{
    var result = Beanstream.Payments.Create(payment);
}
catch...
```

Interac (First Request)

```
Beanstream.MerchantId = 276790000;
Beanstream.Passcode = "6EF5C0Db8E89410E8835433A54f169c2";

var payment = new
{
    order_number = "ABC1234567890",
    amount = 100.00,
    payment_method = "interac",
    billing = new
    {
        name = "John Doe",
        address_line1 = "2659 Douglas Street",
        address_line2 = "302",
        city = "Victoria",
        province = "BC",
        country = "CA",
        postal_code = "V8T4M3",
        phone_number = "2501231234",
        email_address = "johndoe@beanstream.com"
    },
    comments= "create a payment"
};

try
{
    var result = Beanstream.Payments.Create(payment);
}
catch...
```

Return

Credit Card

Payment Profile

Cash

Cheque

Interac

Token

```
Beanstream.MerchantId = 276790000;  
Beanstream.Passcode = "6EF5C0Db8E89410E8835433A54f169c2";  
  
var payment = new  
{  
    order_number = "ABC1234567890",  
    amount = 100.00  
};  
  
try  
{  
    var transId = 10000001;  
    var result = Beanstream.Payments.Return(transId , payment);  
}  
catch...
```

Pre-Authorization (Authorization)

Credit Card

```

Beanstream.MerchantId = 276790000;
Beanstream.Passcode = "6EF5C0Db8E89410E8835433A54f169c2";

var payment = new
{
    order_number = "ABC1234567890",
    amount = 100.00,
    payment_method = "card",
    card = new
    {
        complete = false,
        name = "John Doe",
        number = "5100000010001004",
        expiry_month = "12",
        expiry_year = "18",
        cvd = "012"
    },
    billing = new
    {
        name = "John Doe",
        address_line1 = "2659 Douglas Street",
        address_line2 = "302",
        city = "Victoria",
        province = "BC",
        country = "CA",
        postal_code = "V8T4M3",
        phone_number = "2501231234",
        email_address = "johndoe@beanstream.com"
    },
    shipping = new
    {
        name = "John Doe",
        address_line1 = "2659 Douglas Street",
        address_line2 = "302",
        city = "Victoria",
        province = "BC",
        country = "CA",
        postal_code = "V8T4M3",
        phone_number = "2501231234",
        email_address = "johndoe@beanstream.com"
    },
    comments= "create a payment"
};

try
{
    var result = Beanstream.Payments.Create(payment);
}
catch...

```

Payment Profile


```
Beanstream.MerchantId = 276790000;
Beanstream.Passcode = "6EF5C0Db8E89410E8835433A54f169c2";

var payment = new
{
    order_number = "ABC1234567890",
    amount = 100.00,
    payment_method = "payment_profile",
    payment_profile = new
    {
        complete = false,
        card_id = 1,
        customer_code = "D675855E81b448a7bF0dD682DF74e613"
    },
    comments= "create a payment"
};

try
{
    var result = Beanstream.Payments.Create(payment);
}
catch...
```

Token

```

Beanstream.MerchantId = 276790000;
Beanstream.Passcode = "6EF5C0Db8E89410E8835433A54f169c2";

var payment = new
{
    order_number = "ABC1234567890",
    amount = 100.00,
    payment_method = "token",
    token = new
    {
        complete = false,
        name = "John Doe",
        code = "aaa-91ced41c-a2c0-4b1b-a838-cf62bbfdda02"
    },
    billing = new
    {
        name = "John Doe",
        address_line1 = "2659 Douglas Street",
        address_line2 = "302",
        city = "Victoria",
        province = "BC",
        country = "CA",
        postal_code = "V8T4M3",
        phone_number = "2501231234",
        email_address = "johndoe@beanstream.com"
    },
    shipping = new
    {
        name = "joh doe",
        address_line1 = "2659 Douglas Street",
        address_line2 = "302",
        city = "Victoria",
        province = "BC",
        country = "CA",
        postal_code = "V8T4M3",
        phone_number = "2501231234",
        email_address = "johndoe@beanstream.com"
    },
    comments= "create a payment"
};

try
{
    var result = Beanstream.Payments.Create(payment);
}
catch...
```

Pre-Authorization Complete (Capture)

Credit Card

PaymentProfile

Token

```
Beanstream.MerchantId = 276790000;
Beanstream.Passcode = "6EF5C0Db8E89410E8835433A54f169c2";

var payment = new
{
    order_number = "ABC1234567890",
    amount = 100.00
};

try
{
    var transId = 10000001;
    var result = Beanstream.Payments.Complete(transId , payment);
}
catch...
```

Void

Credit Card

PaymentProfile

Token

```
Beanstream.MerchantId = 276790000;
Beanstream.Passcode = "6EF5C0Db8E89410E8835433A54f169c2";

var payment = new
{
    order_number = "ABC1234567890"
};

try
{
    var transId = 10000001;
    var result = Beanstream.Payments.Void(transId , payment);
}
catch...
```

Redirections

3D secure cards

```

Beanstream.MerchantId = 276790000;
Beanstream.Passcode = "6EF5C0Db8E89410E8835433A54f169c2";

var payment = new
{
    payment_method = "card",
    card_response = new
    {
        pa_res = "TEST_PaRes"
    }
};

try
{
    var merchantData = "45AA2840-C435-461A-B014-9AE5EA477BAD";
    var result = Beanstream.Payments.Continue(merchantData, payment);
}
catch...

```

Interac

```

Beanstream.MerchantId = 276790000;
Beanstream.Passcode = "6EF5C0Db8E89410E8835433A54f169c2";

var payment = new
{
    payment_method = "interac",
    interac_response = new
    {
        funded = 1,
        idebit_track2 = "3728024906540591214=14010123456789XYZ",
        idebit_isslang = "en",
        idebit_version = 1,
        idebit_issconf = "CONF#TEST",
        idebit_issname = "TestBank2",
        idebit_amount = 10000,
        idebit_invoice = "10000123"
    }
};

try
{
    var merchantData = "45AA2840-C435-461A-B014-9AE5EA477BAD";
    var result = Beanstream.Payments.Continue(merchantData, payment);
}
catch...

```

Fault

```
catch (InvalidRequestException ex)
{
    //Display message to the user
    var response = ex.StatusCode + " " + ex.Response;
}
catch (BusinessRuleException ex)
{
    //Display a generic error to the user, log and investigate
    var response = ex.Response;
}
catch (UnauthorizedException ex)
{
    //Display a generic error to the user, log and fix
    var response = ex.Response;
}
catch (ForbiddenException ex)
{
    //Display a generic error to the user, log and fix
    var response = ex.Response;
}
catch (InternalServerErrorException ex)
{
    // Display a generic error to the user, log and investigate
    var response = ex.Response;
}
catch (RedirectionException ex)
{
    //Redirect user using the response contents
    var response = ex.Response;
    //Response.Write(HttpUtility.UrlDecode(ex.Response));
}
catch (CommunicationException ex)
{
    var response = ex.Message;
}
catch (Exception ex)
{
    var response = ex.Message;
}
}
```